# COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



# Atyaikachikitsa (Emergency Medicine)

## (SUBJECT CODE : AyUG-EM)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



## NCISM III Professional Ayurvedacharya (BAMS) Subject Code : AyUG-EM Atyaikachikitsa

(Emergency Medicine)

### Summary

	Total number of T	eaching hours: 40	
Lecture (LH) - Theory			
Paper I	0	0	0(LH)
Non-Lecture (NLHT)			
Paper I	12	12	40(NLH)
Non-Lecture (NLHP)			()
Paper I	28	28	

Examination (Papers & Mark Distribution)									
Item	Theory Component Marks		Practical Com	ponent Marks					
		Practical	Viva	Elective	IA				
Paper I		0	0	-	0				
Sub-Total	0								
Total marks		. 0							

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

# **PREFACE**

Emergency treatment is a crucial aspect of every medical science, including Ayurveda. The Ashtanga Hridaya describes Ayurveda as being capable of saving lives by "cutting the noose of death," emphasizing its potential in managing life-threatening conditions. The Brihat Trayee—the foundational triad of Ayurvedic texts—provides comprehensive details on various emergency conditions such as Teevra Udakakshaya (severe dehydration), Shiro Marmabhighata (head injury), Hridroga (cardiac emergencies), and Sanyasa (coma), among others.

Despite the significant advancements in modern emergency medicine, limitations still exist in certain areas and patient populations. This underscores the necessity of exploring, mastering, and applying Ayurvedic principles in emergency care. Many Vaidyas have documented encouraging results in Ayurvedic emergency treatment, demonstrating its effectiveness in various critical conditions.

To ensure competency in handling emergencies, structured and rigorous training is essential. It is imperative that every Ayurveda graduate possesses foundational knowledge and practical training in the primary management of emergencies using Ayurvedic principles, alongside an understanding of relevant contemporary medical approaches.

This syllabus is designed with the objective of equipping students with the skills required for the effective integration of Ayurvedic emergency treatment. Through a balanced approach incorporating theoretical learning, hands-on practicals, and clinical exposure, students will be empowered to address emergency conditions with confidence and expertise.

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#### **Course Code and Name of Course**

Course code	Name of Course
AyUG-EM	Atyaikachikitsa

### Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-EM At the end of the course AyUG-EM, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.
CO1	Apply the principles and practices of Kayachikitsa to effectively manage various adult ailments, aligning with the Trisutra framework.	PO1
CO2	Integrate the application of multidisciplinary sciences, tools and techniques for a biopsychosocial approach towards diagnosis, prognosis & management of diseases including anukta roga to restore dhatusamya.	PO2,PO3,PO5
CO3	Construct treatment plans/protocols applying yukti in accordance with the Chikitsa sutra including pathya apathya with appropriate documentation adhering to legal, safety and regulatory standards.	PO1,PO3,PO4,PO5
CO4	Demonstrate the application of Rasayana and Vajikarana as prophylactic, therapeutic, restorative and palliative medicine.	PO1,PO4,PO5
CO5	Perform various skills (Karma kaushalya) in dealing with atyayika avastha including first aid and primary management	PO2,PO4,PO5
CO6	Demonstrate self directedness in pursuit of new advancements in the field of biomedical research and government health care policies.	PO7,PO9
CO7	Demonstrate agility, virtuous, ethical behaviour, compassion and communicate effectively with patients, relatives, and stakeholders about the prognosis and treatment including informed consent.	PO6,PO8,PO9

### Table 2 : Contents of Course

Pape	er 1 (Atyayika Chikitsa)					
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l
1	Concept of Atyaya, and Atyayika Chikitsa	1	0	0	1	0
	Definition and Ayurvedic perspective of Atyaya and Atyayika Vyadhi					
	Clinical significance and types of Atyayika conditions					
	Arishta Lakshana (Signs of impending death)					
2	Important factors related to Atyayika conditions	1		0	2	0
	Role of Prana, Agni, Oja, Indriya, Bala, and Marma in Atyayika Avastha					
	Significance of Trimarma (Shira, Hridaya, Basti) in emergencies					
	Pathophysiology of these factors in life-threatening conditions					
3	Teevra Jwara Vega (Hyperpyrexia)	1		0	0	2
	Classification: Swatantra Jwara and Paratantra Jwara					
	Clinical examination and differentiation of fever in emergency conditions					
	Ayurvedic and modern management, including Abhyantar Aushadhi, Basti, Dhoopana, Swedana, and Lepa					
4	Raktapitta- Teevra Raktasrava (Acute Hemorrhage)	1		0	0	2
	Types of Raktapitta: Swatantra and Paratantra Raktapitta					
	Clinical assessment of hemorrhagic conditions like					

	Nasagata Raktapitta (Epistaxis) and Gudagata Raktapitta (Rectal bleeding)				
	Management using Ayurvedic interventions (Bandha, Peedana, Parisheka, Lepa) and conventional emergency care				
5	Teevra Udarashoola- {Acute abdomen, Acute abdominal pain)	1	0	2	2
	Ayurvedic and modern approaches for acute abdominal pain assessment				
	Key conditions: Renal colic, biliary colic, gastritis, pancreatitis, peritonitis, appendicitis				
	Management using Basti, Nabhi Poorana, Agnikarma, Viddha, cupping, and Lepa				
6	Mutraghata- Mutrakricchra {including Anuria/Oliguria, retention of urine)	2	0	0	2
	Types and causes of Mutraghata and Mutrakricchra				
	Clinical differentiation of anuria, oliguria, and urinary retention				
	Ayurvedic treatment modalities (Dhara, Parisheka, Lepa, Nabhi Poorana) and modern approaches				
7	Hridroga Atyayika Avastha (Management of Acute cardiac emergency conditions (including Acute coronary syndrome, Myocardial infarction, LVF, Arrhythmia)	2	0	0	3
	Pathophysiology of Svatantra and Paratantra Hridroga in emergency conditions				
	Recognition of acute coronary syndrome, myocardial infarction (MI), left ventricular failure (LVF), and arrhythmias				
	Management using Ayurvedic drugs (Trailokyachintamani, Hemagarbha Pottali, Suvarna Sootashekhara), Hridbasti, Basti, and Lepa				
8	Stabdhata (Shock), Teevra Asahatva (Anaphylaxis) and Acute Hypersensitivity reaction)	2	0	0	2

	Clinical presentation and classification of shock and hypersensitivity reactions				
	Ayurvedic and conventional approaches for emergency stabilization				
9	Murcha (Syncope) (SP98)	2	0	0	1
	Causes and classification of Murcha (Syncope) based on Ayurveda and modern medicine				
	Assessment of Atyayika Avastha in Murcha and emergency interventions				
10	Akshepaka, Apasmara Vega (Convulsions, Status epilepticus)	2	0	0	1
	Differentiation of Akshepaka and Apasmara based on clinical presentation				
	Role of Ayurveda in emergency seizure management				
	Ayurvedic treatments: Pradhamana Nasya, Lepa, Vacha, Brahmi, etc.				
11	Prameha Upadrava (Diabetic ketoacidosis (DKA) and Hyperosmolar hyperglycemic state (HHS)), Raktasharkaralpata(Hypoglycaemia), Atyuchcha Raktasharkara (Hyperglycemia)	2	0	1	1
	Recognition and clinical differentiation of Diabetic Ketoacidosis (DKA), Hyperosmolar Hyperglycemic State (HHS), Hypoglycemia, and Hyperglycemia				
	Ayurvedic and conventional approaches for managing critical diabetes complications				
12	Teevra Shwasa Vega (Acute respiratory failure, Status asthmaticus, acute respiratory distress syndrome (ARDS), Chocking	2	0	1	2
	Status asthmaticus, acute respiratory distress syndrome (ARDS), and choking				
	Ayurvedic management including Bahya Snehana, Swedana, Dhooma, Nasya, Basti, Agnikarma, and Viddha				
13	Teevra Hikka (SM74)	2	0	0	2

	Causes and complications of prolonged Hikka				
	Ayurvedic interventions: Suvarna Sootashekhara, Suvarna Sameerapannaga, Nasya, Basti, Dhooma, Nabhipurana, Bahya Snehana, and Swedana, etc.				
14	Teevra Chardhi and Sarakta Chardi	2	0	0	2
	Causes of excessive vomiting and hematemesis				
	Ayurvedic treatment including Shankha Bhasma, Mayurpicchamashi, Shubhra Bhasma, Jahar Mohara, and Viddha, etc.				
15	Teevra Atisara and Sarakta Atisara	3	0	0	2
	Nirama Atisara (Severe diarrhea) and Raktatisara (Dysentery with blood loss)				
	Management using Ayurvedic formulations like Shankhodara Rasa, Karpoora Rasa, Kanakasundar Rasa, and procedures like Viddha, Agnikarma, and Dhara, etc.				
6	Teevra Udakakshaya (including severe dehydration and electrolyte imbalance)	3	0	1	1
	Ayurvedic and modern understanding of Udakakshaya				
	Clinical assessment and emergency management, including fluid replacement therapy				
17	Teevra Pakshaghata Vega (including Acute Cerebrovascular accident (stroke) & Hyperventilation (panic attack)	3	0	0	2
	Clinical evaluation and differentiation of Pakshaghata (Cerebrovascular accident—Stroke)				
	Management using Ayurvedic drugs (Trailokyachintamani, Suvarna Sootashekhara, Siddha Makaradhvaja, Yogendra Rasa, Brihat Vatachintamani, etc), Nasya, Dhara, Parisheka, Agnikarma, and Viddha				
8	Adverse Drug Reaction and its management	3	0	1	0
	Identification of adverse drug reactions in				

	Ayurvedic principles for preventing and managing ADRs					
19	Sanyasa (patients on the verge of death and comatose patients), Ayurvedic and conventional life saving medicines	3		0	3	1
	Ayurvedic classification and stages of Sanyasa (Coma)					
	Management approaches including Ayurvedic and modern lifesaving interventions					
	Ayurvedic drugs: Hemagarbha Pottali, Trailokyachintamani, Suvarna Sootashekhara, Siddha Makaradhvaja, Mahalakshmivilasa, Sahasraputi Abhraka, Suvarna Sindoora, Yogendra Rasa, Brihat Vatachintamani, Jayamangal Rasa, Mallasindoora, Heeraka, etc.					
	Conventional emergency drugs: Atropine, adrenaline, levipil, epsoline, dopamine, dobutamine, streptokinase, dextrose, calcium gluconate, cardarone, midazolam, mannitol, effcorlin, lignocaine, lasix, adenosine, magnesium sulfate, etc.					
Tota	ll Marks		0	0	12	28

#### Table 3 : Learning objectives of Course

Paper 1	l (Atyayi	ka Chikitsa)										
A3 Cour se out come	Le	B3 arning Objective (At the end of the session, th students should be able to)	C3D3E3F3G3H3I3K3L3DomaiMK /LevelT-LAssessmenAssessTerIntegraTypen/subDK /methodtmentmtionNKImage: Second secon					L3 Type				
Topic 1	1 Conce	ept of Atyaya, and Atyayika Chikitsa (LH :0 N	ILHT:	1 NLHP	: 0)							
A3		B3		C3	D3	E3	<b>F3</b>	G3	Н3	<b>I</b> 3	K3	L3
CO5	Explain	the Ayurvedic concept of Atyaya and Atyayika Chil	ikitsa. CC MK KH FC,PER CL-PR,P- F I - NLHT1.1 ,L_VC, VIVA L&PPT					NLHT1.1				
Non Le	ecture H	lour Theory							-	-		
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT 1	1.1	Concept of Atyaya and Atyayika Chikitsa.	The te or lect The st the tea	eacher will sure with v udents when acher interv	explain th ideo clips. o have con venes to su	e Ayurved ne prepare aggest whe	lic concept ed will discu erever impr	of Atyaya and uss the aspects ovement is nee	Atyayika of Atyaya eded.	Chikits	sa by lectur tyayika Ch	e with PPT ikitsa, while
Non Le	ecture H	lour Practical	•									
S.No		Name of Practical	Descr	ription of	Practical	Activity						
Topic 2	2 Impor	rtant factors related to Atyayika conditions (L	.H :0 N	<b>NLHT: 2</b>	NLHP: 0)	)						
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO5	Explain associat	the role of important factors like Prana, Agni etc. ed with Atyayika conditions.		CAN	МК	KH	L_VC,F C,L&PP T ,DIS	VV-Viva,C L-PR,PRN	F	Ι	-	NLHT2.1

Non L	ecture E	Hour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	Activity						
NLHT 2.1 Important factors related to Atyayika conditions like Prana, Agni, Oja, Marma, Indriya, Bala.				acher will cially Trin udents wh acher gives nts will try	explain in narma, Ind to have con s inputs fo v to analyz	nportant fa riya, Bala ne prepare r necessary e the role o	actors relate , etc. with <i>a</i> ed with bas y improven of these fac	ed to Atyayika a PPT lecture of ic information nent. tors in various	condition or lecture will discu patients.	ns like Pr with vide uss it in t	rana, Agn eo clips. he classro	i, Oja, Marma oom. While
Non L	ecture E	Hour Practical	1									
S.No		Name of Practical	Descr	ription of	Practica	l Activity	,					
Topic	3 Teevr	ra Jwara Vega (Hyperpyrexia) (LH :0 NLH1	: 0 NL	HP: 2)								
A3		B3		C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO2, CO5	Implem	nent management of Teevra Jwara (hyperpyrexia)		PSY- GUD	МК	SH	SIM,CB L,D-BE D,PBL	P-MOD,P- PS, C- VC,OSCE	F	Ι	-	NLHP3.1
Non L	ecture H	Hour Theory							1			
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
Non L	ecture E	Hour Practical	•									
S.No		Name of Practical	Descr	ription of	Practica	l Activity						
NLHP 3.1     Management of Teevra Jwara (hyperpyrexia)			Studer Throu diagno They y getting	nts will tak gh case-ba osis as eith will make g a basic u	ke history ased learni ar Swatan an effort t nderstandi	and perfor ng, simula tra or Para o choose th ng of trad	m clinical e tion, or bec tantra Jwar he drug and itional ther	examinations u lside examinat a and the parti l other Ayurve apeutic approa	inder the g ion, they cular Ava dic manag ches.	guidance will atte astha. gement t	of a teac mpt to co echniques	her. mprehend the s while also

			The s Dhoo	tudents wil pana, Swee	ll observe a dana, Lepa	and assist , etc.	the teacher	in managemer	it includir	ng Abhy	vantar Aus	hadhi, Basti,
Topic 4	4 Rakta	apitta- Teevra Raktasrava (Acute Hemorrha	ge) (LH	I :0 NLH	Г: 0 NLH	<b>P: 2</b> )						
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO5	Apply 1	management of Teevra Raktasrava (acute haemorrl	nage)	PSY- GUD	МК	SH	CBL,SI M,D-M, D-BED, PBL	C-VC,OSC E,SP,P- MOD,P-EN	F	Ι	H-SH	NLHP4.1
Non L	ecture H	Hour Theory				-		,		-		
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
Non L	ecture H	Hour Practical	·									
S.No		Name of Practical	Desc	ription of	Practica	l Activity	7					
NLHP 4	4.1	Management of Teevra Raktasrava (acute haemorrhage)	Stude They disea They They treatr	ents will ex will try to ses and the will try to will observ nents like F	amine the understand exact Ava prepare a j ve and assi Bandha, Pe	patient's b d the diagr astha, inclu prescriptionst the teac predana, Par	edside or o nosis in the uding the up on including her in the t risheka, Le	n simulation of form of Swata nderstanding ba g Abhyantar Au reatment includ pa, etc. along v	based or ntra or Pa ased on co ushadhi a ling Abhy vith conve	n the cas aratantra onventiond other yantar A entional	se. a Raktapitta onal medic t treatment Aushadhi a l managem	a or other ine. modalities. nd other ent methods.
Topic	5 Teevr	ra Udarashoola- {Acute abdomen, Acute abd	ominal	pain) (L	H :0 NLE	IT: 2 NL	HP: 2)					
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO5	<ul> <li>CO2, Perform differential diagnosis and apply the treatment for Teevra</li> <li>CO5 Udarashoola (acute pain in the abdomen)</li> </ul>		Teevra	CAN	МК	SH	PBL,CB L,D,L_	P-MOD, C- VC,P-VIV	F	Ι	H-SH	NLHT5.1

						VC,L& PPT	A,OSCE,SP				
CO2, CO5	Perform differential diagnosis and apply treatmen Udarashoola (acute pain in the abdomen)	t for Teevra	PSY- GUD	МК	SH	D-BED, CBL,SI M,D- M,PBL	P-CASE,SP ,P-MOD,P- EN,OSCE	F	Ι	-	NLHP5.1
Non Le	ecture Hour Theory		•	•		•					
S.No	Name of Activity	Des	cription of	Theory A	Activity						
NLHT 5	5.1 Differential diagnosis of Teevra Udarash (acute pain in the abdomen)	oola Thro disti brief Thro by th	ough a lectur nguish and o coverview o ough simulat nemselves.	re using PI evaluate To of conventi tion, case-	PT or vide eevra Uda onal medi based rese	os, simulati rashoola (a cine. arch, or bec	on, or case stu cute abdomina dside examinat	dies, the tall pain) as	eacher v per Ayu udents v	will descri nrveda and will attem	be how to 1 provide a pt to diagnose
Non Le	ecture Hour Practical										
S.No	Name of Practical	Des	cription of	Practica	l Activity	,					
NLHP 5	5.1 Management of Teevra Udarashoola (act in the abdomen)	ute pain Stud exar They per A They man	ents will att nination or s will try to Ayurveda ar will observ agement me	empt to pr simulation prepare a j nd a brief u ve and assi thods like	ecisely ide or video c prescriptio inderstand st the teac Basti, Nal	entify the d case or case on including ing of conv her in the t ohi Poorana	iagnosis and p -based learnin g Abhyantar A rentional medio reatment inclu- a, Agnikarma,	articular A g. ushadhi ar cine. ding Abhy Viddha, cu	vastha nd other vantar A upping,	based on t treatment ushadhi a Lepa etc.	bedside modalities as nd other
Topic 6	6 Mutraghata- Mutrakricchra {including Ar	nuria/Oliguria	, retention	of urine)	(LH :0 ]	NLHT: 0	NLHP: 2)				

A3	B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO5	Apply the treatment of Mutraghata and Mutrakricch anuria, oliguria, and retention of urine)	ra (including	PSY- GUD	МК	SH	PBL,D- M,D-BE D,SIM, CBL	C-VC,P-VI VA,SP,P-M OD,OSCE	F	Π	H-SH	NLHP6.1
Non Lo	ecture Hour Theory										
S.No	Name of Activity	Desc	ription of	Theory A	Activity						
Non Lo	ecture Hour Practical										
S.No	Name of Practical	Desc	ription of	Practical	l Activity						
NLHP (	6.1 Management of Mutraghata and Mutrakricc (including anuria, oliguria, and urine retenti	hra Stude on) case. They under They They Dhara on ac	nts will ex will try to standing or will try to will observ a, Parisheka tual patient	amine the g understand f convention decide on g ve and assi a, Lepa, Na s or model	patient's b I the diagr onal medic the Abhya st the teac abhi Poora ls.	edside or st nosis and sp cine. .ntar Ausha her in Abhy na, etc. as	tudy by simula becific Avastha dhi and other t yantar Chikitsa per Ayurveda	tion or cas a as per Ay rreatment 1 a and other and consid	se-based rurveda modalit manag lering c	d learning and with a ies. gement me onvention	or video a brief thods like al methods
Topic ' LVF, A	7 Hridroga Atyayika Avastha (Management of Arrhythmia) (LH :0 NLHT: 0 NLHP: 3)	Acute cardia	ac emerge	ency cond	itions (in	cluding A	cute coronar	y syndro	me, M	yocardia	infarction,
A3	B3		C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3
CO2, CO5	Apply the primary management of Hridroga Atyayik (acute cardiac emergencies)	a Avastha	PSY- GUD	МК	SH	D-BED, FC,SIM ,PBL,C BL	P- PS,SP,PM, C- VC,OSCE	F	Π	-	NLHP7.1

Non L	ecture H	Iour Theory										
S.No		Name of Activity	Desci	ription of	Theory	Activity						
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Desci	ription of	Practica	l Activit	y					
NLHP	7.1 8 Stabd	Primary management of Hridroga Atyayika Avastha (acute cardiac emergencies) <b>hata (Shock), Teevra Asahatva (Anaphylaxis</b>	Stude based They under With They They Trailo also in	nts will tak on simula will try to standing o discussion will try to will observ okyachintan n Hridbasti	ke a quick tion or cas differentia f conventi , they will prepare a ve and ass mani, Hen i, Basti, Le	history of se-based le the and dia onal medi try to und prescription ist the teach agarbha le pa etc.	f the patient earning. agnose the e icine. derstand the on including cher in the r Pottali, Suva	and perform a exact condition condition, und g Abhyantar Cl management w arna Sootashek	clinical e as per A ler the tea hikitsa an ith Abhya thara, Sid	examinat yurveda acher's g ad other t antar Ch antar Mał dha Mał	tion at the with a su- uidance. treatment ikitsa like karadhvaj	bedside, or pportive modalities. a etc., and
A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO2, CO5	Demons Asahaty	strate preparedness to manage Stabdhata (shock), T va (anaphylaxis and acute hypersensitivity reaction)	°eevra )	PSY- GUD	МК	КН	PBL,L_ VC,D- M,CBL, FC	P-CASE,P- MOD,SP, C- VC,P-PS	F	II	-	NLHP8.1
Non L	ecture H	Iour Theory										
S.No		Name of Activity	Desci	ription of	Theory	Activity						
Non L	ecture H	Iour Practical										
S.No Name of Practical Description of Practical Activity												

NLHP 8	8.1 9 Murc	Management of Stabdhata (shock) and Teevra Asahatva (Anaphylaxis and acute hypersensitivity reaction) ha (Syncope) (SP98) (LH :0 NLHT: 0 NLHP:	The te acute l The te medici Studer They v and gu They v	acher will hypersensi acher will ine. hts will tak will try to u hidance fro will observ	demonstra tivity reac explain th e a quick l understanc om the teac ve and assi	te the cas tion) beds e possible history of the spect her. st the teac	e of Stabdh ide or throu e Ayurvedic the patients ific conditio	ata (shock) and igh simulation management a s or will observ ons and try to w al management	I Teevra . or case vi and the m e through rrite the n	Asahatva deos. anagemo simulat nanagem	a (anaphy ent by con tions, case tent with a	laxis and nventional e videos, etc. assessment
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO5	Illustrat Murcha	te the difference and management of Atyayika Avast (syncope)	ha of	PSY- GUD	МК	KH	RP,L_V C,SIM, D-BED, PBL	C-VC,SP,P -EN,P- MOD,P-PS	F	Π	-	NLHP9.1
Non Lo	ecture H	lour Theory	Deger	intion of	Theory							
S.NO			Descr	iption of	I neory A	cuvity						
Non Lo	ecture H	Iour Practical	_									
S.No		Name of Practical	Descr	ription of	Practical	Activity	7					
NLHP 9.1Management of Atyayika Avastha of Murcha (syncope)The students will take a brief history and examine the patient's bedside or through simulation or vi cases. They will try to differentiate and identify the Atyayika Avastha of Murcha. They will try to decide the line of treatment under the guidance of the teacher. They will observe and assist the teacher in the management.							tion or video					

Topic 1	10 Aksł	nepaka, Apasmara Vega (Convulsions, Status	epilept	icus) (LI	H :0 NLH	T: 0 NLI	HP: 1)					
A3		B3		C3	D3	E3	F3	G3	H3	I3	К3	L3
CO2, CO5	Demons Akshep	strate preparedness to apply the management for aka (convulsions and Teevra Apasmara (status epil	epticus)	PSY- GUD	МК	SH	SIM,RP ,D-M,D -BED,C BL	P-MOD,P- EN,SP, C- VC	F	Π	-	NLHP10.1
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
Non Le	ecture H	Iour Practical										
S.No		Name of Practical	Desci	ription of	Practical	Activity						
NLHP 10.1       Management of Akshepaka (convulsions) and Teevra Apasmara (status epilepticus)       The teacher will explain on bedside case or by simulation or video cases         On specific conditions, the students will examine, assess, and try to decide the line of treatment as provide and the actual activities required during the management.									itment as per t.			
Topic 1 Atyuch	11 Pran 1cha Ra	neha Upadrava (Diabetic ketoacidosis (DKA) ktasharkara (Hyperglycemia) (LH :0 NLHT	and Hy : 1 NLH	yperosmo IP: 1)	lar hyper	glycemic	state (HI	HS)), Raktasł	narkaral	pata(H	ypoglyca	iemia),
A3		B3		C3	D3	E3	F3	G3	H3	I3	К3	L3
CO2, CO5	Show p diabetic	reparedness to manage Prameha Upadrava (importa complications)	nt	CC	МК	КН	FC,DIS, PBL,PE R,L&PP T	PRN,VV- Viva	F	II	-	NLHT11.1
CO2, CO5	Apply t diabetic	he primary management for Prameha Upadrava (in complications)	portant	PSY- GUD	МК	SH	CBL,SI M,PBL,	P-MOD,SP, OSCE,P-	F	II	-	NLHP11.1

						D-BED	PS,P-CASE				
Non L	ecture Hour Theory										
S.No	Name of Activity	Desci	ription of	Theory A	Activity						
NLHT	11.1 Primary management of Prameha Upadrava (important diabetic complications)	Studer (inclue hypers Studer guidar They	nts divided ding diabe glycemia) nts will stu nce and suj will unders	into smal tic ketoaci which resu dy and co pervision of stand the p	l groups v dosis, hyp ilt in Atya me prepar of the teac ossible A	vill be assig perosmolar i nyika Avasti ed and pres her. yurvedic m	ned specific to hyperglycemic ha. sent their topics anagement alo	ppics relat state, hyp s, followe ng with th	ed to Propoglycen d by a d ne conve	ameha Up mia, and iscussion entional m	oadrava under the aanagement.
Non L	ecture Hour Practical										
S.No	Name of Practical	ription of	Practica	l Activity	7						
NLHP	11.1 Primary management of Prameha Upadrava (important diabetic complications)	Studen throug Under conve hypers They	nts will tak gh case-bas teacher gu ntional ma glycemic s will observ	te a brief h sed learnin uidance, th nagement tatus, hypo ye and assi	istory and g. ey will pr of Prame oglycemia st in the a	l examine the p repare the p ha Upadrav i, or hyperg ctual manag	he patient's bec lan for possible a (including di lycemia). gement done b	lside or w e Ayurvec abetic ket y the teac	ith the h dic mana toacidos her.	nelp of sin agement o is, hypero	nulation or or the osmolar
Topic 1 NLHP	12 Teevra Shwasa Vega (Acute respiratory failure 2)	e, Status as	sthmaticu	s, acute	respirato	ry distress	s syndrome (.	ARDS),	Chocki	ng (LH	:0 NLHT: 1
A3	B3		C3	D3	E3	<b>F</b> 3	G3	H3	I3	K3	L3
CO2, Describe Teevra Shvasa Vega (including acute respiratory fai status asthmaticus, acute respiratory distress syndrome, and choking)		ory failure, and	CC	МК	КН	FC,L_V C,PER, CBL,L &PPT	CL-PR,VV- Viva,T-CS	F	II	-	NLHT12.1

CO2, CO5	Apply r failure, and cho	nanagement of Teevra Shvasa (including acute resp status asthmaticus, acute respiratory distress syndr- king)	piratory ome,	PSY- GUD	МК	SH	D-M,SI M,CBL, PBL,D- BED	C-VC,SP,P -MOD,PM, OSCE	F	II	-	NLHP12.1	
Non Le	ecture H	Iour Theory				-					-		
S.No		Name of Activity	Desc	ription of	Theory A	Activity							
NLHT	12.1	Teevra Shvasa Vega	The te clips. The te They	eacher will eacher will will preser	explain th assign top at their top	e emergen ics related ics followe	cies related l to Teevra ed by unde	d to Teevra Sh Shvasa Vega t rstanding spec	vasa Vega o the stude ific conditi	by lect ents.	ure with P sed on spe	PT or video cific cases.	
Non Le	ecture H	Iour Practical											
S.No		Name of Practical	Desc	ription of	Practical	Activity							
NLHP 1	12.1	Primary management of Teevra Shvasa Vega	The s based They mana They They medic given like B	tudents will on a case. will try to gement. will unders will observ cines like H in Muhurr ahya Sneh	l take a bri prepare the stand and p ze and assi Iemagarbh nuhu Kala ana, Swed	e Ayurved perform the st the teacl a Pottali, 7 , applied o ana, Dhoo	and exami ic method e Heimlich her in actua Frailokyach on gums in ma, Nasya	ne the patient's of managemen maneuver for al management nintamani, Mal case of uncons , Basti Agnika	s bedside o t with kno choking o t with Abh llasindoora cious patie rma and V	or assess wledge n the m yantar ( a, Siddh ents. Ar iddha, c	s by simul about con odel or by Chikitsa w a Makarao ad also in j etc.	ation or ventional simulation. ith lhvaja, etc. procedures	
Topic 1	13 Teev	ra Hikka (SM74) (LH :0 NLHT: 0 NLHP: 2	)										
A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3	

CO2, CO5	Apply r	nanagement of Teevra Hikka.		PSY- GUD	МК	SH	CBL,PB L,D-BE D,SIM	C-VC,P-PS ,P-MOD,O SCE,SP	F	II	-	NLHP13.1
Non L	ecture E	Iour Theory		-						-		
S.No		Name of Activity	Desc	ription of	Theory	Activity						
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Desc	ription of	Practica	l Activity	y					
NLHP	13.1 14 Teev	Management of Teevra Hikka <b>Teevra Hikka</b> ( <b>LH :0</b>	The sibased Under They Suvar proces	tudents wi on case. the teach will observing na Sootash dures like	ll take a br er's guidan ve and assi nekhara, Si Nasya, Ba	ief history ice, they v ist the tead uvarna Sa sti, Dhoor	y and exami vill try to pr cher in the r meerapanna na, Nabhipu	ne the patient's epare the mana nanagement in ga, etc, given i irana, Bahya S	s bedside c agement pl cluding A in Muhurr nehana, S	or asses lan. bhyanta nuhu K wedana	s through ar Aushad fala, and o a, etc.	simulation or hi like ther
A3		B3		C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO2, CO5	Apply p	orimary management of Teevra Chardi and Sar	akta Chardi	PSY- SET	МК	SH	D-BED, CBL,PB L,SIM	P-MOD, C- VC,OSCE, SP	F	II	H-SH	NLHP14.1
Non L	ecture H	Iour Theory			•					•		
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Desc	ription of	Practica	l Activity	y					
S.No		Name of Practical	Desc	ription of	Practica	I Activity	y					

NLHP	14.1	Management of Teevra Chardi and Sarakta Chard	i The st video Under necess They surgic They Shank Viddh	udents wil or based o the guida sary unders will assess al manage will observ ha Bhasm a, Agnika	I take a br on the case. nce of the standing of whether the ment. we and assi a, Mayurp rma, etc.	teacher, the f convention of the patient st the teacher st the tea	y and exami hey will try ional medic s can be tre cher in the <i>a</i> hi, Shubhra	ne the patient's to plan manag ine. ated medically actual managen Bhasma, Jahar	bedside ement as or if they nent inclu	or asses per Ayu need to iding inf etc., an	s through s urveda with to be referre ternal med d other mo	simulation or n the ed for icines like odalities like
Торіс	15 Teevr	a Atisara and Sarakta Atisara (LH :0 NLH	(T: 0 NL	LHP: 2)								
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO5	Apply management of Teevra Atisara and Sarakta Atisara Lecture Hour Theory			PSY- SET	МК	SH	PBL,PS M,SIM, CBL,D- BED	PM,P- VIVA, C-V C,SP,OSCE	F	III	H-SH	NLHP15.1
Non L	ecture Ho	our Theory										
S.No	]	Name of Activity	Descr	ription of	Theory A	Activity						
Non L	ecture Ho	our Practical										
S.No	]	Name of Practical	Descr	ription of	Practical	Activity	y					
NLHP 15.1       Management of Teevra Atisara and Sarakta Atisara       The students will assess the patient with Svatantra and Paratantra Atisara and its specific Atya condition based on actual examination or by simulation or case-based learning They will try to decide on the Ayurvedic treatment plan with essential knowledge of convention medicine. They will also understand whether the patients can be treated medically or if they need to be a for surgical management.								Atyayika rentional be referred				

			They will ol Shankhodar and other tre	oserve a Rsa eatme	e and assis , Karpoor nt modali	st the teac a Rasa, K ties like V	her in actua anakasunda /iddha, Agi	al treatment inc ar Rasa, Sarvar nikarma, Dhara	cluding Al ngasundar n, etc.	bhyanta Rasa, S	r Aushadl hankha B	hi like Bhasma, etc.,
Topic 1	l6 Teev	ra Udakakshaya (including severe dehydration	n and electr	olyte	e imbalaı	nce) (LH	I :0 NLH7	: 1 NLHP: 1	)			
A3		B3	C	3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO2, CO5	Demons Udakak imbalan	strate preparedness for management of Teevra shaya (including severe dehydration and electrolyte ce)	PSY GU	/- D	МК	КН	L&PPT ,D-M,L _VC,FC ,D	CL-PR, C- VC,T-CS,P RN,VV- Viva	F	III	-	NLHT16.1
CO2, CO5	Demons (includi	strate primary management of Teevra Udakakshaya ng severe dehydration and electrolyte imbalance)	PSY GU	ζ- D	МК	SH	KL,SIM ,CBL,P BL,D-M	P-MOD,OS CE,P- PS,PM,SP	F	III	-	NLHP16.1
Non Le	ecture H	our Theory										
S.No		Name of Activity	Descriptio	n of ]	Гheory А	Activity						
NLHT	16.1	Understanding Teevra Udakakshaya (including severe dehydration and electrolyte imbalance)	The teacher the model. The teacher Atyayika A The student	will e will e vastha s will	explain Te explain ab a. discuss a	eevra Uda out assess nd unders	kakshaya w sment of Uo tand variou	vith a lecture w dakakshaya and s aspects in the	ith PPT o d Teevra U e classroo	r video, Udakaks m.	and dem	onstrate on
Non Le	ecture H	our Practical										
S.No		Name of Practical	Descriptio	n of I	Practical	Activity	,					
NLHP 1	6.1	Primary management of Teevra Udakakshaya (including severe dehydration and electrolyte	Students wi They will tr	ll exan y to p	mine the j lan mana	patient's b gement as	edside or a	ssess through s eda and also co	imulation onventiona	or vide al medic	os or base vine.	ed on the case.

Feevra Pakshaghata Vega (including Acute Cerebr B3	ovascular ac	cident (stro							
<b>B</b> 3			ке) а п	yperventil	ation (panic a	attack)	(LH :0	NLHT: (	) NLHP: 2)
20	C3	D3	E3	F3	G3	H3	I3	K3	L3
monstrate primary management of Teevra Pakshaghata V ute cerebrovascular accident, stroke).	ega PSY- GUD	МК	SH	SIM,D- M,D-BE D,PBL, CBL	C-VC,PM, P-EN,OSC E,SP	F	III	H-SH	NLHP17.1
re Hour Theory		·	·	·			•		·
Name of Activity	Description	of Theory A	Activity						
re Hour Practical									
Name of Practical	Description	of Practica	l Activity	7					
Primary management of Teevra Pakshaghata Vega (acute cerebrovascular accident, stroke)	The students videos or base They will try conventional They will lean They will obs Trailokyachin Vatachintama	will take a br ed on the cas to decide on medicine, ba n to perform erve and assi tamani, Suva ni, etc. (appl	ief history e. the manag sed on Sa procedur ist the tead arna Soota ied on gui bnehana. S	y and examin gement plan mprapti. es on model cher in the m ashekhara, S ms in uncon wedana, Ag	ne the patient's as per Ayurve s or in the skill nanagement lik iddha Makarad scious patients gnikarma, Vidd	bedside, da with e l lab. e Abhyan lhvaja, Y ), and pro lha, etc.	or asses ssential ntar Aus ogendra ocedures	ss by simu knowledg shadhi like a Rasa, Bri s like Bast	lation or ge of hat i, Nasya,
	(acute coreorovascular accident, stroke)	They will lear They will lear They will lear They will obs Trailokyachin Vatachintama	They will try to decide on conventional medicine, ba They will learn to perform They will observe and assi Trailokyachintamani, Suva Vatachintamani, etc. (appl Dhara, Parisheka, Bahya S	They will try to decide on the manage conventional medicine, based on Sat They will learn to perform procedur They will observe and assist the teac Trailokyachintamani, Suvarna Soota Vatachintamani, etc. (applied on gun Dhara, Parisheka, Bahya Snehana, S	They will try to decide on the management plan conventional medicine, based on Samprapti. They will learn to perform procedures on model They will observe and assist the teacher in the n Trailokyachintamani, Suvarna Sootashekhara, S Vatachintamani, etc. (applied on gums in uncon Dhara, Parisheka, Bahya Snehana, Swedana, Ag	They will learn to perform procedures on models or in the skill They will observe and assist the teacher in the management lik Trailokyachintamani, Suvarna Sootashekhara, Siddha Makarad Vatachintamani, etc. (applied on gums in unconscious patients Dhara, Parisheka, Bahya Snehana, Swedana, Agnikarma, Vidd	They will try to decide on the management plan as per Ayurveda with e conventional medicine, based on Samprapti. They will learn to perform procedures on models or in the skill lab. They will observe and assist the teacher in the management like Abhyan Trailokyachintamani, Suvarna Sootashekhara, Siddha Makaradhvaja, Y Vatachintamani, etc. (applied on gums in unconscious patients), and pro Dhara, Parisheka, Bahya Snehana, Swedana, Agnikarma, Viddha, etc.	They will try to decide on the management plan as per Ayurveda with essential conventional medicine, based on Samprapti. They will learn to perform procedures on models or in the skill lab. They will observe and assist the teacher in the management like Abhyantar Aus Trailokyachintamani, Suvarna Sootashekhara, Siddha Makaradhvaja, Yogendra Vatachintamani, etc. (applied on gums in unconscious patients), and procedures Dhara, Parisheka, Bahya Snehana, Swedana, Agnikarma, Viddha, etc.	They will try to decide on the management plan as per Ayurveda with essential knowledg conventional medicine, based on Samprapti. They will learn to perform procedures on models or in the skill lab. They will observe and assist the teacher in the management like Abhyantar Aushadhi like Trailokyachintamani, Suvarna Sootashekhara, Siddha Makaradhvaja, Yogendra Rasa, Bri Vatachintamani, etc. (applied on gums in unconscious patients), and procedures like Bast Dhara, Parisheka, Bahya Snehana, Swedana, Agnikarma, Viddha, etc.

A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	К3	L3
CO2, CO5	Describe preparedness for the management of adverse drug reactions.			CC	МК	КН	SIM,L& GD,L& PPT ,L_ VC,FC	CL-PR,OS CE,P-PS,SP ,P-VIVA	F	III	-	NLHT18.1
Non Lo	Ion Lecture Hour Theory											
S.No		Name of Activity	Descr	iption of	Theory A	Activity						
NLHT 18.1 Management of adverse drug reactions.			Teache lecture Studen classro	ers will ex with PPT ats will be bom.	plain conv `or videos assigned s	entional a pecific toj	dverse drug	g reactions and to this and the	the Ayur	vedic ap	proach to liscuss in	them, with a the
NON LO	Non Lecture Hour Practical											
S.No		Name of Practical	Descr	iption of	Practical	Activity						
Topic 1	19 Sany	vasa (patients on the verge of death and comate	ose pati	ients), Ay	yurvedic a	and conv	entional l	ife saving me	dicines (	(LH :0	NLHT:	3 NLHP: 1)
A3	B3			C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO5	<ul> <li>Understand the treatment of Sanyasa (patients on the verge of death and comatose patients) and about Ayurvedic and conventional life-saving drugs.</li> </ul>		of	CC	МК	КН	FC,L&P PT ,DIS ,L_VC	PRN,VV- Viva	F	III	-	NLHT19.1
CO2, CO5	Apply the treatment of Sanyasa (patients on the verge of death and comatose patients)			PSY- SET	МК	SH	PSM,D- BED,PB L,CBL, SIM	SP,OSCE,P- PS, C- VC,PM	F	III	-	NLHP19.1
Non Lo	Non Lecture Hour Theory											

S.No	Name of Activity	Description of Theory Activity
NLHT 19.1	The treatment of Sanyasa (patients on the verge of death and comatose patients) and Ayurvedic and conventional life-saving drugs.	The teacher will explain the treatment of Sanyasa (patients on the verge of death and comatose patients) with a lecture with PPT or videos. The teacher will explain the mode of action and use of Ayurvedic life-saving drugs like Hemagarbha Pottali, Trailokyachintamani, Suvarna Sootashekhara, Siddha Makaradhvaja, Mahalakshmivilasa, Sahasraputi Abhraka, Suvarna Sindoora, Yogendra Rasa, Brihat Vatachintamani, Jayamangal Rasa, Mallasindoora, Heeraka, etc. The teacher will explain the mode of action and uses of conventional life-saving drugs like Inj. atropine, adrenaline, levipil, epsoline, dopamine, dobutamine, streptokinase, dextrose, calcium gluconate, cardarone, midazolam, mannitol, efcorlin, lignocaine, lasix, adenosine, magnesium sulfate, etc.
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 19.1	Treatment of Sanyasa (patients on the verge of death and comatose patients)	The students will take a quick history and examine the patient's bedside, or assess on simulation or based on cases. They will try to decide the management methods under the guidance of the teacher. They will observe and assist the teacher in treatment including Abhyantar Aushadhi life-saving drugs like Hemagarbha Pottali, Trailokyachintamani, Suvarna Sootashekhara Pottali, etc. administered Muhurmuhu, applied on gums in case of unconscious patients, and also other methods like Pradhamana Nasya, Lepa, Udgharshana, etc.

Activity No*	CO No	Activity details
1.1	CO5	Concept of Atyaya and Atyayika Chikitsa.
2.1	CO5	Important factors related to Atyayika conditions like Prana, Agni, Oja, Marma, Indriya, Bala.
5.1	CO2,CO5	Differential diagnosis of Teevra Udarashoola (acute pain in the abdomen)
11.1	CO2,CO5	Primary management of Prameha Upadrava (important diabetic complications)
12.1	CO2,CO5	Teevra Shvasa Vega
16.1	CO2,CO5	Understanding Teevra Udakakshaya (including severe dehydration and electrolyte imbalance)
18.1	CO2,CO5	Management of adverse drug reactions.
19.1	CO2,CO5	The treatment of Sanyasa (patients on the verge of death and comatose patients) and Ayurvedic and conventional life-saving drugs.

(\*Refer table 3 of similar activity number)

Practica l No*	CO No	Practical Activity details
3.1	CO2,CO5	Management of Teevra Jwara (hyperpyrexia)
4.1	CO2,CO5	Management of Teevra Raktasrava (acute haemorrhage)
5.1	CO2,CO5	Management of Teevra Udarashoola (acute pain in the abdomen)
6.1	CO2,CO5	Management of Mutraghata and Mutrakricchra (including anuria, oliguria, and urine retention)
7.1	CO2,CO5	Primary management of Hridroga Atyayika Avastha (acute cardiac emergencies)
8.1	CO2,CO5	Management of Stabdhata (shock) and Teevra Asahatva (Anaphylaxis and acute hypersensitivity reaction)
9.1	CO2,CO5	Management of Atyayika Avastha of Murcha (syncope)
10.1	CO2,CO5	Management of Akshepaka (convulsions) and Teevra Apasmara (status epilepticus)
11.1	CO2,CO5	Primary management of Prameha Upadrava (important diabetic complications)
12.1	CO2,CO5	Primary management of Teevra Shvasa Vega
13.1	CO2,CO5	Management of Teevra Hikka
14.1	CO2,CO5	Management of Teevra Chardi and Sarakta Chardi
15.1	CO2,CO5	Management of Teevra Atisara and Sarakta Atisara
16.1	CO2,CO5	Primary management of Teevra Udakakshaya (including severe dehydration and electrolyte imbalance)
17.1	CO2,CO5	Primary management of Teevra Pakshaghata Vega (acute cerebrovascular accident, stroke)
19.1	CO2,CO5	Treatment of Sanyasa (patients on the verge of death and comatose patients)

#### (\*Refer table 3 of similar activity number)

#### Table 6 : Assessment Summary: Assessment is subdivided in A to H points

Subject	Papers	Theory	y Practical/Clinical Assessment (0)					
Code			Practical	Viva	Elective	IA	Sub Total	Total
AyUG-EM	0	0	0	0	-	0	0	0

#### 6 A : Number of Papers and Marks Distribution

#### 6 B : Scheme of Assessment (Formative and Summative)

PROFESSIONAL	FOR	SUMMATIVE		
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	NA	NA	NA	NA

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

#### 6 C : Calculation Method for Internal assessment Marks

Not applicable

#### 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

#### III PROFESSIONAL BAMS EXAMINATIONS AyUG-AC PAPER-I Time: 0 Hours Maximum Marks: 0

INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	0	0	0
Q 2	SHORT ANSWER QUESTIONS (SAQ)	0	0	0
Q 3	LONG ANSWER QUESTIONS (LAQ)	0	0	0
				0

## 6 F : Distribution of theory examination

Not Applicable

6 G : Instructions for UG Paper Setting & Blue print

Not Applicable

#### 6 H : Distribution of Practical Exam

Not Applicable

#### **References Books/ Resources**

S.No	Resources
1	Dr. Bramhadatta Sharma. Atyayik Vyadhi Nidana Chikitsa. Chaukhamba Sanskrit Pratishthan. Delhi. 2015.
2	Peter Cameron, George Jelinek, Anne-Maree Kelly, Lindsay Murray, Anthony F. T. Brown Textbook of Adult Emergency Medicine. Elsevier; 5th edition.2019
3	S.N.Chugh, Ashima Chugh. Emergency medicine for students and practitioners. ?CBS, Fifth edition, 2019.
4	Dixit U. Emergency medicine in Ayurveda. In: Deole Y.S., Basisht G., eds. Charak Samhita New Edition. 1 <sup>st</sup> ed. Jamnagar, Ind: CSRTSDC; 2020. https://www.carakasamhitaonline.com/mediawiki-1.32.1/index.php?title=Emergency_medicine_in_Ayur veda&oldid=44712. Accessed February 4, 2025.
### Syllabus Committee

	KAYACHIKITSA
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2.	Dr. B.S. Prasad, President, Board of Ayurveda, NCISM
3.	Dr Atul Babu Varshney, Member, Board of Ayurveda, NCISM
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#### Abbreviations

Domain		T L Method		Level A		Asse	Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
CC	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
САР	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	H-KC	Н КС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	H-PK	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	Н-КВ	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

	W	Workshops		C-INT	Conducting interview	
	GBL	Game-Based Learning		INT	Interactions	
	LS	Library Session		CR- RED	Critical reading papers	
	PL	Peer Learning		CR-W	Creativity Writing	
	RLE	Real-Life Experience		C-VC	Clinical video cases	
	PER	Presentations		SP	Simulated patients	
	D-M	Demonstration on Model		РМ	Patient management problems	
	РТ	Practical		СНК	Checklists	
	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
	CD	Case Diagnosis		DOPS	DOPS	
	LRI	Lab Report Interpretation		CWS	CWS	
	DA	Drug Analysis		RS	Rating scales	
	D	Demonstration		RK	Record keeping	
	D- BED	Demonstration Bedside		СОМ	Compilations	
	DL	Demonstration Lab		Portfol ios	Portfolios	
	DG	Demonstration Garden		Log book	Log book	
	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				CBA	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	

# COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



Kaumarabhritya (Pediatrics)

## (SUBJECT CODE : AyUG-KB)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



# NCISM III Professional Ayurvedacharya (BAMS) Subject Code : AyUG-KB Kaumarabhritya

(Pediatrics)

## Summary

Total number of Teaching hours: 275							
Lecture (LH) - Theory							
Paper I	100	100	100(LH)				
Non-Lecture (NLHT)							
Paper I	53	53	175(NLH)				
Non-Lecture (NLHP)							
Paper I	122	122					

Examination (Papers & Mark Distribution)										
Item	Theory Component Marks	Practical Component Marks								
		Practical	Viva	Elective	IA					
Paper I	100	100	60	10 (Set-TB)	30					
Sub-Total	100	200								
Total marks		300								

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

# **PREFACE**

Kaumarabhritya, the branch of Ayurveda dedicated to child health, has been restructured to align with the principles of an outcome-based dynamic curriculum. This revised syllabus ensures that BAMS graduates are well-prepared to address the comprehensive healthcare needs of children, starting from preconception through early childhood and beyond. A key focus of this curriculum is the first 1000 days of life, a crucial period that shapes a child's future health and development. By integrating Ayurvedic wisdom with modern medical knowledge, the syllabus provides a holistic approach to pediatric care, allowing students to understand Ayurveda's role in preventing and managing childhood diseases while complementing contemporary healthcare practices.

The curriculum emphasizes a systematic and interconnected understanding of the human body, moving beyond a linear approach to highlight the interdependence of different bodily systems. Practical learning is given priority, with hands-on training in Bala Panchakarma procedures, Ayurvedic therapies, and modern pediatric interventions. The course also focuses on research updates, effective communication skills, and building strong relationships with children and caregivers. To ensure successful implementation, a supportive academic environment is emphasized, encouraging continuous learning and collaboration among students and faculty.

At the end of the course, students will be able to assess normal growth and development, identify deviations, and provide Ayurvedic-based preventive and curative solutions. The syllabus also instills a deep understanding of child rights, diversity, and ethical considerations in pediatric healthcare. In alignment with national health policies, this curriculum contributes to building a healthy future generation and serves as a valuable reference for academicians, researchers, and practitioners in Ayurveda and integrative medicine.

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#### **Course Code and Name of Course**

Course code	Name of Course
AyUG-KB	Kaumarabhritya

### Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-KB At the end of the course AyUG-KB, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.
CO 1	Evaluate normal growth and development and its deviation in children.	PO1,PO2
CO 2	Diagnose and manage Bala Roga (Paediatric diseases) using both Ayurveda principles and contemporary medical science.	PO1,PO2,PO3,PO5,P O9
CO 3	Demonstrate knowledge and skills in assessing and intervening child health through Ayurveda with research updates.	PO2,PO5,PO7,PO9
CO 4	Demonstrate effective communication skills to build a good rapport with child/care taker that encourage participation in the shared decision making for the child health care.	PO3,PO5,PO6
CO 5	Formulate Ayurveda methods of building good health and immunity for a child	PO1,PO2
CO 6	Construct the ability to customize the Ahara and Vihara with respect to Vaya, Ahara Prakarana, Prakruti and Roga Avasta of the child	PO1,PO3,PO7,PO8,P O9
CO 7	Demonstrate the skill of handling the child and perform the Panchakarma in Balaroga.	PO4,PO5,PO9
CO 8	Advocate the child rights, Respect the diversity and abide to the ethical and legal code of conduct in the child health care	PO5,PO6

Sr	A2	<b>B2</b>	C2	D2	E2	E2
No	List of Topics	Term	Marks	Lecture hours	Non- Lecture hours Theory	Non- Lecture hours Practica l
1	Introduction to Kaumarabhritya	1	1	2	0	0
	<ol> <li>Definitions of Kaumarabhritya, Scope and importance of Kaumarabhritya and terminologies used in Kaumarabhritya.</li> <li>Vayobedha (Classification of age with recent Understanding) along with its rationale.</li> </ol>					
2	Bala Samvardhana (Growth and Development)	1	7	5	3	13
	<ol> <li>Growth, Shareera Vridhikara Bhavas (Factors affecting growth of child).</li> <li>Patterns of growth.</li> <li>Parameters used for assessment of growth in infants, children and adolescents</li> <li>Status of Dhatu in a child with reference to growth assessment.</li> <li>Development, factors influencing the development.</li> <li>Childhood Samskaras</li> <li>Developmental milestones.</li> <li>Developmental delay</li> <li>Danta Vijnana</li> </ol>					
3	Navajata Vijnana (Neonatology) 1. Garbha Vridhi and Vikasa 2. Terminologies used in neonatology.	1	11	13	3	12
	<ol> <li>Navajata Shishu Paricharya</li> <li>Pranapratyagamana (Neonatal resuscitation)</li> <li>Definition and management of Term, Pre term, Post term and High Risk Neonate.</li> <li>Examination of newborn and assessment of gestational age.</li> <li>Ayu Pariksha Vidhi [Assessment of Longevity and Standard of Living]</li> <li>Etiology, clinical features and management of Navajata Rogas- Swasavarodha (Respiratory distress), Ulbaka (Meconium aspiration syndrome),</li> </ol>					

	Birth Injuries, Upashirshaka, Haemorhagic diseases, Kamala (Jaundice), Hypoglycaemia, Akshepaka (Seizures), Abhishyanda (Neonatal Conjunctivitis).					
4	<ul> <li>Stanya Vijnana (Breast Milk)</li> <li>1. Stanyotpatti (physiology of lactation), Stanya Guna, Shuddha Stanya Lakshana (Qualities of normal Breast Milk), Piyusha (Colostrum), Composition and types of breastmilk.</li> <li>2. Stanyapana (breastfeeding), techniques and contraindications of breastfeeding.</li> <li>3. Stanya Abhava and Complementary feeding</li> <li>4. Stanyapanayana</li> <li>5. Stanya Dusti, Stanya Kshaya and Stanya Vruddi.</li> <li>6. Stanyadushti Rogas-Ksheeralasaka, Ahiputana and Kumarashosha.</li> <li>7. Concept and practice of Prashana</li> </ul>	1	11	5	5	4
5	<ul> <li>Bala Poshana (Child Nutrition) &amp; Vyadhikshamatva (Immunity)</li> <li>1. Importance of Ahara in health and disease, Agerelated nutritional needs including micronutrients and vitamins.</li> <li>2. Nutritional assessment</li> <li>3. Assess the status of Dhatu and Dhatu Pradoshaja Vikara</li> <li>4. Nutritional diet in different ages.</li> <li>5. Methods to improve Vyadhikshamatwa and Bala, Swarnaprashana and Lehana.</li> <li>6. Universal Immunization Program and National Immunization Schedule.</li> <li>7. Reproductive Child Health (RCH) program</li> <li>8. Garbhopakrama, Sutikopakrama, Balaparicharya up to 2 years (Care during the First 1000 days of life).</li> </ul>	1		5	5	8
6	<ul> <li>Kuposhana Rogas (Nutritional disorders)</li> <li>1. Phakka Roga, Kumarasosha, Karshya, Parigarbhika and Sthaulya.</li> <li>2. Severe Acute Malnutrition (SAM), Moderate Acute Malnutrition (MAM) and Failure to thrive (FTT)</li> <li>3. Concept of deficiency diseases with respect to Ahara Guna, Koshta, Agni and other disease conditions.</li> </ul>	2	7	6	3	4
7	Balaroga Pariksha Vidhi & Chikitsa	2		5	0	16

	Siddhantha (Pediatric Examination and treatment principles)					
	<ol> <li>Paediatric Examination and Case-Taking</li> <li>Vedana Parijnana</li> <li>Samanya Chikitsa Siddhanta</li> <li>Oushadha Matra Nirdharana (Posology)</li> </ol>					
8	Kulaja and Sahaja Rogas (Genetic and Congenital Disorders)	2	5	5	2	5
	<ol> <li>Kulaja Vikaras, Muscular Dystrophies (DMD) and Thalassemia.</li> <li>Sahajavikaras, Congenital disorders like Sahaja Hridaya Vikara (Congenital Heart Disease), Khandaushtha (Cleft lip), Khanda Talu (Cleft Palate), Pada Vikruti (Talipes), Sannirudha Guda (Imperforated Anus) and Neural Tube Defects, Down syndrome, Turners syndrome</li> <li>Preconception care for healthy Ritu, Kshetra, Ambu and Beeja.</li> </ol>					
9	Graha Rogas and Aupasargika Rogas (Infectious Diseases) 1. Graharogas	2	8	7	4	3
	<ol> <li>Romantika (Measles), Karnamoola Sotha (Mumps), Rubella, Masurika (Chickenpox), Hand Foot Mouth Disease, Rohini (Diphtheria), Typhoid, Tuberculosis, Pertussis, Dhanurvata (Tetanus), Meningitis, Malaria, Dengue and Hepatitis.</li> <li>Krimiroga (Helminthic infestation).</li> </ol>					
10	Swasana Rogas [Disorders of Respiratory system]	2	10	5	4	6
	<ol> <li>Pratishaya, Kasa and Shwasa(Common Cold, Tonsilitis, Pharyngitis, Talukantaka, Adenoid hypertrophy, Bronchial Asthma, Pneumonia).</li> <li>Knowledge of medicines, procedure-based therapies, Pathyapathya, counseling of the parent and Referral criteria.</li> </ol>					
11	Mahasrota Roga [Gastro Intestinal Disorders]	2		6	3	6
	<ol> <li>Examination of Annavaha Srotas</li> <li>Chardi (Vomiting), Atisara, Grahani and Pravahika- (Diarrheal disease), Vibanda (Constipation), Udara Soola (Infantile Colic and Abdominal Pain) and Parikartika (Fissure in ano),</li> </ol>					

	<ul><li>Mukha Paka (Stomaitis).</li><li>3. Dehydration and Oral Rehydration Therapies.</li><li>4. Knowledge of medicines, Procedure-based therapies, Pathyapathya, counseling of the parent and Referral criteria.</li></ul>					
12	Rasa Rakta Rogas [Disorders of blood and cardiovascular system]1. Examination of Rasavahas Srotas and Raktavaha Srotas2. Pandu (Anemia), Kamala (Jaundice), Raktapitta (Haemorrhagic disease), Yakrit Udara and Pleehodara (Hepatosplenomegaly)3. Knowledge of medicines, procedure-based therapies, Pathyapathya, Counseling of the parent and Referral criteria.	2	10	3	3	6
13	<ul> <li>Antahsravee Granthi Rogas (Disorders of Endocrine System)</li> <li>1. Sahaja Prameha (Type 1 Diabetes), Thyroid dysfunctions and Precocious and Delayed Puberty.</li> <li>2. Knowledge of medicines, procedure-based therapies, Pathyapathya, counseling of the parent and Referral criteria.</li> </ul>	2		3	2	2
14	<ul> <li>Mutravaha Sroto Rogas (Disorders of Genito urinary system)</li> <li>1. Examination of Mutravaha srotas</li> <li>2. Niruddha Prakasha (Phimosis)</li> <li>3. Mutra Rogas (UTI, Glomerular Nephritis, Chronic Renal Failure, Nephrotic syndrome, Hematuria, Proteinuria).</li> <li>4. Knowledge of medicines, procedure-based therapies, Pathyapathya, counseling of the parent and Referral criteria.</li> </ul>	3	5	3	2	2
15	<ul> <li>Sandhi Rogas (Rheumatological Disorders)</li> <li>1. Amavata, Vatarakta, Sandigata Vata(Rheumatological disorders).</li> <li>2. Knowledge regarding medicines, Procedure- based therapies, Pathyapathya, counseling of the parent and Referral criteria.</li> </ul>	3		3	2	2
16	Twak Rogas (Dermatological Disorders) 1. Kushta, Charmadala, Arumshika and Visarpa (Scabies, Eczema, Atopic Dermatitis and	3	13	3	2	3

	Psoriasis). 2. Knowledge of medicines, Procedure-based therapies, Pathyapathya, counseling of the parent and Referral criteria.					
17	Sira Snayu Rogas (Nervous system disorders)	3		7	3	9
	<ol> <li>Examination of the nervous system</li> <li>Jalaseershaka (Hydrocephalus), Apasmara (Epilepsy) Ataxia, Floppiness, Cerebral Palsy.</li> <li>Knowledge of medicines, procedure-based therapies, Pathyapathya, counseling of the parent and Referral criteria.</li> </ol>					
18	Unmada Rogas (Behavioral and Neurobehavioral disorders)	3		3	4	9
	<ol> <li>Bala Unmada (ADHD, ASD, Temper tantrum)</li> <li>Learning Disabilities, Scholastic backwardness, Breath holding spells, Mritbhakshana (Pica), Thumb sucking and Shayyamutra (Enuresis). Buddhi Mandya (Mental retardation).</li> <li>Integrated Child Development Centre.</li> <li>Knowledge of medicines, procedure-based therapies, Pathyapathya, counseling of the parent and Referral criteria.</li> </ol>					
19	Atyayika Rogas (Emergency Paediatrics)	3	12	3	2	3
	<ol> <li>Paediatric emergencies–Status epilepticus, Febrile seizures, Acute breathlessness, Poisoning, Shock, Burns, Foreign body Aspiration, Insect bite, Cardiorespiratory Arrest.</li> <li>Fluid resuscitation techniques, IV access, Nebulization and PR medications in different conditions.</li> </ol>					
20	Bala Panchakarma	3		5	0	8
	Practice of Panchakarma in children -Rukshana, Snehana, Swedana, Vamana, Virechana, Basti, Nasya, Raktamokshana, Netrakalpa, Nasa, Karna procedures.					
21	Kishora Swasthya (Adolescent Health)	3		2	0	1
	<ol> <li>Knowledge regarding adolescent health and diseases</li> <li>Sexual Maturity Rating Scale</li> </ol>					
22	Anya Rogas (Miscellaneous Diseases)	3		1	1	0

Tota	Anemia, Wilsons Disease,Kukunaka, Utphullika, Ajagallika and TaluKantaka.	100	100	53	122
	Inborn Errors of Metabolism, Congenital Rubella Syndrome, Celiac Disease, Spinal Muscular Atrophy, Guillain Barre Syndrome, Sickle Cell				

### Table 3 : Learning objectives of Course

Paper 1	I (KAUM	IARABHRITYA)										
A3 Cour se out come	Le	B3 earning Objective (At the end of the session, the students should be able to)	e C Don n/st	3 nai ub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
Topic 1	1 Intro	luction to Kaumarabhritya (LH :2 NLHT: 0 N	NLHP: 0)					-		-	-	
A3		B3	C	3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO 1,CO 3	Define	Kaumarabhritya	CI	K	МК	K	DIS,RE C,L	INT,PUZ	F&S	Ι	-	LH
CO 1,CO 3	Enlist tl Explain Kumara	ne scope and importance of Kaumarabhritya. the term Jatamatra, Navajata, Sadyojata, Bala, and 	C	С	DK	K	L&PPT ,DIS	CR-W,S- LAQ,WP	F&S	Ι	-	LH
COExplain Vayo Bheda.1,COEnlist terminologies associated with different stages of life.3Classify age as per recent advances.Analyse rationale behind Vayo Bheda.			CA	Ŋ	МК	КН	BS,L& GD	INT,CR- W,DEB	F&S	Ι	-	LH
Non Lo	ecture H	lour Theory	·							•		
S.No		Name of Activity	Descriptio	on of '	Theory <b>A</b>	Activity						
Non Lo	ecture H	lour Practical										
S.No		Name of Practical	Descriptio	on of I	Practical	Activity						
Topic	2 Bala S	Samvardhana (Growth and Development) (LH	I :5 NLHT	: 3 NI	LHP: 13)							
A3		B3	C	3	D3	E3	F3	G3	H3	I3	К3	L3

CO 1,CO 3	Define Growth and Describe factors affecting Growth and Development	СК	MK	K	BS,DIS, L&PPT	INT,T-CS	F&S	Ι	-	LH
CO 1,CO 3	Recognise patterns of Growth during Infancy, Childhood and Adolescence.	СК	МК	KH	BS,L&P PT ,DIS	PA,QZ ,M- MOD	F&S	Ι	-	LH
CO 1,CO 3	Demonstrate different parameters used for assessment of growth in infants, children and adolescents including WHO standard and Indian Standard Parameters.	PSY- GUD	MK	SH	D,D- BED,PT	SP,P- PRF,CHK	F&S	Ι	-	NLHP2.1
CO 1,CO 3	Screen and plot normal and abnormal growth in different age groups independently.	PSY- MEC	MK	SH	PT,D,D- BED	CHK,PP-Pr actical,P- PRF	F&S	Ι	-	NLHP2.2
CO 1,CO 3	Examine the status of Dhatu in a child with reference to growth assessment.	САР	MK	SH	D,PT	CHK,P-SU R,PP- Practical	F&S	Ι	-	NLHP2.3
CO 1,CO 3	Measure Anthropometry, investigate undernourishment and evaluate the nutritional status of child	PSY- MEC	MK	SH	PT,PBL ,D	Mini- CEX,P- PRF	F&S	Ι	-	NLHP2.4
CO 1	Define Development, enlist normal developmental milestones in - Gross Motor, Fine Motor skills, Personal-Social and general understanding, Language, Vision and Hearing.	СК	МК	K	EDU,L &PPT ,L_VC	O-GAME,P A,M-MOD	F&S	Ι	-	LH
CO 1,CO 2,CO 3	Define Developmental Delay	СК	МК	K	L_VC,L &PPT	INT	F&S	Ι	-	LH
СО	Assess Developmental Milestones in normal child & interpret the	CE	МК	SH	PBL,SI	Mini-CEX,	F&S	Ι	-	NLHP2.5

1,CO 4	observations.				M,PT	CHK,P- CASE				
CO 1,CO 2,CO 4	Assess Developmental Delay in children using DDST -Denver developmental screening test	CE	МК	SH	W,PBL, PT	P-PRF,CH K,P-CASE	F&S	Ι	-	NLHP2.6
CO 1,CO 2,CO 4	Record a case of Developmental Delay using the skill of history taking and DDST assessment.	PSY- MEC	МК	SH	CD,CB L,SIM	P-CASE,SP ,CHK	F&S	Ι	-	NLHP2.7
CO 1	Describe Danta and enlist types of Danta.	СК	DK	K	DIS,L& GD	M-MOD,W P,INT	F&S	Ι	-	LH
CO 1,CO 3	Describe primary and secondary Dentition.	СК	МК	К	DIS,L& PPT	M-MOD,P RN,INT	F&S	Ι	-	LH
CO 1,CO 3	Explain process of Dantotpatti.	CC	DK	K	BL,L& GD	INT,M- CHT,PRN	F&S	Ι	-	LH
CO 1,CO 2,CO 3	Enlist complications of Dantotpatti and explain its management.	CC	МК	К	RLE,L &GD,P SM	PM,T-CS	F&S	Ι	-	LH
CO 1,CO 3,CO 5,CO 6	Explain Childhood Samskaras.	CC	NK	K	L&GD, BS,L_V C	INT,WP,O- GAME	F&S	Ι	-	LH

CO 1,CO 3,CO 5,CO 6	Analyse the role of Samskaras in the process of development.		CAN	DK	КН	DIS,BS, FC	CHK,COM, M-MOD	F&S	Ι	-	NLHT2.1	
Non Lecture Hour Theory												
S.No	Name of Activity	Desc	ription of	Theory A	Activity							
S.No     Name of Activity     D       NLHT 2.1     Childhood Samskaras     P       B     C       C     1       C     3       K     N       M     C       Image: Sign of the second secon			equisite   pr e Teacher to the activite Student Activity: dents are d ch group is dents are g points of di tramana Sa tones the ch Activity: oup leader her groups cord and su of Teacher cilitate grous sess teamw klist: Yes/ -preparedm curately ide alyse the re tifies the q	reparation - The teac ity. - Students Group dis livided in g assigned 1 given time f scussion - 1 mskara hel hild must a Presentati present the are expected bmit the sur- r during A up discussi- fork and pr No tests of the second poise of th	her provid are expect cussion- 1 groups (min or 2 Child for group of Role of Sa lps child to chieve by on and ev ir inputs to ed to add to ummary of ctivity on. esentation subject milestone kara in chil	les resource ted to go the l <b>hour</b> n 5 and ma dhood Sam discussion umskara in that age. raluation - the class. the discuss through the e during the ild develop	e material (PP: arough the reso ax 10 students/ askara based of the process of th the external <b>2 hours</b> ssion. ssion. e checklist.	F/Video/Re purce mater group). n class stre developme environme	esearch rials pri ngth an ent. Exa ent and	articles) o or to the a ad number ample – An what are o	one week ctivity. of groups. nalyse how levelopment	

		5. Active collaboration
Non Lectur	e Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 2.1	Assessment of Growth I	<ul> <li>Duration: 3 hours</li> <li>Pre-preparation</li> <li>By the Teacher: Arranging the equipment necessary for assessment of growth.</li> <li>By the Students: Student is expected to come prepared with the concept of growth and its assessment.</li> <li>Clinical Classroom: <ol> <li>Students are briefed about the parameters used for the assessment of growth including anthropometry (weight, height, head circumference, chest circumference, MAC other relevant parameters)</li> <li>Demonstration of measurement on Patient/Student by the teacher.</li> </ol> </li> <li>Bedside: <ol> <li>Students are divided into groups (min 5 to max 10) and sent to OPD/IPD</li> <li>Each group is assigned 1 or 2 patients.</li> <li>Students are instructed to take proper anthropometry of the given child by using fibre glass measuring tape, stadiometer, weighing machine and other equipment. Use appropriate growth formulae for assessing growth.</li> </ol> </li> <li>Clinical Classroom <ol> <li>Discussion: Check for Growth deviations if any, age-specific growth, Indian and WHO standard.</li> <li>Students present their observations and record.</li> </ol> </li> <li>Evaluation: Teacher evaluates student performance using a checklist.</li> <li>Checklist: Yes/No <ol> <li>Pre-preparedness of the subject</li> <li>Check for Zero level of scale</li> <li>Handles baby/child gently</li> <li>Remove parallax while taking the reading</li> <li>Record the measurement accurately</li> </ol> </li> </ul>

		6. Compare with formulas and standard chart
NLHP 2.2	Assessment of Growth II	Duration: 1 hour         Pre-Preparation:         By the Teacher: Measurement Instruments are to be arranged prior to the activity.         By the Student: Students are expected to come prepared with the knowledge of Growth and its assessment.         Activity         Clinical classroom:         1. Students are initially briefed on the factors affecting the growth, and anthropometric measurements according to the different age classification and their variations.         2. Students are sent to OPD/IPD.         Bedside         1. Students are instructed to take proper anthropometric measurements of the given child to screen for normal and abnormal growth independently.         2. Use appropriate growth formulas (WHO & Indian standard parameters) to differentiate normal and abnormal growth.         3. Take a brief history of the child.         4. Plot normal & abnormal growth according to different age groups.         Clinical Classroom         Students present their findings and variations found and discuss the factors that affected the growth.         Evaluation: Students are evaluated using the checklist/observation.         Checklist: Yes/No         1. Record the measurements accurately         2. Plot the measurement on the growth chart         3. Interpret the graph         4. List the possible factors affecting growth
NLHP 2.3	Status of Dhatu	Duration: 1 hour Pre-Preparation

		<ul> <li>By the Teacher: Group division and arranging the Case for discussion.</li> <li>By the Student: The student is expected to come prepared with the knowledge of Dhatu Sara Lakshana, Dhatu Vriddhi Lakshana and Dhatu Kshaya Lakshana.</li> <li>Clinical Classroom: <ol> <li>Students are briefed with Dhatu Sara Lakshana, Vriddhi and Kshaya Lakshanas</li> <li>Students are grouped into batches(min 4 to max 8)and sent to OPD/IPD</li> </ol> </li> <li>Bedside: <ol> <li>Students are instructed to examine the assigned child for proper Rasa, Rakta, Mamsa and other Dhatu Sara Lakshana, Vriddhi and Kshaya Lakshanas. Record the observations.</li> </ol> </li> <li>Clinical Classroom:Each group will discuss their assessment.</li> <li>Evaluation: Teacher assesses students' performance using a checklist.</li> <li>Checklist: Yes/No <ol> <li>Rapport building with the child and caretaker</li> <li>Demographic data recorded</li> <li>Ask appropriate questions to assess the status</li> <li>Assess Dhatu Sara, Vruddi and Kashya Lakshana precisely</li> <li>Presents their finding confidently</li> </ol> </li> </ul>
NLHP 2.4	Undernourished child	Duration: 1 hour         Pre-Preparation         By the Teacher:         1. Group division and arranging real case/case vignettes.         2. Arranging necessary equipment for measurements.         By the Students: Student is expected to come prepared with the knowledge of anthropometry, growth chart, nutritional assessment and the features of micro-nutrient and vitamin deficiencies.         Activity         Clinical classroom: Students are divided in groups and sent to OPD/IPD         Bedside         1. Rapport building         2. Record anthropometric measurements and plot on the graph.

		<ul> <li>3. Examine the features of micro-nutrients and vitamin deficiencies.</li> <li>Clinical classroom <ol> <li>Discuss the anthropometric measurements of the given case</li> <li>Evaluate the nutritional status of the child</li> <li>Make a judgment on the nutritional status of the child.</li> </ol> </li> <li>Role of Teacher: Observe the communication skills during Case Taking, provide inputs on the case and Assess student performance through a checklist.</li> </ul>
NLHP 2.5	Assessment of Developmental Milestones in normal child	Duration : 3 hours         Pre-preparation         By the Teacher:         1. Arranging Real Patient/Videos         By the Students: Student is expected to come prepared with developmental milestones before the session.         Clinical Classroom:         Students are briefed about the parameters used for the assessment of development.         Bedside (In real case)         1. Students are divided in groups (8-12 in one group).         2. Students are sent to OPD/IPD         3. Students should assess the developmental milestones of a given child.         Clinical Classroom         Students present and record their observations.         Role of Teacher: The teacher evaluates student performance using a checklist.         Checklist: Yes/No         1. Pre-preparedness of the topic.         2. Rapport building established.         3. Handle the baby/child gently.         4. Ask relevant questions to find the age of achievement of milestones.         5. Interpret the development as per age accurately.

NLHP 2.6	Assessment of Developmental Delay	Duration: 2 hours         Pre-preparation         By the Teacher:         1. Arranging the materials or objects necessary for assessment of development.         2. Arranging Real Patient/Videos         By the Students: Student is expected to come prepared with developmental milestones and DDST scale before the session.         Clinical Classroom:         Students are briefed about DDST Scale in the classroom.         Bedside (In real case)         1. Students are divided in groups (8-12 in one group).         2. Students are sent to OPD/IPD         3. Students should assess the developmental milestones of a given child using DDST Scale.         Clinical Classroom         Students present and record the observations.         Role of Teacher: Teacher evaluates student performance using a checklist.         Checklist: Yes/No         1. Rapport building established         2. Handle the baby/child gently         3. Use DDST scale to assess the developmental milestone accurately         4. Interpret the development as per age accurately
NLHP 2.7	Case of Developmental Delay	<ul> <li>Duration: 2 hours</li> <li>Pre-Preparation -</li> <li>By the Teacher: Group division and arranging the Case for discussion</li> <li>By the Student: The student is expected to come prepared with the knowledge of Developmental milestones, Developmental delay and history taking.</li> <li>Bedside activity: <ol> <li>Students are divided in groups (Min 4 max 8) and sent to OPD/IPD</li> <li>Each group is assigned a developmental delay case. (Real case/Simulated case/Clinical case video)</li> </ol> </li> </ul>

A: build kappent with the patient and guardial. This by taking (which importance to be given on developmental milestones like when baby achieves social smile, neck control, and other developmen milestones which include gross motor, fine motor, social and language development). B. Assess the child using DDST scale. C. Record the case <b>Clinical Classroom:</b> Present the case and discuss the observation. <b>Role of Teacher:</b> Observe the communication skills during Case Taking, provide inputs on the case and Assess student performance through a checklist. <b>Checklist:</b> Yes/No 1. Pre-preparedness of the topic 2. Rapport building established 3. Demographic data and family history documented 4. Developmental milestones assessed using DDST scale 5. History of developmental delay explained. 6. Analyse the probable cause for developmental delay based on history.
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## Topic 3 Navajata Vijnana (Neonatology) (LH :13 NLHT: 3 NLHP: 12)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 1	Explain Garbha Vriddhi and Vikasa. Explain fetal development.	CC	NK	K	L_VC,L &PPT	QZ ,M-CH T,O-GAME	F&S	Ι	H-SP	LH
CO 1,CO 2,CO 3	Define the terms - SGA, LGA, AGA, LBW, VLBW, ELBW, Fetus, Live birth and Stillbirth. Describe the characteristics of Normal Term Neonate. Describe the characteristics of High-Risk Neonate. Recite Swasta Bala Lakshana.	СК	МК	Κ	DIS,L& PPT ,REC	O-GAME,I NT,WP	F&S	Ι	-	LH
CO 2,CO 3	Explain Navajata Shishu Paricharya including Pranapratyagamana. Explain recent advances in neonatal care.	CC	МК	К	L_VC,L &PPT	S-LAQ,M- CHT,INT	F&S	Ι	-	LH

CO 2,CO 3	Explain Nabhi Nala Chedana. Enlist and explain complications of Nabhi Nala Chedana, Nabhi Paka, Umbilical sepsis and its management. Explain the management of Umbilical Hernia	CC	MK	K	L&GD, L_VC,D IS	C-VC,T- CS	F&S	Ι	-	LH
CO 3,CO 7,CO 8	Analyse the scientificity of Navajata Shishu Paricharya & Pranapratyagamana with respect to: Receiving the baby, Temperature maintenance, Stimulation of breathing and Cord care	CAN	МК	КН	BS,FC,I BL	PRN,CHK, DEB	F&S	Ι	-	NLHT3.1
CO 1,CO 2,CO 3	Explain the care of Post term and Preterm Neonates.	CC	МК	K	L&PPT ,L_VC, CD	QZ ,T-CS, C-VC	F&S	Ι	-	LH
CO 2,CO 3	Explain Neonatal Resuscitation. Enlist complications of Neonatal Resuscitation and Explain management. Recognise the Preventive Strategies at the time of delivery.	CC	MK	КН	D-M,BS ,L&PPT	CL-PR,INT ,O-GAME	F&S	Ι	-	LH
CO 3,CO 7,CO 8	Perform Neonatal Resuscitation on manikin. Demonstrate Intranatal care and receiving a baby in normal delivery.	PSY- GUD	МК	SH	D- M,W,P T	CHK,DOP S,OSCE,D OPS	F&S	Ι	-	NLHP3.1
CO 1,CO 7	Examine Newborn baby and assess gestational age of Newborn.	PSY- GUD	МК	SH	D- M,W,P T	CHK,OSC E,P-PRF	F&S	Ι	-	NLHP3.2
CO 3,CO 4,CO 7	Demonstrate Navajata Abhyanga, Snana and administer Prashanam. Counsel and educate the caretakers regarding "Newborn Care after discharge"	PSY- GUD	МК	SH	D-M,RP	CHK,PA,R S	F&S	Ι	-	NLHP3.3
CO 3,CO	Explain Rakshakarma Vidhi. Analyse scientificity of Raksha Karma.	CAN	МК	КН	SDL,L &GD	CL-PR,DE B,PUZ	F&S	Ι	-	LH

5										
CO 1,CO 3	Infer Ayu Pariksha Vidhi [Assessment of Longevity and Standard of Living]	CAN	NK	KH	W,EDU ,PL	RS,CHK,P- SUR	F&S	Ι	-	NLHT3.2
CO 2,CO 3	Describe the etiology, clinical features and management of neonatal respiratory distress. Describe the etiology, clinical features and management of meconium aspiration syndrome. Explain Ulbakam and its Chikitsa.	CC	МК	K	L&PPT ,LRI,X- Ray	T-CS, C- VC,INT	F&S	I	-	LH
CO 2,CO 3	Enlist and analyze complications of Akalapravahana. Define and enumerate birth injuries and analyze their causes. Describe the clinical features, pathophysiology and management of Caput succedaneum and cephalohematoma. Explain Upasheershakam and its Chikitsa. Describe the clinical features, pathophysiology and management of Erb's Palsy.	CAN	МК	КН	L&PPT ,DIS,C D	C-VC,PUZ ,T-CS	F&S	Ι	-	LH
CO 2,CO 3	Describe etiology, clinical features and management of haemorrhagic diseases.	СК	МК	K	CD,DIS ,L&PPT	PM,CBA,T- CS	F&S	Ι	-	LH
CO 2,CO 3	Diagnose Neonatal seizures. Analyse the concept of Akshepaka and Skandapasmara in the context of neonatal seizures	CE	МК	KH	SIM,CB L,PT	SBA,Mini- CEX,CHK	F&S	Ι	-	NLHP3.4
CO 2,CO 3	Describe etiology, clinical features and management of Neonatal hypothermia, Neonatal hypoglycemia and neonatal seizures.	СК	МК	K	L_VC,C D,L&PP T	CBA,T-CS	F&S	Ι	-	LH
CO 2,CO	Diagnose Neonatal Hypothermia, Hypoglycemia, Septicemia, Conjunctivitis, Respiratory Distress, Meconium Aspiration	PSY- GUD	МК	SH	CBL,C D,PT	CHK,Mini- CEX,P-	F&S	Ι	-	NLHP3.5

3	Syndron Hemorr Observe sepsis/h	ne, Caput Succedaneum, Cephalohematoma, Erbahagic diseases. Diagnose Umbilical Hernia and see the umbilical area of neonates and screen for umernia. Recognize red flags for referrals of umbilica	s palsy, epsis. bilical al sepsis.					CASE				
CO 2,CO 3	Describe etiology, clinical features and management of neonatal septicemia and neonatal conjunctivitis.		CC	МК	К	CD,L& PPT	T-CS,O- GAME	F&S	Ι	-	LH	
CO 2,CO 3	<ul> <li>Explain mechanism of Neonatal jaundice. Describe etiology,</li> <li>clinical features and management of Neonatal Jaundice.</li> </ul>		CC	МК	К	L_VC,L &PPT ,LRI	M-CHT, C- VC	F&S	Ι	-	LH	
CO 2,CO 3	<ul> <li>Diagnose and manage the case of Neonatal Jaundice.</li> <li>O</li> </ul>		PSY- GUD	МК	SH	PT,LRI, CBL	CHK,Mini- CEX,P- CASE	F&S	Ι	-	NLHP3.6	
CO 3,CO 5,CO 6	COOutline the scope of complimentary approach of Ayurveda3,COprinciples and practices in the management and prevention of5,COhypothermia, hypoglycemia, seizure, septicemia, conjunctivitis6and jaundice in neonate.		CAN	NK	КН	TBL,FC ,BS	CHK,DEB, CL-PR	F&S	Ι	-	NLHT3.3	
Non L	ecture H	lour Theory					•					
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT 3.1 Navajata Shishu Paricharya and Pranapratyagamana Pre-P By th one w By th 1. Ide a role care.)		tion: 1 hou reparatio e teacher: eek before e Student: ntify a que or impact	Ir <b>n:</b> Schedulin the sessio stion (Whi in receivin	g the topic n. ch Proced g the baby	c of discuss lures of Nav y, temperati	ion, dividing t vajata Shishu F are maintenanc	he student Paricharya e, stimula	s in gro and Pra tion of	ups (Min mapratyag breathing	15 Max 20) amana have and cord		

		<ol> <li>Conduct background research (Explore or study the topics such as Ashmanosanghatanokarnayormulam , Sheetodakenaushnodakena Mukha Parisheka, and initial steps involved in the labour room)</li> <li>Formulate hypothesis if necessary: Predict how specific Paricharya helps in stimulation of breathing, maintenance of temperature and card care.</li> <li>Plan and conduct investigations (interview with senior Ayurveda pediatricians or collecting research articles)</li> <li>Analyse Data: Gather and analyse information.</li> <li>Class activity:         <ol> <li>Group discussion on collected findings - 10 mins</li> <li>Communicate findings: one group leader presents the findings through a report/presentation.</li> <li>Open discussion/ debate on the findings of each group.</li> <li>Submit the report.</li> </ol> </li> </ol>
NLHT 3.2	Ayu Pariksha Vidhi	<ul> <li>Duration: 1 hour</li> <li>Pre-Preparation</li> <li>By the Teacher: <ol> <li>Prepare a questionnaire of each organ character.</li> <li>Group division (5-8 in one group)</li> </ol> </li> <li>By the Student: Student is expected to come prepared with the knowledge of Lakshana Adhyaya</li> <li>Activity: <ol> <li>Teacher briefs about Ayupariksha Vidhi and the questionnaire prepared</li> <li>Examine peers/children</li> <li>Mark each character based on its presence</li> <li>Cross-check with their current health status/professional status etc as interpretation</li> <li>Discuss based on opportunities received, lifestyle adapted etc</li> <li>Discuss on the feasibility of Lakshan Adhyaya.</li> </ol> </li> <li>Role of a teacher: <ol> <li>Guide students on interpreting the questionnaire</li> <li>Evaluation: The teacher evaluates students using the Checklist form and gives feedback.</li> </ol> </li> </ul>

		1. Correctly identify the features 2. Interprets the inference
		3. Active participation
NLHT 3.3	Neonatal disorders	Duration : 1 hour
		Prerequisite\ preparation -
		By the Teacher:
		1. Dividing the class into six groups and assigning one condition to each group (hypothermia,
		hypoglycemia, seizure, septicemia, conjunctivitis and jaundice) one-two weeks prior to the session.
		2. Guiding the student to collect references and document the findings
		By the Student:
		Student is expected to collect references, document and present their opinion.
		Class Activity
		1.Students gather in assigned groups and discuss: 10 mins
		2. One from each group is expected to present the Ayurveda principles and practices in the
		management and prevention of allotted disease with their peers. (For example : Stanyapana (Exclusive
		breastfeeding) in the management and prevention of neonatal hypoglycemia, Triphala Kwatha
		Parisheka in neonatal conjunctivitis)
		3. Debate and Discuss the presented findings.
		Role of a teacher:
		1.Facilitate group discussion
		2.Evaluation is done using a checklist and inputs are provided based on their performance.
		Checklist: Yes/No
		1. Pre-preparedness on the topic
		2. Correctly identify the preventive and complementary strategies
		3. Justifies the strategies with evidence
		4. Good collaboration
		5.Presents the finding logically
Non Lecture Hour Practical		

S.No	Name of Practical	Description of Practical Activity
NLHP 3.1	Neonatal Resuscitation and Intranatal care.	<ul> <li>Duration: 3 hours</li> <li>Pre-Preparation</li> <li>By the Teacher: Arranging the Manikins, instruments and equipment necessary for Neonatal resuscitation.</li> <li>By the Student: Student is expected to come prepared with the knowledge of Neonatal resuscitation.</li> <li>Activity in clinical classroom/simulation lab: <ol> <li>Teacher enlists the aseptic measures and Neonatal resuscitation and</li> <li>Demonstration of neonatal resuscitation and intranatal care by the trainer.</li> <li>Demonstration of communication skills with the mother during birth by the trainer.</li> <li>Each group is provided with manikin.</li> <li>Students are divided in groups.(6-10 in each group)</li> <li>Each group is provided with manikin.</li> <li>Guide students on appropriate methods of performing neonatal resuscitation.</li> <li>Teacher evaluates students using the Checklist/DOAP form.</li> </ol> </li> <li>Checklist: Yes/No <ol> <li>Handling the manikin gently</li> <li>Follow the proper steps of resuscitation</li> <li>Quick decision taken during change of procedures</li> <li>Performs the steps efficiently and skillfully.</li> </ol> </li> </ul>
NLHP 3.2	Examination of Newborn and Assessment of gestational age.	Duration: 2 hours         Pre-Preparation         By the Teacher: Arranging the Manikin/Real case and instruments and equipment necessary for         Neonatal examination.         By the Student: Student is expected to come prepared with the knowledge of the Neonatal examination         Activity in clinical classroom/simulation lab:         1. Students are divided in groups.(6-10 in each group)

		<ul> <li>2. Each group is provided with a manikin/real case.</li> <li>3. Teacher demonstrates the newborn examination on a manikin/real case.</li> <li>4. Students perform the following examination on a manikin/real case.</li> <li>a. Examination immediately after birth</li> <li>b. Examination on the second day of life</li> <li>c. Examination on the day of discharge</li> <li><b>Role of a teacher:</b></li> <li>1. Guide students on appropriate methods of performing neonatal examination.</li> <li>2. Teacher evaluates students using the Checklist form.</li> <li><b>Checklist:</b> Yes/No</li> <li>1. Establish rapport with parent/caretaker</li> <li>2. Handle the baby/manikin gently</li> <li>3. Performs the examination efficiently</li> <li>4. Identifies the gestation maturity based on the physical and neurological maturity of the child.</li> </ul>
NLHP 3.3	Newborn care after discharge	<ul> <li>Duration: 2 hours</li> <li>Pre-Preparation</li> <li>By the Teacher: <ol> <li>Arranging the Manikin and instruments necessary for demonstrating Navajata abhyanga, Snana and administering Prashanam.</li> <li>Preparing a Role Play skit/pre-recorded video of the demonstration</li> <li>By the Student: Student is expected to come prepared with the knowledge of Abhyanga, Snana and Prashanam.</li> </ol> </li> <li>Activity in clinical classroom/simulation lab: <ol> <li>Teacher demonstrates the Newborn care post discharge including Abhyanga, Snana and Prashanam on Manikin or real baby/displays the pre-recorded video.</li> <li>Students gather in groups to practice on Manikin and with peers.</li> <li>Components of role-play demonstration include: <ol> <li>Building a Rapport with the mother and ensuring her on Newborn Care.</li> <li>Explaining the signs of a healthy baby and a sick baby.</li> <li>Demonstrating the breastfeeding position and burping. Explaining the frequency</li> </ol> </li> </ol></li></ul>

		<ul> <li>4. Demonstrating Abhyanga and Snana</li> <li>5. Demonstrating Prashanam.</li> <li>6. Explaining cleaning and clothing of the baby</li> <li>7. Demonstrating Cord care</li> <li>8. Demonstrating Shiro Pichu</li> <li>9. Ensuring if the mother has understood the communication and has no doubts.</li> <li>Role of a teacher: <ol> <li>Demonstration of Role play and guide students on right practice.</li> <li>Teacher evaluates the student skill by using Check list and gives feedback.</li> </ol> </li> <li>Checklist: Yes/No <ol> <li>Rapport building established</li> <li>Explains signs of healthy baby and sick baby efficiently.</li> <li>Demonstrates the breastfeeding position and burping</li> <li>Demonstrates Abhyanga, Snana and Prashanam.</li> <li>Explains the cleaning and clothing of the baby.</li> <li>Demonstrates Cord care and Shiro Pichu.</li> <li>Ensures that the mother has understood the communication.</li> </ol> </li> </ul>
NLHP 3.4	Neonatal seizures /Akshepaka and Skandapasmara.	Duration: 1 Hour         Preparation /pre-requisites         By the teacher:         1. Scheduling the case taking and arranging the case (Real Patient / simulated patient/ Case Vignette)         2. Make the student understand the OPD/IPD manners during case-taking         3. Preparing the checklist for the concerned activity.         By the student:         1. Student is expected to come prepared with the content of Nidana Panchaka and Chikitsa Apasmara, the concept of Akshepaka and Skandapasmara and neonatal seizure.         2. Rapport building, proper history taking, thorough examination, appropriate Investigation ACTIVITY         In clinical classroom: Students are divided in groups (5-8 members in one group) and assigned one case (Real/Simulated/Case Vignette)
		<ul> <li>Bedside: Case taking as per the format (in case of real patients) <ol> <li>Building rapport with patient</li> <li>History taking</li> <li>Clinical examination</li> </ol> </li> <li>In clinical classroom: <ol> <li>Students discuss the Nidana Panchaka in the allotted group, differential diagnosis, plan investigations if needed &amp; identify the Samprapti Ghatakas</li> <li>Plan the management and justify the Samprapti Vighatana</li> <li>Analyse the Symptoms with the Lakshana of Akshepaka and Skandapasmara</li> <li>Presentation of the case [Each group will present entire case or any sub-point of the case]</li> <li>Recording the case in the record book.</li> </ol> </li> <li>Teacher's role: Teacher evaluates students' performance based on a checklist/rating scale.</li> <li>Checklist: Yes/No <ol> <li>Rapport building established</li> <li>Explain the history and symptoms in sequence</li> <li>Plans the management and justifies</li> <li>Analyze the Symptoms with Akshepaka and Skandapasmara</li> </ol> </li> </ul>
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NLHP 3.5	Neonatal diseases	Duration: 3 HoursPreparation /pre-requisitesBy the teacher:1. Scheduling the case taking and arranging the case (Real Patient / simulated patient/ Case Vignette)2. Make the student understand the OPD/IPD manners during case-taking3. Preparing the checklist for the concerned activity.By the student:1. The student is expected to come prepared with the concept of Neonatal Diseases2. Rapport building, proper history taking, thorough examination, appropriate InvestigationACTIVITYIn clinical classroom: Students are paired and assigned one case (Real/Simulated/Case Vignette) of Neonatal Hypothermia, Hypoglycemia, Septicemia, Conjunctivitis, Respiratory distress, Meconium

		<ul> <li>aspiration syndrome, Caput Succedaneum, Cephalohematoma, Erbs palsy, Hemorrhagic diseases, Umbilical Hernia and Umbilical sepsis.</li> <li>Bedside:</li> <li>Case taking as per the format (in case of real patients) – 1 hour</li> <li>1. Building rapport with patient</li> <li>2. History taking</li> <li>3. Clinical examination</li> <li>In clinical classroom: 2 hour</li> <li>1. Students discuss the diagnosis, interpret the investigation report</li> <li>2. Identify red flag signs for referral</li> <li>3. Plan the management and justify</li> <li>4. Presentation of the case [Each group will present the case assigned to them]</li> <li>5. Recording the case in the record book.</li> <li>Teacher's role: The teacher evaluates students' performance based on a checklist/rating scale.</li> <li>Checklist: Yes/No</li> <li>1. Rapport building established in real case</li> <li>2. Explain the birth history and symptoms in sequence</li> <li>3. Interpret the investigation report accurately</li> <li>4. Diagnose the case and justifies the differential diagnosis</li> <li>5. Plan the possible management</li> <li>6. Good collaboration</li> </ul>
NLHP 3.6	Case of Neonatal Jaundice.	Duration: 1 Hour         Preparation /pre-requisites         By the teacher:         1. Scheduling the case taking and arranging the case (Real Patient / simulated patient/ Case Vignette)         2. Make the student understand the OPD/IPD manners during case-taking         3. Preparing the checklist for the concerned activity.         By the student:         1. The student is expected to come prepared with the concept of Neonatal Jaundice         2. Rapport building, proper history taking, thorough examination, appropriate Investigation

	ACT In cl case (Phy. Beds 1. Bu 2. Hi 3. Cl In cl 1. Str 2. Pla 3. Di 4. Pro 5. Ref	ACTIVITY In clinical classroom: Students are divided in groups (5-8 members in one group) and assigned one case (Real/Simulated/Case Vignette) of varying severity of Neonatal Jaundice (Physiological/Pathological) Bedside: Case taking as per the format (in case of real patients) 1. Building rapport with patient 2. History taking 3. Clinical examination In clinical classroom: 1. Students discuss the diagnosis, interpret the investigation 2. Plan the management and justify 3. Discuss the practical challenges in the management plan and alternatives 4. Presentation of the case [Each group will present the entire case or any sub-point of the case] 5. Recording the case in the record book.					igned one			
Topic 4	4 Stanya Vijnana (Breast Milk) (LH :5 NLHT: 5 NLHP: 4	)								
A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO 3,CO 5,CO	Define Stanya. Explain the process of Stanyotpatti and the physiology of lactation. Enlist Stanya Guna and Shuddha Stanya Lakshana. Enumerate properties of normal breast milk. Define	CC	МК	К	DIS,L& PPT ,GBL	M-CHT,W P,O-GAME	F&S	Ι	-	LH

6	colostrum and enlist the advantages.									
CO 3,CO 5,CO 6	Explain the Advantages of Breastfeeding. Recognize the wrong practices of Breastfeeding. Identify Complementary feeding arrangements in the absence of Stanya. Identify Complementary feeding arrangements in the absence of Breastmilk. Explain Stanyapanayana.	СС	МК	K	TUT,L_ VC,DIS	WP,M-CH T,O-GAME	F&S	Ι	-	LH
CO 4,CO 7,CO	Demonstrate techniques of breastfeeding.	AFT- RES	МК	SH	RP,SIM ,D	CHK,M- POS,P-RP	F&S	Ι	-	NLHP4.1

8										
CO 5,CO 6	Identify Complementary feeding arrangements in the absence of Stanya.	CC	DK	КН	FC,DIS, TBL	PRN,CHK, DEB	F&S	Ι	-	NLHT4.1
CO 5,CO 6	Discuss Complementary feeding arrangements in absence of Breastmilk	СК	MK	К	FC,TBL ,DIS	PUZ,CHK, M-CHT	F&S	Ι	-	NLHT4.2
CO 5,CO 6	Discuss the Complementary feeding arrangements in the absence of breast milk	CAN	MK	КН	FV,TP W	CR- W,COM	F&S	Ι	-	NLHP4.2
CO 1,CO 2,CO 3	Explain Nidana, Bheda, Lakshana and Chikitsa of Stanya Dushti. Explain Nidana, Lakshana of Stanya Vriddhi and Kshaya. Recite Stanya Vardhaka Gana and Stanya Shodhana Gana.	CC	МК	K	REC,L &GD,T UT	QZ ,WP,T- CS	F&S	Ι	-	LH
CO 1,CO 3,CO 4,CO 8	Analyse Nidana, Lakshana of Stanya Vriddhi and Kshaya. Perform Stanya Pareeksha.	PSY- GUD	МК	SH	DL,W, KL	CHK,P-SU R,DOPS,D OPS	F&S	I	-	NLHP4.3
CO 2,CO 3,CO 6	Enlist the Diseases due to Stanyadushti. Explain Nidana, Samprapti, Lakshana and Chikitsa of Ksheeralasaka. Explain Nidana, Samprapti, Lakshana and Chikitsa of Ahiputana/GudaKutta.	CC	MK	K	DIS,L& PPT ,CD	T-CS, C- VC,SBA	F&S	Ι	-	LH
CO 2,CO 3,CO 5,CO	Explain Nidana, Samprapti, Lakshana and Chikitsa of Kumarashosha. Describe etiopathogenesis, features, investigations and management of Lactose Intolerance. Explain method and practices of Swarnaprashana.	CC	МК	K	DIS,CD ,L&PPT	T-CS,S- LAQ,CBA	F&S	Ι	-	LH

6												
CO 3,CO 5	Analyse	e the scientific benifits of Swarnaprashana.		CAN	DK	КН	BS,IBL, DIS	DEB,CHK, CR-RED,C L-PR	F&S	Ι	-	NLHT4.3
CO 5,CO 7	Prepare	and Administer Swarnaprashana		PSY- GUD	MK	SH	PT,D	P-PRF,DO PS,Log book,DOPS	F&S	Ι	-	NLHP4.4
CO 4,CO 5,CO 8	Particip	ate in breast feeding week celebration.		AFT- RES	NK	SH	TPW,R LE	INT,C-INT	F	I	-	NLHT4.4
CO 2,CO 3	Analyse diseases	e Ksheeralasaka with Malnutrition and Chronic G s in Breastfeeding babies.	I	CAN	МК	КН	PBL,FC	CHK,RS,C L-PR	F&S	Ι	-	NLHT4.5
Non L	ecture H	lour Theory										
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
NLHT ·	4.1	Complementary feeding I (in the absence of Stanya)	Duration: 1 hour         Pre-preparation         By the Teacher:         1. Students are divided in groups (8-12 students in one group)         2. The teacher assigns the topic of discussion and the list of references one week before the class activity.         By the Student: Students are expected to study the concept and come prepared for discussion.					e class sion.				

Key points of discussion: Stanya Abhave kim Dheyam (complementary or alternative feeding arrangements)

**Class Activity :** 

1. Students gather in divided groups.

		<ol> <li>2. Facilitator open the discussion.</li> <li>3. Students are expected to discuss Complementary feeding arrangements in absence of Stanya in their respective groups with their peers.</li> <li>4. Each group will identify a complementary feeding arrangement.</li> <li>5. Students are supposed to justify the answers with references.</li> <li>6. One group leader presents the key points of discussion.</li> </ol>
NLHT 4.2	Complementary feeding II (in the absence of Breastmilk)	<ul> <li>Duration: 1 hour</li> <li>Pre-preparation</li> <li>By the Teacher: <ol> <li>Students are divided in groups (8-12 students in one group)</li> <li>The teacher gives the topic of discussion and the list of references one week before the class activity.</li> <li>By the Student: Students are expected to study the concept and come prepared for discussion.</li> <li>Key points of discussion: complementary or alternative feeding arrangements</li> <li>Class Activity : <ol> <li>Students gather in divided groups.</li> <li>Facilitator open the discussion.</li> </ol> </li> <li>Students are expected to discuss Complementary feeding arrangements in absence of breastmilk in their respective groups with their peers.</li> <li>Each group will identify complementary feeding arrangement.</li> <li>Students are supposed to justify the answers with references.</li> <li>One group leader presents the key points of discussion.</li> </ol></li></ul>
NLHT 4.3	Swarnaprashana	<ul> <li>Duration: 1 hour</li> <li>Pre-preparation</li> <li>By the Teacher: Teacher informs the topic and group division (Min 10 to 12) 1 week before the class activity.</li> <li>By the Student:</li> <li>1. Identify a Question on the topic.</li> </ul>

		<ol> <li>Conduct Background Research: Literature research, Collecting articles/research work on Swarnaprashana</li> <li>Formulate a hypothesis if needed</li> <li>Plan and Conduct Investigations: Interviewing healthcare professionals about Swarnaprashana they use in their practice and thier benifits. Surveys can also be planned in public.</li> <li>Analyse Data: Analyse data from surveys or interviews to understand the scientific benefits of Swarnaprashana.</li> <li>Class activity:         <ol> <li>Students gather in their respective groups</li> <li>Group discussion: 10 mins</li> <li>Communicate findings: Present findings through a report/presentation with evidence.</li> </ol> </li> <li>Role of a Teacher:         <ol> <li>Direct the research and facilitate group discussion</li> <li>Evaluate students' performance based on checklist/rating scale</li> <li>Checklist: Yes/No</li> <li>Preparation: evidence of prior study and research</li> <li>Participation: All group members actively contribute to the discussion</li> <li>Justification: The scientific benefits of Swarnaprashana are justified with appropriate evidence and answers the query with justification.</li> <li>Communication: clear and confident expression during the discussion and presentation</li> <li>Presentation: Presentation well-organized, relevant, and delivered effectively</li> </ol> </li> </ol>
NLHT 4.4	Breast feeding week program.	<ul> <li>Students are expected to attend Breastfeeding Week program celebration either online or offline mode. The main aim of the program is to educate, encourage breastfeeding and promote good health in children.</li> <li><b>Objectives of attending the program.</b></li> <li>1. Learning about breastfeeding benefits for mother.</li> <li>2. Learning about breastfeeding benefits for children.</li> <li>3. Importance of breastfeeding.</li> <li>4. Educating families regarding breastfeeding.</li> <li><b>Outcome:</b> Students are able to encourage and educate the importance of breastfeeding to public.</li> </ul>

NLHT 4.5	Ksheeralasaka	<ul> <li>Duration: 1 hour</li> <li>Pre-preparation</li> <li>By the Teacher: Teacher divides the group and assigns one problem/Case Vignette to each group one week before the acivity.</li> <li>By the Student: Student is expected to understand the problem and study various resources available and prepare for group discussion.</li> <li>Class activity:</li> <li>Introduction: Teacher introduces students to the problem or case to be solved and provides an overview of Ksheeralasaka, malnutrition and chronic GI diseases.</li> <li>1. Students gather in divided groups (8-12 in one group).</li> <li>2. Students should analyze the symptoms of malnutrition and chronic GI diseases in a given case vignette with Ksheeralasaka by considering its Nidana, Samprapti and Lakshanas in groups.</li> <li>3. The group leader presents their opinion or observations to the class.</li> </ul>
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 4.1	Breastfeeding techniques	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation</li> <li>By the Teacher: <ol> <li>Dividing the groups and arranging the manikin.</li> <li>Sharing the PPT/Prerecorded video</li> <li>Guiding the students to build a script and validate it before the session.</li> </ol> </li> <li>By the Student: <ol> <li>The student is expected to study breastfeeding techniques before the session.</li> <li>Build a script for role play (Explaining the breastfeeding technique to the parent/caretaker with Do's and Don'ts)</li> </ol> </li> <li>Activity: <ol> <li>Introduction: The teacher introduces students to different techniques of breastfeeding and its importance on a child's health.</li> </ol> </li> </ul>

		<ol> <li>Students assemble in groups and role-play the script.</li> <li>Role of Teacher: Facilitate group discussion, feedback &amp; evaluation. Students performance will be evaluated using a checklist.</li> <li>Checklist: Yes/No</li> <li>Self-introduction and rapport building</li> <li>Demonstrates the different techniques of breastfeeding efficiently.</li> <li>Demonstrates burping</li> <li>Explains the frequency and duration of Breastfeeding</li> <li>Clear explanation in simple and local language</li> <li>Feedback of communication (Made sure that parents understood the technique)</li> </ol>
NLHP 4.2	Complementary feeding Survey	<ul> <li>Duration: 1 hour</li> <li>Pre-Preparation:</li> <li>By the Teacher: <ol> <li>Teacher has to identify the place of the survey visit and make necessary arrangements.</li> </ol> </li> <li>Divide the students in groups By the Student: <ol> <li>Students has to come prepared with the complementary feedings used in the absence of breastmilk. </li> <li>Activity <ol> <li>Students should visit nearby pharmacy/dispensary to identify the present complementary food available according to age groups.</li> <li>Compare the composition of different companies and different age groups.</li> <li>Analyse the difference in combinations of different companies.</li> <li>Submit a report of the findings and its reflection.</li> </ol> </li> <li>Role of a teacher: Teacher evaluates student based on the survey report and team performance.</li> </ol></li></ul>
NLHP 4.3	Stanya Vriddhi, Stanya Kshaya and Stanya Pareeksha	Duration: 1 Hour Activity 1: To perform Stanya Pareeksha (30Mins) Pre-Preparation : By the Teacher:

	<ul> <li>By the Teacher:</li> <li>Introduction: Initially teacher will brief about different methods of preparation of Swarnaprashana and its administration through Handouts/videos.</li> <li>By the Student: Students are expected to study Swarnaprashana preparation in detail before coming to the class.</li> <li>Activity <ol> <li>Students are divided into groups.</li> <li>Each group is instructed to follow any one method of preparation of Swarnaprashana or a method that they adopt or practice in college or in their particular region.</li> <li>Students are instructed to prepare Swarnaprashana followed by administration of the same.</li> </ol> </li> </ul>

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 1,CO 5,CO 6	Describe age related nutritional needs of infants, children and adolescents	СК	МК	К	DIS,BL, L&PPT	INT,PRN,O- QZ	F&S	Ι	V-SW	LH
CO 1,CO 5,CO 6	Describe the method of calculating micronutrients in children	CC	NK	КН	EDU,PS M,L&P PT	T-CS,O-G AME,PRN	F	Ι	-	LH
CO 1,CO 3,CO 5	Describe the tools and methods for assessment of nutrition in children.Classify the nutritional status of infants, children and adolescents	CC	МК	K	DIS,L& PPT ,PSM	O-QZ,T-CS	F&S	Ι	-	LH
CO 1,CO	Assess and classify the nutrition status of infants, children and adolescents and recognize deviations. Assess the quality of each	AFT- RES	MK	SH	D-BED, SIM,PT	CHK,DOP S,DOPS,P-	F&S	Ι	V-SW	NLHP5.1

4,CO 5,CO 6	Dhatu and its deviations. Assess the Ayurveda attributes of Ahara in a given child. [Agni, Guna of Ahara, Satmya and Asatmya]. Educate parents and child regarding the importance of Ahara, Pathya, Apathya and other possible Ahara Gunas. Plan an appropriate diet for each child using nutritional principles and Ahara Niyamas and communicate the plan to caregivers.					CASE				
CO 3,CO 5	Analyse factors affecting Vyadhikshamatwa/ Bala and Immunity in the present era.	CAN	МК	КН	FC,DIS, BS	INT,PRN,C HK	F&S	Ι	-	NLHT5.1
CO 3,CO 5,CO 6	Enlist methods to improve Vyadhikshamatwa / Bala and Immunity including Oushadhas, Kriyakramas, Lehana, Rasayana, Prakarayoga, Samskara and Immunization	СК	МК	К	FC,SDL ,TBL	CR-W,CO M,CHK	F&S	Ι	-	NLHT5.2
CO 3,CO 4,CO 5	Counsel the parents about methods to improve Immunity in children.	AFT- RES	МК	SH	SIM,RP ,EDU	RS,CHK,P- RP	F&S	Ι	-	NLHP5.2
CO 4,CO 5,CO 6	List and explain the components, Key strategies, and highlights of the Reproductive Child Health (RCH) program. Explore Ayurveda concept, practices and scope of preconception and antenatal care aimed at ensuring the birth of a healthy child. Construct the care plan for the first 1,000 days of the child's life from conception until 2 years of age (24 months).	CAN	МК	КН	IBL,PrB L,TPW	CHK,COM, PRN	F&S	Ι	-	NLHT5.3
CO 5,CO 8	Explain the Universal Immunization Program	CC	MK	K	L&GD, ML,L_ VC	PRN,QZ ,O- GAME	F&S	Ι	-	LH
СО	Demonstrate the correct administration of different vaccines on a	PSY-	MK	SH	RP,D-	DOPS,OSC	F&S	Ι	-	NLHP5.3

4,CO 5,CO 7,CO 8	manikin. Observe the method of administration and recognize the adverse events following Immunization. Document Immunization in an Immunization record	GUD			M,PT	E,DOPS,C HK					
CO 5,CO 8	Explain the components of National Immunisation Schedule.	CC	МК	K	L&GD, L_VC,E DU	PRN,M- CHT,QZ	F&S	Ι	-	LH	

## Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity	
NLHT 5.1	Vyadhikshamatwa and Immunity I	<ul> <li>Duration: 1 hour</li> <li>Pre-Preparation: <ol> <li>The teacher informs the topic of discussion one week prior to the activity.</li> </ol> </li> <li>The student is expected to come prepared for the group discussion. <ul> <li>Key points for discussion:</li> <li>Concept of Immunity in the Pediatric Population</li> <li>Role of environmental factors, diet and regimen in Immune regulation</li> </ul> </li> <li>Class Activity <ol> <li>Students will be divided into groups (15-20 in one group)</li> <li>The facilitator will open the discussion</li> <li>Students are expected to discuss and analyze the factors affecting Vyadhikshamatwa</li> <li>Each group will present their opinions</li> <li>Consensus building; students will draw an opinion near the conclusion.</li> </ol> </li> </ul>	
NLHT 5.2	Vyadhikshamatwa and Immunity II	<ul> <li>Pre-Preparation:</li> <li>1. The teacher informs the topic of discussion 1 week before the activity.</li> <li>2. Students are expected to come prepared with the topic discussion.</li> <li>Key points for discussion:</li> <li>1. Concept of Immune modulation</li> </ul>	

		<ul> <li>2. Role of medicines and procedure-based therapies in Immune regulation</li> <li>3. Concept of Lehana, Bala Rasayana, Prakarayoga and Samskaras</li> <li>4. National Immunization Schedule - updated version</li> <li><b>Class Activity:</b> Group Discussion 1 hour</li> <li>1. Students will be divided into groups (15-20 in one group)</li> <li>2. The facilitator will open the discussion</li> <li>3. Students are expected to discuss the methods to improve Vyadhikshamatwa</li> <li><b>Presentation:</b> 1 hour</li> <li>1. Each group will present their opinions</li> <li>2. Consensus building; students will draw an opinion near the conclusion</li> <li><b>Teachers Role:</b>Student's performance will be evaluated using a checklist.</li> <li><b>Checklist</b>- Yes/No</li> <li>1. Pre-preparedness of the subject</li> <li>2. Factors modulating immunity detailed</li> <li>3. Role of Oushadha in Immune modulation detailed</li> <li>4. Role of Kriyakrama in Immune modulation detailed</li> <li>5. Role of Lehana and Rasayana in Immune modulation detailed</li> <li>6. Role of Prakarayoga in Immune modulation detailed</li> <li>7. Role of Samskara in Immune modulation detailed</li> <li>8. Active participation</li> </ul>
NLHT 5.3	RCH programmes and Perinatal care for Healthy Child	<ul> <li>Pre-preparation</li> <li>By the Teacher:</li> <li>The teacher informs the topic and group division (Min 6 to 10) 1 week before the class activity.</li> <li>By the Student: <ol> <li>Identify a Question: What factors in the Antenatal &amp; Postnatal period have an impact on a child's growth and development?</li> <li>Conduct Background Research: Explore topics such as nutrition, breastfeeding, immunization, preconception, antenatal, perinatal and post-natal care. Factors affecting Vyadhikshamatwa in children. Role of Garbhopakrama, Soothikopakrama and Balopakrama (first 1000 day care) in Immune modulation.</li> </ol> </li> </ul>

	<ul> <li>3. Formulate Hypothesis: Predict how specific factors (e.g., breastfeeding, maternal diet) might influence a child's physical and cognitive development. RCH programs and their effect on child health. Role of Garbhini, Soothika and Bala Upakrama in Immune modulation.</li> <li>4. Plan and Conduct Investigations: Interviewing healthcare professionals about the impact of Antenatal &amp; Postnatal on the child's growth and development. Surveys can also be planned in public.</li> <li>5. Analyze Data: Analyze data from surveys or interviews to understand the impacts of various factors. Class activity</li> <li>Group Discussion: 1hour</li> <li>1. Students sit in their respective groups and discuss on the assigned topic.</li> <li>Presentation: 1 hour</li> <li>1. Communicate findings: Present findings through a report/presentation emphasizing the importance of Antenatal (Garbhopakrama) &amp; Postnatal (Soothikopakrama &amp; first 1000-day child care)in shaping a child's future.</li> <li>Teachers role:</li> <li>1. Facilitate group discussion and guide students with references</li> <li>2. Evaluate student's performance based on checklist/rating scale</li> </ul>
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## Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 5.1	Nutritional Assessment in children	Duration: 3 hours
		Preparation /Pre-requisites
		By the teacher:
		1. Arrange Healthy children and malnourished cases/ simulated patient/ case vignettes in all age
		groups - infants, children and adolescents
		2. Equipment for recording anthropometry
		By the Student: Student is expected to come prepared with the knowledge of methods for assessment
		and classification of nutritional status, age-related nutritional needs of infants, children and
		adolescents, normal functions of each Dhatu, Vridhi Kshaya Lakshana, Ahara guna and Ahara niyamas
1		Activity
		Clinical Classroom

		Students are divided into 6 groups (3-8 members in one group) and sent to OPD/IPD. Each group will be assigned a healthy/ malnourished case from a specific age group. Group I – Healthy infant Group II – Malnourished infant Group IV – Malnourished child Group IV – Malnourished child Group VV – Malnourished adolescent Bedside - Case taking -1 hour 1. Rapport building 2. History taking (Details on diet and regimen) 3. Clinical examination Clinical examination Clinical classroom -2 hours 1. Discuss the assessment of nutritional status in the allotted group 2. Discuss Ahara Guna, level of Agni and other factors affecting poshana 3. Plan a diet schedule in the given case considering Ahara Niayamas 4. Presentation of the case [Each group will present the assigned case] 5. Role-play – Counsel the parent and child regarding the importance of Ahara, Pathya, Apathya and other Ahara gunas 6. Recording case in the record book. Teachers role: Teachers evaluate students' performance through a checklist/DOAP Form. Checklist-Yes/No 1. Pre-preparedness of the subject 2. Rapport building with the patient was good 3. Chronology of the case sheet maintained 4. Nutritional status assessed 5. Quality of each Dhatu assessed 6. Attributes of Ahara assessed 7. Educating parents regarding the importance of diet and regimen
NLHP 5.2	Parent Counselling on Immune modulation	<b>Duration -</b> 2 hours

		Roles and Responsibilities         1. One student will be assuming the role of parent of an Immunocompromised child         2. One student will be assuming the role of physician providing Counselling to the parent <b>Pre-preparation by the students</b> 1. The Student has to be aware of the role of Oushadha, Ahara, Vihara, Rasayana and samskara in Immunity         2. Read the references         3. Students should have empathy and good communication skills <b>Execution of Role Play:</b> Enacting the role of the parent and the physician providing Counseling after establishing good rapport <b>Feedback and Debriefing:</b> The teacher evaluates students' performance based on a checklist/rating scale and provides inputs.         The teacher summarises the points to be noted during Parental counseling. <b>Checklist- Yes/No</b> 1. Pre-preparedness of the subject         2. Role of Oushadha, Ahara, Vihara, Rasayana and Samskara in Immunity explained         3. Active participation         4. Empathetic         5. Good Communication skills         6. Ensure that parents understand the instructions
NLHP 5.3	Immunization in children	Duration - 3 hoursPreparation /Pre-requites by teacher1. Identifying children who are fit for vaccination: Provide handouts 1 week before the session2. Procure the vaccines in the NIS3. Preparation of equipment and manikin and its sizes/numbers for vaccination4. Check for the expiry of vaccination if any5. Check for colour changes of vaccines if any6. Check if cold storage is maintainedPreparation /Pre-requites by studentThe student is expected to come prepared with the knowledge of the National Immunization schedule,

	<ul> <li>different vaccines with dosage schedules, mode of administration and contraindications</li> <li>Observation (1 hour) Students are divided into groups (3-8 members in one group) and sent to vaccination centre. Each group will be given a chance to observe vaccination in children.</li> <li>1. Observe for fitness of vaccination and check for any adverse events</li> <li>Clinical classroom (2 hours)</li> <li>1. Discuss different vaccines, with dosage schedules, mode of administration and contraindications</li> <li>2. Discuss the adverse effects</li> <li>3. Presentation of the case [Each group will present one case of vaccination]</li> <li>4. Document the case in the record book.</li> <li>5. Teacher the demonstrates the administration of vaccine on a manikin. Each group will be demonstrates the entire procedure of vaccination on a manikin.</li> <li>Teachers Role: Evaluation using checklist</li> <li>Checklist- Yes/No</li> <li>1. Checks for fitness for immunization</li> </ul>
	Checklist- Yes/No
	1. Checks for fitness for immunization
	2. Choose the correct vaccines according to age
	3. Check for expiry of the vaccine.
	4. Administers vaccine on manikin efficiently.

## Topic 6 Kuposhana Rogas (Nutritional disorders) (LH :6 NLHT: 3 NLHP: 4)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO 1,CO 2,CO 3	Define Malnutrition and Classify Undernutrition according to WHO. Define Severe Acute Malnutrition (SAM) and Moderate Acute Malnutrition (MAM). Describe the etio-pathogenesis, clinical features, complication and management of Severe Acute Malnutrition (SAM) and Moderate Acute Malnutrition (MAM)	CC	МК	Κ	CD,DIS ,L&PPT	T-CS,CBA, C-VC	F&S	II	-	LH
CO 2,CO 3	Define Failure to Thrive(FTT) and describe the etiopathogenesis, clinical features and management of a child with FTT	СК	МК	K	L_VC,C D,DIS	T-CS,CBA, PM	F&S	II	-	LH

CO 2,CO 3	Define Ph Lakshana	akka Roga and explain the Nidana, Bheda, Sampra and Chikitsa of Phakka Roga.	npti,	CC	МК	К	L&GD, RLE,C D	T-CS, C- VC,PM	F&S	II	-	LH
CO 2,CO 3,CO 6	Define Ku and chikit	umara Shosha and explain nidana, samprapti, laksha tsa of Kumara Shosha	ana	CC	МК	К	L&GD, CD	CBA,T- CS,PM	F&S	II	-	LH
CO 2,CO 3,CO 6	Explain nidana, samprapti, lakshana and chikitsa of Karshya. Define Parigarbhikam and explain the nidana, samprapti, lakshana and chikitsa of Parigarbhikam		shana	CC	МК	КН	L&GD, CD,L_V C	INT,T-CS, C-VC	F&S	II	-	LH
CO 2,CO 3	Analyse F and Failu	Phakka Roga with Neuromotor disabilities, SAM, M re to thrive and plan the management	ЛАМ	CAN	МК	KH	CD,CB L,PBL	C-VC,T- CS	F&S	II	-	NLHT6.1
CO 2,CO 3	Compare and analyse Kumarashosha, Karshya and Parigarbhika with SAM, MAM and Failure to thrive		nika	CAN	MK	КН	FC,BS, BL	CHK,DEB, PRN	F&S	II	-	NLHT6.2
CO 2,CO 3,CO 6	<ul> <li>Diagnose and plan the management of a case of malnutrition and analyse the lakshana, samprapthi and management</li> <li>of Kumarashosha, Karshya and Parigarbhika</li> </ul>		and	PSY- GUD	МК	SH	CBL,PT ,RP	CHK,SP,P- CASE	F&S	II	-	NLHP6.1
CO 2,CO 3 Describe causes, diagnosis and management of Iron deficiency anemia.		су	СК	МК	К	LRI,L& PPT ,CD	PM,O- QZ,T-CS	F&S	II	-	LH	
Non Lo	ecture Ho	ur Theory										
S.No	S.No Name of Activity Description of Theory Activity											

NLHT 6.1	Concept of Phakka Roga	<ul> <li>Preparation /Pre-requisites</li> <li>By the Teacher: Assign a case vignette for each group 1 week before the activity.</li> <li>By the Student: Student is expected to come prepared with etiopathology, symptomatology and management of Phakka Roga.</li> <li>Clinical classroom discussion - 1 hour</li> <li>Groups are expected to: <ol> <li>Track the development of the child - gross, fine, language and social</li> <li>Check out for status of nutrition and classify.</li> </ol> </li> <li>Analyse the etiopathology and symptoms of the case with Neuromotor disabilities, SAM, MAM and Failure to thrive.</li> <li>Frame the Samprapti for the disease in the given case.</li> <li>Plan management and justify Samprapti.</li> </ul> Presentation - 1 hour <ol> <li>Each group will present their case and analyse Phakka Roga with Neuromotor disabilities, SAM, MAM and Failure to thrive and plan the management</li> <li>Role-play – Explain the care plan, Pathya Ahara and Vihara to the child and parent.</li> </ol>
NLHT 6.2	Kuposhana Janya Vyadhis and Nutritional Deficiency Disorders	<ul> <li>Duration - 1 hour</li> <li>Activity: Group discussion</li> <li>1. Students will be divided into groups (15-20 in one group)</li> <li>2. The facilitator will open the discussion</li> <li>3. Students expected to discuss the key points in Differential Diagnosis of Kuposhana Janya Vyadhis and compare it with Nutritional deficiency disorders</li> <li>4. Each group will present their opinions</li> <li>5. Consensus building; students will draw an opinion near the conclusion</li> <li>Teacher's Role: Facilitate group discussion and provide inputs.</li> </ul>
Non Lecture H	lour Practical	
S.No	Name of Practical	Description of Practical Activity

NLHP 6.1	Case Discussion: Malnutrition	Preparation /Pre-requisites
		By the Teacher:
		Arrange Real Case/ Simulated case/ Case Vignette
		By the Student:
		1. The student is expected to come prepared with etiopathology, symptomatology, management, and
		pathya-apathya of Malnutrition, Kumarashosha, Karshya and Parigarbhika.
		2. Growth chart, measuring tape, weight and height machine.
		Activity
		Students are divided into groups of 5-8 members and sent to OPD/IPD. Assign 2 cases to each group.
		Bedside (in real case) Case taking/ Building the case – 2 hours
		1. Rapport building
		2. History taking
		3. Clinical Examination and Anthropometric evaluation
		Clinical classroom discussion - 2 hours
		Groups are expected to:
		1. Plot the measurement on a graph and analyze the growth of the child.
		2. Classify Malnutrition according to WHO.
		3. Analyse the etiopathology and symptomatology of Malnutrition with Karshya/ Parigarbhika/
		Kumara Shosha.
		4. Frame the Samprapti for the disease in the given case.
		5. Plan management and justify Samprapti Vigatana.
		6. Each group will present their case.
		7. Role-play – Explain the care plan, Pathya Ahara and Vihara to the child and parent.
		8. Record the case in a record book.
		Teachers role: Guide students in analyzing the case and evaluate using a checklist.
		Checklist- Yes/ No
		1. Rapport building established
		2. Empathy & communication skills noticed
		3. Record the case history in detail
		4. Performs clinical examination and anthropometric screening effectively
		5. Proper utilization and recording of the Growth chart
l		

	6. Fra 7. Ma 8. Ex	ames Samp anagement plain diet a	rapti accur strategy fra nd regimen	ately. amed effeo n to the pa	ctively tient effect	ively				
Topic '	Topic 7 Balaroga Pariksha Vidhi & Chikitsa Siddhantha (Pediatric Examination and treatment principles) (LH :5 NLHT: 0 NLHP: 16)									
A3 CO 3,CO 4,CO 8	Construct a Paediatric case taking format		<b>D3</b> МК	КН	F3 W,L&G D,DIS	G3 INT,CWS	H3 F&S	13 II	K3 V-RN	L3 LH
CO 2,CO 3,CO 8	Explain Bheshaja Matra for Shodana and Shamana in children	CC	МК	K	L&PPT ,ML,DI S	T-CS,WP	F&S	II	-	LH
CO 2,CO 3	Explain different methods of drug dose determination in paediatric population	CC	МК	K	TUT,L &GD,M L	P-PS,T-CS, O-GAME	F&S	II	-	LH
CO 2,CO 3	Demonstrate calculation of different drug dosages in paediatric conditions.	PSY- MEC	МК	SH	PBL,ED U,PSM	T-CS,P- PS,CHK	F&S	II	-	NLHP7.1
CO 2,CO 3,CO 8	Explain general treatment principles in children	CC	МК	K	L&GD, TUT	DEB,WP,C R-W	F&S	II	-	LH
CO 2,CO 3	Analyse Vedana Vijnana and observe various clinical presentations	CAN	МК	КН	BS,DIS, L&GD	DEB,INT	F&S	II	-	LH

CO 2,CO 4,CO 7	Demons possible	trate examination of Dosha, Dhatu, Koshta, Agni, Prakriti, Rogamarga of each disease in Paediatric ca	ise.	PSY- MEC	МК	SH	SIM,PT, D-BED	CHK,P- CASE,SP	F&S	II	-	NLHP7.2
CO 2,CO 3	Formulate a possible Samprapti for various diseases (using Nidana, Poorvarupa, Roopa and Upashaya)			САР	МК	КН	PT,FC, CBL	CHK,T- CS,M-CHT	F&S	II	-	NLHP7.3
CO 2,CO 3,CO 6,CO 7	Perform clinical case taking including history taking, clinical examination, diagnostic workup, analysis of Samprapti Ghatakas and Chikitsa Nirnaya.		1	PSY- GUD	МК	SH	SIM,D- BED,PT	CWS ,CHK ,P-CASE	F&S	II	-	NLHP7.4
CO 2,CO 4,CO 6,CO 8	<ul> <li>Educate the caretaker on the prescription including name of the medicine, mode of administration, anupana and time of administration.</li> </ul>		the	AFT- RES	МК	SH	SIM,RP ,TBL	CHK,SP,P- RP	F&S	II	-	NLHP7.5
CO 2,CO 3,CO 6	Identify discuss	commonly used single drugs in Paediatric practice a their medicinal uses	und	СК	DK	К	FV	P-ID,QZ ,O- QZ	F	II	V-DG	NLHP7.6
Non Le	ecture H	our Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
Non Le	ecture H	our Practical										
S.No		Name of Practical	Description of Practical Activity									
NLHP 7.1 Calculation of Pediatric Drug Doses			<b>Duration -</b> 2 hours									

		Pre-Preparation         By the teacher: Arrange real case/case vignette. Provide reference or handout on overview of Posology         By the Student: The student is expected to study drug dosage schedules in different ages with different Kalpanas in specific therapeutic indications like Shamana and Shodhana         Activity         1. Students are divided in groups         2. Assigned 1 real case / Case Vignette         3. Students are expected to-         a. Record the weight of the child         b. Assess the status of Agni and Koshta         c. Calculate drug dosage in different ages/ Kalpanas / therapeutic indications         d. Record dosage, Anupama and Oushadha kala         Clinical classroom         1. Discuss the assessment of drug dose in the allotted group         2. Discuss role of age, level of Agni, other factors affecting dosage like Oushadha Kalpana and treatment indications like Shamana, Sodhana         Teacher's Role: The teacher will assess using a checklist.         Checklist - Yes/ No         1. Assess the status of Agni and Koshta effectively.         2. Calculated drug dosage in different ages, Kalpanas & therapeutic indications efficiently.         3. Stacker's Role: The teacher will assess using a checklist.         Checklist - Yes/ No         1. Assess the status of Agni and Koshta effectively.         2. Calculated drug dosage in different ages, Kalpanas & therapeutic indications efficiently.
NLHP 7.2	Application of Samprapti Gatakas in a Pediatric Case: Part I	Duration: 2 hours         Pre-preparation:         By the Teacher: Arrange the real case/Simulated case/ Case Vignette. Provide an overview of Samprapthi ghatakas         By the Student : The student is expected to know Samprapti Ghatakas         Activity         Students are divided into groups (3-8 members in one group) and sent to OPD/ IPD. Each group will be given cases for assessment

		<ul> <li>Bedside: 1 hour</li> <li>1. Rapport building</li> <li>2. Clinical examination</li> <li>3. Comment on Prakruti of child</li> <li>4. Assess the Dosha and Dhatu</li> <li>5. Assess the status of Agni, Koshta</li> <li>6. Frame Samprapti of disease and comment on Rogamarga</li> <li>Clinical classroom: 1 hour</li> <li>1. Group discussion about Vyadhi Ghatakas</li> <li>2. Justify analysis of Vyadhi Ghatakas with logical explanations and classical references</li> <li>3. Presentation of the case [Each group will present one case]</li> <li>4. Recording the case in the record book.</li> </ul>
NLHP 7.3	Application of Samprapti Gatakas in a Pediatric Case: Part II	<ul> <li>Duration: 1 hour</li> <li>Pre-preparation:</li> <li>By the Teacher: Arrange the real case/Simulated case/ Case Vignette. Provide an overview of Samprapthi Ghatakas</li> <li>By the Student : The student is expected to know Nidana Panchaka and Samprapti Ghatakas</li> <li>Activity</li> <li>Students are divided into groups (3-8 members in one group) and sent to OPD/ IPD. Each group will be given cases for assessment</li> <li>Bedside – <ol> <li>Rapport building</li> <li>Clinical examination</li> <li>Analyzing the history and clinical examination findings concerning Samprapti Ghatakas</li> <li>Frame Samprapti of disease and comment on Nidana Panchaka</li> <li>Group discussion about Nidana Panchaka and Vyadhi Ghatakas</li> <li>Justify the analysis of Vyadhi Ghatakas with logical explanations and classical references</li> <li>Discussion on Samprapti and Nidana Panchaka</li> </ol> </li> </ul>

		5. Recording the case in the record book.
NLHP 7.4	Clinical case taking	Duration - 9 hours         (One group should analyze, present and record minimum 5 cases)         Pre-preparation:         By the Teacher: Arrange and assign the real case/Simulated case/ Case Vignette.         By the Student: Student is expected to have knowledge about clinical case taking and Samprapti ghatakas.         Activity         Students are divided into groups (3-8 members in one group) and sent to OPD/ IPD. Each group will be assigned cases for analysis         Bedside         1. Rapport building         2. History taking         3. Clinical examination         4. Analyse evidence from history and clinical examination findings in respect to Samprapti Ghatakas         5. Frame Samprapti of disease and comment on Nidana Panchaka         Clinical classroom         1. Group discussion about Vyadhi Ghatakas         2. Justify the analysis of Vyadhi Ghatakas         3. Discussion on Samprapti and Nidana Panchaka         4. Perform the diagnostic workup with investigations and differential diagnosis         5. Frame a management protocol for the disease (Teacher will provide a prescription with logical explanations)         6. Discuss the Upasaya and Anupasaya of the given treatment.         7. Presentation of the case [Each group will present a Minimum of 5 cases]         8. Record the case in a record book.
NLHP 7.5	Conseling regarding patient care	<b>Duration</b> - 1 hour Purpose – Sensitise parents regarding the administration of medicine.

		Pre -Preparation         By the Teacher: Arrange prescriptions of common diseases.         By the Student: Students should have the knowledge about the common medications, pediatric posology, Anupana, Oushadhakala and mode of administration.         Activity:         Students are assigned prescriptions and are expected to role-play randomly.         Roles and Responsibilities         1. One student will be assuming the role of parent         2. One student will assume the role of Kaumarabhritagyna, educating to the parent on the administration of medicine.         3. Execution of Role Play         Teacher role: Feedback and Debriefing         Summarise the points to be noted during Parental education on the administration of medicine.
NLHP 7.6	Pediatric Ethobotonical Survey of Herbal Garden	<ul> <li>Duration - 1 hour</li> <li>Pre-Preparation:</li> <li>By the Teacher: Identify common single drugs that can be used in Paediatric practice in Herbal garden and plan the visit.</li> <li>By the student: The student is expected to know about commonly used single drugs in Paediatric Practice Activity</li> <li>Herbal garden: 40 mins</li> <li>1. Teachers introduce the single drugs that can be used in Paediatric practice in Herbal garden</li> <li>2. Students are divided into groups (3-8 members in one group) and sent to the Herbal garden. Each group will be given a drug for a detailed study</li> <li>3. Plant identification with morphological features</li> <li>4. Identify the medicinal part of the plant</li> <li>5. Rasa, Guna, Veerya, Vipaka, Prabhava and Amayika Prayoga</li> <li>Clinical classroom: 20 mins</li> <li>1. Discuss the Pharmacodynamics</li> <li>2. Group discussion about different uses of the drug, dose and Anupama</li> <li>3. Justify with classical references if any</li> </ul>

Topic	8 Kulaja and Sahaja Rogas (Cenetic and Congenital Disord	ers) (LH	•5 NI H'	· 2 NI H	P· 5)					
A3	B3	C3	D3	E3	<b>F</b> 3	G3	НЗ	I3	K3	L3
CO 2,CO 3	Describe the clinical presentations of Cleft Palate, Cleft Lip and Tracheo-Esophageal Fistula.	СК	DK	K	TUT,L &PPT	QZ ,P-ID, C-VC	F&S	II	-	LH
CO 2,CO 3	Describe the clinical presentations of Spinal Dysraphism and Congenital Talipes Equinovarus.	СК	DK	K	L_VC,L &PPT	O-QZ, C- VC	F&S	II	-	LH
CO 2,CO 3	Describe the clinical presentations of Congenital Hypertrophic Pyloric Stenosis and Congenital Anomalies of Anus.	СК	DK	К	TUT,L &PPT ,L_VC	P-ID,O- GAME, C- VC	F&S	II	-	LH
CO 2,CO 3	Describe the clinical presentations of Congenital Heart Disease.	СК	DK	К	L&PPT ,L_VC, LRI	O-QZ,P-ID, C-VC	F&S	II	-	LH
CO 2,CO 3,CO 6,CO 8	Analyse the scope of Kriyakrama (Procedure based therapies) and Oushadhas in Sahaja Vyadhis	CAN	DK	К	CBL,FC ,EDU	PRN,CHK, CBA	F&S	II	-	NLHT8.1
CO 2,CO 3,CO 8	Recognise the indications of surgical intervention and referral criteria in different Congenital and Chromosomal disorders.	CAN	DK	КН	CBL,DI S,FC	CBA,SBA, CHK	F&S	Π	-	NLHT8.2
СО	Identify the Chromosomal abnormality, clinical features,	CAN	MK	КН	FC,LRI,	P-CASE, C-	F&S	II	-	NLHP8.1

2,CO 3,CO 8	diagnosis, risk factors and and plan the management in a case of Turner syndrome		ase of				CBL	VC,CHK				
CO 2,CO 3,CO 8	<ul> <li>Identify the Chromosomal Abnormality, clinical features,</li> <li>diagnosis, risk factors and plan the management in a case of</li> <li>Down syndrome. Interpret normal Karyotype and recognize</li> <li>Trisomy 21</li> </ul>		CAN	МК	КН	LRI,FC, CBL	C-VC,CH K,P-CASE	F&S	Π	-	NLHP8.2	
COAnalyze the role of preconception care (ideal Ritu, Kshetra,2,COAmbu and Beeja) in preventing congenital diseases.3,COEducate the caregivers about the scope of Ayurveda in the4,COprevention of congenital anomalies through preconception care.			AFT- RES	DK	SH	BS,RP, FC	CHK,P- RP,CR-W	F&S	П	-	NLHP8.3	
CO 2,CO 3,CO 6	COExplain Muscular Dystrophies and enlist prevalent Muscular2,CODystrophies. Describe the etiopathogenesis, clinical features and management of Duchenne Muscular dystrophy (DMD). Derive complementary and alternative treatment protocol to DMD.		САР	МК	K	TUT,DI S,L&PP T	T-CS, C- VC	F&S	II	-	LH	
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT 8	3.1	Procedure based therapies and Oushadhas in Sahaja Vyadhis	Duration - 1 hour         Pre-preparation         By the teacher: Arrange the problem /case to be solved & provide an overview of the Ayurveda perspective on Sahaja Vyadhis and procedure-based therapies through handouts or PPT.         By the Student: Student is expected to study Sahaja Vyadhis, general treatment guidelines and a therapeutic indication of Kriyakrama (Procedure based therapies)         Activity         1. Students are divided in groups and assigned a case vignette to each group         2. Students gather in groups and are expected to –         A. Note clinical features of Sahaja Vyadhis and interpret the Dosha, Dhathu and analyse the Samprapti									

		<ul> <li>B. Plan management strategy and suitable procedure-based therapies</li> <li>C. Discuss the management plan with the selection of medicines</li> <li>D. Discuss the Samprapti Ghatakas of the specific Sahaja Vyadhi</li> <li>E. Discuss specific stages of the disease and change in the selection of Kriyakrama and analyze the Samprapti Vighatana</li> </ul>
NLHT 8.2	Surgical intervention and referral criteria of Congenital and Chromosomal disorders	Duration - 1 hour         Pre-preparation         By the teacher: The teacher introduces the students to the problem /case to be solved & provides an overview of the scope of surgical intervention in Sahaja Vyadhis one week before the activity. Divide the students in group and assign one case to each group.         By the Student: Student is expected to study Sahaja Vyadhis and management strategy.         Activity         1. Students gather in group         2. Students are expected to discuss-         A. Note clinical features and clinical examination findings of given Sahaja Vyadhis         B. Screen for any emergency situations if any         C. Screen for the scope of surgical intervention in the given case.         D. Discuss the referral criteria in the case         E. Counsel the parent for referral and give a proper Referral card         F. Present the findings to the class.
Non Lecture	e Hour Practical	

S.No	Name of Practical	Description of Practical Activity
NLHP 8.1	Turner syndrome	<ul> <li>Duration - 1 hour</li> <li>Pre-preparation</li> <li>By the teacher: Provide an overview of Turner syndrome and its Ayurveda perspective through handouts/PPT/Pre-recorded Video.</li> <li>By the student: Student is expected to study Turner syndrome and analyse the Samprapti Ghatakas of</li> </ul>

		the disease Activity 1. Students are divided in groups 2. Provide 1 real case/ simulated case/ case vignette/ case video to each group 3. Students are expected – A. Perform/record clinical examination of given Turner syndrome case (Bedside if real case) B. Analyze the Samprapti Ghatakas C. Discuss the Karyotype report D. Discuss the management protocol considering the Samprapti Ghatakas E. Enlist the risk factors and complications
NLHP 8.2	Down syndrome	<ul> <li>Duration - 3 hours</li> <li>Objective: <ol> <li>Discuss the genetic composition and clinical features of Down syndrome</li> <li>Frame diagnostic workout including Karyotyping</li> <li>Frame management protocol</li> <li>Enlist the risk factors and complications</li> </ol> </li> <li>Pre-preparation By the teacher: <ol> <li>Provide an overview of Down syndrome and its Ayurveda perspective through handouts/PPT/Pre-recorded Video.</li> <li>Divide the students in group and assign one real case/case vignette (Different presentation of down syndrome to each group) By the Student: The student is expected to study Down syndrome and analyze the Samprapti Ghatakas of the disease Bedside (in real case) 1 hour <ol> <li>Students are expected to-</li> <li>Take the history</li> <li>Perform/record clinical examination</li> <li>Check for any associated diseases</li> </ol> </li> </ol></li></ul>

		<ul> <li>D. Check whether antenatal screening was done</li> <li>E. Check for etiology and predisposing factors</li> <li>F. Collect the Karyotype report</li> <li>G. Enlist the risk factors and complications</li> <li>Clinical classroom discussion and presentation - 2 hours</li> <li>Each group will be allotted a specific topic for discussion and will be given 10 minutes to present their findings <ol> <li>Discuss the clinical features and examination findings of given Down syndrome</li> <li>Discuss the etiology and predisposing factors</li> <li>Discuss the antenatal screening measures</li> <li>Discuss the common associations</li> <li>Discuss the diagnostic workup</li> <li>Discuss the Samprapti Ghatakas and frame management strategy</li> <li>Analyze the risk factors</li> <li>Conclusion and summarise the disease by the teacher.</li> </ol> </li> <li>Teacher Role: Facilitate group discussion and guide on interpretation of investigation reports.</li> </ul>
NLHP 8.3	Prevention of Congenital anomalies	<ul> <li>Duration - 1 hour</li> <li>Pre-preparation</li> <li>By the Teacher: <ol> <li>Divide the students in 2 groups and assign the activity 1 week prior.</li> <li>Pre-validation of role play.</li> </ol> </li> <li>Roles and Responsibilities <ol> <li>One student will be assuming the role of parent</li> <li>One student will assume the role of Kaumarabhritagyna educating the caregiver.</li> </ol> </li> <li>By the Student: <ol> <li>The student has to be aware of the details of preconception care for the prevention of Congenital anomalies</li> <li>Analyze the role of preconception care (ideal Ritu, Kshetra, Ambu and Beeja) in preventing congenital diseases.</li> </ol> </li> </ul>

Торіс	9. Graba Bogas and Aupasargika Bogas (Infectious Diseases). (I. H.: 7 NI HT: 4 NI HP: 3)							eeja) in providing care (ideal		
A3	B3	C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO 2,CO 3	Explain Lakshana(clinical features) and Chikitsa(management) o Rohini(Diphtheria), Masurika(Chicken pox), Romantika(Measles).	f CC	МК	К	LRI,L& PPT ,CD	T-CS, C- VC,WP	F&S	II	-	LH
CO 2,CO 3	Explain Lakshana(clinical features) and Chikitsa(management) o Karnamoola Shotha(Mumps), Hand foot Mouth Disease(Masurika).	f CC	МК	K	CD,LRI ,L&PPT	QZ , C- VC,T-CS	F&S	II	-	LH
CO 2,CO 3	Describe etiopathogenesis, clinical features, complications and management(Chikitsa) of Malaria, Hepatitis and Dengue.	СК	МК	К	LRI,L& GD,CD	T-CS, C- VC,O-QZ	F&S	Π	-	LH
CO 2,CO 3	Describe etiopathogenesis, clinical features, complications and management(Chikitsa) of Whooping cough and Tuberculosis.		MK	К	X-Ray, L&GD, CD	INT,T-CS	F&S	Π	-	LH
CO 3,CO 6,CO 8	Discuss the management(Chikitsa) of tuberculosis with the caregivers.	AFT- RES	МК	SH	TBL,RP	CHK,RS	F&S	II	-	NLHT9.1

CO 2,CO 3	Describe pathogenesis, clinical features, diagnosis and management(Chikitsa) of Tetanus and Meningitis.	СК	MK	К	L&PPT ,LRI	INT, C- VC,PM	F&S	II	-	LH
CO 2,CO 3	Discuss concept of Graha Roga in context of infectious diseases. Describe Samanyalakshana Purvarupa and Bheda of Graharogas.	САР	DK	КН	TBL,DI S,PER	INT,CHK, RS	F&S	II	-	NLHT9.2
CO 3,CO 6	Analyze the concept and management of Jwara with respect to different types of fever. Identify Dosha and Dushya involved in different types of fevers. Enlist Oushadha Yogas indicated in Jwara. Enlist the ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition specific) Yogas used in Jwara Chikitsa.	CAN	МК	КН	FC,DIS, TBL	RS,CL- PR,CHK	F&S	II	-	NLHT9.3
CO 2,CO 3	Explain Nidana, Lakshana, Samprapti, Bheda and Chikitsa of different types of Krimi.	CC	МК	K	TUT,L &GD,C D	WP,T-CS	F&S	II	-	LH
CO 2,CO 3	Describe etiopathogenesis, clinical features, complications and management of helminthic infestations in children.	СК	МК	K	L&PPT ,CD	T-CS,PUZ	F&S	II	-	LH
CO 2,CO 3	Enlist Oushadha yogas used for Krimi Chikitsa. Enlist ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition specific) Yogas used in Krimi Chikitsa and analyze its Samprapti Vighatana.	CC	МК	К	TBL,CB L,FC	CL-PR,RS, CHK	F	II	-	NLHT9.4
CO 2,CO 3,CO 4	Examine a case of Aupasargika Jwara(Fever of Infectious origin) and Krimi Roga. Analyze Nidanpanchaka, Management(Chikitsa) & Samprapti Vighatana of Aupasargika Jwara's.	PSY- GUD	МК	SH	LRI,D- BED,C BL	P-CASE,C HK,CWS	F&S	II	-	NLHP9.1

CO 6,CO 8	<ul> <li>Perceive two Kriyakrama(Procedure based therapy) used in the</li> <li>management of Jwara. Perceive two Kriyakrama used in the</li> <li>management of Krimi. Plan Ahara and Vihara for different types</li> <li>of Jwara. Plan Ahara and Vihara for different types of Krimi.</li> </ul>		PSY- SET	МК	KH	D-M,D	CHK,INT	F&S	II	-	NLHP9.2		
Non Lecture Hour Theory							-			-	-		
S.No	Name of Activity De			Description of Theory Activity									
NLHT 9	9.1	Management(Chikitsa) of tuberculosis in children.	Durat Pre-p By the 1. Div A. Gro Enlist that m B. Gro Post A C. Gro Center 2. Pro 3. Val By the 1. Stue directe 2. Rol Activi 1. Stue 2. Pres 3. Rol Role of the dis	tion: 1 Ho reparation e Teacher riding the coup oup 1: Con the completion ay happen oup 2: Alte AKT Mana oup 3: List r) through vide refere idate the r e Students dents are coup ed by the t le play gro ity: dents discussentation coup e play by go of Teacher sease.	ur n: class into 3 nplementa ications of in tubercu ernative ma- gement, Pa- gement, Pa- the criteri role-play. ences for pr- ole-play sc expected to eacher. up is expec- us with the of the assig group 3 -10 r: Facilitat	groups an ry manage tuberculo ilosis and e anagement athya-Apar a for refern reparation ript. prepare the cted to write e groups as ned topic lo 0 mins e group dis	nd assigning ment appro- sis in the a enlist the p approach thya and R ral and the ne topic for te the scrip ssigned -10 by the grou	g the topic to e pach in tubercu natomy & phy ossible Ayurve in tuberculosis asayana (Adju importance of presentation. • presentation. • t and validate ) mins • p leader -20 n	each group ilosis siology of eda manag vant appro case regist Gather infe before the nins the key poi	one we lungs a ement. bach) tration of ormatic activity	eek prior to and Side ef (District T on using rea 7.	o the activity. fects of AKT uberculosis sources as	

NLHT 9.2	Concept of Graha Roga in context of infectious diseases.	<ul> <li>Duration: 1 Hour</li> <li>Pre-Preparation:</li> <li>By the Teacher: <ol> <li>Dividing the class into groups and assigning one Graha to each group one week prior to the activity.</li> <li>Guide the students about references and guidelines for comparison with one example.</li> <li>By the Student: <ol> <li>Students are expected to study literature regarding Graha Roga and Samanya Lakshana Purvarupa and Bheda of Graharoga.</li> <li>Comparison of different Graha Rogas with infectious and noninfectious diseases prior to class.</li> </ol> </li> <li>Activity: <ol> <li>Students discuss in groups -10 mins</li> <li>Presentation of each Graha Roga and related infectious and noninfectious diseases by group leader – 45 mins</li> <li>Compilate the discussion of all the groups.</li> </ol> </li> </ol></li></ul>
NLHT 9.3	Management of different type of Jwara.	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation</li> <li>By the Teacher:</li> <li>Dividing the class into groups and assigning each group with one type of Jwara one week prior to class activity.</li> <li>By the Student: <ol> <li>Students are expected to study the type of Jwara assigned to them. Compare with different types of fever</li> <li>Identify Dosha and Dushya involved.</li> <li>Enlist Oushadha Yogas indicated in Jwara.</li> <li>Enlist the ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition specific) Yogas used in Jwara Chikitsa.</li> <li>Understand the Samprapti Vighatana</li> </ol> </li> <li>Class Activity <ol> <li>Students discuss with the groups assigned -10 mins</li> <li>Presentation of assigned topic by the group leader -40 mins</li> </ol> </li> </ul>
		<ul> <li>3. Open discussion between group and feedback</li> <li>4. Compile discussion of all the group.</li> <li>Role of the Teacher: Evaluate the students using checklist/rating scale.</li> <li>Checklist: Yes/No</li> <li>1. Pre-preparedness on the topic</li> <li>2. Proper use of recourses provided</li> <li>3. Discuss and Compare Jwara type with different types of fever.</li> <li>4. Identify Dosha and Dushya involved in Jwara.</li> <li>5. Enlist Oushadha Yogas indicated in Jwara</li> <li>6. Enlist the ingredients and indications of Samanya and Vishesha Oushadha Yogas use in regional practice</li> <li>7. Discuss the Oushadha Yogas and Justify Samprapti Vighatana</li> <li>8. Shows active collaboration in group and justifies the queries raised</li> </ul>
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NLHT 9.4	Oushadha yogas used for Krimi Chikitsa.	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation</li> <li>By the Teacher: <ol> <li>Preparation of Case Vignette (Different type/presentation of Krimi)</li> <li>Divide the Class into groups (Min 5 to Max 8).</li> <li>Assign one/two case to each group one week prior to the class activity.</li> </ol> </li> <li>By the Student: <ol> <li>Study the Krimi Roga and its Chikitsa in detail.</li> <li>Analyse the case assigned</li> </ol> </li> <li>Class Activity: <ol> <li>Students discuss with the groups assigned -10 mins</li> <li>Presentation of case by the group leader - 40 mins</li> <li>Analyze the case assigned</li> </ol> </li> <li>Bignose the case <ol> <li>Enlist Oushadha yogas used for Krimi Chikitsa.</li> <li>Enlist ingredients and indications of at least two Samanya Oushadha Yoga and Vishesha Yogas used in Krimi Chikitsa and its role in Samprapti Vighatana.</li> </ol> </li> </ul>

		5. Open discussion between group and summarize the key points by the teacher.
Non Lectur	e Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 9.1	Case Discussion: Auspasagika Jwara and Krimi Roga	Duration: 2 Hours         Preparation /Pre-Requisites         By the teacher:         1. Scheduling the case taking and arranging the case (Real Patient / simulated patient/ Case Vignette)         2. Preparing the checklist for evaluation         By the student:         1. Student is expected to come prepared with the content of Nidana Panchaka and Chikitsa of Aupasargika Jwara and Krimi Roga         2. Rapport building, proper history taking, thorough examination, appropriate Investigation         3. Present their views in clinical classroom discussion         Activity         In the clinical classroom:Students are divided in groups (5-8 members in one group) and sent to OPD/IPD for Bedside - Case taking         Bedside: Case taking as per the format(Real case)         1. Building rapport with patient         2. History taking         3. Clinical examination         In the clinical classroom:         1. Students discuss the Nidana Panchaka in the allotted group, differential diagnosis, plan investigations if needed & identify the Samprapti Ghatakas         2. Plan the management and justify the Samprapti Vighatana         3. Presentation of the case [Each group will present one disease or any sub-point of the case]         Role-Play         1. Explain the care plan, Ahara Vihara & prognosis to parent.         2. Recording the case in record book.         Role of the Teacher: Teacher evaluates student's performance base

		<ul> <li>Checklist: Yes/No</li> <li>1. Pre-preparedness of the topic</li> <li>2. Rapport building established</li> <li>3. Explain the history and symptoms of Aupasargika Jwara in sequence.</li> <li>4. Explain the history and symptoms of Krimi Rogas in sequence.</li> <li>5. Local and systemic clinical examination performed.</li> <li>6. Explain the examination findings accurately.</li> <li>7. Explain Nidana Panchaka and identify the Dosha-Dushya.</li> <li>8. Plan Investigations and finalize the diagnosis.</li> <li>9. Plan the management and Justify Samprapti Vighatana.</li> <li>10. Explain the care plan and Ahara Vihara to the parent.</li> <li>11. Explain the prognosis to the parent.</li> <li>12. Showed active collaboration in group and justifies the queries raised.</li> </ul>
NLHP 9.2	Pathya and Kriyakrama used in Jwara and Krimi.	<ul> <li>Duration: 1 Hour</li> <li>Activity 1: 40 minutes</li> <li>Perceive two Kriyakrama used in the management of Jwara.</li> <li>Perceive two Kriyakrama used in the management of Krimi.</li> <li>Pre-preparation:</li> <li>By the Teacher: <ol> <li>Identify the Kriyakrama (Procedure based therapy) used in Jwara</li> <li>Identify the Kriyakrama (Procedure based therapy) used in Krimi</li> <li>Scheduling the demonstration and arranging the patient.</li> <li>By the Student:</li> </ol> </li> <li>Students are expected to study the Jwara and Krimi and its management in detail prior to the Activity.</li> <li>Activity: <ol> <li>Teacher/therapist demonstrate the kriyakrama on the patient.</li> <li>Students are expected to observe –</li> <li>Pre-procedure specific to procedure (like Handwashing, Wearing Cap/gloves/mask if needed, Collecting the ingredients and equipment's, preparation of medicine, getting the consent, fitness certificate if required, counselling the patient and caretaker)</li> </ol> </li> </ul>

<ul> <li>B. Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>C. Post procedure specific to procedure and explaining the Do's and Don't to follow.</li> <li>3. Assignment: Write the mode of action/Samprapti Vigatana of the procedure)</li> <li>Activity 2: - 20 mins</li> <li>Plan Ahara and Vihara for different types of Jwara.</li> <li>Plan Ahara and Vihara for different types of Krimi.</li> <li>Pre-preparation:</li> <li>By the teacher:</li> <li>1. Dividing the class into 2 groups and assigning disease to each group one week prior to the class.</li> <li>2. Guiding the students to prepare the Ahara and Vihara chart of the particular disease assigned.</li> <li>By the student:</li> <li>Students are expected to study the disease in detail and prepare the Ahara Vihara chart based on the guidelines given by the teacher.</li> <li>Activity:</li> <li>1. Each group present their Ahara and Vihara chart of the particular disease assigned.</li> <li>2. Peer discussion on the chart.</li> </ul>	ı. ne
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# Topic 10 Swasana Rogas [Disorders of Respiratory system] (LH :5 NLHT: 4 NLHP: 6)

A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO 2,CO 3	Describe possible etiology, clinical features, diagnosis and management of Recurrent Upper Respiratory Tract Infections i) Common Cold	СК	MK	K	L&PPT ,CD	PM,CBA,T- CS	F&S	II	-	LH
CO 2,CO 3	Describe the etiology, clinical features, diagnosis and management of Recurrent Upper Respiratory Infection ii) Tonsillitis. Describe the etiology, clinical features, diagnosis and management of Recurrent Upper Respiratory Infection iii) Pharyngitis	СК	МК	K	CD,L& PPT	PM,T-CS, C-VC	F&S	П	-	LH
СО	Describe the etiology, clinical features, diagnosis and	СК	МК	K	X-Ray,	PM,T-CS	F&S	II	-	LH

2,CO 3	management of Recurrent Upper Respiratory Infection iv) Adenoid Hypertrophy.				L&PPT ,CD					
CO 2,CO 3	Describe the etiology, clinical features, diagnosis and management of Pneumonia.	СК	MK	K	X-Ray, CD,L& PPT	C-VC,PM, T-CS	F&S	II	-	LH
CO 2,CO 3	Describe the etiology, clinical features, diagnosis and management of Bronchial Asthma.	СК	MK	Κ	X-Ray, L&PPT ,CD	C-VC,PM, INT	F&S	II	-	LH
CO 2,CO 3	Enlist Oushadha yogas used for Pratishaya, Kasa, Shwasa. Enlist the ingredients and indications of atleast two Samanya Oushadha Yogas and two Vishesha (condition specific) Yogas used in Pratishaya, Kasa, Shwasa Chikitsa and analyze its Samprapti Vighatana.	CAN	МК	КН	TBL,FC ,DIS	CHK,INT, QZ	F	II	-	NLHT10.1
CO 4,CO 6,CO 8	Plan and explain Ahara and Vihara for Pratishaya, Kasa, Shwasa.	AFT- RES	МК	SH	RP,PER	CHK,P- RP,RS	F&S	II	-	NLHT10.2
CO 2,CO 3,CO 7	Perform otoscopic examination of ear. Perform throat examination in the case of Adenoid Hypertropy, Pharyngitis or Tonsillitis.	PSY- GUD	МК	SH	L_VC, W,KL, D	C-VC,DOP S,CHK,DO PS	F&S	II	H-SHL	NLHP10.1
CO 2,CO 3,CO 4	Demonstate examination, diagnosis and plan Chikitsa for a case of Pratishyaya.	PSY- GUD	МК	SH	RP,D-B ED,CB L	P-CASE,R S,CHK	F&S	II	-	NLHP10.2
CO 2,CO	Demonstate examination, diagnosis and plan Chikitsa for a case of Kasa. Identify the referral criteria for Kasa Roga.	PSY- GUD	МК	SH	D-BED, RP,CBL	CHK,CWS ,P-CASE	F&S	II	-	NLHP10.3

3,CO 4													
CO 2,CO 3,CO 4	CO 2,CO 3,CO 4 Demonstrate examination, diagnosis and plan the Chikitsa for case of Shwasa. Identify the referral criteria for Shwasa Roga.		or a a.	PSY- GUD	МК	SH	CD,D-B ED,CB L	Mini-CEX, P- CASE,CH K	F&S	II	-	NLHP10.4	
<ul> <li>CO Perceive two Kriyakrama used in the management of</li> <li>7,CO Pratishaya, Kasa &amp; Shwasa. Analyse Samprapti Vighatana in</li> <li>8 Pratishaya, Kasa &amp; Shwasa</li> </ul>		n	PSY- SET	МК	KH	D-BED, D-M	CHK,INT, QZ	F&S	II	Н-РК	NLHP10.5		
Non Le	cture H	our Theory											
S.No		Name of Activity	Descr	iption of	Theory A	Activity							
NLHT 1	0.1	Oushadha Yoga in Pratishaya, Kasa, Shwasa	Description of Theory Activity           Pre-Preparation: By the Teacher:           1. The teacher will give an overview of the formulations used in Pratishaya, Kasa, Shwasa along w their rationale.           2. Select any two relevant formulations used in Pratishaya, Kasa, Shwasa, which are referenced in Ayurveda Classical Texts and are frequently used by practitioners of the respective state/ region.           By the Student: Students are expected to come with knowledge of the management of Pratishaya, Kasa, Shwasa.           Activity: 1 Hour           1. Discuss the list of formulations used in Pratishaya and highlight the two relevant formulations use in Pratishaya.           2. Explain the formulation           3. Discuss the conceptual meaning and interpretation.           4. Divide the students in group           5. Analyze the Samprapti Vighatana in group.           6. Encourage questions and discussion in group.							a along with enced in region. atishaya, lations used			

		<ol> <li>Discuss the list of formulations used in Kasa, Shwasa, and highlight the two relevant formulations used in Kasa and Shwasa.</li> <li>Explain the formulation</li> <li>Discuss the conceptual meaning and interpretation.</li> <li>Divide the students in group</li> <li>Analyze the Samprapti Vighatana in group</li> </ol>
		<ul><li>6. Encourage questions and discussion in group.</li></ul>
NLHT 10.2	Ahara and Vihara for Pratishaya, Kasa, Shwasa	<ul> <li>Pre-preparation: By the Teacher:</li> <li>1. Divide the class into 3 groups</li> <li>2. Assign 1 disease to each group (eg Pratishaya, Kasa, Shwasa)</li> <li>3. Provide guidelines to prepare the Ahara Vihara Chart, role play and highlight the important component of communication.</li> <li>4. Validate the Role Play script prepared by the student Prior to the activity.</li> <li>5. Ensure the language is simple and easy to understand by the local people.</li> <li>By the Student:</li> <li>1. Students is expected to understand the disease, Ahara Vihara which is indicated for the particular disease assigned to them.</li> <li>2. Student is expected to prepare the Ahara Vihara chart and the script of the role and get it validated by the teacher prior to the activity</li> <li>Activity: Group discussion 1 hour</li> <li>1. Students assemble in groups assigned.</li> <li>2. Group leader present the Ahara Vihara Chart in different types of Pratishaya, Kasa and Shwasa.</li> <li>Activity: Role play 1 hour</li> <li>1. Each group executes the role play</li> <li>Role of a Teacher: Teacher evaluates students' performance based on a checklist/rating scale.</li> <li>Checklist:</li> <li>1. Clear explanation of the chart</li> <li>2. Plans the Diet Chart effectively.</li> <li>3. List of activities that can be performed</li> </ul>

		<ul> <li>4. Mentions Satvavajaya Chikista if needed</li> <li>5. Yoga/Pranayama (Demonstration and explanation)</li> <li>6. Any internal medications (Explain the importance, dose, route and frequency)</li> <li>7. Demonstrates empathy and understanding of the patient's emotional state</li> <li>8. Actively engage the patient, allowing for questions and checking if the caretaker/patient understood.</li> <li>9. Maintains appropriate eye contact throughout the interaction/presentation</li> </ul>
		10. Maintains professionalism throughout the interaction/presentation.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 10.1	Examination of Ear and Throat	<ul> <li>Duration - 1 Hour</li> <li>Pre-Preparation</li> <li>By the Teacher: <ol> <li>Keeping the examination video ready</li> <li>Keeping the Otoscope and other tools required for throat examination ready</li> <li>Dividing the class into groups</li> <li>Arranging the real cases/clinical video cases and assigning them to each group.</li> <li>By the student: Studying the ENT examination before the session</li> </ol> </li> <li>Activity <ol> <li>Teacher displays the video of Otoscopic and throat examination</li> <li>Special precautions and handling the child shall be explained by the teacher.</li> <li>Teacher explains the interpretation of examination finding in different diseases</li> <li>Students gather in the groups assigned</li> <li>Examine the assigned patient/ interpret the examination finding in the given video cases</li> </ol> </li> </ul>
NLHP 10.2	Case Discussion: Pratishyaya.	Duration: 1 Hour         Preparation /Pre-Requisites         By the Teacher: Scheduling the case taking and arranging different type of Partishaya case (Real

		<ul> <li>Patient / simulated patient/ Case Vignette)</li> <li>By the student: <ol> <li>Student is expected to come prepared with the content of Nidana Panchaka and Chikitsa of Pratishyaya</li> <li>Rapport building, proper history taking, thorough examination, appropriate Investigation</li> </ol> </li> <li>ACTIVITY Clinical classroom: Students are divided in groups (5-8 members in one group) and sent to OPD/IPD for Bedside - Case taking Bedside: Case taking as per the format <ol> <li>Building rapport with patient</li> <li>History taking</li> <li>Clinical examination</li> </ol> In clinical classroom: <ol> <li>Students discuss the Nidana Panchaka in the allotted group, differential diagnosis, plan investigations if needed &amp; identify the Samprapti Ghatakas</li> <li>Plan the management and justify the Samprapti Vighatana</li> <li>Presentation of the case [Each group will present any one sub point of the case] <ol> <li>ROLE-PLAY – Explain the care plan, Ahara vihara &amp; prognosis to parent.</li> <li>Recording the case in record book.</li> </ol> </li> </ol></li></ul>
NLHP 10.3	Case Discussion: Kasa.	<ul> <li>Duration: 1 Hour</li> <li>Preparation /Pre-Requisites</li> <li>By the teacher: Scheduling the case taking and arranging different types of Kasa Case (Real Patient / simulated patient/ Case Vignette)</li> <li>By the student: <ol> <li>Student is expected to come prepared with the content of Nidana Panchaka and Chikitsa of Kasa</li> <li>Rapport building, proper history taking, thorough examination, appropriate Investigation</li> <li>ACTIVITY</li> </ol> </li> <li>In clinical classroom: Students are divided in groups (5-8 members in one group) and sent to OPD/IPD for Bedside - Case taking</li> <li>Bedside: Case taking as per the format</li> </ul>

		<ol> <li>Building rapport with patient</li> <li>History taking</li> <li>Clinical examination</li> <li>In clinical classroom:         <ol> <li>Students discuss the Nidana Panchaka in the allotted group, differential diagnosis, plan investigations if needed &amp; identify the Samprapti Ghatakas</li> <li>Plan the management and justify the Samprapti Vighatana</li> <li>Presentation of the case [Each group will present any one sub point of the case]</li> <li>Identify the referral criteria for Kasa Roga.</li> <li>ROLE-PLAY – Explain the care plan, Ahara vihara &amp; prognosis to parent.</li> </ol> </li> </ol>
NLHP 10.4	Case Discussion: Shwasa.	Duration: 1 Hour         Preparation /Pre-Requisites         By the teacher: Scheduling the case taking and arranging different types of Shawsa Case (Real Patient / simulated patient/ Case Vignette)         By the student:         1. Student is expected to come prepared with the content of Nidana Panchaka and Chikitsa of Shwasa         2. Rapport building, proper history taking, thorough examination, appropriate Investigation         ACTIVITY         In clinical classroom: Students are divided in groups (5-8 members in one group) and sent to         OPD/IPD for Bedside - Case taking         Bedside: Case taking as per the format         1. Building rapport with patient         2. History taking         3. Clinical examination         In clinical classroom:         1. Students discuss the Nidana Panchaka in the allotted group, differential diagnosis, plan investigations if needed & identify the Samprapti Ghatakas         2. Plan the management and justify the Samprapti Vighatana         3. Presentation of the case [Each group will present any one sub point of the case]

		4. Iden 5. ROI 6. Rece	<ul> <li>4. Identify the referral criteria for Shawsa Roga.</li> <li>5. ROLE-PLAY – Explain the care plan, Ahara vihara &amp; prognosis to parent.</li> <li>6. Recording the case in record book.</li> </ul>								
NLHP 1	10.5 Kriyakrama used in management of Pratishaya,Kasa & Shwasa	Durati Pre-pr By the 1. Iden 2. Sche By the manag Activit 1. Tead 2. Stud A. Pre- Collec certific B. Proo C. Pos 3. Assi 4. Rece	Duration: 2 Hour         Pre-preparation:         By the Teacher:         1. Identify the Kriyakrama (Procedure based therapy) used in Pratishaya,Kasa and Shwasa         2. Scheduling the demonstration and arranging the patient.         By the Student: Students are expected to study the concept of Pratishaya,Kasa & Shwasa and its management in detail prior to the Activity.         Activity:         1. Teacher/therapist demonstrates the kriyakrama on the patient.         2. Students are expected to observe –         A. Pre-procedure specific to the procedure (like Handwashing, Wearing Cap/gloves/mask if needed, Collecting the ingredients and equipment, preparation of medicine, getting the consent, fitness certificate if required, counseling the patient and caretaker)         B. Procedure (Technique of procedure, communication with the patient and caretaker)         C. Post procedure specific to procedure and explain the Do's and Don't to follow.         3. Assignment: Write the mode of action/Samprapti Vigatana of the procedure)         4. Recording the procedure in the record book.								
<b>Topic</b>	11 Mahasrota Roga [Gastro Intestinal Disorders] (	LH :6 NI	LHT: 3 N	LHP: 6)		-					
A3	B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO 2,CO 3,CO 6Describe etio-pathogenesis, classification, clinical presentation and management(Chikitsa) of diarrheal diseases in children. Describe stages of diarrheal dehydration.		ation en.	СК	МК	K	L&PPT ,CD,DI S	T-CS,PM,S BA	F&S	II	-	LH

CO 2,CO 3	Diagnose and plan Chikitsa for Atisara, Grahani and Pravahika in children. Analyze Samprapti Vigatana.	CE	МК	КН	L&PPT ,CD	T-CS,PM,S BA	F&S	II	-	LH
CO 2,CO 3,CO 6	Describe etio-pathogenesis, classification, clinical presentation and management(Chikitsa) of vomiting in children. Diagnose and plan Chikitsa for Chhardi in children.	CE	МК	КН	CD,L& PPT	T-CS,SBA, PM	F&S	II	-	LH
CO 2,CO 3,CO 6	Define constipation, describe the etiology, diagnosis, complication and management(Chikitsa) of constipation. Diagnose and plan Chikitsa for Vibandha in children. Analyse Samprapti Vigatana.	CE	МК	КН	CD,L& PPT ,DIS	T-CS,PM	F&S	II	-	LH
CO 2,CO 3	Describe etio-pathogenesis, clinical presentation and management(Chikitsa) of stomatitis, rectal prolapse and Fissure in Ano in children.	СК	МК	K	DIS,L& PPT ,CD	PM,T- CS,SBA	F&S	II	-	LH
CO 2,CO 3	Explain etio-pathogenesis, clinical presentation and management(Chikitsa) of Infantile Colic.	CC	MK	K	L&PPT ,CD,DI S	T-CS, C- VC,PM	F&S	II	-	LH
CO 3,CO 4,CO 6	Enlist the Oushadha Yogas used in Atisara, Grahani and Pravahika. Enlist the ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition-specific) Yogas used for Aatisara, Grahani, and Pravahika Chikitsa and analyze its Samprapti Vighatana. Communicate the plan of Ahara and Vihara for Atisara, Grahani and Pravahika to the caregivers.	AFT- RES	МК	SH	FC,RP, CBL	QZ ,CHK,RS	F&S	II	-	NLHT11.1
CO 3,CO 4,CO 6	Enlist Oushadha Yoga use for Chhardi. Enlist ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition specific) Yogas used for Chhardi and analyze Samprapti Vighatana.	AFT- RES	МК	SH	TBL,RP ,FC	P-RP,CHK, RS	F&S	II	-	NLHT11.2

	Communicate the plan of Ahara and Vihara for Chhardi to the caregivers.									
CO 2,CO 3,CO 6	Enlist Oushadha Yoga use for Vibandha. Enlist ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition specific) Yogas used in Vibandha and analyze its samprapti Vighatana. Communicate the plan of Ahara and Vihara for Vibandha to the caregivers.	AFT- RES	МК	SH	PER,FC ,RP	P-RP,RS,C HK	F&S	II	-	NLHT11.3
CO 3,CO 4,CO 6	Analyse physiological basis of ORT. Compare composition of various types of ORS. Communicate and educate parents on home based ORS.	AFT- RES	МК	SH	RP,IBL	CL-PR,RS, CHK	F&S	II	-	NLHP11.1
CO 3,CO 7,CO 8	Perceive two Kriyakrama used in the management of Chhardi and analyse its Samprapti Vighatana.	PSY- SET	МК	КН	D- BED,D	INT,CHK, QZ	F&S	II	-	NLHP11.2
CO 3,CO 7,CO 8	Perceive two Kriyakrama used in the management of Vibandha and analyse its Samprapti Vighatana.	PSY- SET	МК	КН	D-M,D- BED	QZ ,CHK,INT	F&S	II	Н-РК	NLHP11.3
CO 2,CO 3	Diagnose and plan Chikitsa for Mukhapaaka, Gulma, Gudabramsa and Parikartika in children and analyse Samprapti Vighatana.	CE	DK	SH	FC,CBL ,PBL	CWS ,RS,CHK	F&S	II	-	NLHP11.4
CO 2,CO 3	Identify the signs and symptoms of GI and Liver disorders (Jaundice, Pallor, Gynaecomastia, Spider angioma, Palmar erythema, Icthyosis, Caput medusa, Clubbing, Failing to thrive). Identify Dosha and Dhatu involved in GI and Liver disorders. Identify signs and symptoms of Vitamin A and D deficiency.	САР	МК	КН	FC,PBL ,PL	CHK,P- ID,RS	F&S	Π	-	NLHP11.5

	Identify	the referral criteria of Mahashrotogata Vikaras														
CO 2,CO 3,CO 4	Examin Vikaras	e and plan the management for a case of Maha Strote	D	PSY- GUD	DK	SH	CD,PT, D-BED	SP,P- CASE,CH K	F&S	Π	-	NLHP11.6				
Non L	ecture E	Iour Theory					•			•						
S.No	No Name of Activity				Description of Theory Activity											
NLHT	11.1	Oushadha Yogas, Pathya in Aatisara, Grahani and Pravahika.	Durati Pre-Pr By the 1. Prep 2. Div: 3. Ass: 4. Prov compo 5. Vali 6. Ens: By the 1. Stud which 2. Stud validat Activit 1. Stud 2. Tead their ra 3. Sele are fre 4. Enli	on: 1 Hou eparation: Teacher: pare the lis- ide the cla ign 1 diseavide guide onent of co- idate the F ure the lar Student: dents is exp ted by the ty: dents asser cher will g ationale. ect the rele- quently us ist ingredia	r st of Ousha ss into 3 g ase to each lines to pro- ommunicat cole Play s guage is s pected to p teacher pro- teacher pro- nble in gra- give an over- sed by pra- ents, indic	adha Yoga roups a group (eg epare the <i>A</i> ion. cript prepa imple and understand particular of repare the ior to the a pups assig erview of f mulations citioners of ations and	s used for A g Atisara, G Ahara Viha ared by the easy to und l the disease disease assi Ahara Viha activity. ned. formulation used in Ati of respectiv explain Pra	Atisara, Graha Frahani and Pra ra Chart, role j student Prior to derstand by the e, Prepare the gned to them. ara chart and the state in Atisa sara, Grahani e state/ region actical relevan	ni and Pra avahika ) play and h to the active local peo list of Ous he script o ara, Graha and Praval ce and role	vahika ighlight vity. ple. hadha Y f the roy f the roy ni and I hika, wi e in San	t the impo Yogas, Af le play an Pravahika ath referen nprapti Vi	ertant hara Vihara d get it along with hace and which ighatana.				

		<ul><li>5. Group leader present the Ahara Vihara Chart in Atisara, Grahani and Pravahika.</li><li>6. Each group executes the role play.</li><li>Role of Teacher: Facilitate group discussion and provide inputs</li></ul>
NLHT 11.2	Oushadha Yogas and Pathya used in Chhardi.	<ul> <li>Duration: 1 Hour</li> <li>Pre-Preparation:</li> <li>By the Teacher:</li> <li>1. Prepare the list of Oushadha Yogas used for Chhardi.</li> <li>2. Divide the class into 5 groups</li> <li>3. Assign 1 type of Chhardi to each group</li> <li>4. Provide guidelines to prepare the Ahara Vihara Chart, role play and highlight the important component of communication.</li> <li>5. Validate the Role-Play script prepared by the student Prior to the activity.</li> <li>6. Ensure the language is simple and easy to understand by the local people.</li> <li>By the Student:</li> <li>1. Students is expected to understand the disease, Oushadha Yogas which is indicated for Chhardi and analyze Samprapti Vighatana.</li> <li>2. Student is expected to prepare the Ahara Vihara chart and the script of the role play and get it validated by the teacher prior to the activity.</li> <li>Activity:</li> <li>1. Students assemble in groups assigned.</li> <li>2. Teacher will give an overview of formulations used in Chhardi along with their rationale.</li> <li>3. Select the relevant 2 formulations used in Chhardi with reference and which are frequently used by practitioners of respective state/ region.</li> <li>4. Analyze the Samprapti Vighatana in Chhardi.</li> <li>5. Enlist ingredients, indications and explain Practical relevance.</li> <li>6. Group leader present the Ahara Vihara Chart in different types of Chhardi.</li> <li>7. Each group executes the role play.</li> <li>Role of Teacher: Facilitate group discussion and provide feedback on participation and analysis.</li> </ul>

NLHT 11.3	Oushadha Yoga and Pathya in Vibandha.	Duration: 1 Hour         Pre-Preparation:         By the Teacher:         1. Prepare the list of Oushadha Yogas used for Vibandha.         2. Divide the class into 5 groups         3. Assign 1 stimulated or hypothesised cases of Vibandha (varying level of severity/different age groups)         4. Provide guidelines to prepare the list of Oushadha Yogas Ahara Vihara Chart, role play and highlight the important component of communication.         5. Validate the Role- play script prepared by the student prior to the activity.         6. Ensure the language is simple and easy to understand by the local people.         By the Student:         1. Students is expected to understand the disease, enlist Oushadha Yogas which is indicated for the Vibandha and analyze its samprapti Vighatana.         2. Student is expected to prepare the Ahara Vihara chart and the script of the role play and get it validated by the teacher prior to the activity.         Activity:         1. Students assemble in groups assigned.         2. Teacher will give an overview of formulations used in Vibandha along with their rationale.         3. Select the relevant 2 formulations used in Vibandha with reference and which are frequently used by practitioners of the respective state/ region.         4. Analyze the samprapti Vighatana in Vibandha.         5. Enlist ingredients, indications and explain practical relevance.         6. Group leader present the Ahara Vihara Chart in different types of Vibandha.         7. Each group exec
		<b>Role of Teacher:</b> Facilitate group discussion and provide feedback on participation and analysis.
Non Lecture H	our Practical	
S.No	Name of Practical	Description of Practical Activity

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NLHP 11.1	Physiological basis and composition of various ORT	<ul> <li>Duration: 1 Hours</li> <li>Pre-preparation</li> <li>By the Teacher: <ol> <li>Teacher informs the topic and group division (Min 6 to 10) 1 week before the class activity.</li> <li>Group 1: Analyse physiological basis of ORT.</li> <li>Group 2: Comparison of various types of ORS.</li> <li>Group 3: Advice and instruct parents on home-based ORS – Role play</li> <li>Validate the role play script before the session.</li> <li>Prepare the checklist for evaluation.</li> <li>By the Student: <ol> <li>Identify a Question: Physiological basis of ORT, Comparison of various types of ORS and Preparation of Home-based ORS</li> <li>Conduct Background Research: Visit nearby Pharmacy/dispensaries.</li> <li>Formulate hypothesis if needed</li> <li>Plan and Conduct Investigations: Interviewing healthcare professionals about ORTs they use in their practice. Surveys can also be planned in public.</li> <li>Analyze Data: Analyze data from surveys or interviews to understand the physiological basis of ORT, compare various types of ORS and Preparation of Home based ORS</li> </ol> </li> <li>Class Activity: <ol> <li>Students sit in their respective groups</li> <li>Group discussion: 10 mins</li> <li>Communicate findings: Present findings through a report/presentation on the physiological basis of ORT.</li> </ol> </li> </ol></li></ul>
		<ol> <li>Communicate findings: Present findings through a report/presentation on the physiological basis of ORT, and compare various types of ORS.</li> <li>Group 3 role play to plan and instruct the parents on home-based ORS.</li> <li>Teachers' role: Facilitate group discussion and guide students on resources.</li> </ol>
NI HP 11 2	Krivakrama used in the management(Chikitsa) of	Duration: 1 Hour
	Chhardi.	<ul> <li>Pre-preparation:</li> <li>By the Teacher:</li> <li>1. Identify two Kriyakrama (Procedure based therapy) used in Chhardi</li> <li>2. Scheduling the demonstration and arranging the patient.</li> </ul>

		<ul> <li>By the Student: Students are expected to study the concept of Chhardi and its management in detail prior to the Activity.</li> <li>Activity: <ol> <li>Teacher/therapist demonstrates the Kriyakrama on the patient.</li> <li>Students are expected to observe –</li> <li>Pre-procedure specific to the procedure (like Handwashing, Wearing Cap/gloves/mask if needed, Collecting the ingredients and equipment, preparation of medicine, getting consent, fitness certificate if required, counseling the patient and caretaker)</li> <li>Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>Post procedure specific to procedure and explain the Do's and Don't to follow.</li> </ol> </li> <li>Record the procedure in the record book.</li> <li>Assignment: Write the mode of action/Samprapti Vighatana of the procedure)</li> </ul>
NLHP 11.3	Kriyakrama used in the management of Vibandha.	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation:</li> <li>By the Teacher: <ol> <li>Identify two Kriyakrama (Procedure based therapy) used in Vibandha</li> <li>Scheduling the demonstration and arranging the patient.</li> <li>By the Student: Students are expected to study the concept of Vibandha and its management in detail prior to the Activity.</li> </ol> </li> <li>Activity: <ol> <li>Teacher/therapist demonstrates the Kriyakrama on the patient.</li> <li>Students are expected to observe –</li> <li>Pre-procedure specific to the procedure (like Handwashing, Wearing Cap/gloves/mask if needed, Collecting the ingredients and equipment, preparation of medicine, getting consent, fitness certificate if required, counseling the patient and caretaker)</li> <li>Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>Post procedure in the record book.</li> <li>Assignment: Write the mode of action/Samprapti Vighatana of the procedure)</li> </ol> </li> </ul>

NLHP 11.4	Case Discussion:Mukhapaaka, Gulma, Gudabramsa and Parikartika.	<ul> <li>Duration: 1 Hour</li> <li>Preparation /Pre-Requisites</li> <li>By the Teacher: <ol> <li>Diving the students in 4 groups and assigning structured case vignette for each group (Mukhapaaka, Gulma, Gudabramsa and Parikartika respectively) one week before the session</li> <li>By the Student: <ol> <li>Understand the case assigned, diagnose and plan the management</li> <li>Ask for more triggers or direction to solve the case before the session</li> </ol> </li> <li>Activity: In the clinical classroom: <ol> <li>Students discuss the Nidana Panchaka in the allotted group, differential diagnosis, and identify the Samprapti Ghatakas.</li> <li>Plan the management and justify the Samprapti Vighatana</li> <li>Presentation of the case [Each group will present the assigned case]</li> <li>Recording the case in record book.</li> </ol> </li> </ol></li></ul>
NLHP 11.5	Signs and symptoms of GI and Liver disorders	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation</li> <li>By the Teacher</li> <li>1. Preparing the resource material which includes signs and symptoms of GI and liver disorders.</li> <li>2. Dividing the students in groups and assigning case vignette to each group</li> <li>By the students (SDL)</li> <li>1. Learning the resource material and Identifying signs and symptoms of GI and liver disorders in the case vignette assigned.</li> <li>2. Identify Dosha and Dhatu involved in GI and liver disorders.</li> <li>3. Identify signs and symptoms of Vitamin A and D deficiencies.</li> <li>Activity:</li> <li>1. Introduction: Teacher briefly explains the objectives and importance of diagnosing GI and liver disorders in Ayurveda and contemporary medicine.</li> <li>2. Case Discussion: Each group present their findings briefly.</li> <li>3. Teacher Facilitate a discussion to referral criteria of Mahashrotogata Vikaras</li> </ul>

NLHP 11.6	6 Case Discussion: Maha Stroto Vikara.	Durati Prepa By the	ion: 1 Hou ration /Pr e teacher:	ur <b>:e-Requisi</b>	tes							
		1. Sche	eduling the	e case taki	ng and arra	anging the	case (Real Par	tient / simu	lated pa	atient/ Cas	e vignette)	
		2. Mak	the stud	ent unders	tand the O	PD/IPD m	anners during	case-takin	g			
		3. Prep	paring the	checklist f	or the cond	cerned activ	vity.					
		By the	student:									
		1. Stud Stroto	lent is exp Vikara	ected to co	ome prepar	ed with the	e content of N	idana Panc	haka ar	nd Chikitsa	a Maha	
		2. Rap	port buildi	ing, prope	history ta	king, thoro	ugh examinat	ion, approp	oriate Ir	vestigatio	n	
		3. Pres	ent their v	views in cl	nical class	room discu	ission			-		
		Activi	ty:									
		In the	the clinical classroom: Students are divided in groups (5-8 members in one group) and sent to									
		OPD/IPD for Bedside - Case taking										
		Bedsid	le: Case ta	aking as pe	r the form	at (in case	of real patient	s)				
		A. Bui	lding rapp	ort with p	atient							
		B. Hist	tory taking	g								
		C. Clir	nical exam	ination								
		In the	clinical c	lassroom:								
		1. Stud	lents discu	iss the Nid	ana Panch	aka in the a	allotted group	differentia	al diagn	iosis, plan		
		investi	gations if	needed &	identify th	e Samprap	ti Ghatakas					
		2. Plan	the mana	igement an	d justify th	ie Samprap	ti Vighatana					
		3. Pres	entation o	of the case	[Each grou	p will pres	ent one disea	se or any si	ub-poin	t of the cas	se]	
		4. Recording the case in the record book.										
Topic 12	Rasa Rakta Rogas [Disorders of blood and cardio	vascula	r system]	(LH :3)	NLHT: 3	NLHP: 6	)					
Δ3	<b>B3</b>		C3	D3	E3	F3	G3	нз	13	K3	13	

A3	B3	C3	D3	E3	F3	G3	H3	<b>I</b> 3	К3	L3
CO 2,CO	Describe etio-pathogenesis, clinical features, classification, diagnosis and approach to a child with anaemia.	СК	МК	К	LRI,L& PPT	PM,T-CS	F&S	II	-	LH

3										
CO 2,CO 3	Explain Mritbhakshanajanya Pandu. Enumerate diseases originating from Mritikabhakshana.	CC	MK	K	L&PPT ,L_VC, CD	PM,INT,T- CS	F&S	II	-	LH
CO 2,CO 3	Diagnose and plan Chikitsa for Kamala in children. Define and describe types, etiology, clinical features, diagnosis and management(Chikitsa) of Jaundice in children. Identify referral criteria for cases of Jaundice.	CS	МК	КН	L_VC,L RI,CD	INT,T-CS, C-VC	F&S	II	-	LH
CO 2,CO 3	Analyze Bheda of Pandu with Anemia. Identify referral criteria for cases of anaemia.	CAN	МК	KH	PBL,FC	RS,CHK,P RN	F	II	-	NLHT12.1
CO 2,CO 3	Enlist haemorrhagic diseases in children. Discuss etio- pathogenesis, clinical features and management(Chikitsa) of Haemolytic anemia, Thalassemia Major, Sickle Cell Anemia, Hereditary Spherocytosis. Diagnose and plan management(Chikitsa) of Haemolytic anemia, Thalassemia Major, Sickle cell anaemia, Hereditary spherocytosis.	CS	DK	КН	CBL,FC ,LRI	CHK,PRN, RS	F&S	II	-	NLHT12.2
CO 2,CO 3	Enumerate causes of hepatomegaly and splenomegaly. Analyze concept of Udara Roga with reference to hepatomegaly and splenomegaly.	CAN	DK	KH	BS,DIS	CHK,RS,IN T	F	II	-	NLHT12.3
CO 2,CO 3,CO 6	<ul> <li>Plan complementary and alternative scope of treatment protocol for cases of Anemia.</li> <li>Communicate the plan of Ahara and Vihara for Pandu to the caregivers.</li> <li>Enlist Oushadha Yogas used in Pandu. Enlist ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition specific) Yogas used in Pandu Chikitsa and analyze its Samprapti Vighatana.</li> </ul>	AFT- RES	МК	SH	CBL,FC ,RP	PRN,CHK, RS	F&S	Π	-	NLHP12.1

CO 3,CO 7,CO 8	Perceive Analyse	e two Kriyakrama used in the management of Pandu Samprapti Vighatanah in Pandu		PSY- SET	МК	КН	D- BED,D	INT,CHK	F&S	II	-	NLHP12.2
CO 2,CO 3,CO 6	Plan con protocol Commu caregive Enlist C indicatio Vishesh analyze	nplementary and alternative scope of Ayurveda treat for the cases of Kamala. nicate the plan of Ahara and Vihara for Kamala to the ers. pushadha Yogas used in Kamala. Enlist ingredients a ons of at least two Samanya Oushadha Yoga and two a (condition specific) Yogas used in Kamala Chikits its Samprapti Vighatana.	tment ne nd a and	AFT- RES	МК	SH	RP,CBL ,L&GD	PRN,RS,C HK	F&S	Π	-	NLHP12.3
CO 3,CO 7,CO 8	<ul> <li>Perceive two Kriyakrama used in the management of Kamala.</li> <li>Analyse Samprapti Vighatana in Kamala</li> <li>Analyse Samprapti Vighatana in Kamala</li> </ul>		a.	PSY- SET	МК	KH	D,D- BED	INT,CHK	F&S	Π	-	NLHP12.4
CO 2,CO 3,CO 4,CO 6	CO Examine and Plan the treatment for cases of Pandu, Anaemia and 2,CO Kamala. 3,CO 4,CO 6		a and	PSY- GUD	DK	SH	CBL,D- BED	RS,P- CASE,CH K	F	II	-	NLHP12.5
Non Le	ecture H	our Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT 12.1 Bheda and referral criteria of Pandu and Anemia. Dura Pre-J By th vigne By th		Durat Pre-pr By the vignet By the	ion: 1 Hou reparation e Teacher: te to each g e students	ır <b>1:</b> Bir Dividing group (diff ( <b>SDL</b> )	the studen erent kind	ts in group of Pandu a	s (Min 8 and M and varying se	Max 10 gro verity) 1 w	oups) ar veek bei	nd assignir fore the ac	ig case tivity.	

		<ol> <li>Identifying the problem and ask for triggers</li> <li>Diagnose the type of Pandu and type of Anaemia</li> <li>Analyze Bheda of Pandu with Anaemia.</li> <li>Identify referral criteria for cases of anaemia</li> <li>Ask for triggers to find the answers prior to the session</li> <li>Activity:         <ol> <li>Introduction: Teacher briefly explains the objectives of the session and activity.</li> <li>Case Discussion: Each group present their findings briefly.</li> <li>Students discuss the new knowledge of comparison and the process of learning</li> <li>Teacher facilitates a discussion to correct misconceptions and reinforce key points.</li> </ol> </li> </ol>
NLHT 12.2	Haemorrhagic Diseases in children.	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation:</li> <li>By the Teacher: Preparing the resource material (Hemorrhagic Diseases in children) and sharing it to the students (handouts/recorded videos/ppts) 1-2 week prior to the class activity.</li> <li>Dividing the students in groups and assigning case vignettes to each group.</li> <li>By the students (SDL):</li> <li>1. Learning the resource material and understanding the etiopathogenesis, clinical features and management (Chikitsa) of Hemolytic anemia, Thalassemia Major, Sickle Cell Anemia, Hereditary Spherocytosis.</li> <li>2. Diagnosing the case vignette assigned and planning the management.</li> <li>Activity:</li> <li>1. Introduction: Teacher briefly explain the objectives and list out the hemorrhagic diseases in children.</li> <li>2. Group discussion: Students discuss in group on assigned case vignette</li> <li>3. Case Discussion: Each group present their findings briefly and explain the etio-pathogenesis, clinical features and management (Chikitsa) of the case assigned to the group.</li> <li>4. Teacher Facilitate a discussion to correct misconceptions and reinforce key points.</li> </ul>
NLHT 12.3	Udara Roga: hepatomegaly and splenomegaly.	Duration: 1 Hour

	<ul> <li>Pre-preparation:</li> <li>By the Teacher: Preparing the list of references (Udara Roga, hepatomegaly and splenomegaly) and sharing it with students.</li> <li>By the students (SDL):</li> <li>1. Understanding the concept of Udara Roga, hepatomegaly and splenomegaly from the given references.</li> <li>2. Carrying the references to the session</li> <li>Activity:</li> <li>1. Introduction: Teacher briefly explain the objectives of the session and activity.</li> <li>2. Diving the class into group (min 6-8 in one group)</li> <li>3. Group discussion: Students discuss in groups on the causes of hepatomegaly and splenomegaly and also analyze concept of Udara Roga with reference to hepatomegaly and splenomegaly using the references.</li> <li>4. Each group present their discussion.</li> </ul>
	references. 4. Each group present their discussion.
	5. Teacher facilitates discussion among different groups to correct misconceptions and reinforce key points.

#### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity				
NLHP 12.1	Complementary, alternative treatment protocol,	Duration: 1 Hour				
	Pathya in Anemia.	Pre-Preparation:				
		By the Teacher:				
		1. Prepare the list of Oushadha Yogas used in Pandu				
		2. Divide the students into 5 groups				
		3. Assign 1 real case/ stimulated or case vignette (different types of Pandu/Anemia)				
		4. Provide guidelines to prepare the Ahara Vihara Chart, role play and highlight the important				
		components of communication.				
		5. Validate the Role Play script prepared by the student Prior to the activity.				
		6. Ensure the language is simple and easy to understand by the local people.				
		By the Student:				

		<ol> <li>Students is expected to understand the disease, Ahara Vihara which is indicated for the particular disease assigned to them.</li> <li>Student is expected to prepare the Ahara Vihara chart and the script of the role play which explains the Ahara Vihara Chart to the parents/caretaker and get it validated by the teacher prior to the activity.</li> <li>Student is expected to enlist the Oushadha Yogas use in Pandu Chikitsa and study the details of any two Samanya &amp; Vishesh Yogas.</li> <li>Activity:         <ol> <li>Students assemble in groups assigned.</li> <li>Teacher explains the Plan complementary and alternative scope of treatment protocol for cases of Anemia.</li> <li>Teacher will give an overview of formulations used in Pandu along with their rationale.</li> <li>Select the relevant 2 formulations used in Pandu with reference and which are frequently used by practitioners of respective state/ region.</li> <li>Enlist ingredients, indications and explain Practical relevance.</li> <li>Discuss the Oushadha Yogas and justify Samprapti Vighatana.</li> <li>Group leader present the Ahara Vihara Chart in different types of Pandu.</li> <li>Each group executes the role play.</li> </ol> </li> </ol>
NLHP 12.2	Kriyakrama used in management of Pandu	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation:</li> <li>By the Teacher:</li> <ol> <li>Identify two Kriyakrama (Procedure-based therapy) used in Pandu.</li> <li>Scheduling the demonstration and arranging the patient.</li> <li>By the Student: Students are expected to study the concept of Pandu and its management in detail prior to the Activity.</li> <li>Activity:</li> <li>Teacher/therapist demonstrates the Kriyakrama on the patient.</li> <li>Students are expected to observe –</li> <li>A. Pre-procedure specific to the procedure (like Handwashing, Wearing Cap/gloves/mask if needed, Collecting the ingredients and equipment, preparation of medicine, getting the consent, fitness certificate if required, counseling the patient and caretaker)</li> </ol> </ul>

		<ul> <li>B. Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>C. Post procedure specific to procedure and explain the Do's and Don't to follow.</li> <li>3. Record the procedure in the record book.</li> <li>4. Assignment: Write the mode of action/Samprapti Vighatana of the procedure.</li> </ul>
NLHP 12.3	Complementary, alternative treatment protocol, Pathya in Kamala.	Duration: 1 Hour         Pre-Preparation:         By the Teacher:         1. Prepare the list of Oushadha Yogas used in Kamala         2. Divide the students into 3 groups         3. Assign 1 real case/ stimulated or case vignette (varying level of severity)         4. Provide guidelines to prepare the Ahara Vihara Chart, role play and highlight the important components of communication.         5. Validate the Role Play script prepared by the student Prior to the activity.         6. Ensure the language is simple and easy to understand by the local people.         By the Student:         1. Students is expected to understand the disease, Ahara Vihara which is indicated for the particular disease assigned to them.         2. Student is expected to prepare the Ahara Vihara chart and the script of the role play which explains the Ahara Vihara Chart to the parents/caretaker and get it validated by the teacher prior to the activity.         Activity:         1. Students assemble in groups assigned.         2. Teacher explains the Plan complementary and alternative scope of treatment protocol for cases of Kamala.         3. Teacher will give an overview of formulations used in Kamala along with their rationale.         4. Select the relevant 2 formulations used in Pandu with reference and which are frequently used by practitioners of respective state/ region.         5. Enlist ingredients, indications and explain Practical relevance.         6. Discuss the Oushadha Yogas and justify Samprapti Vighatana.

NLHP 12.4	Kriyakrama used in the management of Kamala.	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation:</li> <li>By the Teacher: <ol> <li>Identify two Kriyakrama (Procedure-based therapy) used in Kamala.</li> <li>Scheduling the demonstration and arranging the patient.</li> <li>By the Student: Students are expected to study the concept of Kamala and its management in detail prior to the Activity.</li> </ol> </li> <li>Activity: <ol> <li>Teacher/therapist demonstrates the Kriyakrama on the patient.</li> <li>Students are expected to observe –</li> <li>Pre-procedure specific to the procedure (like Handwashing, Wearing Cap/gloves/mask if needed, Collecting the ingredients and equipment, preparation of medicine, getting the consent, fitness certificate if required, counseling the patient and caretaker)</li> <li>Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>Post procedure specific to procedure and explain the Do's and Don't to follow.</li> <li>Record the procedure in the record book.</li> <li>Assignment: Write the mode of action/Samprapti Vighatana of the procedure.</li> </ol> </li> </ul>
NLHP 12.5	Case Discussion: Pandu, Anaemia and Kamala.	<ul> <li>Duration: 2 Hour</li> <li>Preparation /Pre-Requisites:</li> <li>By the Teacher: <ol> <li>Scheduling the case taking and arranging the cases of Pandu, Anemia and Kamala. (Real Patient / simulated patient/ Case Vignette)</li> <li>Preparing the checklist for the concerned activity.</li> </ol> </li> <li>By the student: <ol> <li>Student is expected to come prepared with the content of Nidana Panchaka and Chikitsa of Pandu and Kamala.</li> <li>Rapport building, proper history taking, thorough examination, appropriate Investigation Activity:</li> <li>Clinical classroom: Students are divided in groups (5-8 members in one group) and sent to OPD/IPD for Bedside - Case taking</li> </ol> </li> </ul>

Bedside (in case of real case): Case taking as per the format1. Building rapport with patient2. History taking3. Clinical examinationIn clinical classroom:1. Students discuss the Nidana Panchaka in the allotted group, differential diagnosis, plan investigations if needed & identify the Samprapti Ghatakas2. Plan the management and justify the Samprapti Vighatana3. Presentation of the case [Each group will present any one sub point of the case]4. ROLE-PLAY – Explain the care plan, Ahara vihara & prognosis to parent.5. Recording the case in record book.Teacher's role: Teacher evaluates students' performance based on checklist/rating scale.Checklist: Yes/No1. Rapport building established2. Explains the history and symptoms in sequence of disease Pandu, Anemia and Kamala accurately.3. Explains local and systemic clinical examination performed.4. Identifies the Nidana Panchaka accurately and discuss differential diagnosis.5. Identifies the Samprapti Ghatakas in disease Pandu, Anemia and Kamala as per the allotment of respective groups.6. Plan the management and Justifies Samprapti Vighatana.7. Explain care plan, Ahara vihara & prognosis to parent.8. Shows active collaboration in group and justifies the queries raised.
<ul><li>7. Explain care plan, Ahara vihara &amp; prognosis to parent.</li><li>8. Shows active collaboration in group and justifies the queries raised.</li><li>9. Language is simple and easy to understand by the local people.</li></ul>

### Topic 13 Antahsravee Granthi Rogas (Disorders of Endocrine System) (LH :3 NLHT: 2 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 2,CO 3,CO 6	Enlist Thyroid dysfunctions. Define Hyperthyroidism, Hashimoto's Thyroiditis in children. Analyze Samprapti in Thyroid dysfunction and plan Chikitsa. Diagnose and manage Hypothyroidism.	CE	МК	КН	LRI,L& PPT ,L&GD	T-CS,QZ , C-VC	F&S	II	-	LH

CO 2,CO 3	Interpret and explain Neonatal and Childhood Thyroid screening report. Identify referral criteria for the cases of Thyroid dysfunction	CC	МК	K	TUT,L &PPT ,LRI	T-CS,SBA, O-QZ	F&S	II	-	LH
CO 2,CO 3,CO 6	Explain Sahaja Prameha. Describe etio-pathogenesis, clinical features, diagnosis, complications ,management and referral criteria of Type-1 Diabetes mellitus. Analyze the concept of Prameha with reference to Diabetes.	CAN	МК	KH	DIS,BS, L&PPT	CR-W,SBA ,T-CS	F&S	II	-	LH
CO 2,CO 3,CO 6	Enlist ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition-specific) Yogas used for T1DM and analyse the Samprapti Vigatana. Prescribe and explain Ahara - Vihara for Thyroid Dysfunctions and T1DM.	CS	МК	КН	BS,L& GD,ML	CL-PR,O- QZ,WP	F&S	П	-	LH
CO 2,CO 3,CO 4,CO 6	Plan Chikitsa for Diabetes Mellitus (Prameha), glycaemic control and analyze Samprapti Vagatana. Identify referral criteria for the cases of Diabetes Mellitus. Prescribe and explain Ahara- Vihara for T1DM.	CS	МК	КН	PBL,FC ,CBL	CHK, C- VC,SP	F&S	П	-	NLHT13.1
CO 2,CO 3,CO 7	Enlist and perceive any two Kriyakrama used in the management of T1DM . Analyse Samprapti Vighatana	PSY- SET	МК	КН	D- M,D,PT	QZ ,INT,CHK	F&S	II	-	NLHP13.1
CO 1,CO 2,CO 3,CO 6	Predict the case of precocious and delayed puberty. Identify deviations in growth and plan appropriate management.	САР	NK	КН	FC,PER ,SDL	QZ ,CHK,RS	F&S	П	-	NLHT13.2
Non Lo	ecture Hour Theory							•		

S.No	Name of Activity	Description of Theory Activity
NLHT 13.1	Diabetes Mellitus (Prameha)	Duration: 1 hour         Pre-Preparation:         By the Teacher:         1. Preparation of Case Vignette (different age group/different glycemic levels/)         2. Divide the Class into groups.         3. Assign one case to each group one week prior to the class activity.         By the Students: Student is expected to study Diabetes Mellitus & glycemic control measures Ahara Vihara, referral criteria, by referring classical texts or by conduct a survey before the session.         Activity:         1. Students assemble in assigned group         2. Group Discussion on the assigned topic.         3. Students are expected to present:-         A. Chikitsa Sutra if any         B. Shamana Protocol and analyze Samprapti Vighatana if any         C. Prescribe dose a/c to age         D. Shodana protocol if needed and justify the indication.         E. Satvavajaya measures if any         F. Glycemic control measures         G. Prescribe a diet regimen         H. follow-up plan         I. Criteria to refer         Role of the Teacher: Facilitate group discussion and summarize the key points.
NLHT 13.2	Precocious and Delayed Puberty	Duration: 1 Hour         Pre-Preparation         By the Teacher: Dividing the students in groups (Min 8 and Max 10 groups) and assigning the topic one week before the activity.         By the Students: Students are expected to study puberty & growth deviations before coming to class Activity:

1. Students are divided into three groups (precocious, delayed, and deviated growth).
2. Provide one case to each group
3. Students are expected to identify –
a. Types of puberty
b. Chronological development of signs & symptoms during puberty.
d. Current manifestations/ symptoms
e. Familial history if any
f. Principle of growth and development
g. Growth patterns in the charts
h. Causative factors for deviated growth if any
Teacher's role: Teacher asses using a checklist.
Checklist: Yes/ No
1. Identifies Puberty types accurately
3. Mentions Chronological development of puberty symptoms accurately
4. Explains current manifestations/ symptoms
5. Mentions appropriate Causative factors
6. Mentions familial history
7. Analysis of growth and development
8. Explains the growth pattern using the chart.

#### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 13.1	KriyaKrama in T1DM	Duration: 2 hours
		Pre-preparation:
		By the Teacher:
		1. Identifying Kriyakrama used in T1DM
		2. Scheduling the demonstration and arranging the patient.
		By the Student: Students are expected to study the disease and its management in detail prior to the
		activity.
		Activity:

	<ol> <li>Teacher/therapist demonstrates Kriyakrama on the patient.</li> <li>Students are expected to observe –         <ul> <li>A. Pre-procedure (Handwashing, Wearing Cap/gloves/mask, Collecting the ingredients and equipment's, preparation of medicine, getting the consent, fitness certificate if required, counselling the patient and caretaker)</li> <li>B. Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>C. Post procedure (Explaining the Do's and Don't to follow)</li> <li>Assignment: Students are asked to write the mode of action/Samprapti Vighatana of the procedure)</li> </ul> </li> </ol>

## Topic 14 Mutravaha Sroto Rogas (Disorders of Genito urinary system) (LH :3 NLHT: 2 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3
CO 2,CO 3,CO 6	Diagnose and plan the Chikitsa of Mutrakrichra in children. Diagnose and plan the management of Urinary Tract infection in children. Describe the etiopathogenesis, clinical features, diagnosis, complications and management of Glomerular Nephritis in children.	CE	МК	КН	L&PPT ,DIS,LR I	PM,T-CS, C-VC	F&S	III	-	LH
CO 2,CO 3,CO 6	Explain the approach to the case of Proteinuria and Hematuria. Describe the etio-pathogenesis, clinical features, diagnosis complications and management of Chronic Renal Failure in Children. Describe the etio-pathogenesis, clinical features, diagnosis complications and management of Nephrotic Syndrome in Children	СС	МК	К	L&PPT ,DIS,LR I	PM, C- VC,T-CS	F&S	Ш	-	LH
CO 2,CO 3	Identify referral criteria for Proteinuria, Hematuria. Identify referral criteria for Genitourinary disorder	СК	MK	К	EDU,F C,PBL	C-VC,QZ ,O-GAME	F&S	III	H-SH	NLHT14.1
CO 2,CO	Enlist the ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition specific) Yogas	CE	MK	KH	L_VC,D IS,L&P	C-VC,SBA ,T-CS	F&S	III	H-SH	LH

3,CO 6	used in Vigatan and plan Diagnos	Genito Urinary disease and Analyse the Samprapti a. Diagnose Niruddha Praksha/Niruddha Mani in ch n the Chikitsa. se and Plan the management for Phimosis.	hildren				PT					
CO 2,CO 3,CO 6	Formula treatmen Prescrib disease	ate complementary and alternative scope of Ayurve at protocol for the cases of Mutra Vaha Sroto Vikar be and Explain Ahara and Vihara for Genitourinary	da a.	CS	МК	КН	TBL,PB L,L&G D	P-PS,SBA, CBA	F&S	III	-	NLHT14.2
CO 2,CO 3,CO 4	Examin Shukra	e status of Kelda, Agni, Koshta in a case of Mutra a Vaha Sroto Dusti.	and	PSY- GUD	МК	SH	D- BED,PT	P-PRF,CH K,P-CASE	F&S	III	-	NLHP14.1
CO 3,CO 4,CO 7	Perceivo Sroto V	e two Kriyakrama used in the management of Mutrikara. Analyze Samprapti Vighatana	a Vaha	PSY- SET	МК	КН	D-M,D	CHK,INT, QZ	F&S	III	-	NLHP14.2
Non L	ecture H	lour Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT	IT 14.1       Reference criteria of Genito urinary disorders       Duration: 1 hour         Pre-Preparation:       By the Teacher:         1. Dividing the class into four groups one week prior to the activity. Guide the students about references         2. Preparation of Case Vignette         3. Assign one/two cases to each group ((Proteinuria, Haematuria, Genito urinary, Phimosis) one we prior to the class activity         By the Student: Students are expected to study available literature prior to class and understand th case assigned to them.					oout is) one week erstand the						

		<ul> <li>Activity:</li> <li>1. Facilitator opens discussion</li> <li>2. Students are expected to</li> <li>A. Explain the history and symptoms in the case.</li> <li>B. Mention the examination findings.</li> <li>C. Interpret the investigation findings.</li> <li>D. Diagnose the case and its subtype.</li> <li>E. Explain the referral criteria and justify the reason.</li> </ul>
NLHT 14.2	Scope of treatment & ahara-vihara plan in Mutra vaha Sroto Vikara	<ul> <li>Duration: 1 hour</li> <li>Pre-Preparation:</li> <li>By the Teacher: Dividing the class into groups (different Mutra Vaha Sroto Vikara)one week prior to the activity and assigning them a problem. Guide the students about references</li> <li>By the Student: <ol> <li>Students are expected to study available literature regarding Mootra Vaha Sroto Vikara.</li> <li>Understand the case and plan Ahara and Vihara for the case</li> </ol> </li> <li>Activity: <ol> <li>Teacher explains the complementary and alternative scope of Ayurveda treatment protocol for the cases of Mutra Vaha Sroto Vikara.</li> <li>Students are expected to diagnose the case and present the Ahara Vihara chart of given case.</li> <li>Analyse the chart and discuss the complementary and alternative scope of Ayurveda treatment protocol.</li> </ol> </li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 14.1	Examination of kleda agni kosta in mutra and shukra vaha srotas	<ul> <li>Duration: 1 Hour</li> <li>Pre Preparation</li> <li>By The Teacher</li> <li>1. Introduce students about the importance of Agni, Kosta, Kleda examination in Mutra Sukra Vaha</li> </ul>

		<ul> <li>Srotas through handouts.</li> <li>Divide students in groups with 10-15 students in a team</li> <li>Provide a real case/case vignette to each group</li> <li>Prepare questionnaire to assess Kelda, Agni, Koshta.</li> <li>By The Student: Student should understand the questionnaire.</li> <li>Activity: <ol> <li>Students gather in group.</li> <li>Bedside (real case)</li> <li>Build rapport</li> <li>Examine the child.</li> <li>Assess Agni (Krura, Madhyama, Mrudu, Sama)</li> <li>Assess Kleda parameter in all types of Kostas (Krura ,Madhyama ,Mrudu, Sama)</li> <li>Clinical Classroom: Discuss the findings and difficulties faced in assessment.</li> </ol> </li> </ul>
NLHP 14.2	Kriya karma in Mutra Vaha Sroto Vikara	<ul> <li>Duration: 1 hour</li> <li>Pre-preparation:</li> <li>By the Teacher: <ol> <li>Identifying Kriyakrama (procedure-based therapy) used in Mutra Vaha Sroto Vikara</li> <li>Scheduling the demonstration and arranging the patient/ model</li> <li>By the Student: Students are expected to study the disease and its management in detail prior to the Activity.</li> </ol> </li> <li>Activity: <ol> <li>Teacher/therapist demonstrates the Kriyakrama on the patient.</li> <li>Students are expected to observe –</li> <li>Pre-procedure (Handwashing, Wearing Cap/gloves/mask, Collecting the ingredients and equipment, preparation of medicine, getting consent, fitness certificate if required, counseling the patient and caretaker)</li> <li>Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>Post-procedure (Explaining the Do's and Don't to follow)</li> <li>Assignment: Students are asked to write the mode of action/Samprapti Vigatana of the procedure)</li> </ol> </li> </ul>

A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3			
CO 2,CO 3,CO 6	Enumerate Rheumatological problems in children. Diagnose and plan Chikitsa of Amavata.	CE	МК	КН	L_VC,L &PPT ,X-Ray	T-CS, C- VC,CBA	F&S	III	_	LH			
CO 2,CO 3,CO 6	Diagnose and plan Chikitsa of Sandhigata Vata.	CE	МК	КН	CD,X-R ay,L&G D	C-VC,T- CS,SBA	F&S	III	-	LH			
CO 2,CO 3,CO 6	Diagnose and plan Chikitsa of Vatarakta. Enlist ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition specific) Yogas used for Rheumatological disorders and Analyse the Samprapti Vigatana.	CE	МК	КН	L&PPT ,DIS,LR I	C-VC,T- CS	F&S	III	-	LH			
CO 2,CO 3,CO 6	Identify referral criteria in Rheumatological disorders. Prescribe and explain Ahara-Vihara in Rheumatological disorders.	CS	МК	КН	CD,PBL ,CBL	RS,Mini- CEX,CHK	F&S	III	_	NLHT15.1			
CO 2,CO 3,CO 6	Formulate integrated treatment protocol for the cases of Rheumatological disorders	CS	DK	КН	FC,BS, TBL	RS,SBA,PR N	F&S	III	-	NLHT15.2			
CO 3,CO 7,CO 8	Perceive two Kriyakrama used in the management of Rheumatological disorders. Analyse Samprapti Vighatana	PSY- SET	МК	КН	D,D- M,PT	QZ ,CHK,INT	F&S	III	-	NLHP15.1			
CO 2,CO 3,CO 4,CO 7	Examine, diagnose and plan the management of child with Amavata.			PSY- GUD	МК	SH	D-BED, CBL	P-CASE,C HK,Mini- CEX	F&S	III	-	NLHP15.2	
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CO 2,CO 3,CO 4	Demonstarte the case history of Rheumatology and explain nidana panchaka			PSY- GUD	МК	SH	CBL,C D,D- BED	P-CASE,C HK,Mini- CEX	F&S	III	-	NLHP15.3	
Non Le	Non Lecture Hour Theory												
S.No	Name of Activity Desc				Theory A	Activity							
NLHT 1	5.1	Referral criteria & Pathya in Rheumatological disorders.	Duration : 1 hour         Pre-Preparation:         By the Teacher:         1. Dividing the class into groups one week prior to the activity. Guide the students about references         2. Preparation of Case Vignette         3. Assign one/two case to each group one week prior to the class activity         By the Student: Students are expected to study available literature prior to class.         Activity: Students are expected to-         1. Diagnose the case         2. Interpret the investigations         3. Explain referral criteria         4. Explain Ahara for all stages of the disease if any.         5. Explain vihara for all stages of the disease if any.										
NLHT 1	.5.2	Integrated treatment for Rheumatological Disorders	Duration: 1 hour Pre-Preparation: By the Teacher:										

1	
	1. Dividing the class into groups one week prior to the activity.
	2. Provide references on the integrated approach through PPT/Handouts/pre-recorded videos.
	By the Student:
	1. Students are expected to study literature prior to class.
	2. Collect and study scientific articles on the topic.
	Activity: Students are expected to-
	1. Discuss the scope of Ayurveda and complementary medicine in the treatment of Sandhigata Roga in
	children.
	2. Discuss recent advances in Ayurveda & other systems
	3. Present new research points available from the journals and analyse them.
	4. Build a stage-wise protocol (mind mapping)
	5. Discuss the advantages and limitations of the treatments
	6. Discuss the availability of medicine and duration of treatment aspects in all system
	7. Each group present their findings.
	8. Teacher summarises the key points on the integrated approach.

#### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 15.1	Kriya Krama in Rheumatological disorders	Description of Fractical Activity         Duration: 1 Hour         Pre-preparation:         By the Teacher:         1. Identifying Kriyakrama used in Rheumatological disorders         2. Scheduling the demonstration and arranging the patient.         By the Student: Students are expected to study the disease and its management in detail prior to the Activity.
		<ul> <li>Activity:</li> <li>1. Teacher/therapist demonstrates the kriyakrama on the patient.</li> <li>2. Students are expected to observe –</li> <li>A. Pre-procedure (Handwashing, Wearing Cap/gloves/mask, Collecting the ingredients and equipment, preparation of medicine, getting consent, fitness certificate if required, counseling the patient and</li> </ul>

		<ul><li>caretaker)</li><li>B. Procedure (Technique of procedure, communication with the patient and caretaker)</li><li>C. Post-procedure (Explaining the Do's and Don't to follow)</li><li>3. Assignment: Students are asked to write the mode of action/Samprapti Vigatana of the procedure)</li></ul>
NLHP 15.2	Case Discussion: Amavata	Duration: 3 Hours         Pre-Preparation:         By the Teacher: Divide the class into groups (5-8/group) assign 1/2 real case/simulated case/case vignette (different presentation of Amavata)         By the Student: Student is expected come prepared with the knowledge of Nidanapanchaka and Chikitsa of diseases Amavata.         Activity: Student gather in group and build the case         Bedside (in real case)         1. Rapport building         2. History taking         3. Clinical Examination (General & Joint Examination)         Clinical classroom:         1. Students will discuss Samprapti Ghatakas of given case of Amavata.         2. Plan the management and justify Samprapti Vigatana         3. Students are asked to present different cases/ parts of a case (e.g. History, Examination, Differential Diagnosis, Investigations, Management)         4. Teacher has to facilitate discussion to clear doubts of students.         5. Explain the care plan, Ahara and Vihara to parent/ guardian with a help of Role Play         6. Students will record the case in record book.         Role of a teacher: Facilitate group discussion and evaluate the student using a checklist.         Checklist: Yes/No         1. Rapport building established         2. Record history precisely.         3. Performs/explain General and specific examination         4. Interprets investigation report accurately.         5. Justifies differential diagnosi

		6. Accurately diagnose the case and explain the Avastha
		7. Plans the treatment protocol and justifies the Samprapti Vigatana
		8. Plans the Ahara Vihara efficiently.
		9. Explains the prognosis of diseases and treatment effectively.
NLHP 15.3	Nidanapnachaka of Rheumatological disorders	Duration: 1 Hour
		Pre-preparation
		By the teacher:
		1. Scheduling the case taking and arranging the case (Real Patient / simulated patient/ Hypothesised Case)
		2. Make the student understand the OPD/IPD manners during case-taking
		By the student:
		1. Students are expected to come prepared with history taking & the content of Nidana Panchaka of Rheumatological disorders
		2. Rapport building, proper history taking, Nidana Panchaka finding in the given patient
		3. Present their views in clinical classroom discussion
		Activity:
		In clinical classroom: Students are divided in groups (5-8 members in one group) and sent to OPD/IPD
		for Bedside - Case taking
		Bedside: (in real case)
		1. Building rapport with patient
		2. History taking
		In the clinical classroom
		1. Students discuss the case in group
		2. Frame the Nidana Panchaka and Samprapti Gatakas.
		3. Present the history, examination finding and interpret the investigation reports.
		3. Presents the Nidana Panchaka and Samprapti Gatakas to the class.
		4. Teachers summarise the key points.
Topic 16 Twa	k Rogas (Dermatological Disorders) (LH :3 N	LUNCHI I I I I I I I I I I I I I I I I I I

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 2,CO 3,CO 6	Enumerate Twak Rogas in Children. Diagnose and plan Chikitsa for Kushta.	CE	МК	КН	L&PPT ,L_VC, TUT	PM, C- VC,T-CS	F&S	III	V-AT	LH
CO 2,CO 3,CO 6	Diagnose and plan Chikitsa for Visarpa and Charmadala.	CE	МК	КН	L_VC,L &PPT ,TUT	PM,T-CS, C-VC	F&S	III	-	LH
CO 2,CO 3,CO 4,CO 6	Examine, diagnose and plan the management of Kusta/ Charmadala/ Visarpa. Identify the referral Criteria for Twak Rogas	PSY- GUD	МК	SH	SIM,CB L,D- BED	P- CASE,CH K	F&S	III	-	NLHP16.1
CO 2,CO 3,CO 6	Diagnose and plan Chikitsa for Arumshika.	CE	МК	КН	DIS,L& PPT	C-VC,PM	F&S	III	-	NLHT16.1
CO 2,CO 4,CO 6	Communicate the plan of Ahara and Vihara for Twak Rogas to caregivers.	AFT- RES	МК	SH	RP,SIM	CHK,RS,P- RP	F&S	III	-	NLHT16.2
CO 2,CO 3,CO 6	Describe etiopathogenesis, clinical features, complications and management of Scabies and Eczema.	СК	МК	K	ML,L& PPT ,TUT	C-VC,T- CS	F&S	III	-	LH
СО	Diagnose and plan the management of Erythema Toxicum	CE	DK	KH	ML,L_	C-VC,O-G	F&S	III	-	LH

2,CO 3,CO 6	Neonato Seborrh	orum, Adenoma Sebaceum, Cutis Marmorata and eic Dermatitis.					VC,L& PPT	AME,T-CS				
CO 2,CO 3	<ul> <li>CO</li> <li>Enlist Oushadha Yoga used in the Twak Roga. Enlist ingredients</li> <li>and indications of at least two Samanya Oushadha Yoga and two</li> <li>Vishesha (condition-specific) Oushadha Yoga used in Twak Roga</li> <li>and analyze Samprapthi Vighatana.</li> </ul>			СК	МК	КН	TBL,L &GD,D IS	INT,P- ID,WP	F&S	III	-	NLHT16.3
COPerceive two Kriyakrama (Procedure based therapy) used in the management of Twak Roga and analyze the Samprapti Vighatana7,CO8			n the hatana.	PSY- SET	МК	КН	D,D- BED	INT,CHK	F&S	III	-	NLHP16.2
Non Lo	Non Lecture Hour Theory											
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
S.No       Name of Activity       Description of Theory Activity         NLHT 16.1       Case Discussion: Arumshika       Duration: 20 Minutes         Pre-preparation       By the Teacher: Introduces the topic covering the prevalence of the disease Arumshika and its Nidana Panchaka and Chikitsa [ PPT/ Handouts or Video].         By the Student: Expected to come prepared with a detailed Knowledge of Arumshika Activity:       1. The teacher will lead the discussion, incorporating key points and utilizing images, * Power Point presentation.         2. Discuss on Different presentation.       2. Discuss on Different presentation.         3. Discuss Differential diagnosis of Arumshika in children       3. Discuss of Arumshika         6. Management and different medications and their application       Role of teacher:         Facilitate the discussion with required inputs.       Facilitate the discussion with required inputs.						umshika i nshika. nages, vide	n children eos or a					

		Students are evaluated using Clinical Video Cases.
NLHT 16.2	Pathya in Twak Roga.	Duration: 40 Minutes         Pre-preparation:         By the teacher: Divide the group and assign the topic/Case one week before the session         By the Student:         1. Frame the Ahara and Vihara Chart for Twak Roga         2. Writes the script and validate it before the class         Script contains         A. Name of the student: Role played by the student         B. Script dialogues         C. Using of Manikins/task trainers wherever necessary         Activity: (Clinical classroom/class)         1. Faculty introduce the topic         2. Groups execute the role play         3. Discussions on points to be highlighted         A. Ahara in different Twak Roga         B. Vihara in different Twak Roga
NLHT 16.3	Oushadha Yogas used in Twak Roga	Duration: 1 Hour         Pre-Preparation:         By the teacher:         1. The teacher will give an overview of the formulations used in Twak Roga 1 week before the session.         2. Select any two relevant formulations used in Twak Roga, which are referenced in Ayurveda         Classical Texts and are frequently used by practitioners of the respective state/ region.         By the student:         1. Students are expected to come with knowledge of the Management of Twak Roga.         2. Collect the references of Oushadha Yoga used in the Twak Roga from various Samhitas.         Activity:         1. Students enlist Oushadha Yoga used in the Twak Roga from various Samhitas

	<ol> <li>2. Enlist two Samanya Oushadha Yoga and two Vishesha (condition-specific) Oushadha Yoga used in Twak Roga by the teacher</li> <li>3. Explain the Sloka word-by-word and highlight key terms.</li> <li>4. Discuss the conceptual meaning and interpretation.</li> <li>5. Explain Practical relevance.</li> <li>6. Encourage questions and participant involvement.</li> <li>7. Analyze the role of formulation in Samprati Vighatana</li> <li>8. Analyze the practical application of the formulations in multiple disease conditions.</li> <li>9. Cross-reference with related Sloka or commentaries.</li> </ol>
	9. Cross-reference with related Sloka or commentaries.
	Role of Teacher: Ensure proper pronunciation and understanding of appropriate meaning.

# Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 16.1	Case Discussion: Kusta/ Charmadala/ Visarpa.	Duration: 2 Hours
		Pre - Preparation:
		By the teacher:
		1. Schedule and ensure the availability of real/ simulated cases/ Case vignettes of Kusta/ Charmadala/
		Visarpa
		2. Students are divided into groups (5-8 members in one group) and assigned a case.
		3. Make the student understand the OPD/IPD manners during case-taking
		4. Preparing the checklist for the concerned activity.
		By the student: The student is expected to come prepared with the knowledge of Nidanapanchaka and
		Chikitsa of diseases Kusta/ Charmadala/ Visarpa.
		Activity
		In the clinical classroom: Assign one case to each group Kusta/ Charmadala/ Visarpa (real case/
		simulated case)
		Bedside: Case taking as per the protocol (in real case)
		A. Rapport building
		B. History taking
		C. Clinical Examination (General & Skin and integumentary system)

		Back in the 1. Students w 2. Students a Diagnosis, Ir 3. Plan the m 4. Role play 5. Teacher op 6. Record the	linical cla ill discuss e asked to vestigation magement Explain the ens the dis case in the	stroom: Samprapt present di s, Manag and justif e care pla cussion o record b	i Gh affere emen y Sa n, A n ref pok.	natakas of rent cases/ ant) amprapti V Ahara-Viha ferral Crite	the given case parts of a cas Vighatana ara and progn eria for Twak	e of Kusta/ e (e.g. Hist osis to the Rogas	′ Charma tory, Ex parent/	adala/ Visa amination guardian	arpa. , Differential
NLHP 16.2	Kriyakramas (Procedure-based therapy) in Twak Roga.	Duration: 1 Pre-Prepara By the Teach 1. Identify tw Ayurveda Cl 2. Scheduling By the Stude Activity. Activity: 1. The teache 2. Students a A. Pre-proce Collecting th if required, c B. Procedure C. Post-proce 3. Discuss th 4. Record the	Hour ion: er: o Kriyakra ssical Tex the demon t: Students c/therapist e expected ure specifies ingredien ounselling (Techniqu dure specifies mode of a procedure	ma (proce s and are astration a s are expe demonstra to observ c to the p ts and equ he patien e of proce fic to proce ction (Sa	edur freq ind <i>a</i> cted ates <i>c</i> = roce iipm t and dure edur mpra	re-based th quently use arranging l to study ' the kriyak edure (like nent, prepa d caretake e, commun re and exp rapti Vigha	erapy) used in ed by practition the patient/ m Twak Roga an trana on the p Handwashing aration of med r) nication with plain the Do's atana) of the p	n Twak Ro oners of the anikin. nd its mana patient/man g, Wearing licine, getti the patient and Don't procedure	oga that e respec agement nikin. g Cap/gl ing cons and car to follo	are referre tive state/ in detail t oves/mask sent, fitnes etaker) w.	ed to in region. before the c if needed, as certificate
Topic 17 Sir	ra Snayu Rogas (Nervous system disorders) (LH	[ :7 NLHT: 3	NLHP: 9	)							
A3	B3	C3	D3	E3		F3	G3	Н3	<b>I</b> 3	K3	L3

CO 2,CO 3,CO 6	Explain Nidana Lakshana & Chikitsa of Jalasheershaka. Describe etiopathogenesis, classification, clinical features, complications and management of Hydrocephalus.	CC	МК	К	L_VC,L RI,L&P PT	T-CS, C- VC,INT	F&S	III	-	LH
CO 2,CO 3,CO 4	Diagnose and plan the management for a case of Jalasheershaka (Hydrocephalus).	CE	МК	КН	SIM,D, CBL	CHK,RS,P- CASE,SP	F&S	III	-	NLHT17.1
CO 2,CO 3,CO 6	Diagnose and plan Chikitsa of Apasmara.	CE	МК	КН	CD,L& GD,L_ VC	C-VC,T- CS	F&S	III	-	LH
CO 2,CO 3	Analyse the concept of Skanda Apasmara with epilepsy.	CAN	NK	КН	L&GD, BS,DIS	INT,CR- RED,CR-W	F	III	-	LH
CO 2,CO 3	Describe etiopathogenesis, clinical features, complications and management of Febrile Seizures in children. Define Epilepsy. Describe the pathogenesis, types, clinical features, diagnosis and management of Epilepsy in children.	СК	МК	K	L&PPT ,L_VC, LRI	T-CS, C- VC	F&S	III	-	LH
CO 2,CO 3,CO 4,CO 7	Examine and plan the management for a case of Apasmara.	PSY- GUD	МК	SH	D-BED, CBL,SI M	P-CASE,C HK,SP	F&S	Ш	-	NLHP17.1
CO 2,CO 3	Enumerate the causes of floppiness in an infant and discuss the differential diagnosis and management.	CC	DK	K	L_VC,B S,L&G D	INT,T-CS	F&S	III	-	LH

CO 2,CO 3	Describe etiopathogenesis, clinical features and management of Ataxia in children.	СК	МК	K	L_VC,L &PPT	C-VC,PM, T-CS	F&S	III	-	LH
CO 2,CO 3	Define Cerebral Palsy. Describe the etiology, types, clinical features, diagnosis and management of a child with Cerebral Palsy.	СК	МК	К	L&PPT ,TUT,L _VC	C-VC,T-C S,O-GAME	F&S	III	-	LH
CO 2,CO 3,CO 4,CO 7	Examine and plan the management for a case of Cerebral palsy.	PSY- GUD	МК	SH	D-BED, CBL,SI M	CHK,SP,P- CASE	F&S	Ш	-	NLHP17.2
CO 2,CO 3	Describe the classification, clinical features and management of Communication Disorders.	СК	МК	K	L&PPT ,TUT,L _VC	T-CS,PM, C-VC	F&S	III	-	LH
CO 2,CO 3,CO 4,CO 7	Diagnose and plan the management for a case of Communication Disorders.	CE	МК	SH	CBL,D- BED,SI M	SP,P-PS,C HK,RS	F&S	III	-	NLHT17.2
CO 4,CO 6,CO 8	Communicate the plan of Ahara and Vihara for Neurological Disorders to the caregivers.	AFT- RES	МК	SH	SIM,RP	RS,P- RP,CHK	F&S	III	-	NLHT17.3
CO 2,CO 3	Enlist the Oushadha Yogas used in Neurological Disorders. Enlist the ingredients and indications of at least two Samanya Oushadha Yoga and two Vishesha (condition-specific) Yogas used for Neurological Disorders and analyze their role in Samprapti Vighatana, Identify the referral criteria in Neurological	СК	МК	K	L&GD, BS,DIS	O-GAME,I NT,WP	F&S	III	-	NLHT17.4

	Disorders.										
CO 2,CO 3,CO 7,CO 8	Perceive two Kriyakramas (Procedure-based therapy) used in the management of Neurological Disorders in children and analyse the Samprapti Vighatana.	PSY- SET	МК	КН	D-M,D, D-BED	DOPS,DOP S	F&S	Ш	-	NLHP17.3	
Non Lecture Hour Theory											

S.No	Name of Activity	Description of Theory Activity
NLHT 17.1	Jalasheershaka (Hydrocephalus)	<ul> <li>Pre-preparation</li> <li>By the Teacher:</li> <li>1. Schedule and give simulated cases/case vignettes of Jalasheershaka (Hydrocephalus).</li> <li>2. Students are divided into groups (5-8 members in one group) and assign cases with different presentations of Jalasheershaka (Hydrocephalus) to each group</li> <li>By the Student: The student is expected to come prepared with the knowledge of etiopathology, types, clinical features and management of the disease Jalasheershaka (Hydrocephalus).</li> <li>Activity in the classroom: Group Discussion - 1 hour</li> <li>1. Teacher gives a brief introduction of Jalasheershaka (Hydrocephalus)</li> <li>2. Students gather in assigned groups</li> <li>3. Develop the case as per the protocol with a complete history and clinical examination</li> <li>4. Discuss Samprapti Ghatakas of a given case of Jalasheershaka</li> <li>5. Plan the management and with Samprapti Vighatana</li> <li>Presentation - 1 hour</li> <li>1. Students are asked to present different cases/ parts of a case (e.g. History, Examination, Differential Diagnosis, Investigations, Management)</li> <li>2. Explain the management plan and justify the Samprapti Vigatana.</li> <li>3. ROLE-PLAY - Explain the care plan, Ahara-Vihara, and prognosis to the parent/ guardian</li> <li>4. Record the case in the record book.</li> <li>5. Teacher summarizes the key points on the management of Jalasheershaka (Hydrocephalus).</li> </ul>

NLHT 17.2	Communication Disorders.	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation</li> <li>By the Teacher: <ol> <li>Schedule and give simulated cases/case vignette of Communication Disorder.</li> <li>Students are divided into groups (5-8 members in one group) and assign cases with different presentations of Communication Disorder to each group</li> <li>By the Student: The student is expected to come prepared with the knowledge of etiopathology, types, clinical features and management of disease Communication Disorders.</li> <li>Activity in the classroom</li> <li>Students gather in assigned groups</li> <li>Develop the case as per the protocol with a complete history and clinical examination</li> <li>Discuss Samprapti Ghatakas of a given case of Communication Disorder</li> <li>Plan the management and with Samprapti Vighatana</li> <li>Each group present different cases/ parts of a case (e.g. History, Examination, Differential Diagnosis, Investigations, Management)</li> <li>Explain the management plan and justify the Samprapti Vigatana.</li> <li>Explain the case in the record book.</li> </ol></li></ul>
NLHT 17.3	Pathya in Neurological Disorders.	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation:</li> <li>By the teacher: Divide the students into groups and assign the topic one week before the session</li> <li>By the Student: <ol> <li>Frame the Ahara and Vihara Chart for Neurological Disorders.</li> <li>Writes the script and validate it before the class</li> <li>Script contains</li> <li>Name of the student: Role played by the student</li> <li>Script dialogues (in local langugae/ esay to understand dialogues)</li> <li>Using of Manikins/task trainers wherever necessary</li> </ol> </li> <li>Activity: (Clinical classroom/class) <ol> <li>Faculty introduce the topic</li> </ol> </li> </ul>

		2. Groups execute the role play
		3. Discussions on points to be highlighted
		A. Ahara in different Neurological Disorders
		B. Vihara in different Neurological Disorders.
NLHT 17.4	Oushadha Yogas used in Neurological Disorders.	Duration: 1 Hour
		Pre-Preparation:
		By the teacher:
		1. The teacher will give an overview of formulations used in Neurological Disorders along with their rationale
		2 Select the relevant 2 formulations used in Neurological Disorders, which have a reference in
		Avurveda Classical Texts and are frequently used by practitioners of the respective state/region
		Ry the student:
		1 Students are expected to come with the knowledge of Management of Neurological Disorders
		2 Collect the references of Oushadba Vogas used in Neurological Disorders.
		A ctivity.
		1 Enlist the Oushadha Yogas used in Neurological Disorders by the students mentioned in different
		Samhitas
		2. Enlist the two Samanya Oushadha Yoga and two Vishesha (condition-specific) Yogas used for
		Neurological Disorders by the teacher
		3. Explain the Sloka word-by-word and highlight key terms.
		4. Discuss the conceptual meaning and interpretation.
		5. Explain Practical relevance.
		6. Encourage questions and participant involvement.
		7. Analyze the Samprapti Vighatana
		8. Analyze the practical application of the formulations in multiple disease conditions.
		9. Discuss the referral criteria in Neurological Disorders.
Non Lecture H	lour Practical	
S.No	Name of Practical	Description of Practical Activity

NLHP 17.1	Case Discussion: Apasmara.	Duration: 3 Hours         Preparation:         By the teacher:         1. Schedule and ensure the availability of real/simulated case/case vignette of Apasmara (different tyeps of Apasmara)         2. Students are divided into groups (5-8 members in one group) and assigned a case.         3. Make the student understand the OPD/IPD manners during case-taking         By the student: The student is expected to come prepared with the knowledge of Nidanapanchaka and Chikitsa of the disease Apasmara.         Activity         In the clinical classroom: Assign 1/2 real case/ simulated case/Case Vignette of Apasmara to each group         Bedside: Case taking as per the protocol(real case)         A. Rapport building         B. History taking         C. Clinical Examination         Back in the clinical classroom:         1. Students will discuss Samprapti Ghatakas of a given case of Apasmara.         2. Students are asked to present entire cases/ parts of a case (e.g. History, Examination, Differential Diagnosis, Investigations, Management)         3. Explain the management and justify Samprapti Vighatana         4. ROLE-PLAY - Explain the care plan, Ahara-Vihara and prognosis to the parent/ guardian         5. Record the case in the record book.
NLHP 17.2	Case Discussion: Cerebral palsy	Duration: 3 Hours         Preparation:         By the teacher:         1. Schedule and ensure the availability of real/simulated cases/case vignette of Cerebral Palsy         (Different types of Cerebral Palsy)         2. Students are divided into groups (5-8 members in one group) and assigned a case.         3. Make the student understand the OPD/IPD manners during case-taking

		<ul> <li>4. Preparing the checklist for the concerned activity.</li> <li>By the student: The student is expected to come prepared with the knowledge of Nidanapanchaka and Chikitsa of diseases Cerebral Palsy.</li> <li>Activity <ul> <li>In the clinical classroom: Assign 1/2 real case/ simulated case/case vignette of Cerebral Palsy to each group</li> <li>Bedside: Case taking as per the protocol (in real case)</li> <li>A. Rapport building</li> <li>B. History taking</li> <li>C. Clinical Examination</li> <li>Back in the clinical classroom:</li> </ul> </li> <li>1. Students will discuss Samprapti Ghatakas of a given case of Cerebral Palsy.</li> <li>2. Students are asked to present different cases/ parts of a case (e.g. History, Examination, Differential Diagnosis, Investigations, Management)</li> <li>3. Explain the management and justify Samprapti Vighatana</li> <li>4. ROLE-PLAY - Explain the care plan, Ahara-Vihara and prognosis to the parent/ guardian</li> <li>5. Record the case in the record book.</li> </ul>
NLHP 17.3	Kriyakramas (Procedure-based therapy) in Neurological Disorders in Children	Duration: 3 Hour         Pre-Preparation:         By the Teacher:         1. Identify two Kriyakramas (Procedure-based therapy) used in Neurological Disorders in children that have a reference in Ayurveda Classical Texts and are frequently used by practitioners of the respective state/ region.         2. Scheduling the demonstration and arranging the patient/ Simulator.         By the Student: Students are expected to study Neurological Disorders in children and their management in detail before the Activity.         Activity:         1. The teacher/therapist demonstrates the Kriyakrama to the patient.         2. Students are expected to observe –         A. Pre-procedure specific to the procedure (like Handwashing, Wearing Cap/gloves/mask if needed,

	<ul> <li>Collecting the ingredients and equipment, preparation of medicine, getting consent, fitness certificate if required, counselling the patient and caretaker)</li> <li>Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>Post-procedure specific to procedure and explain the Do's and Dont's to follow.</li> <li>Discuss mode of action/Samprapti Vigatana of the procedure</li> <li>Discuss the complementary approach.</li> <li>Record the Procedure.</li> </ul>
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### Topic 18 Unmada Rogas (Behavioral and Neurobehavioral disorders) (LH :3 NLHT: 4 NLHP: 9)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 2,CO 3	Diagnosis and management of Bala Unmada.	CE	МК	КН	CD,L& PPT ,DIS	C-VC,T- CS	F&S	III	-	LH
CO 2,CO 3	Enlist Behavioural and Neurobehavioral Disorders in Children. Describe the aetiology, clinical features, diagnosis and management of a child with Autism Spectrum Disorders (ASD).	СК	МК	K	DIS,ML ,L&PPT	O-GAME, C-VC,T-CS	F&S	III	-	LH
CO 2,CO 3	Diagnosis and management of Buddhi Mandya.	CE	DK	КН	BS,L& GD,DIS	T-CS, C- VC	F&S	III	-	LH
CO 2,CO 3,CO 8	Describe the etiology, clinical features, diagnosis and management of a child with Intellectual Disability (Mental retardation). Describe the types, clinical features, diagnosis and management of a child with Learning Disability and Scholastic Backwardness.	СК	МК	Κ	L&PPT ,BS,DIS	C-VC,O-G AME,T-CS	F&S	Ш	-	LH
CO 2,CO 3,CO	Describe the etiology, clinical features, diagnosis and management of a child with Attention Deficit Hyperactivity Disorder (ADHD). Describe the diagnosis and management of a	СК	МК	K	CD,L& PPT ,L_VC	T-CS, C- VC,PUZ	F&S	III	-	LH

8	child with Temper Tantrums and Breath-holding spells.									
CO 2,CO 3,CO 4,CO 7	Demonstrate the skill in diagnosis and management of ASD/ ADHD/ Intellectual Disability/ Learning Disability.	PSY- GUD	МК	SH	D-BED, CBL,SI M	CWS ,CHK ,P-CASE	F&S	III	-	NLHP18.1
CO 2,CO 3	Explain the etiology, types, clinical features, diagnosis and management of a child with Shayyamutra (Enuresis), Mritbhakshana (Pica) and Thumbsucking.	CC	МК	K	FC,CBL ,BL	C-VC,CH K,PM	F&S	III	-	NLHT18.1
CO 2,CO 3,CO 4,CO 7	Demonstrate the skill in diagnosis and management of Shayyamutra/ Breath-holding spells. Discuss the referral criteria for Neurobehavioural Disorders.	PSY- GUD	МК	SH	CBL,D- BED,SI M	CWS ,P- CASE,CH K	F&S	III	-	NLHP18.2
CO 2,CO 3,CO 8	Predict the multidisciplinary approach in children with Behavioural and Neurobehavioral Disorders.	САР	МК	КН	CBL,FC ,DIS	CL-PR,CH K,QZ	F	III	-	NLHT18.2
CO 3,CO 8	Explain Integrated Child Development Centre (ICDC).	CC	MK	KH	RLE,FV	CR-W,RK	F	III	-	NLHP18.3
CO 4,CO 6,CO 8	Plan and Explain the Ahara and Vihara for Behavioral and Neurobehavioral Disorders.	AFT- RES	МК	SH	SIM,RP	CHK,P- RP,RS	F&S	III	-	NLHT18.3
CO 2,CO	Enlist the Oushadha Yogas used in the Behavioural and Neurobehavioural Disorders. Enlist the ingredients and	CAN	MK	K	DIS,L	WP,QZ	F&S	III	-	NLHT18.4

3	indicatio Vishesh Neurobe Vighata	ons of at least two Samanya Oushadha Yoga and two a (condition-specific) Yogas used for Behavioral an ehavioral Disorders and analyze their role in Sampra na.	o d apti										
CO 2,CO 3,CO 4,CO 7	COPerceive two Kriyakrama (Procedure-based therapy) used in the2,COmanagement of Behavioral and Neurobehavioral Disorders and3,COAnalyse the Samprapti Vighatana for Behavioral and4,CONeurobehavioral Disorders.77			PSY- SET	МК	КН	D	DOPS,DOP S	F&S	III	-	NLHP18.4	
Non Le	ecture H	lour Theory											
S.No	No Name of Activity Description of Theory Activity												
NLHT	18.1	Shayyamutra (Enuresis), Breath Holding Spells, Mritbhakshana (Pica) and Thumbsucking.	<ul> <li>Jescription of Theory Activity</li> <li>Duration: 1 Hour</li> <li>Pre- Preparation:</li> <li>By the teacher:</li> <li>1.Provide resource material on Shayyamutra (Enuresis), Breath Holding Spells, Mritbhakshana (Pica and Thumbsucking (PPT/Tutorial video/Handouts)</li> <li>2.Divide the students into group(8-10 students)</li> <li>3. Assign one case to each group</li> <li>By the Student: Expected to study the resource material and apply it to solve the case.</li> <li>Activity</li> <li>1. Students assemble in assigned groups</li> <li>2. Group discussion on assigned case -10 mins</li> <li>3. Students are expected to –</li> <li>1. Brief about the disease from the resource material</li> <li>2. Identify the symptoms</li> <li>3. Identify the etiology</li> <li>4. Diagnose the case and identify the type.</li> <li>5. Plan the Samprati</li> <li>6. Design the management plan</li> </ul>							shana (Pica)			

		6. Justify the treatment plan.
NLHT 18.2	Multidisciplinary approach in Behavioural and Neurobehavioral Disorder	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation</li> <li>By the Teacher: <ol> <li>Divide the students in groups (5 to 8 students each) and assign different cases of Behavioural and Neurobehavioral Disorders.</li> <li>Provide the references of multidisciplinary approach in Behavioural and Neurobehavioral Disorders.</li> <li>By the Student: <ol> <li>Students are expected to come prepared with different multidisciplinary management approaches in children with Behavioural and Neurobehavioral Disorders.</li> <li>Understand the case assigned and apply the multidisciplinary approach.</li> </ol> </li> <li>Activity: <ol> <li>Students assemble in groups</li> <li>Group Discussion 10 mins</li> <li>One of the group member presents the following</li> <li>Explain the status of the child in brief</li> <li>Point out the required multidisciplinary integration for the management of the child based on present status.</li> <li>Frame a multidisciplinary management protocol.</li> <li>Explain the mode of action of all disciplines and the pivotal role of Ayurveda in the management of present behavioral disorders.</li> </ol> </li> </ol></li></ul>
NLHT 18.3	Pathya Behavioral and Neurobehavioral Disorders	<ul> <li>Duration: 1 Hour</li> <li>Pre-preparation:</li> <li>By the teacher: Divide the group and assign the topic well in advance</li> <li>By the Student:</li> <li>1. Frame the Ahara and Vihara Chart for Neurological Disorders.</li> <li>2. Writes the script and validate it before the class</li> <li>Script contains</li> </ul>

		<ul> <li>A. Name of the student: Role played by the student</li> <li>B. Script dialogues</li> <li>C. Using of Manikins/task trainers wherever necessary</li> <li>Activity: (Clinical classroom/class)</li> <li>1. Faculty introduce the topic</li> <li>2. Groups execute the role play</li> <li>3. Discussions on points to be highlighted</li> <li>A. Ahara in different Behavioral and Neurobehavioral disorders</li> <li>B. Vihara in different Behavioral and Neurobehavioral disorders</li> <li>B. Vihara in different Behavioral and Neurobehavioral disorders</li> <li>Role of the faculty during activity: The teacher evaluates the students using a rating scale/checklist and provides feedback and inputs based on their performance.</li> <li>Rating scale</li> <li>1. Clarity of explanation - 1 (Poor) to 5 (Excellent)</li> <li>2. Demonstrates empathy and understanding of the patient's emotional state - 1 (Poor) to 5 (Excellent)</li> <li>3. Uses understandable words for explaining Ahara and Vihara - 1 (Poor) to 5 (Excellent)</li> <li>4. Actively engages the patient, allowing for questions and checking the reception of information - 1 (Poor) to 5 (Excellent)</li> <li>5. Maintains appropriate eye contact throughout the interaction - 1 (Poor) to 5 (Excellent)</li> <li>6. Displays open and approachable body language - 1 (Poor) to 5 (Excellent)</li> <li>7. Manages tone of voice to suit the context 1 (Poor) to 5 (Excellent)</li> <li>8. Maintains professionalism throughout the interaction - 1 (Poor) to 5 (Excellent)</li> </ul>
NLHT 18.4	Oushadha Yogas used in Behavioural and Neurobehavioural Disorders.	Duration: 1 Hour         Pre-Preparation:         By the teacher:         1. The teacher will give an overview of formulations used in Behavioural and Neurobehavioural Disorders along with their rationale.         2. Select two relevant formulations used in Behavioural and Neurobehavioural Disorders, which have a reference in Ayurveda Classical Texts and are frequently used by practitioners of the respective state/ region.         By the student:

	<ol> <li>Students are expected to come with the knowledge of Management of Behavioural and Neurobehavioural Disorders.</li> <li>Collect the reference of Oushadha Yogas used in the Behavioural and Neurobehavioural Disorders from various Samhita</li> <li>Activity:         <ol> <li>Enlist the Oushadha Yogas used in the Behavioural and Neurobehavioural Disorders by the students</li> <li>Enlist two Samanya Oushadha Yoga and two Vishesha (condition-specific) Yogas used for Behavioral and Neurobehavioral Disorders</li> <li>Group chanting of the full Sloka (at least 3 times).</li> <li>Explain the Sloka word-by-word and highlight key terms.</li> <li>Discuss the conceptual meaning and interpretation.</li> </ol> </li> </ol>
	1. Enlist the Oushadha Yogas used in the Behavioural and Neurobehavioural Disorders by the students
	2. Enlist two Samanya Oushadha Yoga and two Vishesha (condition-specific) Yogas used for
	Behavioral and Neurobehavioral Disorders
	3. Group chanting of the full Sloka (at least 3 times).
	4. Explain the Sloka word-by-word and highlight key terms.
	5. Discuss the conceptual meaning and interpretation.
	6. Explain Practical relevance.
	7. Encourage questions and participant involvement.
	8. Analyze the role of formulation in Samprapti Vighatana
	9. Analyze the practical application of the formulations in multiple disease conditions.
	Role of Teacher: Ensure proper pronunciation and understanding of appropriate meaning.

# Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 18.1	Case Discussion: ASD/ ADHD/ Intellectual	Duration: 3 Hours
	Disability/ Learning Disability	Pre - Preparation:
		By the teacher:
		1. Schedule and ensure the availability of real or simulated cases/ case vignettes of ASD/ ADHD/
		Intellectual Disability/ Learning Disability
		2. Students are divided into groups (5-8 members in one group) and assigned a case.
		3. Make the student understand the OPD/IPD manners during case-taking.
		By the student: The student is expected to come prepared with knowledge of Nidanapanchaka and
		Chikitsa for the diseases ASD/ ADHD/ Intellectual Disability/ Learning Disability.
		Activity
		In the clinical classroom: Assign a real/ simulated case/case vignette of ASD/ ADHD/ Intellectual

		<ul> <li>Disability/ Learning Disability to each group</li> <li>Bedside: Case taking as per the protocol (in real case)</li> <li>A. Rapport building</li> <li>B. History taking</li> <li>C. Clinical Examination</li> <li>Back in the clinical classroom: <ol> <li>Students will discuss Samprapti Ghatakas of a given case of ASD/ ADHD/ Intellectual Disability/</li> <li>Learning Disability.</li> <li>Students are asked to present different cases/ parts of a case (e.g. History, Examination, Differential Diagnosis, Investigations, Management)</li> <li>Explain the management and justify Samprapti Vighatana</li> <li>Roleplay - Explain the care plan, Ahara-Vihara and prognosis to the parent/ guardian</li> </ol> </li> </ul>
NLHP 18.2	Case Discussion: Shayyamutra (Enuresis)/ Breath- Holding Spells	<ul> <li>Duration: 3 Hours</li> <li>Preparation:</li> <li>By the teacher: <ol> <li>Schedule and ensure the availability of real/simulated cases/case vignette of Shayyamutra (Enuresis)/ Breath Holding Spells.</li> <li>Students are divided into groups (5-8 members in one group) and assigned a case.</li> <li>Make the student understand the OPD/IPD manners during case-taking</li> <li>By the student: The student is expected to come prepared with the knowledge of Nidanapanchaka and Chikitsa of diseases Shayyamutra (Enuresis)/ Breath Holding Spells.</li> <li>Activity</li> <li>In the clinical classroom: Assign real or simulated cases of Shayyamutra (Enuresis)/ Breath Holding Spells to each group</li> <li>Bedside: Case taking as per the protocol (in real case)</li> <li>A. Rapport building</li> <li>B. History taking</li> <li>C. Clinical Examination</li> <li>Back in the clinical classroom:</li> </ol> </li> </ul>

		<ol> <li>Students will discuss Samprapti Ghatakas of a given case of Shayyamutra (Enuresis)/ Breath Holding Spells.</li> <li>Students are asked to present different cases/ parts of a case (e.g. History, Examination, Differential Diagnosis, Investigations, Management)</li> <li>Explain the management and justify Samprapti Vighatana</li> <li>ROLE-PLAY - Explain the care plan, Ahara-Vihara and prognosis to the parent/ guardian</li> <li>Record the case in the record book.</li> <li>The teacher should discuss the referral criteria for Neurobehavioural Disorders.</li> </ol>
NLHP 18.3	Integrated Child Development Center	<ul> <li>Duration: 2 Hours</li> <li>Objective: To provide students with a comprehensive understanding of the function of the Integrated Child Development Centre (ICDC) and how various health, nutrition and stimulation activities are carried out in collaboration with different caregivers.</li> <li>Pre-Preparation:</li> <li>By the Teacher: The teacher has to identify the suitable ICDC for the visit and make necessary arrangements.</li> <li>By the Student: Students have to come prepared with different types of multidisciplinary interventions in a child with Behavioural and Neuro-Developmental Disorders of children.</li> <li>Activity</li> <li>1. Students should visit the identified ICDC and observe the ongoing interventions.</li> <li>2. The teacher assists in clarifying queries of the students or facilitates it by arranging interaction with the staff of ICDC.</li> <li>3. Each student will submit a brief report of the observations in ICDC and structured feedback. Evaluation: The teacher evaluates the student based on the report and feedback.</li> </ul>
NLHP 18.4	Kriyakramas (Procedure-based therapy) in Behavioural and Neurobehavioral Disorders.	Duration: 1 Hour Pre-Preparation: By the Teacher: 1. Identify two Kriyakrama (procedure-based therapy) used in Behavioural and Neurobehavioral Disorders, which are referenced in Ayurveda classical texts and frequently used by practitioners of the

	<ul> <li>respective state/ region.</li> <li>2. Scheduling the demonstration and arranging the patient/ Simulator.</li> <li>By the Student: Students are expected to study Behavioural and Neurobehavioral Disorders and their management in detail before the Activity.</li> <li>Activity: <ol> <li>The teacher/ therapist demonstrates the Kriyakrama to the patient.</li> <li>Students are expected to observe –</li> <li>Pre-procedure specific to the procedure (like Handwashing, Wearing Cap/gloves/mask if needed, Collecting the ingredients and equipment, preparation of medicine, getting consent, fitness certificate if required, counseling the patient and caretaker)</li> <li>Procedure (Technique of procedure, communication with the patient and caretaker)</li> <li>Post-procedure specific to the procedure and explain the Do's and Don't to follow.</li> <li>Assignment: Write the mode of action/ Samprapti Vighatana of the procedure</li> </ol> </li> </ul>
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## Topic 19 Atyayika Rogas (Emergency Paediatrics) (LH :3 NLHT: 2 NLHP: 3)

A3	B3	C3	D3	E3	<b>F3</b>	G3	Н3	<b>I</b> 3	K3	L3
CO 2,CO 3	Define Status Epilepticus and describe the symptoms and management of Status Epilepticus.	СК	MK	К	CD,L& PPT ,L_VC	T-CS,PM, C-VC	F&S	III	-	LH
CO 2,CO 3	Describe the symptoms and management of Acute Breathlessness, Cardiorespiratory Arrest and Foreign Body in Respiratory Tract.	СК	МК	K	L_VC,C D,L&PP T	PM, C- VC,T-CS	F&S	III	-	LH
CO 2,CO 3	Describe the symptoms and management of Poisoning and Insect bites.	СК	MK	К	CD,L_V C,L&G D	PM, C- VC,PUZ	F&S	III	-	LH
CO 2,CO	Describe the symptoms and management of Shock in children.	СК	МК	K	CD,L& PPT	T-CS,O- QZ,PM	F	III	-	LH

3							,L_VC					
CO 2,CO 3	Apply t emerge	he fluid resuscitation methods and techniques in pae- ncies.	diatric	CAP	DK	KH	PBL,FC ,D	O-GAME, CHK,PM	F&S	III	-	NLHT19.1
CO 2,CO 4,CO 7	Demon trainers	strate the procedure of IV cannulation on pediatric ta	ısk	PSY- GUD	DK	SH	RP,W,D- M	CHK,DOP S,RS,DOPS	F&S	III	-	NLHP19.1
CO 2,CO 7,CO 8	Demon	strate the steps to revive an unconscious child.		PSY- GUD	DK	SH	RP,SIM ,W,D-M	CHK,DOP S,DOPS,RS	F&S	III	-	NLHP19.2
CO 2,CO 3	Prepare medicat	for the administration of nebulization and per rectal ions used in paediatric practice.		CAP	DK	KH	EDU,F C,GBL	CHK,O- GAME,RS	F&S	III	-	NLHT19.2
CO 2,CO 3	Identify	life-saving medications and enlist their indication.		САР	DK	К	EDU,F C,GBL	O-GAME, CHK,RS	F	III	-	NLHP19.3
Non Lo	ecture H	lour Theory								-		
S.No		Name of Activity	Description of Theory Activity									
NLHT	19.1	Fluid resuscitation methods and techniques.	Duration – 1 hour         Pre-Preparation         By the Teacher         1. Preparing the resource material on fluid resuscitation methods and techniques in paediatric emergencies (PPT/Videos/Handouts)         2. Manikin/real patient, Instruments, and equipment to demonstrate         By the student: Study the resource material provided thoroughly.									

		<ul> <li>Activity:</li> <li>1. Dividing the class into small groups for edutainment</li> <li>2. Faculty displays a case vignette (which includes assessment of fluid status and weight measurement) at each round of the game with varying difficulty.</li> <li>3. Student is expected to select the Type of fluid and plan the dose.</li> <li>4. Demonstration of the fluid resuscitation technique on manikin or real patient by the faculty.</li> <li>5. Compile fluid resuscitation methods and techniques in paediatric emergencies.</li> </ul>
NLHT 19.2	Nebulization and per rectal medications used in Paediatric practice.	<ul> <li>Duration: 1 Hour</li> <li>Pre preparation</li> <li>By the Teacher : <ol> <li>The teacher briefly introduces students to various indications of nebulization and per-rectal medications in paediatric practice by sharing the handouts/PPTs.</li> <li>Required material /case vignettes ( video, animations, movie clips, respiratory sounds, clinical case recordings, clinical drama, images, etc ) to be collected before the session.</li> <li>By the student: Student is expected to have minimum/prior knowledge about indications of nebulization and per rectal medications before the session.</li> <li>Activity</li> <li>Students are divided into groups</li> <li>The teacher randomly displays animation/videos/sounds/movie clips etc related to the indication of the above procedures with varying levels of case difficulty at each level.</li> <li>Students should identify the following <ul> <li>Disease</li> <li>Procedure required</li> <li>Select a suitable drug, duration and dose</li> </ul> </li> <li>Role of a Teacher: The teacher evaluates students' performance based on a checklist /rating scale/Scorecard.</li> </ol></li></ul>
Non Lecture l	Hour Practical	
S.No	Name of Practical	Description of Practical Activity

NLHP 19.1	IV cannulation	<ul> <li>Duration - 1 hour</li> <li>Prerequisite /preparation</li> <li>By the Teacher: <ol> <li>Prepare the IV cannula KIT, Manikin/task trainer before the session.</li> <li>Share the resource material (PPT/Video/recorded lecture) on IV cannulation 1 week before the activity.</li> </ol> </li> <li>By the Student: Students are expected to study the resource material before the activity.</li> <li>Activity – <ol> <li>Demonstration of IV cannulation by the faculty on task trainer/mannikin.</li> <li>Students are divided into groups (5-8 students in one group)</li> <li>Students are asked to demonstrate the procedure to their peers and practice the procedure.</li> <li>Record the standard operative procedure in the activity record/logbook</li> <li>Evaluation: Faculty will evaluate using rating scale based on the student's performance.</li> <li>Rating Scale [Done: 2, Partly done: 1, Not Done: 0]</li> <li>Pre-procedure: <ol> <li>A Rapport building and assuring the patient for the procedure</li> <li>Hand hygiene and gloving</li> <li>Tourniquet application</li> <li>Diste cleansing</li> </ol> </li> <li>Procedure: <ol> <li>A Stabilize the vein</li> <li>Cannula selection</li> <li>C. Inserting the cannula and remove the needle</li> <li>Securing the cannula</li> </ol> </li> </ol></li></ul>
		3. Post-procedure: A. Care for an IV cannula.
NLHP 19.2	Cardio-pulmonary resuscitation	Duration: 1 hour Prerequisite/preparation By the Teacher: 1. Sharing the resource material on CPR (Handout and Video)

		<ul> <li>2. Preparing the instrument/equipment and paediatric Manikins before the session.</li> <li>By the Student: <ol> <li>Learning the resource material before the session.</li> </ol> </li> <li>Activity – <ol> <li>Students are divided into groups (5-8 members in one group)</li> <li>Demonstration of CPR on the paediatric manikin by the faculty</li> <li>Demonstration of CPR on the paediatric manikin by the students in the group</li> <li>Record the procedure.</li> </ol> </li> <li>Role of a Teacher: The teacher evaluates students' performance based on a checklist /rating scale/Scorecard.</li> <li>Rating Scale: [Done: 2, Partly done: 1, Not done: 0]</li> <li>Pre - Procedure : Rapport building and assuring the caretaker for the procedure.(if present) Procedure <ol> <li>Assessing the patient by stimulus</li> <li>Call for help</li> <li>Position of the rescuer</li> <li>Perform chest compressions</li> <li>Perform chest compressions</li> <li>Perform chest compressions</li> <li>Perform chest compressions</li> <li>Perform the rescue breaths</li> <li>Continue CPR/ weaning CPR</li> </ol> </li> <li>Post-procedure: <ol> <li>Monitoring the patient.</li> </ol> </li> </ul>
NLHP 19.3	Lifesaving medications.	Duration: 1 Hour         Pre-Preparation         By the Teacher:         1. The teacher briefly introduces students to various emergency medicines (Related to Acute         Breathlessness, Cardiorespiratory Arrest, Shock, Poisoning and Status Epilepticus) used in paediatric         practice by sharing the handouts/PPT.A list of emergency medicines will be given to students.(See Appendix)

2. Required material /case vignettes (video, animations, movie clips, respiratory sounds, clinical case recordings, clinical drama, images) to be collected before the session.

**By the student:** The student is expected to come prepared with the provided resource material. **Activity:** 

1. Students are divided into groups

2. The teacher randomly displays emergency conditions through animation/videos/sounds/movie clips with varying levels of case difficulty at each level.

3. Students should identify the following

a. Diagnose the condition

b. Identify life-saving medications

c. Enlist their indication.

Role of a Teacher: The teacher evaluates students on their performance.

LIST OF EMERGENCY MEDICINES USED IN PAEDIATRICS

#### **Respiratory Emergencies**

- Swasanandam Gulika
- Rasasindooram
- Swasakutara rasa
- Abraka Bhasma
- Kastooribhairava rasa
- Salbutamol (Albuterol) Bronchodilator for asthma and bronchospasm
- Ipratropium bromide Anticholinergic bronchodilator
- Adrenaline (Epinephrine) For anaphylaxis and severe asthma
- Dexamethasone Corticosteroid for croup or severe asthma

#### 2. Cardiovascular Emergencies

- Prabhakara vati
- Danwantharam Gulika

- Sringabhasma
- Yogendra rasa
- Sidhamakaradwaja
- Adrenaline (Epinephrine) Cardiac arrest, anaphylaxis, bradycardia
- Atropine For bradycardia or heart block
- Amiodarone Antiarrhythmic for ventricular arrhythmias
- Dopamine Inotropic support for shock or heart failure
- Norepinephrine (Noradrenaline) Vasopressor for septic shock

3. Seizures and Neurological Emergencies

- Mansyadi kashaya
- Vatakulanthaka rasa
- Brihatvata Chintamani rasa
- Kalyanaka Grita
- Samvardhana ghrita
- Vacha churna
- Diazepam For status epilepticus or febrile seizures
- Midazolam For status epilepticus (intranasal or IV)
- Phenytoin For seizure management
- Phenobarbital For neonatal seizures or status epilepticus
- 4. Infections/Sepsis
  - Rasasindoora
  - Kaisoragulgulu
  - Gandhakarasayana
  - Rasamanikya
  - Rasapippari

• Ceftriaxone – Broad-spectrum antibiotic for sepsis or meningitis • Ampicillin - Antibiotic for bacterial infections, including meningitis • Vancomycin - For resistant bacterial infections • Clindamycin – For anaerobic infections and toxic shock syndrome 5. Metabolic and Endocrine Emergencies • Karpoora rasa • Balarka rasa • Sankabhasma • Sanjeevani vati • Dextrose 10%, 25%, or 50% – For hypoglycemia • Calcium gluconate - For hypocalcemia, hyperkalemia, or cardiac support • Hydrocortisone – For adrenal insufficiency or severe shock • Insulin – For diabetic ketoacidosis (DKA) 6. Allergic Reactions/Anaphylaxis • Haridrakhanda • Gandhakarasayana • Arogyavardhini Rasa • Laghusootasekhara rasa • Adrenaline (Epinephrine) – First-line treatment for anaphylaxis • Diphenhydramine (Benadryl) – Antihistamine for allergic reactions • Methylprednisolone - Corticosteroid for severe allergic reactions 7. Fluid and Electrolyte Management

- Panchamrutha parpati
- Rasaparpati
- Karpoora churna
- Normal saline (0.9% NaCl) For dehydration and shock
- Ringer's lactate Fluid resuscitation
- Oral Rehydration Solution (ORS) For mild to moderate dehydration
- Potassium chloride For hypokalemia

8. Pain and Fever Management

- Swarnamuktadi gulika
- Vettumaran Gulika
- Anandhabhairava rasa
- Sudarsana ghana vati
- Guluchee satwa
- Sootasekhara rasa
- Gulgulutiktakam ghrita
- Paracetamol (Acetaminophen) For fever and mild pain
- Ibuprofen For pain, fever, and inflammation

9. Poisoning and Overdose

- Villwadi Gulika
- Doshee vishari Gulika
- Sireeshadi vati
- Activated charcoal For ingested poisons
- Naloxone For opioid overdose
- N-Acetylcysteine (NAC) For paracetamol (acetaminophen) overdose

10. Miscellaneous
• Magnesium sulfate – For torsades de pointes, severe asthma, or eclampsia
<ul> <li>Sodium bicarbonate – For severe metabolic acidosis, hyperkalemia, or certain poisonings</li> </ul>
<ul> <li>Furosemide – For fluid overload or pulmonary edema</li> </ul>

### Topic 20 Bala Panchakarma (LH :5 NLHT: 0 NLHP: 8)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 3,CO 7	Enlist Rukshana methods. plain the indications, contraindications and methods of Udwartana.	CC	MK	K	L_VC,L &GD	CL-PR,WP, M-POS	F&S	III	-	LH
CO 3,CO 7,CO 8	Analyze the selection of medicines for Udwartana. Perceive the steps of Udwartana.	PSY- SET	МК	КН	D-M,D, DIS	P-PRF,INT, SBA	F&S	III	-	NLHP20.1
CO 3,CO 7	Enlist Bahya and Abhyanthara Snehana methods. Explain the indications, contraindications and methods of Abhyanaga, Moordhnitaila and Snehapana.	CC	MK	K	RLE,L_ VC,L& GD	CL-PR,M- POS,QZ	F&S	III	-	LH
CO 3,CO 7,CO 8	Analyze the selection of medicines for Abhyanaga, Moordha Taila and Snehapana. Demonstrate Abhyanga & Pichu.	PSY- GUD	МК	SH	D,D-BE D,DIS, D-M	P-PRF,SBA ,INT	F&S	III	-	NLHP20.2
CO 3,CO 7	Enlist types and methods of Swedana. Explain the indications, contraindications and methods of Pinda Sweda, Nadisweda and Upanaha.	CC	MK	K	L_VC,L &GD	M-MOD,W P,PUZ	F&S	III	-	LH
CO 3,CO	Analyze the selection of medicine and duration for Pinda Sweda, Nadisweda and Upanaha.	CAN	МК	КН	DIS,L& GD,D	INT,SBA	F&S	III	-	NLHP20.3

7,CO 8												
CO 3,CO 4,CO 7,CO 8	Demons Upanah	trate Shashtika Shali Pinda Sweda, Nadisweda and a.		PSY- GUD	МК	SH	D-M,D- BED,D	DOPS,CH K,P- PRF,DOPS	F&S	III	-	NLHP20.4
CO 3,CO 8	Explain and SOI Explain and SOI	the Indications, Contraindications, selection of media Ps of Vamana, Virechana, Nasya and Rakthamokash the indications, contraindications, selection of media Ps of Vasti.	icines ana. cines	CC	МК	К	L&GD, DIS,SD L	INT,M- CHT	F&S	III	-	LH
CO 7,CO 8	Perceive	e Vamana, Virechana, Vasti, Nasya and Raktamokas	hana.	PSY- SET	MK	КН	PT,D,D- M	Log book,I NT,CHK	F&S	III	-	NLHP20.5
CO 3,CO 7	Discuss Anjana, Gandus	the application of other Karmas - Ashchyotana, Sek Tarpana, Karnapurana, Karnadhoopana, Kavala, na.	a,	CC	DK	КН	DIS,RL E,L&G D	M-POS,PU Z,INT	F	III	-	LH
CO 2,CO 4,CO 7,CO 8	Perceive Kriyakalpa in children (Ashchyotana, Seka, Tarpana and Karnapurana)			PSY- SET	МК	КН	D- M,PT,D	CHK,INT,L og book	F	III	H-SH	NLHP20.6
Non Lecture Hour Theory												
S.No Name of Activity Descr			Description of Theory Activity									
Non Lecture Hour Practical												
S.No Name of Practical D		Description of Practical Activity										

NLHP 20.1	Udwartana.	<ul> <li>Duration: 1 Hour</li> <li>Pre-Preparation</li> <li>By the Teacher: <ol> <li>Arranging the real patient/manikin/pre-recorded video for a demonstration of Udwartana</li> <li>Collection of various Udwartana Churna used in paediatric practice.</li> <li>By the student: Students should come prepared with Rukshana Methods in children and Udwartana procedure</li> <li>Activity</li> <li>Teacher or therapist demonstrates the method of Udwartana Churna used in different disease</li> <li>Record the procedure</li> </ol> </li> <li>Role of a Teacher: Demonstration of procedure and making sure that students analyse the selection of medicine. The teacher evaluates students based on the interaction and by giving a case scenario and asking the students to choose the appropriate Udwartana Churna.</li> </ul>
NLHP 20.2	Snehana.	<ul> <li>Duration: 1 Hour</li> <li>Pre-Preparation</li> <li>By the Teacher:</li> <li>1. Arranging the real patient/manikin/pre-recorded Video for demonstration of Abhyanaga, Moordha Taila and Snehapana in children.</li> <li>2. Collection of various Snehanas (Different Ghrita/Taila etc) used in Kaumarabhritya practice.</li> <li>By the student: Students should come prepared with the topic Snehana in children.</li> <li>Activity</li> <li>1. The teacher or therapist demonstrates the method of Abhyanga, Moordha Taila and Snehapana in children.</li> <li>2. The teacher opens a discussion on different kinds of Snehana used in different disease</li> <li>3. Observe and record the post-procedure regimens and activity.</li> <li>4. Hands-on training of different methods of Snehanas.</li> <li>Role of a Teacher: Demonstration of procedure and making sure that students analyse the selection of medicine. The teacher evaluates the students based on the interaction and by giving a case scenario and</li> </ul>
		asking the students to choose the appropriate method of Snehana and appropriate medicine.
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NLHP 20.3	Swedana I - Selection of method and dravya	Duration: 1 Hour         Pre-Preparation         By the Teacher:         1. Arranging the real patient/clinical video of patients requiring Pinda Sweda, Nadisweda and Upanaha         2. Collection of various Swedana Dravya         By the student: Students should come prepared with the topic Swedana in children.         Activity         1. The teacher opens a discussion on different methods of Swedana in different diseases in children.         2. The teacher presents different clinical cases of patients requiring Pinda Sweda, Nadisweda and Upanaha and discusses different Dravyas used.         Role of a Teacher: The teacher evaluates students based on the interaction by giving a case scenario and asking the students to choose the appropriate method of Swedana and appropriate Dravya.
NLHP 20.4	Swedana II.	Duration: 1 Hour         Pre-Preparation         By the Teacher:         1. Arranging the real patient/manikin/recorded Video for demonstration of Shashtika Shali Pinda         Sweda, Nadisweda and Upanaha in children.         2. Collection of various Swedana Dravya and equipment used in paediatric practice.         By the student: Students should come prepared with the topic Swedana in children.         Activity         1. The teacher or therapist demonstrates the method of Shashtika Shali Pinda Sweda, Nadisweda and Upanaha in children.         2. Observe and record the post-procedure regimens and activity.         3. Hands-on training of different methods of Swedana i.e., Shashtika Shali Pinda Sweda, Nadisweda and Upanaha in children.         Role of a Teacher: The teacher evaluates students based on their performance using a checklist.         Checklist: Yes/No

		<ol> <li>Explains the procedure and take the consent</li> <li>Explains the pre-procedure</li> <li>Perform Shashtika Shali Pinda Sweda, Nadisweda and Upanaha optimally.</li> <li>Explain the post procedure regimens efficiently.</li> </ol>
		4. Explain the post-procedure regimens efficiently.
NLHP 20.5	Panchakarma in children	<ul> <li>Duration: 3 hours</li> <li>Prerequisite /preparation</li> <li>By the Teacher: <ol> <li>Arranging the real patient/recorded Video for demonstration of Vamana, Virechana, Vasti, Nasya and Raktamokshana in children.</li> <li>Ensure the arrangements in the theatre with all necessary prerequisites for the procedure.</li> <li>Instruct the students about the code of conduct during the procedure.</li> <li>By the student: Students are expected to come prepared with the topic Panchakarma in children.</li> </ol> </li> <li>Activity – <ol> <li>Demonstration of Vamana, Virechana, Vasti, Nasya and Raktamokshana in children on real patient/pre-recorded video.</li> <li>Discussion on Pre-procedure, Procedure and Post-procedure regimen and activity.</li> <li>Record the procedure in the log book.</li> </ol> </li> <li>Role of a Teacher: The teacher evaluates students based on the interaction and Checklist <ul> <li>Skills of obtaining the consent: Perceived/Not perceived</li> <li>Pre-procedure: Perceived/Not perceived</li> <li>Rapport building and assuring the patient of the procedure</li> <li>Ollection of necessary Dravya and equipment</li> <li>Procedure (SOP of Vamana, Virechana, Vasti, Nasya, and Raktamokashana in children): Perceived/Not perceived</li> <li>Post-procedure (Post procedure regimens and activity): Perceived/Not perceived.</li> </ul> </li> </ul>
NLHP 20.6	Kriyakalpa in children	Duration: 1 hour Pre-preparation:

<ul> <li>By the Teacher:</li> <li>1. Arranging the real patient/recorded video for a demonstration of Ashchyotana, Seka, Tarpana and Karnapurana in children.</li> <li>2. Ensure the arrangements in the theatre with all necessary prerequisites for the procedure.</li> <li>3. Instruct the students about the code of conduct during the procedure.</li> <li>By the student: Students are expected to come prepared with the topic of Ashchyotana, Seka, Tarpana and Karnapurana.</li> <li>Activity –</li> <li>1. Demonstration of Ashchyotana, Seka, Tarpana and Karnapurana on real patient/ pre-recorded video.</li> <li>2. Discussion on Pre-procedure, Procedure and Post-procedure regimen and activity.</li> <li>3. Record the procedure</li> </ul>
<ol> <li>Discussion on Pre-procedure, Procedure and Post-procedure regimen and activity.</li> <li>Record the procedure</li> </ol>
<b>Role of a Teacher</b> : The teacher evaluates students based on the interaction.

# Topic 21 Kishora Swasthya (Adolescent Health) (LH :2 NLHT: 0 NLHP: 1)

A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3
CO 1,CO 3,CO 8	Analyze the understanding of Kishora Swasthya (adolescent health) in Ayurveda. Define adolescence. Explain the stages of adolescence. Explain the physical, physiological and psychological changes during adolescence.	CAN	DK	КН	PER,PL ,FC,DIS	CL-PR,INT ,DEB	F&S	III	-	LH
CO 1,CO 3	Assess the physical, physiological and psychological changes during adolescence.	CE	DK	КН	GBL,PB L,EDU	O-QZ,O- GAME	F&S	III	-	NLHP21.1
CO 1,CO 2,CO 8	Enlist the health problems during adolescence. Explain adolescent sexuality	CC	МК	К	DIS,L& PPT	WP,O- QZ,QZ	F&S	III	-	LH
Non Le	ecture Hour Theory									

S.No	Name of Activity	Description of Theory Activity
Non Lecture ]	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 21.1	Adolescence.	<ul> <li>Duration: 1 Hour</li> <li>Pre-Preparation</li> <li>By the Teacher: <ol> <li>Dividing the students into groups</li> <li>Case vignettes (videos/images) to be arranged before the session.</li> <li>By the student: The student is expected to come prepared with the topic</li> </ol> </li> <li>Activity <ol> <li>Students gather in groups.</li> <li>Teacher randomly displays videos/images.</li> <li>Students should assess the physical, physiological and psychological changes.</li> </ol> </li> <li>Role of a Teacher: The teacher evaluates students' performance based on a checklist /rating scale/Scorecard.</li> <li>Checklist: <ol> <li>Identifies the normal growth and development according to age accurately</li> <li>Identifies physical, physiological and psychological changes in adolescence precisely</li> <li>Identify the deviation in normal changes during adolescence.</li> <li>Good Team Collaboration.</li> </ol> </li> </ul>

#### Topic 22 Anya Rogas (Miscellaneous Diseases) (LH :1 NLHT: 1 NLHP: 0)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 2,CO 3	Describe the Inborn errors of metabolism, Congenital Rubella Syndrome, Celiac Disease, Spinal Muscular Atrophy, Guillain Barre Syndrome, Sickle Cell Anemia, Wilson's Disease, Utpullika, Ajagallika, Kukunaka and Talu Kantaka.	СК	DK	K	DIS,L_ VC,L& PPT	O- GAME,QZ ,WP	F	Ш	-	LH

CO 2,CO 3	Diagnose Inborn errors of metabolism, Congenital Rubella Syndrome, Celiac Disease, Spinal Muscular Atrophy, Guillain Barre Syndrome, Sickle Cell Anemia, Wilson's Disease, Utphullika, Ajagallika, Kukunaka and Talu Kantaka.			CE	DK	КН	PBL,FC ,ML,ED U	CHK,RS,O- GAME	F	III	-	NLHT22.1	
Non Le	ecture H	our Theory											
S.No		Name of Activity	Desc	ription of	Theory A	ctivity							
NLHT 2	22.1	Miscellaneous diseases	Dura Pre-H By th 1. Div 2. Ca By th 1. Stu Rube Anen session Activ 1. Stu 2. Tea 3. Stu A. Ide B. Dii Role scale/ Chec 1. Ide 2. Dia 3. Go	tion: 1 Ho Preparatio Re Teacher viding the s se vignetter dent is exp lla Syndrom ia/ Wilsom on. ity dents gathe acher rando dents are e entify the s agnose the of a Teach (Scorecard. klist: entifies the agnose the od collabor	ur n students inf s (videos/in bected to co ne/ Celiac 's Disease/ er in group bmly displa expected ymptoms case her: The tea symptom a case correct ration.	o groups nages ) to ome prepar Disease/ S Utphullika s tys videos/ acher evalu	be collecte red with the Spinal Muse a/Ajagallik /images uates stude	ed before the se e topic Inborn cular Atrophy/ a/ Kukunaka/T	ession. errors of n Guillain E Talu Kantal	netaboli 3arre Sy ka befo	ism/ Cong /ndrome/ s re coming	enital Sickle Cell to the	

Non Lecture Hour Practical					
S.No	Name of Practical	Description of Practical Activity			

(	*Refer	table	3	of	similar	activity	number	)
ſ	Refer	table	5	O1	Similar	activity	number	,

Activity No*	CO No	Activity details
2.1	CO 1,CO 3,CO 5,CO 6	Childhood Samskaras
3.1	CO 3,CO 7,CO 8	Navajata Shishu Paricharya and Pranapratyagamana
3.2	CO 1,CO 3	Ayu Pariksha Vidhi
3.3	CO 3,CO 5,CO 6	Neonatal disorders
4.1	CO 5,CO 6	Complementary feeding I (in the absence of Stanya)
4.2	CO 5,CO 6	Complementary feeding II (in the absence of Breastmilk)
4.3	CO 3,CO 5	Swarnaprashana
4.4	CO 4,CO 5,CO 8	Breast feeding week program.
4.5	CO 2,CO 3	Ksheeralasaka
5.1	CO 3,CO 5	Vyadhikshamatwa and Immunity I
5.2	CO 3,CO 5,CO 6	Vyadhikshamatwa and Immunity II
5.3	CO 4,CO 5,CO 6	RCH programmes and Perinatal care for Healthy Child
6.1	CO 2,CO 3	Concept of Phakka Roga
6.2	CO 2,CO 3	Kuposhana Janya Vyadhis and Nutritional Deficiency Disorders
8.1	CO 2,CO 3,CO 6,CO 8	Procedure based therapies and Oushadhas in Sahaja Vyadhis
8.2	CO 2,CO 3,CO 8	Surgical intervention and referral criteria of Congenital and Chromosomal disorders
9.1	CO 3,CO 6,CO 8	Management(Chikitsa) of tuberculosis in children.

9.2	CO 2,CO 3	Concept of Graha Roga in context of infectious diseases.
9.3	CO 3,CO 6	Management of different type of Jwara.
9.4	CO 2,CO 3	Oushadha yogas used for Krimi Chikitsa.
10.1	CO 2,CO 3	Oushadha Yoga in Pratishaya, Kasa, Shwasa
10.2	CO 4,CO 6,CO 8	Ahara and Vihara for Pratishaya, Kasa, Shwasa
11.1	CO 3,CO 4,CO 6	Oushadha Yogas, Pathya in Aatisara, Grahani and Pravahika.
11.2	CO 3,CO 4,CO 6	Oushadha Yogas and Pathya used in Chhardi.
11.3	CO 2,CO 3,CO 6	Oushadha Yoga and Pathya in Vibandha.
12.1	CO 2,CO 3	Bheda and referral criteria of Pandu and Anemia.
12.2	CO 2,CO 3	Haemorrhagic Diseases in children.
12.3	CO 2,CO 3	Udara Roga: hepatomegaly and splenomegaly.
13.1	CO 2,CO 3,CO 4,CO 6	Diabetes Mellitus (Prameha)
13.2	CO 1,CO 2,CO 3,CO 6	Precocious and Delayed Puberty
14.1	CO 2,CO 3	Refererral criteria of Genito urinary disorders
14.2	CO 2,CO 3,CO 6	Scope of treatment & ahara-vihara plan in Mutra vaha Sroto Vikara
15.1	CO 2,CO 3,CO 6	Referral criteria & Pathya in Rheumatological disorders.
15.2	CO 2,CO 3,CO 6	Integrated treatment for Rheumatological Disorders

16.1	CO 2,CO 3,CO 6	Case Discussion: Arumshika
16.2	CO 2,CO 4,CO 6	Pathya in Twak Roga.
16.3	CO 2,CO 3	Oushadha Yogas used in Twak Roga
17.1	CO 2,CO 3,CO 4	Jalasheershaka (Hydrocephalus)
17.2	CO 2,CO 3,CO 4,CO 7	Communication Disorders.
17.3	CO 4,CO 6,CO 8	Pathya in Neurological Disorders.
17.4	CO 2,CO 3	Oushadha Yogas used in Neurological Disorders.
18.1	CO 2,CO 3	Shayyamutra (Enuresis), Breath Holding Spells, Mritbhakshana (Pica) and Thumbsucking.
18.2	CO 2,CO 3,CO 8	Multidisciplinary approach in Behavioural and Neurobehavioral Disorder
18.3	CO 4,CO 6,CO 8	Pathya Behavioral and Neurobehavioral Disorders
18.4	CO 2,CO 3	Oushadha Yogas used in Behavioural and Neurobehavioural Disorders.
19.1	CO 2,CO 3	Fluid resuscitation methods and techniques.
19.2	CO 2,CO 3	Nebulization and per rectal medications used in Paediatric practice.
22.1	CO 2,CO 3	Miscellaneous diseases

(*Refer table	e 3	of simila	ar activity	number)
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Practica l No*	CO No	Practical Activity details			
2.1	CO 1,CO 3	Assessment of Growth I			
2.2	CO 1,CO 3	Assessment of Growth II			
2.3	CO 1,CO 3	tatus of Dhatu			
2.4	CO 1,CO 3	Undernourished child			
2.5	CO 1,CO 4	Assessment of Developmental Milestones in normal child			
2.6	CO 1,CO 2,CO 4	Assessment of Developmental Delay			
2.7	CO 1,CO 2,CO 4	Case of Developmental Delay			
3.1	CO 3,CO 7,CO 8	Neonatal Resuscitation and Intranatal care.			
3.2	CO 1,CO 7	Examination of Newborn and Assessment of gestational age.			
3.3	CO 3,CO 4,CO 7	Newborn care after discharge			
3.4	CO 2,CO 3	Neonatal seizures /Akshepaka and Skandapasmara.			
3.5	CO 2,CO 3	Neonatal diseases			
3.6	CO 2,CO 3	Case of Neonatal Jaundice.			
4.1	CO 4,CO 7,CO 8	Breastfeeding techniques			
4.2	CO 5,CO 6	Complementary feeding Survey			
4.3	CO 1,CO 3,CO 4,CO 8	Stanya Vriddhi, Stanya Kshaya and Stanya Pareeksha			

4.4	CO 5,CO 7	Preparation of Swarnaprashana
5.1	CO 1,CO 4,CO 5,CO 6	Nutritional Assessment in children
5.2	CO 3,CO 4,CO 5	Parent Counselling on Immune modulation
5.3	CO 4,CO 5,CO 7,CO 8	Immunization in children
6.1	CO 2,CO 3,CO 6	Case Discussion: Malnutrition
7.1	CO 2,CO 3	Calculation of Pediatric Drug Doses
7.2	CO 2,CO 4,CO 7	Application of Samprapti Gatakas in a Pediatric Case: Part I
7.3	CO 2,CO 3	Application of Samprapti Gatakas in a Pediatric Case: Part II
7.4	CO 2,CO 3,CO 6,CO 7	Clinical case taking
7.5	CO 2,CO 4,CO 6,CO 8	Conseling regarding patient care
7.6	CO 2,CO 3,CO 6	Pediatric Ethobotonical Survey of Herbal Garden
8.1	CO 2,CO 3,CO 8	Turner syndrome
8.2	CO 2,CO 3,CO 8	Down syndrome
8.3	CO 2,CO 3,CO 4,CO 8	Prevention of Congenital anomalies
9.1	CO 2,CO 3,CO 4	Case Discussion: Auspasagika Jwara and Krimi Roga
9.2	CO 6,CO 8	Pathya and Kriyakrama used in Jwara and Krimi.
10.1	CO 2,CO 3,CO 7	Examination of Ear and Throat
10.2	CO 2,CO 3,CO 4	Case Discussion: Pratishyaya.
10.3	CO 2,CO 3,CO 4	Case Discussion: Kasa.

10.4	CO 2,CO 3,CO 4	Case Discussion: Shwasa.
10.5	CO 7,CO 8	Kriyakrama used in management of Pratishaya,Kasa & Shwasa
11.1	CO 3,CO 4,CO 6	Physiological basis and composition of various ORT
11.2	CO 3,CO 7,CO 8	Kriyakrama used in the management(Chikitsa) of Chhardi.
11.3	CO 3,CO 7,CO 8	Kriyakrama used in the management of Vibandha.
11.4	CO 2,CO 3	Case Discussion:Mukhapaaka, Gulma, Gudabramsa and Parikartika.
11.5	CO 2,CO 3	Signs and symptoms of GI and Liver disorders
11.6	CO 2,CO 3,CO 4	Case Discussion: Maha Stroto Vikara.
12.1	CO 2,CO 3,CO 6	Complementary, alternative treatment protocol, Pathya in Anemia.
12.2	CO 3,CO 7,CO 8	Kriyakrama used in management of Pandu
12.3	CO 2,CO 3,CO 6	Complementary, alternative treatment protocol, Pathya in Kamala.
12.4	CO 3,CO 7,CO 8	Kriyakrama used in the management of Kamala.
12.5	CO 2,CO 3,CO 4,CO 6	Case Discussion: Pandu, Anaemia and Kamala.
13.1	CO 2,CO 3,CO 7	KriyaKrama in T1DM
14.1	CO 2,CO 3,CO 4	Examination of kleda agni kosta in mutra and shukra vaha srotas
14.2	CO 3,CO 4,CO 7	Kriya karma in Mutra Vaha Sroto Vikara
15.1	CO 3,CO 7,CO 8	Kriya Krama in Rheumatological disorders
15.2	CO 2,CO 3,CO 4,CO 7	Case Discussion: Amavata
15.3	CO 2,CO 3,CO 4	Nidanapnachaka of Rheumatological disorders
16.1	CO 2,CO 3,CO 4,CO	Case Discussion: Kusta/ Charmadala/ Visarpa.

	6	
16.2	CO 4,CO 7,CO 8	Kriyakramas (Procedure-based therapy) in Twak Roga.
17.1	CO 2,CO 3,CO 4,CO 7	Case Discussion: Apasmara.
17.2	CO 2,CO 3,CO 4,CO 7	Case Discussion: Cerebral palsy
17.3	CO 2,CO 3,CO 7,CO 8	Kriyakramas (Procedure-based therapy) in Neurological Disorders in Children
18.1	CO 2,CO 3,CO 4,CO 7	Case Discussion: ASD/ ADHD/ Intellectual Disability/ Learning Disability
18.2	CO 2,CO 3,CO 4,CO 7	Case Discussion: Shayyamutra (Enuresis)/ Breath-Holding Spells
18.3	CO 3,CO 8	Integrated Child Development Center
18.4	CO 2,CO 3,CO 4,CO 7	Kriyakramas (Procedure-based therapy) in Behavioural and Neurobehavioral Disorders.
19.1	CO 2,CO 4,CO 7	IV cannulation
19.2	CO 2,CO 7,CO 8	Cardio-pulmonary resuscitation
19.3	CO 2,CO 3	Lifesaving medications.
20.1	CO 3,CO 7,CO 8	Udwartana.
20.2	CO 3,CO 7,CO 8	Snehana.
20.3	CO 3,CO 7,CO 8	Swedana I - Selection of method and dravya
20.4	CO 3,CO 4,CO 7,CO 8	Swedana II.
20.5	CO 7,CO 8	Panchakarma in children
20.6	CO 2,CO 4,CO 7,CO 8	Kriyakalpa in children
21.1	CO 1,CO 3	Adolescence.

Subject	ject Papers Theory Practical/Clinical Assessment (200)						Grand	
Code			Practical	Viva	Elective	IA	Sub Total	Total
AyUG-KB	1	100	100	60	10 (Set- TB)	30	200	300

### 6 A : Number of Papers and Marks Distribution

#### 6 B : Scheme of Assessment (Formative and Summative)

PROFESSIONAL	FOR	MATIVE ASSESSM	ENT	SUMMATIVE
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	3 PA & First TT	3 PA & Second TT	3 PA	<b>UE</b> **

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

#### 6 C : Calculation Method for Internal assessment Marks

	PERIODICAL ASSESSMENT*					TERM TEST**	TEI ASSESS	RM SMENT
	A 6	В	С	D	Е	F	G	Н
TERM	1 (15 Marks)	2 (15 Marks)	3 (15 Marks)	Average (A+B+C/3 )	Converted to 30 Marks (D/15*30)	Term Test (Marks converted to 30)	Sub Total _/60 Marks	Term Assessmen t (/30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		Е
Final IA	Average of 7	Three Term A	ssessment M	arks as Show	n in 'H' Colu	mn.		
	Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks.							

### 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

### **Topics for Periodic Assessments**

	Paper 1
PA 1	Topic 1,2
PA 2	Topic 3
PA 3	Topic 4
Term Test 1	Entire Syllabus of Term 1
PA 4	Topic 6,7,8
PA 5	Topic 9,10,11
PA 6	Topic 11,12
Term Test 2	Entire Syllabus of Term 2
PA 7	Topic 14,15,16
PA 8	Topic 16,17,18
PA 9	Topic 19,20,21

### III PROFESSIONAL BAMS EXAMINATIONS AyUG-KB PAPER-I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

## 6 F : Distribution of theory examination

Pape	Paper 1 (KAUMARABHRITYA)							
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ			
1	Introduction to Kaumarabhritya	1	Yes	No	No			
2	Bala Samvardhana (Growth and Development)	7	Yes	Yes	No			
3	Navajata Vijnana (Neonatology)	11	Yes	Yes	Yes			
4	Stanya Vijnana (Breast Milk)	11	Yes	Yes	Yes			
5	Bala Poshana (Child Nutrition) & Vyadhikshamatva (Immunity)		Yes	Yes	Yes			
6	Kuposhana Rogas (Nutritional disorders)	7	Yes	Yes	No			
7	Balaroga Pariksha Vidhi & Chikitsa Siddhantha (Pediatric Examination and treatment principles)		Yes	Yes	No			
8	Kulaja and Sahaja Rogas (Genetic and Congenital Disorders)	5	Yes	Yes	No			
9	Graha Rogas and Aupasargika Rogas (Infectious Diseases)	8	Yes	Yes	No			
10	Swasana Rogas [Disorders of Respiratory system]	10	Yes	Yes	Yes			
11	Mahasrota Roga [Gastro Intestinal Disorders]		Yes	Yes	Yes			
12	Rasa Rakta Rogas [Disorders of blood and cardiovascular system]	10	Yes	Yes	Yes			
13	Antahsravee Granthi Rogas (Disorders of Endocrine System)		Yes	Yes	Yes			
14	Mutravaha Sroto Rogas (Disorders of Genito urinary system)	5	Yes	Yes	No			
15	Sandhi Rogas (Rheumatological Disorders)		Yes	Yes	No			
16	Twak Rogas (Dermatological Disorders)	13	Yes	Yes	Yes			
17	Sira Snayu Rogas (Nervous system disorders)		Yes	Yes	Yes			
18	Unmada Rogas (Behavioral and Neurobehavioral disorders)		Yes	Yes	Yes			
19	Atyayika Rogas (Emergency Paediatrics)	12	Yes	Yes	Yes			
20	Bala Panchakarma		Yes	Yes	Yes			
21	Kishora Swasthya (Adolescent Health)		Yes	No	No			
22	Anya Rogas (Miscellaneous Diseases)		Yes	No	No			
Tota	al Marks	100						

#### 6 G : Instructions for UG Paper Setting & Blue print

- 1. All questions shall be compulsory.
- 2. Questions shall be drawn based on Table 6F, which provides the topic name, types of questions (MCQ(Multiple Choice Question), SAQ(Short Answer Question), LAQ(Long Answer Question)).
- 3. The marks assigned in Table 6F for each topic/group of topics shall be considered as the maximum allowable marks for that topic/group of topics.
- 4. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
- 5. Refer to Table 6F before setting the questions. Questions shall be framed only from topics where the type is marked as "YES", and avoided if marked as "NO".
- 6. Each 100-mark question paper shall contain:
  - 20 MCQs
  - 8 SAQs
  - 4 LAQs
- 7. MCQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 3.
  - Questions from the Nice to Know part of syllabus shall not exceed 2.
- 8. SAQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 1.
  - No questions shall be drawn from the Nice to Know part of syllabus.
  - SAQs shall assess understanding, application, and analysis, rather than simple recall.
- 9. LAQs:
  - All LAQs shall be drawn exclusively from the Must to Know part of the syllabus.
  - No questions shall be taken from the Desirable to Know or Nice to Know part of the syllabus.
  - Number of LAQs should not exceed one per topic unless maximum marks exceed 20 for the topic.
- 10. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
- 11. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

### 6 H : Distribution of Practical Exam

S.No	Heads	Marks
1	<ul> <li>Skill based Examination</li> <li>1. Diagnostic station (Lab report/Xray Report/USG report etc): 5 marks</li> <li>2. Demonstration Station (Newborn resuscitation/Breastfeeding/Breast milk examination etc): 10 marks</li> <li>3. Case-based evaluation/Situational Judgment test &amp; referral Station: 5 marks</li> <li>4. Prescription writing Station: 5 marks</li> <li>5. Dosage station/PathyaPathya Station: 5 marks</li> </ul>	30 Marks
2	Practical CaseTaking         A. History taking: 5 marks         B. Preliminary data, Growth, and Development Assessment: 5marks         C. Systemic examination: 10 marks         D. Dosha, Dhatu Pareesha: 5 marks         E. Investigations: 5 marks         F. Differential Diagnosis/diagnosis: 5 marks         G. Treatment protocol and justification: 10 marks         H. Prescription and counseling of parent/ caretaker: 10 marks         I. Communication skill, Confidence, Body language: 5 marks	60 Marks
3	<ul> <li>Structured Viva</li> <li>Total 15 questions of varied difficulty level like easy, medium and difficult.</li> <li>Question 1: Topic 1,2,3</li> <li>Question 2: Topic 4,5</li> <li>Question 3: Topic 6,7,8,9</li> <li>Question 4: Topic 10,11,12,13</li> <li>Question 5: Topic 14,15,16</li> </ul>	60 Marks

	<ul> <li>Question 6: Topic 17,18,19</li> <li>Question 7: Topic 20,21,22</li> <li>Question 8: Topic 1.2.2.4.5</li> </ul>	
	<ul> <li>Question 8: Topic 1,2,3,4,5</li> <li>Question 9: Topic 6,7,8,9.</li> </ul>	
	• Question 10: Topic 10,11,12,13	
	• Question 11: Topic 14,15,16,17,	
	• Question 12: Topic 18,19,20,21,22	
	• Question 13: Topic 1,2,3,4,5	
	• Question 14: Topic 6,7,8,9,10,11,12,13	
	• Question 15: Topic 14,15,16,17,18,19,20,21,22	
	Communication & Confidence: 5 Marks	
4	Practical Record	10 Marks
	1. Comprehensive and Veracity (2 mark)	
	2. Complete case record (2 mark)	
	3. Documentation and presentation (2 marks)	
	4. Minimum number of cases (4 marks)	
	Record Content -	
	• Neonatal Case Sheet - 3	
	• Assessment of Growth (Status of Dhatu and Undernourishment) - 4	
	<ul> <li>Developmental Disorder Case Sheet - 4</li> </ul>	
	• Nutrition Assessment Case Sheet - 2	
	<ul> <li>Nutritional deficiency Disorders -2</li> <li>Scote Vikara Case Sheet 10</li> </ul>	
	• Stoto vikara čase Sličet - To	
5	Elective	10 Marks
6	Internal Assessment	30 Marks
Total Marks		200

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### Abbreviations

Domain		T L Method		Level A		Asse	Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
СС	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
CAP	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	Н-КС	НКС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	Н-РК	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	н-кв	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

	W	Workshops		C-INT	Conducting interview	
	GBL	Game-Based Learning		INT	Interactions	
	LS	Library Session		CR- RED	Critical reading papers	
	PL	Peer Learning		CR-W	Creativity Writing	
	RLE	Real-Life Experience		C-VC	Clinical video cases	
	PER	Presentations		SP	Simulated patients	
	D-M	Demonstration on Model		РМ	Patient management problems	
	РТ	Practical		СНК	Checklists	
	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
	CD	Case Diagnosis		DOPS	DOPS	
	LRI	Lab Report Interpretation		CWS	CWS	
	DA	Drug Analysis		RS	Rating scales	
	D	Demonstration		RK	Record keeping	
	D- BED	Demonstration Bedside		СОМ	Compilations	
	DL	Demonstration Lab		Portfol ios	Portfolios	
	DG	Demonstration Garden		Log book	Log book	
	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				CBA	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	

## COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



Kayachikitsa including Manasa Roga, Rasayana and Vajikarana (Internal Medicine including Psychiatry Rejuvenative Medicine, Reproductive Medicine and Epigenetics)

## (SUBJECT CODE : AyUG-KC)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



# NCISM III Professional Ayurvedacharya (BAMS)

# Subject Code : AyUG-KC

Kayachikitsa including Manasa Roga, Rasayana and Vajikarana

(Internal Medicine including Psychiatry Rejuvenative Medicine, Reproductive Medicine and Epigenetics)

### Summary

	Total number of T	eaching hours: 450			
Lecture (LH) - Theory					
Paper I	61	150	150(LH)		
Paper II	43				
Paper III	46				
Non-Lecture (NLHT)					
Paper I	35	90	300(NLH)		
Paper II	24				
Paper III	31				
Non-Lecture (NLHP)					
Paper I	64	210			
Paper II	85				
Paper III	61				

	Examination (Papers & Mark Distribution)						
Item	Item         Theory Component Marks         Practical Component Marks						
		Practical	Viva	Elective	IA		
Paper I	100	100	70	-	30		
Paper II	100						
Paper III	100						
Sub-Total	300		20	)0			
Total marks		500					

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

## **PREFACE**

The evolving landscape of healthcare necessitates a dynamic and integrative approach to medical education, particularly in Ayurveda. Kayachikitsa, the branch of internal medicine in Ayurveda, forms the clinical foundation for understanding, diagnosing, and managing diseases based on Ayurvedic principles. This revised competency-based syllabus ensures that students gain a holistic understanding of disease processes, blending traditional wisdom with modern advancements to provide effective, patient-centered care. The curriculum is designed to develop critical thinking, diagnostic skills, and clinical expertise, enabling students to interpret investigations, understand disease pathology (Samprapti), and apply individualized treatment strategies. Special emphasis is placed on emergency medicine (Atyayik Chikitsa), Rasayana, Vajikarana, and Apunarbhava Chikitsa, ensuring that students are well-equipped to handle both acute and chronic conditions.

Kayachikitsa builds upon the fundamentals learned in the first and second professional years, such as Kriya Sharira, Dosha-Dhatu-Mala Vijnana, and Roga Nidana Vikriti Vijnana. By the third professional year, students transition from understanding disease formation to Samprapti Vighatana (breaking the disease process) and applying treatment protocols based on Hetu, Linga, and Aushadha. The syllabus has been structured into three papers: Vyadhi Vishesh Chikitsa – I, Vyadhi Vishesh Chikitsa – II, and Vyadhi Vishesh Chikitsa Evam Rasayana-Vajikarana. The curriculum integrates ICD codes for disease classification, making it easier for students to correlate Ayurvedic and contemporary medical terminologies. Additionally, it includes the management of newly emerging diseases (Anukta Vyadhi), zoonotic infections (Kasherukajeeva-janya Vyadhi), and infectious conditions (Sankramika Jvara), reinforcing Ayurveda's relevance in addressing modern health challenges.

The new syllabus incorporates core Ayurvedic competencies, interdisciplinary integration, and hands-on clinical training to ensure students develop expertise in both Ayurvedic and contemporary medical approaches. Emphasis is also placed on research methodology, ethics, and professionalism, preparing students to contribute to evidence-based Ayurvedic practice. This curriculum is the result of collective efforts by experts in Ayurvedic education, clinical practice, and modern medicine, ensuring that students emerge as confident, skilled, and compassionate practitioners. By equipping them with practical knowledge, research acumen, and ethical grounding, this syllabus strengthens the role of Ayurveda in comprehensive healthcare, making it a vital contributor to global health and well-being.

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Course code	Name of Course
AyUG-KC	Kayachikitsa including Manasa Roga, Rasayana and Vajikarana

### Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-KC At the end of the course AyUG-KC, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.
CO1	Appraise the knowledge of health and diseases along with principles and practices of kayachikitsa in various ailments of adult population in alignment with Trisutra concept.	PO1
CO2	Integrate the application of multidisciplinary sciences, tools and techniques for a biopsychosocial approach towards diagnosis, prognosis & management of diseases including anukta roga to restore dhatusamya.	PO2,PO3,PO5
CO3	Construct treatment plans/protocols applying yukti in accordance with the Chikitsa sutra including pathya apathya with appropriate documentation adhering to legal, safety and regulatory standards.	PO1,PO3,PO4,PO5
CO4	Demonstrate the application of Rasayana and Vajikarana as prophylactic, therapeutic, restorative and palliative medicine.	PO1,PO4,PO5
CO5	Perform various skills (Karma kaushalya) in dealing with atyayika avastha including first aid and primary management.	PO2,PO4,PO5
CO6	Demonstrate self directedness in pursuit of new advancements in the field of biomedical research and government health care policies.	PO7,PO9
CO7	Demonstrate agility, virtuous, ethical behaviour, compassion and communicate effectively with patients, relatives, and stakeholders about the prognosis and treatment including informed consent.	PO6,PO8,PO9

### Table 2 : Contents of Course

<b>C</b>		D4	00	D1	БЭ	EO
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l
1	Kaya, Chikitsa and Kayachikitsa - Nirukti, Paribhasha, Paryaya and Bheda Explanation of Kaya, Chikitsa and Kayachikitsa according to different Classical texts	1	3	1	1	0
2	<ul> <li>Clinical ethics in the practice of Kayachikitsa</li> <li>Doctor patient relationship</li> <li>Good communication skills</li> <li>Ethical and legal issues in the practice of Kayachikitsa(Ayurveda Medicine)</li> <li>.</li> </ul>	1	7	1	0	4
3	Samprapti vighatana, Chikitsa sutra, Chikitsa, Aushadha yoga and Pathyaapathya of Jvara (SP51/TM2) • Nava jvara chikitsa • Jeerna jvara chikitsa • Nija jvara and Sannipataja jvara chikitsa • Agantuja jvara chikitsa • Dhatugata jvara chikitsa • Vishama jvara chikitsa • Punaravartaka jvara chikitsa	1	22	11	7	4
4	<ul> <li>Anuktaroga treatment principles based on Doshadushyadi vivechana</li> <li>Chikitsa yojana of Anukta roga</li> <li>Anukta roga upadrava chikitsa</li> </ul>	1		1	1	2
5	<ul> <li>Chikitsa of Sankramika jvara</li> <li>Vishama jvara(Malaria)</li> <li>Antrika jvara(Typhoid)</li> <li>Dandaka jvara(Dengue)</li> </ul>	1		2	4	8
	<ul> <li>Sandhiga sannipata jvara(Chikungunya)</li> <li>Mastishkavarana shotha jvara(Meningitis)</li> <li>Mastishka shotha(Encephalitis)</li> <li>Shwasanaka jvara(Pneumonia)</li> </ul>					
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6	<ul> <li>Chikitsa of Rasa pradoshaja vikara</li> <li>Pandu roga (SL80)</li> <li>Hematopoietic diseases - Raktalpata(Anaemia), Kuposhanajanya raktalpata(Nutritional Anaemia)</li> <li>Anuvanshika raktavikara- (Thalassemia, hemoglobinopathies, Sickle cell Anaemia), Raktakarka (Leukaemia), Haemolytic anaemia, Thrombocytopenia</li> <li>Hridroga ,Hridshoola (SL61, SL6Z)</li> <li>Uchcha raktachaapa (Hypertension), Hrudgata dhamanisanga vikara (Coronary artery disease-Ischemic heart disease and Myocardial Infarction), Hrudgata rakta -Sankulanjanya karya- akshamata(congestive cardiac failure). Hrudgati vaishamya(Conduction defects of heart)</li> <li>Aamavata (SP11) (Rheumatoid Arthritis)</li> <li>Madatyaya (SQ20)</li> </ul>	2	18	12	6	16
7	Chikitsa of Rakta pradoshaja vikara	2	24	22	11	18
	<ul> <li>Kaamala (SM41, SM42, SM43) Jaundice</li> <li>Yakrut shotha(Hepatitis), , Yakrutdalyodara(Liver cirrhosis), Madyaatirek janya yakrut vikara(Alcoholic liver disease) and Madya-etar karana janya yakrut vikara(Non- Alcoholic Fatty Liver Disease -NAFLD), madya-etar vasamaya- janya yakrut shotha(Non-Alcoholic Steato- hepatitis -NASH), yakrut koshakiya arbuda (Hepatocellular Carcinoma)</li> <li>Raktapitta (SL81)</li> <li>Raktaskandana sambandhi vikara (Coagulation disorders) Vanshanugata adhiraktasrava pravrutti (Heriditary - Haemophilia), Acquired- Immune thrombocytopenia -ITP</li> <li>Vatarakta (SP14) Gout</li> <li>Parisariya sira dhamaniya vikara (Peripheral vascular diseases)</li> <li>Mada, Murchha, Sanyasa (SQ22, SP98)</li> <li>Visarpa (SN4T)Erysipelas, Shingles,</li> </ul>					

	<ul> <li>Kushtha and Kilasa/Shwitra (SN40, SN43, SN46, SN48, SN49, SN4A, SN4B SN4D, SN4P, SN4U)</li> <li>Anurjatajanya tvak vikara(Allergic skin disorders - Atopic dermatitis/Eczyma, Urticaria), shalkayukta tvak vikara (Squamous lesions) - Psoriasis, Shewalikabha tvak vikara (Lichen planus), Visphota (Bullous lesion), Udasphotanvika tvak vikara (Pemphigus and Pemphigoid lesions)</li> <li>Sheetapitta, Udarda, Kota and Utkota (SN4K, SN4L)</li> <li>Daha</li> </ul>					
8	<ul> <li>Chikitsa of Kshudra roga <ul> <li>Identification and chikitsa of -</li> </ul> </li> <li>Yavaprakhya(SN5Y), Andhalaji(SN5Y), Vivritta(SN5Y), Kacchapika,(SN9Y) Indravriddha, Gardabhi, Jalagardabha(SM0Y), Irivellika(SN5Y), Gandhanama(SN5Y), Kaksha(SN4T), Visphotaka(SN4P), Agnirohini, Vidarika(SP9Y), Sharkararbuda(SP71), Pama(SN46), Vicharchika(SN43), Rakasa(SN40), Padadari, Alasa(SN48), Masurika, Tilkalaka(SN4E), Masaka(SN4H), Nyaccha(SN5Y), Vyanga(SN4G), Nilika(SN41) <ul> <li>Identification and chikitsa of -</li> </ul> </li> <li>Ajagallika(SN5Y), Valmika(SN5Y), Panasika, Pashanagardabha(SM1D), Chippa, Kunakha(SN6Y), Anushayi(SP9Y), Kadara(SN9Y), Indralupta(SN90), Darunaka(SN91), Arumshika(SN70), Palitya, Yuvanpidika(SN4V), Padminikantaka(SN5Y), Jatumani(SN4F), Charmakeela, Parivaritika(SN0A), Avapatika, Niruddhaprakasha(SN0A), Sannirudhaguda(SM5Y), Ahiputana(SN5Y), Vrishanakacchu(SN40), Gudabhramsha(SM55)</li> </ul>	3	5	2	1	2
9	Chikitsa of Mamsapradoshaja and	3	16	8	2	8

	Medopradoshaja vikara					
	<ul> <li>Galaganda (SL0Y)</li> <li>Gandamala (SL08)</li> <li>Arbuda (SP72)</li> <li>Shosha (SP2Y)</li> <li>Karshya (SP61)</li> <li>Sthaulya (SP64)</li> <li>Prameha (SM8D)</li> <li>Madhumeha(Diabetes mellitus) (SP60)</li> <li>Medapachaya(Dyslipidaemia) (SP62)</li> <li>Sthoulya(obesity)</li> <li>Arbuda(Neoplasm)</li> </ul>					
10	<ul> <li>Shuddha-Ashuddha chikitsa, Chikitsajanita vikara</li> <li>Concept of Shuddha chikitsa &amp; Ashuddha chiktsa</li> <li>Preventive protocol in the General principles of Drug administration,</li> <li>Concept of Iatrogenic diseases</li> <li>Chikitsa yojana of drug induced Iatrogenic diseases</li> </ul>	3	5	1	2	2
Tota	l Marks		100	61	35	64

Pape	er 2 (Vyadhi Vishesha Chikitsa - 2)					
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l
11	<ul> <li>Chikitsa of Vatavyadhi</li> <li>Vatavyadhi samanya chikitsa</li> <li>Snayugatavata</li> <li>Akshepaka chikitsa (SK 30)</li> <li>Pakshaghata chikitsa(SK22) (Cerebrovascular accident)</li> <li>Ekangavata(SK22), Sarvangavata(SK22)</li> <li>Kampavata(SK52) (Parkinson's Disease)</li> </ul>	1	24	16	6	26

	<ul> <li>Ardita(SK20) (Bell's palsy)</li> <li>Manyastambha(SP44)</li> <li>Jihwastambha(SK22)</li> <li>Avabahuka(SP15), Vishwachi(SK51)</li> <li>Gridhrasi(SP20) (Sciatica)</li> <li>Khanja(SK2Y), Pangu(SK21), Kalayakhanja</li> <li>Padadaha(SK51), Padaharsha(SK54)</li> <li>Parisareeya Nadishotha(Peripheral Neuropathy)</li> <li>Urustambha(SP46)</li> <li>Udarvarta(SM35)</li> <li>Tantrikaanughata(Guillan Barre syndrome), Tantrighata(Motor Neuron Disease), Anuprasthiya-sitamajjachadda shotha(Transverse Myelitis), Peshi dourbalya(Myasthenia Gravis)</li> </ul>					
12	<ul> <li>Chikitsa of Asthi-Majja pradoshaja vikara (SR54) (SR55)</li> <li>Asthisoushirya (Osteoporosis), Asthikshaya (Osteopenia) (SP00)</li> <li>Sandhigata vata (SP12) (Osteoarthritis), Vatakantaka(SP4Y)(Calcaneal Spur),</li> <li>Kateegraha(SP42(Lumbar spondylosis), Greeva graha(SP45)</li> <li>Kroshtuka sheersha</li> <li>Raktaheenatajanya dhatunasha(AvascularNecrosis)</li> <li>Katishoola(Lumbago), Kasheruka vyadhi(Spondylopathies),</li> <li>Asthisankatarbuda(Osteosarcoma)</li> </ul>	2	14	8	4	11
13	<ul> <li>Chikitsa of Pranavaha Srotodushti Vikara (TM2:SL40-SL4Z)</li> <li>Shwasa (SL42), Hikka(SM74)</li> <li>Kasa(SL41), Urahkshat</li> <li>Rajayakshma</li> <li>Tamaka Shwasa(Bronchial Asthma) (SL40)</li> <li>Jirna Shwasakrichchhanika (Chronic Obstructive Pulmonary Disease)</li> <li>Antaraalayi Phuphphusa Vikara ( Interistitial Lung Disease)</li> <li>Vispharah (Bronchiectasis)</li> <li>Phuphphusasruti(Pleural effusion)</li> <li>Phuphphusa arbuda (Lung Cancer)</li> </ul>	2	24	6	4	24
14	Chikitsa of Udakavaha srotodushti vikara	3	10	5	2	8

	<ul> <li>Trishna</li> <li>Shotha(SP91)</li> <li>Udara-Jalodara (Ascites) (SM32)</li> <li>Jaliyovidyutansha vaishamya(Fluid &amp; Electrolyte Imbalance)</li> </ul>					
15	<ul> <li>Chikitsa of Mootravaha srotodushti vikara</li> <li>Mootrakrichchha (SM82)</li> <li>Mootraghata (SM81)</li> <li>Ashmari (SM8C)</li> <li>Mootranalika shotha(UTI), Vrikka koshika shotha(Nephritis),(SM84)</li> <li>vrikka nishkriyata(Renal failure)</li> <li>Mootraashmari(Urolithiasis)</li> <li>Pourusha granthi vriddhi(Benign prostatic hyperplasia)</li> <li>Apavrukkatva(Nephrotic Syndrome)</li> </ul>	3	12	4	4	8
16	<ul> <li>Chikitsa of Purishavaha srotodushti vikara (SR5A)</li> <li>Atisara(SM37)</li> <li>Pravahika(Dysentery)(SM38)</li> <li>Arsha (SM53)</li> <li>Raktatisara(Ulcerative colitis)(SM37)</li> <li>Krimi</li> <li>Bruhadaantra arbuda (Colorectal cancer)</li> </ul>	3	16	4	4	8
Tota	l Marks		100	43	24	85

Pape	e <b>r 3</b> (Vyadhi Vishesha Chikitsa Evam Rasayana, Vajik	arana)				
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l
17	<ul> <li>Chikitsa of Annavaha srotodushti vikara</li> <li>Agnimandya, Aruchi/ Arochaka</li> <li>Ajeerna/ Alasaka/ Vishuchika, Vilambika( SM 3A 3B)</li> <li>Aanaha/ Aatopa/ Aadhmana(SM31)</li> <li>Amlapitta(SM-39), Bhasmaka</li> </ul>	1	16	12	4	14

	<ul> <li>Parinama shoola, Annadrava shoola- (SM 3A,3B,3C,3D,3E), Shoola (SM33)</li> <li>Chhardi(SM-3L)</li> <li>Gulma(SM 3K)</li> <li>Grahani(SM -36)</li> <li>Annadravashoola-Parinamashoola(Acid peptic disease)</li> <li>Amlapitta(Gastro esophageal reflux disease)</li> <li>Grahani(Irritable bowel syndrome)</li> <li>Udarastha karkatarbuda-Malignancies of abdomen (Ca Pancreas, Ca Duodenum/Stomach)</li> </ul>					
18	<ul> <li>Chikitsa of Manovaha srotas dushti vikara</li> <li>Manasika vikara like Kaama, krodha, Lobha, Mada, Maatsarya, Shoka, Bhaya, Dainya, Harsha</li> <li>Unmada roga (SQ03)</li> <li>Apasmara roga(SK30)</li> <li>Atattvabhinivesha(SQ04)</li> <li>Chittodvega &amp; Vishada</li> <li>Chinta(General Anxiety Disorder)</li> <li>Nidra vikara(Sleep Disorder)</li> <li>Bhaavodvega(Somatoform and mood disorder)</li> <li>Pratyabalajanya vikara(Stress induced disorder)</li> <li>Kaamonmada(Psychosexual disorders)</li> <li>Atattvabhinivesha(Obsessive compulsive disorder,Nurotic disorder)</li> <li>Vyaktatva evum swabhav viparyaya(Personality and behavioral disorder)</li> <li>Manoavasada(Depression)</li> <li>Medhya rasayana in Manoroga</li> <li>Identification of Bhutonmada and its basic management</li> </ul>	2	10	8	4	8
19	<ul> <li>Chikitsa of of Antahsravi Granthi vyadhi</li> <li>Avatuka Granthi(Thyroid) Disorders:</li> <li>Manda vatuka(Hypothyroidism) &amp; Tivra vatuka(Hyperthyroidism)(SP9Y)</li> <li>Pravaravatuka Granthi Vyadhis (Parathyroid) Disorders:</li> </ul>	2	10	4	4	4

	Hypoparathyroidism & Hyperparathyroidism					
	<ul> <li>Piyusha Granthi vikara(Pituitary Disorders):</li> </ul>					
	Hypopitutarism-vamanata(Dwarfism)(SP9Y) Atihrisvata & Hyperpitutarism- Dirghakayata(Gigantism) (Atidirgha) and Vikayata(Acromegaly)					
	Udakameha(Diabetes Insipidus)					
	<ul> <li>Adhivrikka granthi vikara(Adrenal gland Disorders):</li> </ul>					
	Hyperaldosteronism- Tivra upavrikkasrava(Addison's disease) & Hypoaldosteronism-Upavrikkasrava mandya(Cushing's Syndrome)					
20	Chikitsa of Vyadhikshamatva vikara	2	8	3	4	3
	<ul> <li>Vyadhikshamatva heenata vikara (Immunodeficiency diseases -Primary and secondary immune deficiency disorders)</li> <li>Atmapratirodha-Kshamatva Vikara (Auto immune disorders)</li> <li>Pratirakshaja(Systemic Lupus Erythematosis-SLE)</li> <li>Vamshakasheru ruk(Ankylosing Spondylitis-AS)</li> <li>Drutotak(Multiple Sclerosis-MS)</li> <li>Aamavata(Rheumatoid Arthritis)</li> <li>Atisamvedanasheelata-janya vyadhi (Hypersensitiviy Reactions)</li> </ul>					
21	Chikitsa of Shukravaha srotasa vikara	3	8	3	4	4
	<ul> <li>Klaibya (SN02)</li> <li>Shukralpata (SN03)</li> <li>Shukradosha</li> <li>Kshinashukra</li> <li>Dhwajabhang</li> <li>Kapourushya(Male hypogonadism)</li> <li>Napunsakatva(Impotence)</li> <li>Vandhyatva(Infertility)</li> </ul>					
22	Chikitsa of Guhya roga	3	8	2	2	2
	• Phiranga(SN31) Upadamsha(SN30)					

	<ul> <li>Phiranga(Syphilis)(SN31)</li> <li>Puyameha(Gonorrhoea)(SN30)</li> <li>Vankshaneeya lasika granthikanarbud(Lymphomagranuloma Inguinale)</li> <li>Phirangiya vrana(Soft Chancroid)</li> <li>Visarpa(Herpes Simplex)(SN4T)</li> </ul>					
23	<ul> <li>Vajikarana</li> <li>Principles, benefits &amp; need for Vajikarana</li> <li>Shuddha Shukra, Vajikarana dravya in Shukravaha srotodushti vikara</li> <li>Vajikarana dravya in Klaibya(infertility) &amp; Shandhatva(impotency)</li> <li>Interpretation of investigation in Shukravaha srotodushti vikara</li> <li>Phalashruti, Sevana kala, Matra &amp; Anupana of various Vajikarana yoga</li> </ul>	3	12	6	3	6
24	<ul> <li>Rasayana</li> <li>Principles, indications &amp; dosage of Rasayana according to the ayu(age)</li> <li>Aachara Rasayana in clinical practice</li> <li>Evidence based Rasayana</li> <li>Naimittika rasayana</li> <li>Medhya rasayana</li> <li>Kanthya rasayana</li> <li>Varnya rasayana</li> <li>Keshya rasayana</li> <li>Chikitsa karmukatva, Matra, Sevana kala &amp; Anupana of various Vyadhihara rasayana</li> </ul>	3	20	6	4	8
25	<ul> <li>Chikitsa of Jarajanya vikara and Indriyapradoshaja vikara</li> <li>Jarajanya vikara(Geriatric Disorders)</li> <li>Indriyapradoshaja vikara(sensory &amp; cranial nerve disorders)</li> <li>Smritilopa(Alzheimer's disease)</li> </ul>	3	8	2	2	12
Tota	l Marks		100	46	31	61

Paper 1	(Vyadhi Vishesha Chikit	sa - 1)										
A3 Cour se out come	Learning Objecti studen	B3 ve (At the end of the session, th ts should be able to)	ie	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
Topic 1	l Kaya, Chikitsa and H	Kayachikitsa - Nirukti, Paribha	asha, Pa	aryaya ar	nd Bheda	(LH :1	NLHT: 1	NLHP: 0)				
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1	Explain the Nirukti, Paril 'Kaya', 'Chikitsa' and 'F	bhasha, Paryaya and Bheda of the t Kayachikitsa'.	a of the term CC MK KH L&PPT M-POS,VV F&S I - L ,REC -Viva,PRN, QZ						LH			
CO1	Advice the appropriate type of Chikitsa to the simulated case			САР	MK	KH	RP,DIS	CBA,Log b ook,VV- Viva	F&S	Ι	-	NLHT1.1
Non Le	ecture Hour Theory							•				
S.No	Name of Activ	ity	Desci	ription of	Theory A	ctivity						
NLHT	o       Name of Activity       Description of Theory Activity         HT 1.1       Selection of the appropriate treatment for a simulated case, enacted role play       Role play - 1 hour         • The Mentor assigns the role (Vaidya, Rogi, and bystander) to 3 students of the allotted batch on a rotation basis for the role-play       • The Mentor assigned roles in the role-play         • Students prepare themselves to perform their assigned roles in the role-play       • The mentor instructs other students(viewers) in the batch to draft an appropriate Chikitsa for the enacted role play based on the Chikitsa bheda (Dvividha, Trividha,etc)         • THe mentor concludes the session with remarks											
Non Le	ecture Hour Practical											

S.No		Name of Practical	Descr	ription of	Practical	Activity	7					
Topic	2 Clinic	al ethics in the practice of Kayachikitsa (LH	H:1 NLH	[ :1 NLHT: 0 NLHP: 4)								
A3		B3		C3	D3	E3	F3	G3	H3	I3	К3	L3
CO7	Explain professi	the ethical principles, effective communication an onalism in clinical practice	ıd	CC	МК	КН	L&PPT	M-POS,VV -Viva,DEB, COM,PRN	F&S	Ι	-	LH
CO7	Practice healthca	good communication skills and professionalism in are	n	AFT- RES	MK	SH	SIM	P-EXAM,P- PRF,PM	F&S	Ι	-	NLHP2.1
C07	Perform	the ethical decision-making skills in clinical prac	tice	AFT- RES	MK	SH	CBL	P-RP,P-EX AM,CBA	F&S	Ι	-	NLHP2.2
Non Lecture Hour Theory												
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
Non L	ecture H	lour Practical										
S.No		Name of Practical	Description of Practical Activity									
NLHP	NLHP 2.1       Communication skill and professionalism       Simulation - bedside 2 hours         • The mentor selects few students from the allotted batch, takes them to the simulation bedside and assigns the role of Doctor and Patient       • The mentor provides the instructions to be followed by each one (doctor, patient and viewer and advises them to play their roles efficiently         • The Viewers (Students) need to be vigilant and notify any discrepancy/breech during the process of communication/professionalism between doctor and patient         • The mentor concludes the session with final remarks						tion bedside and viewers) ring the					

NLHP	2.2 Ethical Principles in Clinical Practice	Practice Case based learning - 2 hours The Mentor provides case scenarios pertaining to								
		<ul> <li>Patient's Autonomy (informed consent vs Coercion)</li> <li>Balancing Beneficence and Non- Maleficence</li> <li>Ethical handling of end-of-life decisions</li> <li>Resource allocation in a crisis</li> <li>Confidentiality</li> <li>Ethical handling of medical errors</li> </ul> Students enact the scenario, discuss and present the given case scenario incorporating the conclinical ethics The mentor observes the ethical decision making skills of the students The mentors serve as observers and facilitators The mentors provide the concluding remarks							concept of	
Торіс	3 Samprapti vighatana, Chikitsa sutra, Chikitsa, Aush	nadha yoga and	l Pathyaa	pathya o	f Jvara (S	P51/TM2) (I	LH :11 N	LHT:	7 NLHP:	4)
A3	B3	C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO1, CO3	Detail the treatment algorithm for Jvara according to stages Shadkriyakala	of CC	MK	КН	L&PPT ,L&GD	P-REC,T-C S,VV-Viva	F&S	Ι	-	LH
CO1, CO3	<ul> <li>CO1, Create a treatment plan for Saama stages in Jvara and explain</li> <li>CO3 Taruna jvara Chikitsa (Nava jvara Chikitsa/Pachana-upaya</li> <li>Chikitsa in Jvara)</li> </ul>		МК	КН	REC,L &PPT ,L&GD	T-CS,P-RE C,VV-Viva	F&S	Ι	-	LH
CO1, CO3	Create a treatment plan for Nirama stages in Jvara and explait Purana jvara chikitsa(Jeerna jvara chikitsa)	in CS	МК	КН	DIS,RE C,L&PP T	P-EXAM,V V-Viva,T- CS	F&S	Ι	-	LH

CO1, CO3	Describe the management of Nija jvara and Sannipata jvara	CC	МК	KH	L&PPT ,REC,L &GD	T-CS,VV- Viva,P- EXAM	F&S	Ι	-	LH
CO1, CO3	Describe the management of Agantuja jvara	CC	MK	KH	PER,L& PPT ,L&GD	PRN,T-CS, VV-Viva	F&S	Ι	-	LH
CO1, CO3	Detail the Dhatugata jvara Chikitsa	CC	МК	KH	L,L&G D,L&PP T ,DIS	T-CS,PRN, VV-Viva	F&S	Ι	-	LH
CO1, CO3	Describe the management of Vishama jvara	CC	MK	KH	L&PPT ,REC,L	INT,VV-Vi va,P-EXA M,T-CS	F&S	Ι	-	LH
CO1, CO3	Plan the treatment according to the status of Ojus in Punaravartaka jvara	CS	MK	KH	REC,L, L&PPT	VV-Viva,P RN,DEB,T- CS	F&S	Ι	-	LH
CO1, CO3	Differentiate the appropriate Shodhana and Shamana Chikitsa in Jvara	СК	MK	KH	L&PPT ,L,L&G D	PRN,INT,V V-Viva	F&S	Ι	H-KB	LH
CO1, CO3	Explain the Bahirparimarjana chikitsa and Daivavyapasraya chikitsa in the management of Jvara	CAN	МК	KH	L&PPT ,L&GD	T-CS,VV- Viva,INT	F&S	Ι	-	LH
CO1, CO3, CO4	Prescribe the Pathyapathya and Rasayana in the management of Jvara	CS	МК	KH	L,DIS,L &PPT	DEB,PRN,I NT,T-CS	F&S	Ι	-	LH
CO1, CO2	Discuss the Avastha and construct the Chikitsa yojana of Jvara	СС	МК	KH	CBL,DI S,TBL	P-CASE,P RN,P- VIVA	F&S	Ι	-	NLHT3.1

CO1, CO2	Discuss and Aag	the clinical understanding of Nija jvara,Sannipata jv gantuja jvara and construct the Chikitsa yojana.	ara	CC	МК	KH	PER,CB L,BS,SI M	P-VIVA,IN T,P-EXAM	F&S	Ι	-	NLHT3.2
CO1, CO3	Discuss	the importance of Langhana Chikitsa in Jvara		CC	МК	KH	L&GD, FC,CBL	T-CS,CL- PR	F&S	Ι	-	NLHT3.3
CO1, CO3	Point ou in Jvara	it the importance of Ksheera prayoga and Ghrita pray	/oga	CAN	МК	КН	CBL,L &GD,F C	INT,T- CS,PRN	F&S	Ι	-	NLHT3.4
CO1, CO3	Discuss jvara, P	the clinical understanding of Dhatugata jvara,Vishar unaravartaka jvara and construct the Chikitsa yojana	na	CC	МК	KH	REC,L &GD,D IS	PRN,T- CS,DEB	F&S	Ι	-	NLHT3.5
CO1, CO3	Discuss the clinical understanding and management of various varieties of Jvara.		us	CC	МК	KH	L&GD, PBL,BS	P-EXAM,P RN,T-CS	F&S	Ι	-	NLHT3.6
CO1, CO3	State the Phalashruti,Sevanakala,Matra,Anupana of the given Aushadha kalpana		n	СК	MK	K	SDL,PE R,L&G D	INT,DEB,P RN	F&S	Ι	-	NLHT3.7
CO1, CO2, CO3, CO6, CO7	Demonstrate and write a case and construct the Chikitsa of Jvara		vara	PSY- GUD	МК	SH	CBL,C D,D-BE D,LRI	PRN,P-VIV A,P-CASE, P-EXAM	F&S	Ι	-	NLHP3.1
Non Lo	ecture H	lour Theory					-					
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT	3.1	Clinical understanding and treatment of Jvara according to its different stages(Avasthanusara Jvara chikitsa)	ara <b>Team based learning, Discussion</b> Isara									

		<ul> <li>A few students are selected and divided into 3 teams.</li> <li>Each team is allotted a specific stage of Jvara (Ama, Pachyamana, and Pakva) along with its management.</li> <li>The teams refer to and compile material from library sources and prepare a presentation.</li> <li>Each team presents the allotted topic.</li> <li>Other students are encouraged to interact and discuss the presentations under the supervision of the mentor.</li> <li>The mentor provides concluding remarks on the presentations.</li> </ul>
NLHT 3.2	Clinical understanding of Nija jvara,Sannipataja jvara and Agantuja jvara and its Chikitsa yojana	Case Based Learning, Simulation
		<ul> <li>The mentor allots simulated cases on the topic to the students.</li> <li>The students are expected to diagnose and chart out an appropriate Chikitsa yojana along with its Pathyapathya.</li> <li>A discussion is generated among the students on the given topic.</li> <li>The mentor concludes the class with remarks.</li> </ul>
NLHT 3.3	Importance of Langhana Chikitsa in Jvara	Flipped class room, Group discussion
		<ul> <li>Students are asked to prepare a presentation on the role of Langhana Chikitsa in Jvara.</li> <li>The next day, students present the allotted topic.</li> <li>Students are encouraged to participate in the discussion.</li> <li>The mentor supervises the process and provides guidance.</li> </ul>
NLHT 3.4	Importance of Ksheera prayoga and Ghrita prayoga in Jvara	Group Discussion, Flipped class room
		<ul> <li>The students are divided into 2 groups.</li> <li>Topic is assigned to two groups as follows-:</li> <li>One group refers to the topic of Ksheera Prayoga in Jvara.</li> <li>The other group is allotted the topic of Ghrita Prayoga in Jvara.</li> </ul>

		<ul> <li>Both groups present their respective topics in the class using PowerPoint.</li> <li>A discussion is conducted among the students on the given topic.</li> <li>The mentor supervises the discussion and concludes the class with remarks.</li> </ul>
NLHT 3.5	Clinical understanding and management of Dhatugata jvara,Vishama jvara and Punaravartaka jvara	Group Discussion, Recitation
		• The students are instructed to refer to the management of Dhatugata Jvara Visnama Jvara and Punaravartaka jvara from Samhitas/Ayurvedic Literature
		<ul><li>The students are asked to start a discussion on the topic.</li><li>The mentor supervises the process and provides guidance.</li></ul>
NLHT 3.6	Understanding the Nidana panchaka and framing the management of various varieties of Jvara through case scenario.	Problem based learning, Brainstorming
		<ul> <li>The students are divided into different groups.</li> <li>Each group is allotted different varieties of Jvara through case scenario</li> <li>All groups members discuss the problem and formulate a treatment protocol with its rationale</li> <li>The students start interaction and discussion on the topic.</li> <li>The mentor supervises the process and provides guidance.</li> </ul>
NLHT 3.7	Phalashruti,Sevanakala,Matra,Anupana of the given Aushadha kalpana	Self directed learning, Presentation
	<ul> <li>Shadanga paneeya</li> <li>Amritottaram Kashaya</li> <li>Indukantam Kashaya</li> <li>Vishamajvara nashaka kashaya</li> <li>Sudarshana churna</li> <li>Mrityunjaya rasa</li> <li>Amritarishta</li> <li>Pippalyadi Ghrita</li> </ul>	<ul> <li>The students are divided into small groups.</li> <li>Each group is allotted specific Aushadha yogas.</li> <li>The students are asked to refer to the Aushada kalpana with its <ul> <li>Phalashruti</li> <li>Sevanakala</li> <li>Matra</li> <li>Anupana</li> </ul> </li> <li>The students compile the material, prepare a presentation, and present it to the class.</li> <li>Students are encouraged to interact with the presenter under the supervision of the mentor.</li> </ul>

	<ul> <li>Aparajita dhoopa</li> </ul>	• The mentor provides concluding remarks on the presentations.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 3.1	Diagnose and constuct the Chikitsa yojana of Jvara(Nava jvara/Purana jvara/Nija jvara/Sannipata jvara/Agantuja jvara/Dhatugata jvara/Vishama jvara/Punaravartaka jvara)	Cases in the IPD 2 Bedside cases = 4 hours Demonstration bedside
		<ul> <li>The Mentor takes students to the ward/OPD of Kayachikitsa, dividing them into small groups.</li> <li>Mentor assigns each group a case OR Students in the clinical batch select a case.</li> <li>Mentor shows the construction of the Chikitsa yojana and documenting it in the following steps:</li> <li>The students shall introduce themselves to the patient and take verbal consent.</li> <li>The students shall interrogate the patient and document the clinical history.</li> <li>The students further brief the patient about the steps in examination that will be performed on him/her.</li> <li>The students perform the relevant clinical examinations adopting the Ayurvedic and conventional clinical methods of examination.</li> <li>The necessary investigations are proposed by the students.</li> <li>The students analyze the Nidana panchaka and the extent of alteration in Samprapti ghataka.</li> <li>The students interpret the collected information and state the Vyadhi nama (arrive at a tentative clinical diagnosis) following the method of Vyavachedaka nidana (differential diagnosis)</li> <li>The students construct the chikitsa yojana for the diagnosed disease.</li> <li>The students address the patient's doubts &amp; acknowledge his/her cooperation in the avan tables.</li> </ul>

Topic 4	4 Anuk	<ul> <li>The students present and discuss the documented case.</li> <li>The mentor facilitates the case presentation.</li> <li>The mentor evaluates the student's performance, knowledge, psychomotor and communication skills using rubrics or checklists and gives feedback.</li> <li>Remedial measures should be implemented if found necessary.</li> </ul>										
A3	B3			C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO2	Formulate the Chikitsa yojana of Anukta Roga considering its Nidana panchaka			CS	МК	КН	L&PPT	M-POS,QZ ,DEB,PRN, T-CS	F&S	Ι	-	LH
CO1, CO2	Understand the Dosha-dushyadi vivechana in the management of Anukta roga		nt of	CC	МК	K	LS,TBL ,IBL,RP ,LRI	CL-PR,OS PE,M- POS,QZ ,OSCE	F	Ι	-	NLHT4.1
CO1, CO2	Constru its com	Construct the Chikitsa yojana in a case on Anukta roga along with its complications			NK	КН	PBL,SI M,CBL, LRI,D- BED	PUZ,P-CA SE,SP,P- EXAM	F&S	Ι	-	NLHP4.1
Non Lo	ecture H	lour Theory			•							
S.No		Name of Activity         Description of Theory Activity										
NLHT 4	4.1	Understanding of Samprapti vighatana in Anukta roga	Anukta Student should illustrate the treatment of Anukta Roga based on Dosha-dushyaadi vir given situation through Poster presentation					adi vivech	ana in the			

		<ul> <li>The Mentor instructs the students to refer tutorials, library resources, and reading materials on the allotted common situation of clinical findings of Anukta roga</li> <li>The students in groups are instructed to present their knowledge and ideas on treating Anukta yoga based on Dosha-dushyaadi vivechan by preparing posters, charts, or e-posters.</li> <li>Students will accordingly present the discussed topics through poster</li> <li>The Mentor encourages the activity &amp; gives concluding remarks</li> </ul>
Non Lecture	e Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 4.1	Chikitsa yojana of Anukta roga & its complications	Students are able to plan the Chikitsa yojana for the Anukta roga & its Upadrava understanding the Doshadushya sammurchhana in a given clinical case/case scenario Case based learning - 2 Short cases x 1hour = 2 hours per batch
		<ul> <li>The Mentor takes students to the ward/OPD of Kayachikitsa &amp; assigns a case of Anukta Roga.</li> <li>Mentor shows the art of writing a rational treatment prescription and documenting it in the following steps:</li> <li>The students shall introduce self to the patient and take verbal consent.</li> <li>The students shall interrogate the patient and document the clinical history.</li> <li>The students further brief the patient about the steps in examination that will be performed on him/her.</li> <li>The students perform the relevant clinical examinations adopting the Ayurvedic and conventional clinical methods of examination of the involved system</li> <li>The students interpret the collected information and state the vyadhi nama (arrive at a tentative clinical diagnosis) following the method of vyavachedaka nidana (differential diagnosis)</li> <li>The students formulate a rational treatment prescription for the diagnosed disease &amp; plan the appropriate chikitsa yojana for the upadrava of anukta vyadhi if any .</li> <li>The students recommend pathyaapathya to the patient. &amp; acknowledge his/her cooperation in</li> </ul>

the case taking.
• The students present and discuss the documented short case.
• The mentor facilitates the case presentation.
• The mentor evaluates the student's performance, knowledge, psychomotor and
communication skills using rubrics or checklist and gives the feedback.
<ul> <li>Remedial measures should be implemented if found necessary.</li> </ul>

## Topic 5 Chikitsa of Sankramika jvara (LH :2 NLHT: 4 NLHP: 8)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO2, CO3	Describe Sankramika jvara and Kasheruka-jeeva-janya vyadhi(zoonotic diseases).Explain the Ayurveda management of Vishama jvara(Malaria) and Antrika jvara(Typhoid) by comprehending the contemporary therapeutic modalities	CC	МК	К	L&PPT ,L_VC	QZ ,PRN	F&S	Ι	-	LH
CO1, CO2, CO3	Explain the ayurveda management of Vata-shlaishmika jvara(Influenza), Shwasanaka jvara(Pneumonia), COVID and H1N1 by comprehending the contemporary therapeutic modalities	CC	MK	K	L&PPT ,L_VC, L	QZ ,PRN	F&S	Ι	-	LH
CO1, CO2, CO3	Apply the Ayurveda concepts in the management of Mastishkavarana shotha jvara(Meningitis) Mastishka shotha(Encephalitis) and Dhanurvaata(Tetanus) by assessing the contemporary therapeutic approaches	САР	DK	KH	L&GD, PER,DI S	CL-PR,PR N,QZ	F&S	Ι	-	NLHT5.1
CO1, CO2, CO3	Discuss the contemporary therapeutic modalities and frame ayurveda management of Granthika sannipata jvara(Plague), and Leptospirosis	CC	NK	K	BL,L& GD,DIS ,BS	QZ ,PRN,C L-PR	F	Ι	-	NLHT5.2
CO1, CO2, CO3	Apply the Ayurveda concepts in the management of Beejanu jvara(Anthrax), and Peeta jvara(Yellow fever) by assessing the contemporary therapeutic approaches	САР	NK	КН	DIS,BS, L&GD, FC	CL-PR,PR N,QZ	F	Ι	-	NLHT5.3
CO1, CO2,	Summarize the Ayurveda management of Sandhiga sannipata jvara(Chikungunya), Dandaka jvara(Dengue) and	CS	DK	K	L&GD, RP	PRN,QZ	F	Ι	-	NLHT5.4

CO3	Shleepa approac	da(Filariasis) by assessing the contemporary therape hes	eutic									
CO1, CO2, CO3	Demonstrate the Chikitsa yojana & prepare case record in cases of Sankramika jvara after performing relevant clinical examination		PSY- MEC	МК	SH	D-BED, DL,CB L,PT,P BL	CBA,Mini- CEX,P-VI VA,OSCE, P-PRF	F&S	Ι	-	NLHP5.1	
CO1, CO2, CO3	CO1, Commemoration of International days CO2, CO3		PSY- MEC	DK	SH	PBL,RP ,RLE,F V	P-RP,Log b ook,P-SUR, P-PS,INT	F	Ι	-	NLHP5.2	
Non Le	Non Lecture Hour Theory											
S.No	Name of ActivityDescription of Theory Activity											
NLHT 5	5.1	Approach to the diagnosis and management of Mastishkavarana shotha jvara(Meningitis) Mastishka shotha(Encephalitis) and Dhanurvaata(Tetanus	<ul> <li>Team based learning</li> <li>The students are divided into different teams</li> <li>One team is asked to present etiopathogenesis and diagnosis of Mastishkavarana shotha jvara(Meningitis),</li> <li>The second team presents about the topic related to etiopathogenesis and diagnosis of Mastishka shotha(Encephalitis),</li> <li>The third team presents a detailed presentation about the topic related to etiopathogenesis and diagnosis of Dhanurvaata (Tetanus)</li> <li>The fourth team does a presentation on the investigations and Principles of management of all</li> <li>Followed by group discussion</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks.</li> </ul>							hotha s of genesis and ement of all		
NLHT 5	VLHT 5.2       Approach to the diagnosis and management of Granthika sannipata jvara(Plague) and Leptospirosis       Blended learning         • Students are given online learning material like description of the online link and scier					scientific						

		<ul> <li>research articles</li> <li>Students are divided into various small groups, and they will be allotted topics related to etiopathogenesis, diagnosis, principles of management of Granthika sannipata jvara (Plague) and Leptospirosis</li> <li>Each group is asked to do a presentation related to the topic given</li> <li>Group discussion follows</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul>
NLHT 5.3	Approach to the diagnosis and management of Beejanu jvara (Anthrax), and Peeta jvara (Yellow fever)	<ul> <li>Flipped classroom</li> <li>Student are asked to prepare notes and PPT after referring all the available books and online study material</li> <li>On the coming day they are asked to lead the class</li> <li>Followed by Group Discussion</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul>
NLHT 5.4	Approach to the diagnosis and management of Sandhiga sannipata jvara (Chikungunya) Dandaka jvara(Dengue) and Shleepada (Filariasis),	<ul> <li>Role play</li> <li>The students are divided into many teams</li> <li>Each team will be assigned the role of doctor, Patient and bystander</li> <li>They should do the role of the doctor patient and bystander</li> <li>The other members of team watch the role play and contribute for its refinement</li> <li>Mentor gives the concluding remarks</li> </ul>
Non Lecture H	lour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 5.1	Bedside case taking of the given Sankramika jvara	• The Mentor takes students to the ward/OPD of Kayachikitsa, dividing them into the clinical

batch, selecting a case.Mentor shows the art of writing a rational treatment prescription and documenting it in the

			<ul> <li>followin</li> <li>The stud</li> <li>The stud</li> <li>The stud</li> <li>The stud</li> <li>The stud</li> <li>conventi</li> <li>The nece</li> <li>The inve</li> <li>The stud</li> <li>tentative diagnosi</li> <li>The stud</li> <li>The stud</li> </ul>	g steps: lents shall lents furthe ner. lents perfor conal clinic essary inve estigation r lents interp clinical di s) lents detern lents formu	introduce to interrogate er brief the rm the releval method estigations eports are port the col agnosis) for mine the So alate a ratio	themselves the patien patient ab- evant clinic s of examin are propos interpreted lected info ollowing the adhyaasadl onal treatm	to the patient t and documen out the steps in al examination nation of the in ed by the stude rmation and st ne method of V nyata (prognos ent prescriptio	and take v at the clini a the exam as adopting avolved sy ents. ate the Vy yavached is) of the con for the c	verbal co cal histo ination g the Ay stem radhi na aka nid disease liagnose	onsent. ory. that will b yurvedic an ma (arrive ana (differ in the patic ed disease.	e performed nd at a ential ent.
<ul> <li>The students formulate a rational treatment</li> <li>NLHP 5.2</li> <li>Public awareness activity related to Malaria/hepatitis/epidemic</li> <li>preparedness/vaccination/meningitis/encephalitis</li> <li>Kinesthetic learning students are asked to do an exhibition of the same for the public</li> <li>Role play- The students are encouraged to preventing these diseases and swift action</li> <li>Public outreach program- Conduct a sur infectious diseases and educate them. OR</li> <li>Organize a rally to create awareness about</li> <li>conduct medical camps for these disease</li> <li>Prepare a report with a Geotagged photogram</li> </ul>					World hepatiti agitis day /Wor I to make poste lic OR to perform a r on on witnessin survey among to R out Prevention e ograph	s day /day d enceph ers on vari ole-play d ng the earl the public OR	of Epic alitis da ous asp epicting y symp to asses	demic prep ay( 6 Hours ects of the g the impor toms. OR ss the susce	paredness s) illness and rtance of eptibility of		
Topic 6	6 Chiki	tsa of Rasa pradoshaja vikara (LH :12 NLHT: 6	NLHP: 16)	i		i	1		1		
A3		B3	C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1, CO3	Describ the Sam	e the Chikitsa sutra of Rasavaha sroto dushti and explain prapti vighatana, Chikitsa sutra and chikitsa of Pandu	CC	МК	КН	REC,L &PPT	VV-Viva,T -OBT,S-LA	F&S	П	-	LH

	roga (SL80)					Q,P-VIVA				
CO1, CO3	Design a treatment algorithm for Pandu roga according to the stages of Shadkriyakala	CS	МК	КН	L&PPT	QZ ,P-VIV A,VV-Viva	F&S	II	-	LH
CO1, CO3	Construct a Chikitsa yojana (treatment plan) including Rasayana and Pathyaapathya for Pandu roga.State the Phalashruti, Aushadha Sevana-kala, matra, Anupana of the Aushadha yoga in Pandu roga • Navayasa churna • Tapyadi Lauha • Lohasava • Punarnava mandoora • Dadimadi ghrita • Drakshavalehya	САР	МК	КН	L&PPT	QZ ,VV-Vi va,P-VIVA, T-OBT	F&S	II	_	LH
CO1, CO2, CO6	Explain the etiopathogenesis, diagnosis, treatment of Raktalpata (Anaemia) and Kuposhanajanya Raktalpata (Nutritional Anaemia)	CC	DK	K	L&PPT ,L_VC	QZ ,P-VIV A,VV-Viva	F&S	II	-	LH
CO2, CO6	Chart the etiopathogenesis, morphological changes in the Rudhiravarnika(RBC), clinical diagnosis and treatment of Anuvanshika rakta vikara. (Haematopoietic diseases)a. Thalassemia b. Sickle cell Anaemia c. Haemolytic anaemia	САР	NK	K	SDL,DI S,PER,P L	QZ ,M-CH T,M-POS,P RN,VV- Viva	F	II	-	NLHT6.1
CO1, CO2, CO6	Discuss the etiopathogenesis, diagnosis and treatment of Raktakarkah (Leukemia)	CC	NK	K	PER,DI S,PL	VV- Viva,WP	F	II	-	NLHT6.2
CO1, CO2,	Discuss the etiopathogenesis, diagnosis, treatment of Rudhiravarnika vikara (Haemoglobinopathies).	CC	NK	К	PL,SDL ,DIS,FC	QZ ,WP,V V-Viva	F	II	-	NLHT6.3

CO6										
CO1, CO3	Explain the Samprapti vighatana and chikitsa of Hridroga and Hridshoola ( <b>SL61, SL6Z</b> )	CC	MK	K	L&PPT	VV-Viva,T- CS	F&S	Π	-	LH
CO1, CO3	Construct a Chikitsa yojana including the Rasayana and Pathyaapathya for Hridroga and state the Phalashruti, Aushadha sevana kala, Matra, Anupana of the following Aushadha yoga in Hridshoola/Hridroga. ( <b>SL61, SL6Z</b> ) • Prabhakara vati • Hridayarnava rasa • Arjunarishta • Drakshasava • Nagarjunabhra rasa	САР	МК	КН	L&PPT	VV-Viva,T -OBT,P-VI VA,PUZ,Q Z	F&S	II	-	LH
CO1, CO2, CO6	Explain the etiopathogenesis, diagnosis and treatment of Uchcha Raktachapa (Hypertension) and Nyuna Raktachapa (Hypotension)	CC	МК	К	L&PPT ,L_VC	QZ ,T-CS, VV-Viva	F&S	II	-	LH
CO2, CO6	Demonstrate an algorithm for etiopathogenesis and diagnosis of Samanya parisancharana- tantragata- roga (common cardiovascular diseases) and discuss the treatment strategies in brief	САР	DK	КН	DIS,PL, SDL	VV- Viva,QZ , M-CHT,M- MOD	F&S	II	-	NLHT6.4
CO1, CO2, CO6	Discuss the etiopathogenesis, diagnosis along with treatment of Raktapravaha-hinata-janya hridroga - Hritshoola, Hritpeshiraktalpata, and Hritpeshirodhah (Coronary Artery Diseases- Angina Pectoris, Ischemic heart disease and Myocardial Infarction).	СС	DK	K	TBL,DI S,PBL	PUZ,QZ ,VV-Viva	F&S	II	-	NLHT6.5
CO1,	Discuss the etiopathogenesis, diagnosis along with principles of	CC	DK	K	DIS,TB	T-OBT,VV-	F&S	II	-	NLHT6.6

CO2, CO6	management in Raktaja Hridghaatah (Congestive Cardiac failure) and Hritpaatah (Cardiac arrest and conductive disorders of the cardia).				L,PBL	Viva,T-CS				
CO1, CO3	Explain the Samprapti vighatana, Chikitsa sutra incorporating the applicable Shadvidhopakrama in Aamavata (Rheumatoid Arthritis) ( <b>SP11</b> ).	CC	МК	К	L&PPT	VV-Viva,S- LAQ	F&S	II	-	LH
CO1, CO3	Design a treatment algorithm according to the stages of Shadkriyakala and construct a chikitsa yojana including Pathyapathya for Aamavata.	CS	МК	КН	L&PPT	T-OBT,T- CS	F&S	II	-	LH
CO1, CO3	<ul> <li>State the Phalashruti, Sevana kala, Matra, and Anupana of the Aushadha yoga in Aamavata.</li> <li>Panchakola kvatha</li> <li>Amavatari rasa</li> <li>Ajamodadi churna</li> <li>Maharasnadi kvatha</li> <li>Yogaraja guggulu</li> <li>Simhanada guggulu</li> <li>Eranda taila</li> <li>Brihat saindhavadi taila</li> </ul>	СК	МК	K	L&PPT	QZ ,T-OBT ,VV- Viva,PUZ	F&S	П	_	LH
CO1, CO3	Describe the Samprapti vighatana of Madatyaya and explain the Chikitsa-sutra along with Chikitsa, Pathya-apathya of Madatyaya.	CC	DK	К	L,L&PP T	VV-Viva	F	Π	-	LH
CO1, CO3	State the Phalashruti, Aushadha sevana kala, Matra and Anupana of the following aushadha yoga in Madatyaya ( <b>SQ20</b> ) • Shrikhandasava • Kharjuradi mantha	СК	DK	K	L,L&PP T	VV-Viva	F	П	-	LH

	•	Madiphala rasayana Drakshadi kashaya Ashtanga lavana										
CO2, CO5, CO6	Demons on a ma	strate the steps of Cardio Pulmonary Resuscitation nnequin (Simulator) in a simulating laboratory.	(CPR)	PSY- MEC	МК	SH	W,D-M, SIM,PT	P- EXAM,Log book,SA,O SPE,CHK	F	II	-	NLHP6.1
CO1, CO2, CO3, CO6, CO7	Sketch a Rasa pr	a rational treatment prescription for the diagnosed adoshaja vikara	case of	PSY- GUD	МК	SH	D-BED, LRI,CD ,PER,PS M	DOAP,P-V IVA,CBA, CHK,CWS	F&S	П	-	NLHP6.2
CO1, CO2, CO3, CO6, CO7	Design vikara.	a Chikitsa yojana for the clinical case of Rasa prae	loshaja	PSY- GUD	МК	SH	CD,PER ,PSM,L RI,CBL	CBA,P-CA SE,CWS ,R K,PP- Practical	F&S	П	-	NLHP6.3
Non L	ecture H	lour Theory						•			•	
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
NLHT	6.1	An insight into Anuvanshika rakta vikara (Haematopoietic diseases) and their chikitsa.	<ul> <li>Presentation of e-posters/ posters/charts</li> <li>The students gain an insight into the etiopathogenesis, morphological changes in the RBC, clinical diagnosis of Haematopoietic diseases along with their chikitsa through the activity of e-poster/poster/charts presentation.</li> <li>The mentor allots the topics to a few students in class.</li> </ul>							, clinical		

		<ul> <li>The students are instructed to collect adequate information and materials related to the topic by utilizing library facility and e-resources.</li> <li>Student prepare e-posters/posters/ charts related to their topics.</li> <li>On the day of presentation, the students are given a brief introduction on the topic by the mentor as a set induction.</li> <li>It is followed by students presenting their e-posters/posters/charts during the alloted class.</li> <li>All students involve in a discussion on the topics presented.</li> <li>The students clarify their doubts with the presenter and the mentor.</li> <li>The mentor gives the concluding remarks</li> </ul>
NLHT 6.2	Leukemia and its treatment	Oral presentation using Audio-visual aids An audio-visual presentation on different varieties of Leukemia along with its treatment to have a gross understanding about the disease.
		<ul> <li>The mentor allots the topics to a randomly picked group of students on a prior date.</li> <li>The students refer the related material utilizing institutional library facilities and e-resources and prepare their oral presentations using audio visual aids.</li> <li>The students in the class are given a brief introduction on the topic by the mentor as a set induction on the day of presentation.</li> <li>The students proceed with their oral presentations followed by a classroom discussion.</li> <li>Students clarify their doubts with the presenter/ mentor.</li> <li>The mentor gives the concluding remarks.</li> </ul>
NLHT 6.3	Haemoglobinopathies	<ul> <li>Flipped classroom</li> <li>Students learn the varieties of etiopathogenesis, diagnosis, and treatment for Haemoglobinopathies.</li> <li>The students learn and come prepared for the given topic.</li> <li>The mentor gives an introduction about Haemoglobinopathies as a set induction.</li> <li>Students discuss their views on the given topic and put forth their queries to the mentor.</li> </ul>

		<ul><li>The Mentor answers the queries and motivates a healthy interactive session.</li><li>The mentor concludes with an appreciation to the students for their interactive participation.</li></ul>
NLHT 6.4	Common Cardiovascular Diseases	Making of charts/ Model making Student learn to classify different Cardio vascular diseases and discuss about their treatment principles in brief, using charts and models.
		<ul> <li>Mentor introduces the topic and gives sufficient time for students to prepare the materials.</li> <li>Students present charts/ models either individually or in groups.</li> <li>Students are encouraged to discuss on the topic.</li> <li>The Mentor concludes the topic.</li> </ul>
NLHT 6.5	Diagnosis and treatment of Raktapravaha-hinata- janya hridroga with special reference to Coronary Artery Diseases	<b>Problem based learning/ Case scenario</b> Students are encouraged to recognise the abnormality in ECG and interpret the changes related to Coronary artery diseases and plan the suitable treatment.
		<ul> <li>The students are given a brief introduction to the topic by their mentor.</li> <li>The mentor presents various case scenarios along with abnormal patterns of ECG.</li> <li>The mentor discusses the probable diagnosis and possible treatment plans.</li> <li>The students discuss in small groups and present their findings mentioning the treatment.</li> <li>Finally Mentor concludes the topic.</li> </ul>
NLHT 6.6	Diagnosis and management of Raktaja Hridghaatah and Hritpaatah (Congestive Cardiac failure, Cardiac arrest and Conductive disorders of the Cardia)	<b>Problem-based learning/ Case scenario</b> Students are encouraged to recognize the abnormality in ECG and interpret the changes related to Congestive Cardiac failure, Cardiac arrest, and Conductive disorders of the Cardia. Suitable planning of treatment is also studied. Refer to the steps mentioned in NLHT 6.5
Non Lecture I	Iour Practical	

S.No	Name of Practical	Description of Practical Activity
NLHP 6.1	Cardio Pulmonary Resuscitation (CPR) Description	<b>Workshop -</b> Hands on training program on CPR (Utilisation of 8 NLHP)) Preferable occasion shall be WORLD HEART DAY (If not possible, any convenient time in the given term must be utilised).
		<ul> <li>Students are made into small groups and sent to the simulation laboratory.</li> <li>A pre-test analysis of students' knowledge on CPR is done by sharing a questionnaire to each student.</li> <li>Demonstrator demonstrates the procedure of CPR on the mannequin.</li> <li>Each student shall perform the CPR technique on the mannequin.</li> <li>Student's skill evaluation is done by the mentor through any suitable assessment method like following OSPE stations.</li> <li>A post-test analysis of students' knowledge on CPR is done by sharing a questionnaire to each student and compared with pre-test scores.</li> <li>Remedial measures are suggested if needed.</li> </ul>
NLHP 6.2	Short cases presentation in Rasa pradoshaja vikara	<ul> <li>Case taking, documentation and presentation of short clinical cases from any of the Rasa Pradoshaja Vikara, selected from the OPD of Kayachikitsa of the attached treatment hospital.</li> <li>2 short cases = 2 NLHP per batch</li> <li>Type of cases to be selected:</li> <li>Pandu Roga (Any variety), Hridroga, Hritshoola, Madatyaya, Uchcha raktachapa, Bhrama.</li> <li>Requirement: Students must document and demonstrate a minimum of 2 short cases per clinical batch in their clinical diary/ clinical observation book. Later short cases may be chosen from the list to document in the case record.</li> <li>Refer the short case framework as in NLHP 5.1</li> </ul>
NLHP 6.3	Long cases presentation in Rasapradoshaja vikara	<ul> <li>Case taking, documentation and presentation of Long clinical cases from any of the Rasa Pradoshaja Vikara, selected from the IPD of Kayachikitsa of the attached treatment hospital. (3 Long cases = 6 NLHP per batch)</li> <li>Type of cases: Any variety of Pandu Roga, Aamavata, Hridroga, Hritshoola, Madatyaya</li> </ul>

		<ul> <li>Requirenclinical l from the</li> <li>Refer the</li> </ul>	ment: Stud batch in the list to doc ne Long cas	ents must eir clinical ument inte se framew	document a diary/ clin the case r ork as men	and demonstra ical observatio ecord. tioned in NLH	te a minim on book. L IP 3.1	um of ater lor	<b>3 Long cas</b> ag cases ma	ses per ly be chosen
Topic '	7 Chikitsa of Rakta pradoshaja vikara (LH :22 NLHT: 11	NLHP: 1	8)		1			1		
A3	B3	C3	D3	<b>E3</b>	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1, CO3	Explain the Chikitsa sutra of Rakta Pradoshaja vikara. Differentiate the Samprapti vighatana, Chikitsa sutra and chikitsa of Koshthashrita Kaamala with Shakhashrita Kaamala. ( <b>SM41, SM42, SM43</b> )	CC	МК	К	L&PPT ,REC	T-OBT,VV- Viva	F&S	II	-	LH
CO1, CO3	Design a treatment algorithm for Koshthashrita Kaamala and Shakhashrita Kaamala as per the stages of Shadkriyakala. Describe the Chikitsa of Kumbha Kaamala, Halimaka (laaghavaka, alasa)	CS	МК	КН	L&PPT ,L,DIS	T-OBT,VV -Viva,P- VIVA	F&S	II	-	LH
CO1, CO3	Construct a Chikitsa yojana including the Pathyaapathya in Koshthashrita Kaamala & Shakhashrita Kaamala and state the Phalashruti, Aushadha sevana kala, Matra, Anupana of the Aushadha yoga in Kaamala roga. • Vasaguduchyadi kashaya • Patoladi kvatha • Yakrutplihari lauha • Arogayavardhini vati • Drakshavalehya • Mahatiktaka ghrita • Triphala kashaya	САР	МК	КН	L&PPT	VV-Viva,T- OBT,WP	F&S	Π	-	LH

CO1, CO2, CO6	Discuss the etiopathogenesis, diagnosis, principles of management of Yakrut shotha (Infective and Non-Infective Hepatitis)	CC	DK	K	PBL,L& GD,CB L	WP,VV-Vi va,P- VIVA,QZ	F&S	II	-	NLHT7.1
CO1, CO2, CO6	Discuss the etiopathogenesis, diagnosis, and principles of management of Yakrutdalyodara/ Yakrutadhitantrujah (Liver cirrhosis).	CC	DK	K	L&PPT	QZ ,VV- Viva	F&S	II	-	LH
CO1, CO2, CO6	Discuss the etio-pathogenesis, diagnosis and principles of management of Madyaatirek-janya yakrut-vikara (Alcoholic Fatty Liver Disease), Madyetar karana-janya yakrut-vikara (Non- Alcoholic Fatty Liver Disease -NAFLD) and Madyetar vasamaya- janya yakrut-shotha (Non-Alcoholic Steato-hepatitis -NASH).	CC	DK	K	CD,PER ,PBL	QZ ,PUZ,WP	F&S	II	-	NLHT7.2
CO2, CO6	Describe the etiopathogenesis, diagnosis and principles of management of Yakrut koshakiya arbuda (Hepato cellular Carcinoma)	CC	DK	K	L&PPT	P-VIVA,V V-Viva	F&S	II	-	LH
CO1, CO3	Elaborate the Samprapti vighatana, Chikitsa sutra, Chikitsa and Pathyaapathya of Raktapitta and design a treatment algorithm for Raktapitta ( <b>SL81</b> ) according to the stages of Shadkriyakala.	CC	MK	KH	L&PPT	VV- Viva,QZ	F&S	II	-	LH
CO1, CO3	Construct a Chikitsa yojana including the Pathyaapathya in Vividha margagata Raktapitta	CAP	MK	KH	L&PPT	VV-Viva,P- VIVA	F&S	II	-	LH
CO1, CO3	<ul> <li>State the Phalashruti, Aushadha sevana kala, Matra, Anupana of the Aushadha yoga in Raktapitta.</li> <li>Vasa putapaka swarasa</li> <li>Bolabaddha rasa</li> <li>Lodhrasava</li> <li>Vasaguduchyadi kashaya</li> <li>Chandrakala rasa</li> <li>Vasa ghrita</li> </ul>	СК	МК	K	L&PPT	VV-Viva,T- OBT,QZ ,P- VIVA	F&S	II	-	LH

CO2, CO6	Discuss the etiopathogenesis, diagnosis, and principles of management of Raktaskandana sambandhi vikara (Coagulation disorders) and Vanshanugata adhiraktasrava pravrutti (Hereditary - Haemophilia)	CC	NK	К	PER,DI S	QZ ,VV-Vi va,CL-PR	F	II	-	NLHT7.3
CO2, CO6	Discuss the etiopathogenesis, diagnosis and treatment of Uparjit ghanasra kosha nyunata (Acquired- Immune thrombocytopenia -ITP), Vyapak antah siradhamani raktaskandata (Disseminated Intravascular Coagulation -DIC)	CC	NK	К	PER,DI S	VV- Viva,QZ ,CL-PR	F	II	-	NLHT7.4
CO1, CO3	Explain the Samprapti vighatana, Avastha anusara (Uttana Gambheera) Chikitsa sutra of Vatarakta ( <b>SP14</b> )	CC	МК	K	L&PPT ,REC	S-LAQ,P-V IVA,VV- Viva	F&S	II	-	LH
CO1, CO3	Design a treatment algorithm stating Samanya and Doshanusara chikitsa in Vatarakta according to Shadkriyakala.	CS	МК	KH	REC,L &PPT	P-VIVA,T- OBT,S-LA Q,VV- Viva,QZ	F&S	II	-	LH
CO1, CO3	Construct a Chikitsa yojana along with Pathyaapathya for Vatarakta	САР	МК	KH	REC,L &PPT	QZ ,T-OBT ,P-VIVA,V V-Viva	F&S	II	-	LH
CO1, CO3	<ul> <li>State the Phalashruti, Aushadha sevana kala, Matra, Anupana for the Aushadha yoga in Vatarakta</li> <li>Kaishora guggulu</li> <li>Amruta guggulu</li> <li>Gruhadhumadi pralepa</li> <li>Madhuyashtyadi taila</li> <li>Pinda taila</li> <li>Kokilakshadi kvatha</li> </ul>	СК	МК	K	REC,L &PPT	VV- Viva,QZ	F&S	II	-	LH

CO1, CO2, CO6	Discuss the various clinical presentations of Gout and discuss the etiopathogenesis, diagnosis and principles of management of Gouty arthritis in parlance with Vatarakta.	CC	DK	КН	L&GD, DIS,PE R,SDL	M-POS,VV- Viva	F&S	II	-	NLHT7.5
CO1, CO2, CO6	Describe the etiopathogenesis, diagnosis, principles of management of Parisariya sira dhamaniya vikara (Peripheral vascular disorders).	CC	NK	К	L&PPT	VV-Viva	F	II	-	LH
CO1, CO2, CO3	Illustrate the various Parisariya sira dhamaniya vikara (Peripheral vascular disorders).	САР	NK	КН	BS,TP W,PER, TBL,DI S	M-CHT,V V-Viva,M- MOD	F	Π	-	NLHT7.6
CO1, CO2, CO3	Explain the Samprapti vighatana, Samanya chikitsa and Vegakaleena chikitsa of Mada, Murchha and Sanyasa (SQ22, SP98).	CC	DK	К	L&PPT	VV-Viva	F	Π	-	LH
CO1, CO3	Explain the Samprapti vighatana, Chikitsa sutra, Chikitsa of Visarpa.Design a treatment algorithm for it according to the stages of Shadkriyakala.Appraise the applicable Shadvidhopakrama in the Chikitsa of Visarpa (SN4T)	CC	МК	К	L&PPT ,REC	T-OBT,VV -Viva,S- LAQ	F&S	Π	-	LH
CO1, CO3	Construct a Chikitsa yojana along with Aushadha yoga and Pathyapathya in Visarpa.State the Phalashruti, Sevana kala, Matra, Anupana of the following Aushadha yoga in Visarpa • Mahatiktaka kashaya • Pravala pishti • Tiktaka ghrita • Amrutadi kvatha/kashaya • Shirisha lepa • Manjishthadi kashaya	САР	МК	КН	L&PPT	T-OBT,VV- Viva,T-CS	F&S	П	-	LH

CO1, CO2, CO6	Discuss the various clinical presentations of Visarpa (Shingles, Erysipelas) along with their management.	CC	NK	K	PER,SD L,TBL, DIS	M-CHT,V V-Viva,M- POS	F	II	-	NLHT7.7
CO1, CO3	Explain the Samprapti vighatana, Chikitsa sutra, Samanya chikitsa and design a treatment algorithm for Kushtha and Kilasa according to the stages of Shadkriyakala (SN40, SN43, SN46, SN48, SN49, SN4A, SN4B SN4D, SN4P, SN4U)	CC	МК	K	REC,L &PPT	S-LAQ,VV- Viva	F&S	II	-	LH
CO1, CO3	Appraise the concept of repeated Shodhana and Bahirparimarjana Chikitsa in Kushtha. Outline the applicable Doshopakrama in Doshanusara chikitsa of Kushtha roga	CE	МК	KH	L&PPT	P-VIVA,C R-W,T-OB T,VV-Viva	F&S	II	-	LH
CO1, CO3	Construct a Chikitsa yojana with Pathyaapathya, Naimittika rasayana in Kushtha and Kilasa and state the Phalashruti, Aushadha sevana kala, Matra, Anupana of the Aushadha yoga in Kushtha Patolamooladi kashaya Khadirarishta Madhusnuhi rasayana Gandhaka rasayana Panchatikta ghrita guggulu Avalgujadi lepa Marichadi Taila Rasamanikya Arogyavardhini vati Tuvaraka rasayana	САР	МК	КН	L&PPT	QZ ,VV-Vi va,T-OBT, P-VIVA,T- CS	F&S	Π	-	LH
CO1,	Compare the different types of Kshudra and Mahakushtha and	CAN	DK	КН	PER,TB	WP,P-POS,	F&S	П	-	NLHT7.8

CO3	discuss their treatment modalities.				L,SDL, PL,DIS	M-CHT,M- POS				
CO1, CO3	Compare the similarities and differences in the treatment of Sheetapitta, Udarda, Kota, Utkota, (SN4K, SN4L) construct a Chikitsa yojana (treatment plan) including the Pathyaapathya for these diseases and state the Phalashruti, Aushadha sevana kala, Matra, Anupana of the following Aushadha yoga- • Haridra khanda • Ardraka khanda • Eladi tailam • Eladi gana churna	CAN	МК	KH	L&PPT ,L	VV-Viva,T- CS	F&S	Π	-	LH
CO1, CO2, CO6	Explain the etiopathogenesis, diagnosis, principles of management of Tvak vikara (Common dermatological conditions in clinical practice).	CC	DK	K	L&PPT	QZ ,PUZ,V V-Viva	F	II	-	LH
CO1, CO2, CO6	Review case reports from indexed journals on Tvak vikara.	СК	DK	K	DIS,IBL ,PER,S DL,PL	CR-RED	F	II	-	NLHT7.9
CO1, CO2, CO6	Discuss the diagnosis and treatment of the Tvak vikara - Tvak anurjatiya vikara (Allergic disorders of the skin, Atopic dermatitis- Eczyma, Urticaria), Shalkayukta tvak vikara (Squamous lesions) - Psoriasis, Shewalikabha tvak vikara (Lichen planus), Visphota (Bullous lesion), Udasphotanvika tvak vikara (Pemphigus and Pemphigoid lesions), Kavkad tvak vikara (mycotic skin diseases).	СС	DK	K	PER,TP W,PL,T BL,L& GD	PUZ,VV- Viva,QZ ,M-POS	F	II	-	NLHT7.10
CO1, CO2, CO6	Discuss the treatment of Galit Kushtha (leprosy), Shvitra (Vitiligo/ Leukoderma)	CC	МК	КН	TBL,PL ,D,DIS, PER	QZ ,VV- Viva	F&S	II	-	NLHT7.11

CO1, CO3	Explain to its tyj applicat the Phal Aushad	the Samprapti vighatana and Chikitsa of Daha accord pes. Construct a Chikitsa yojana incorporating the ole Doshopakrama and Pathyaapathya in Daha and sta ashruti, Aushadha sevana kala, Matra, Anupana of the ha yoga in Daha Mukta- shukti pishti Guduchyadi Kashaya Kamadudha rasa Chinchadi lehya	ding C ate e	CC	DK	K	L,L&PP T	VV-Viva	F&S	Π		LH
CO1, CO2, CO3, CO6, CO7	Sketch a Rakta P	a rational treatment prescription for the diagnosed cas radoshaja vikara.	e of PS GI	SY- UD	МК	SH	PSM,L RI,CD, D-BED, CBL	P-EXAM,R K,P-REC,O SCE,P- VIVA	F&S	II	-	NLHP7.1
CO1, CO2, CO3, CO6, CO7	Design Rakta P	a Chikitsa yojana on demonstration of a clinical case o radoshaja Vikara	of PS GI	SY- UD	МК	SH	CBL,C D,PER, D-BED, LRI	OSCE,PM, DOPS,DOP S,VV-Viva	F&S	Π	-	NLHP7.2
CO7	Associate with the purpose of commemorating the day of medical importance.		dical Al	FT- AL	NK	K	FV	Log book	F&S	II	-	NLHP7.3
Non Lecture Hour Theory												
S.No N		Name of Activity	Descripti	ion of	Theory A	ctivity						
NLHT 7.1A diagnostic and treatment approach to Yakrut shotha w.s.r to Infective and Non-InfectiveAn and		An approach to a patient presenting with peeta varnata, with an insight into Yakrut shotha (Hepatitis) and its management through case scenarios, Liver Function Test, and imaging techniques										
	Hepatitis.	interpretations.										
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		<ul> <li>Activity to be done: Case Scenario/Problem based learning</li> <li>The mentor introduces the approach to diagnosis using clinical features.</li> <li>The students are divided into small groups.</li> <li>The mentor gives a case scenario with LFT and/or USG reports to each group of students.</li> <li>The students discuss the problem within their small groups and get ready for a presentation based on their interpretation.</li> <li>The mentor guides each group through the approach of diagnosis and planning of the treatment after their presentation.</li> <li>The mentor gives concluding remarks.</li> </ul>										
NLHT 7.2	An Insight into Yakrut vikara (common liver disorders) and their management	<b>Case Scenario/ Problem based learning</b> An approach to a patient with a diagnosis of Yakrut vikara and its management; learning the art of diagnosis and treatment through case scenarios and investigations interpretations. Refer the framework as mentioned in NLHT 7.1										
NLHT 7.3	Disorders of Coagulation	Oral presentation using Audio visual aids. The students are selected to make an audio visual presentation on the etiopathogenesis, diagnosis, and principles of management of Raktaskanda sambandhi vikara (Coagulation disorders) and Vanshanugata adhiraktasrava pravrutti (Hereditary - Haemophilia). Refer to the description of the activity as in NLHT 6.2										
NLHT 7.4	Acquired disorders of coagulation	Oral presentation using Audio visual aids. The selected students shall make an audio visual presentation on the etiopathogenesis, diagnosis and principles of management of Acquired- Immune thrombocytopenia and Disseminated Intravascular Coagulation which will be followed by a discussion. Refer the framework as in NLHT 6. 2										

NLHT 7.5	Maladies and remedies of Gout with special reference to Vatarakta	Presentation of e-posters/ posters The students gain an insight into the various manifestations and clinical presentations of Gout including Gouty arthritis. A correlative study is made with special reference to Vatarakta (SP14) through the activity of e-poster/ poster presentations. Refer the framework as in NLHT 6.1
NLHT 7.6	Management of peripheral vascular disorders	Brain storming and Making of Charts/ Models on Peripheral vascular disorders An attempt will be made by the students to understand various Peripheral vascular disorders and their management. Students shall present their ideas through making of Charts/ models.
		<ul> <li>The mentor divides the students into small groups and instructs them to refer tutorials, library resources, reading materials on the given topic.</li> <li>The students ponder on their ideas related to the topic.</li> <li>The student groups are instructed to present their knowledge and ideas on the clinical aspects including treatment modalities of Peripheral vascular diseases by preparing charts/ models.</li> <li>The mentor encourages the activity and gives concluding remarks.</li> </ul>
NLHT 7.7	Contemporary understanding of Visarpa along with its management	Presentation of e-posters/posters/charts The students gain an insight into the clinical presentation of Shingles, Erysipelas through the activity of e-poster/ poster presentations/ Charts. Refer the framework as in NLHT 6.1
NLHT 7.8	Kushtha bheda and doshahara chikitsa	<b>E-Poster presentation</b> Comparison of the different types of Kshudra and Mahakushtha with their treatment descriptions using the principles of Doshopakrama. Refer, as mentioned in NLHT6.1
NLHT 7.9	Article review on Tvak vikara	Journal reading and presentation

		The students are expected to select and present case reports/ research articles/ review articles on Tvak vikara from peer reviewed indexed journals.
		<ul> <li>Students are divided into small groups.</li> <li>Each group is directed to utilise library resourses and search for peer reviewed indexed journals to find a case report/ research article/ review article published on Tvak vikara.</li> <li>Each team presents one article during the class hour.</li> <li>The mentor teaches the students how to review a scientific/research article.</li> <li>The mentor summarises the presentations and concludes with remarks.</li> </ul>
NLHT 7.10	Diagnosis and treatment of Tvak vikara (Common Dermatological conditions in clinical practice)	Photography presentation Comparison of the different types of Tvak vikara with their treatment descriptions - Tvak anurjatiya vikara (Allergic disorders of the skin, Atopic dermatitis-Eczyma, Urticaria), Shalkayukta tvak vikara (Squamous lesions) - Psoriasis, Shewalikabha twak vikara (Lichen planus), Visphota (Bullous lesion), Udasphotanvika tvak vikara (Pemphigus and Pemphigoid lesions), Kavkad tvak vikara (mycotic skin diseases)
		<ul> <li>The students are divided into small groups and instructed to click photographs of available types of Tvak vikara in the attached hospital; after taking informed consent of patients and following clinical ethics guidelines.</li> <li>The students present their prepared material during an allotted class hour.</li> <li>The mentor supervises the photograph presentations made by the students.</li> <li>The mentor evaluates the presentations made by the various teams of students.</li> <li>The mentor concludes the activity with remarks on the topic and activity</li> </ul>
NLHT 7.11	Diagnosis and treatment of Leprosy and Vitiligo/Leukoderma	Oral presentation using Audio visual aids Few students are selected to make an oral presentation using audio visual aids on the diagnosis and treatment of Leprosy and Vitiligo/ Leukoderma. Refer framework as in NLHT 6.2

Non Lecture	Non Lecture Hour Practical							
S.No	Name of Practical	Description of Practical Activity						
NLHP 7.1	Short cases presentation in Rakta Pradoshaja Vikara	Short Case taking Case taking, documentation, and presentation of short clinical cases from any of the Rakta pradoshaja vikara, selected from the OPD of Kayachikitsa of the attached treatment hospital. (2 short cases = 2 NLHP per batch) 						
NLHP 7.2	Long cases presentation in Rakta Pradoshaja Vikara	Long clinical case taking: Case taking, documentation and presentation of Long clinical cases from any of the Rakta pradoshaja vikara, selected from the IPD of Kayachikitsa of the attached treatment hospital. (5 Long cases = 10 NLHP per batch)) Type of cases to be selected - Koshthashrita Kamala/ Shakhashrita Kamala/ Haleemaka/ Kumbha Kamala/ Raktapitta (any marga)/ Uttana Vatarakta/ Gambhira Vatarakta/ Sheetapitta/ Kushtha (any variety)/ Visarpa (any variety). Requirement: Students must document and demonstrate a minimum of 5 Long cases per clinical batch in their clinical diary/ clinical observation book. Cases may be chosen from the list to document in the case record. Refer the long case framework as mentioned in NLHP 3.1						
NLHP 7.3	Commemoration of day of medical importance	Public awareness program:         Commemoration of World Liver Day OR World Hepatitis Day by a public awareness activity. (If not, any convenient time in the given term can be utilised).						

	Utiliz Organ with a	ation of 6 l nize an <b>out</b> n medical c	NLHP hour <b>reach acti</b> v amp for the	rs vity for pu e local pop	blic aware	ness - Awaren volving the stu	ess and ser dents in th	nsitizat e activ	ion resourc ity.	e talk along
Topic	8 Chikitsa of Kshudra roga (LH :2 NLHT: 1 NLHP: 2)				T	1				
A3	B3	C3	D3	E3	<b>F3</b>	G3	Н3	<b>I</b> 3	K3	L3
CO1, CO2, CO3, CO6	Identifying the following Kshudra roga and explain their treatment :Yavaprakhya (SN5Y), Andhalaji (SN5Y), Vivritta (SN5Y), Kacchapika(SN9Y), Indravriddha, Gardabhi, Jalagardabha (SM0Y), Irivellika (SN5Y), Gandhanama (SN5Y), Kaksha (SN4T), Visphotaka (SN4P), Agnirohini, Vidarika (SP9Y), Sharkararbuda (SP71), Pama (SN46), Vicharchika (SN43), Rakasa (SN40), Padadari, Alasa (SN48), Masurika, Tilkalaka (SN4E), Masaka (SN4H), Nyaccha (SN5Y), Vyanga (SN4G), Nilika (SN41)	CC	DK	KH	L&PPT ,L_VC	QZ ,VV- Viva	F&S	Ш	-	LH
CO1, CO2, CO3, CO6	Identifying the following Kshudra roga and explain their treatment :Ajagallika (SN5Y), Valmika (SN5Y), Panasika, Pashanagardabha (SM1D), Chippa, Kunakha (SN6Y), Anushayi (SP9Y), Kadara (SN9Y), Indralupta (SN90), Darunaka (SN91), Arumshika (SN70), Palitya, Yuvanpidika (SN4V), Padminikantaka (SN5Y), Jatumani (SN4F), Charmakeela, Parivaritika (SN0A), Avapatika, Niruddhaprakasha (SN0A), Sannirudhaguda (SM5Y), Ahiputana (SN5Y), Vrishanakacchu (SN40) & Gudabhramsha (SM55).	СК	NK	K	L&PPT ,L_VC	VV- Viva,QZ	F	III	H-SH,H- KB	LH
CO1, CO2, CO3, CO6	Recognize the Kshudra roga and describe its Chikitsa	СК	DK	K	SDL	M-POS,QZ ,VV-Viva, M-CHT	F	III	-	NLHT8.1

CO1, CO2, CO3, CO6, CO7	Demons prescrip	trate a short case on Kshudra roga and write an OF tion of the diagnosed case.	'nD	PSY- SET	DK	SH	CBL	VV-Viva,P- CASE	F	III	-	NLHP8.1
Non Le	ecture H	our Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT 8	3.1	Photography competition to familiarize the students with diagnosis and treatment of Kshudra roga.	Self-I	<ul> <li>Self-Directed Learning</li> <li>The mentor announces the photography competition on Kshudra roga.</li> <li>Students are asked to take the photograph of cases of Kshudra roga patients after seeking written consent of patient and following guidelines of clinical ethics.</li> <li>Students compile the photograph and prepare chart/poster specifying the diagnosis and treatment of the photographed case.</li> <li>Students display their chart/poster on the day of competition.</li> <li>Mentor declares the winner.</li> </ul>								
Non Le	ecture H	our Practical	-									
S.No		Name of Practical	Desci	ription of	Practical	Activity						
NLHP 8	3.1	Clinical case study on Kshudra roga.	Case ]	Based Lea	rning(2 NL	LHP)						
			Refer	the case ta	king frame	ework as d	escribed in	n NLHP 4.1				
Topic 9	opic 9 Chikitsa of Mamsapradoshaja and Medopradoshaja vikara (LH :8 NLHT: 2 NLHP: 8)											

A3	B3	C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO1, CO3	Describe the Samanya chikitsa of Mamsapradoshaja vikara (SR52) and Medopradoshaja vikara (SR53) and explain the Vishesha chikitsa of Gandamala (SL08) and Galaganda (SL0Y) with its types	СК	МК	K	L,L&PP T	QZ ,PRN,C L-PR	F&S	III	-	LH
CO1, CO3	<ul> <li>Summarize the etipathogenesis, diagnosis and principles of management of Galaganda (Goitre) (SLOY) and state the Phalashruti, Matra, Anupana, and Sevana kala of the following Yoga</li> <li>Kanchanara guggulu</li> <li>Tiktaka ghrita</li> <li>Mahatikta ghrita</li> <li>Amritadi taila</li> <li>Hamsapathyadi kashaya</li> </ul>	CC	DK	K	L&PPT ,L	PRN,QZ	F	Ш	-	LH
CO1, CO3	Explain the Samprapti vighatana, Chikitsa sutra, Chikitsa of Arbuda(SP72).and Apachi	CC	DK	K	L&PPT ,L	QZ ,PRN	F&S	III	-	LH
CO1, CO3	Review the etiopathogenesis, diagnosis, principles of management and ayurvedic perspective of neoplasm and discuss the undesirable(untoward) effects of radiotherapy & chemotherapy in cancer management with the role of ayurvedic management as supportive/adjuvant therapy based on principles of Anukta roga chikitsa	СС	NK	К	L_VC,L &PPT ,L	PRN,QZ	F	III	-	LH
CO1, CO3	Develop the Samprapti vighatana, Chikitsa sutra, Chikitsa, and Pathyaapathya for Shosha (SP2Y) and Karshya (SP61)	CS	МК	КН	L_VC,L ,L&PPT	QZ ,PRN	F&S	III	-	LH

CO1, CO3	Describe Samprapti vighatana, Chikitsa sutra, Chikitsa yo along with Pathyaapathya of Sthoulya	ojana	CC	МК	К	L,L&PP T ,L_VC	QZ ,PRN	F&S	III	-	LH
CO1, CO3	Explain Samprapti vighatana, Chikitsa sutra and Chikitsa along with Pathyaapathya of Prameha (SM8D) and design treatment algorithm for Prameha according to its stages of Shadkriyakala	yojana n a f	CC	МК	K	L&PPT ,L_VC, L	QZ ,PRN	F&S	III	-	LH
CO1, CO3	Plan the treatment according to the status of Ojus in Mad and discuss the etiopathogenesis, diagnosis,principles of management of Diabetes mellitus (SP60)	humeha	CS	MK	КН	L&PPT ,L_VC, L	PRN,QZ ,CL-PR	F&S	III	-	LH
CO1, CO3	State the Phalashruti, Matra, Anupana, and Sevana kala o Aushadha yoga in Sthoulya (SP64) and Prameha	f	СК	DK	КН	DIS,RE C,L&G D,PER, TBL	CL-PR,O-Q Z,PRN,QZ	F&S	III	-	NLHT9.1
CO1, CO2, CO3	Discuss the etiopathogenesis, diagnosis and principles of management of Medapachaya (Dyslipidaemia) (SP62) an Sthoulya (obesity)(SP64)	d	CC	NK	КН	PER,DI S,BL,L &GD	PRN,QZ	F	III	-	NLHT9.2
CO1, CO3, CO5	Demonstrate the Chikitsa yojana & prepare case record in given Mamsavaha and Medovaha srotas vikara after perfo relevant clinical examination	n cases of orming	PSY- MEC	МК	КН	LRI,D- BED,C BL,PBL ,PT	PP-Practica l,OSCE,PR N,VV-Viva ,P-VIVA	F&S	III	-	NLHP9.1
CO1, CO3, CO5	Commemoration of International days		PSY- MEC	NK	КН	DIS,RL E,KL,B S,RP	PRN,INT	F	III	-	NLHP9.2
Non Le	ecture Hour Theory										
S.No	Name of Activity	Desci	ription of	Theory A	Activity						

NLHT 9.1	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha yoga for Sthoulya and Prameha	Group Discussion and Team based learning The students are divided in groups of 3-5 students
		<ul> <li>Each Group is allotted Aushada yogas from the given yoga</li> <li>Navaka guggulu</li> <li>.Vidangadi lauha,</li> <li>.Shiva gutika</li> <li>Ayaskriti</li> <li>Trimurti rasa</li> <li>Nishakatakadhi kashayam</li> <li>Chandraprabha vati,</li> <li>Vasant Kusumakar rasa</li> <li>Phalatrikadhi kashayam(Prameha adhikara)</li> <li>.Asanadi kashayam</li> <li>Students refer and compile the material from library sources and prepare a presentation</li> <li>Each group will present the allotted topic in class</li> <li>Students will be encouraged to interact with the presenter under the supervision of the mentor</li> <li>Mentor gives concluding remarks on the topic</li> </ul>
NLHT 9.2	Detailed understanding of dyslipidemia and Obesity and its ayurvedic management	Blended learning
		<ul> <li>Students are given online learning material like description of the internet links and scientific articles</li> <li>Students are divided into various small groups, and they will be allotted topic related dyslipidemia and Obesity</li> <li>Mentor gives an introduction to the topic as a set induction</li> <li>Each group is asked to do a presentation related to the topic given</li> <li>Group discussion will be followed</li> <li>Mentor answers the queries raised by students</li> <li>Mentor gives concluding remarks on the presentations</li> </ul>

Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 9.1	Bedside case taking of of Galaganda / Gandamala /Sthoulya / Karshya/ Prameha	Interpretation of the blood, and imaging reports of patients in IP related mamsa- medovaha srotas and its avasthika chikitsa. Students are asked to take cases in the IPD ( <b>5 Hours</b> ) (2 long casesX2 hours = 4 hours) each batch and one other activity <b>Demonstration Bedside</b> Refer case taking framework as described in NLHP3.1 use for details <b>Group Discussion/Class Presentation(1 Hour)</b>
		<ul> <li>The students are divided in groups of 3-5 students</li> <li>Each group is allotted topics related to blood, urine examination and imaging reports in specific disease related to mamsa- medovaha Srotas</li> <li>they will go through various sources and prepare a presentation.</li> <li>Each group will present its presentation in class.</li> <li>Other students will be free to ask the questions and presenting team will answer queries.</li> <li>Group discussion will be proceeded</li> <li>Mentor gives concluding remarks.</li> </ul>
NLHP 9.2	Public awareness activity related to World cancer day / Obesity Day/Diabetes Day	World cancer day / Obesity Day/Diabetes Day (Any one)( <b>3 hours</b> ) <b>Kinesthetic learning-</b> The students are asked to make posters on various aspect of the illness and do an exhibition of the same for the public OR <b>Role play-</b> The students are encouraged to perform a role play depicting the importance of prevention of these diseases and swift action on witnessing the early symptoms. OR <b>Public outreach program-</b> Conduct a survey among the public to assess the susceptibility of cancer/ Obesity /Diabetes and educate them about the same. OR Organize a rally to create awareness about Prevention OR conduct medical camps for these disease Prepare a report with a Geotagged photograph

Topic	10 Shuc	ldha-Ashuddha chikitsa, Chikitsajanita vikara	(LH	:1 NLHT	: 2 NLH	P: 2)						
A3		B3		C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO1, CO2, CO3	Paraphr Disease	ase Shuddha - Ashuddha chikitsa & Explain Iatroger	nic	CC	МК	КН	L&PPT ,PER	VV-Viva,C OM,T- OBT,Log book	F&S	III	-	LH
CO1, CO2, CO3	Develop adminis of Shud	o a protocol for the general principles of Drug tration to prevent Iatrogenic DiseasesAssess the ben dha chikitsa & ill effects of Ashuddha chikitsa	efits	CS	DK	КН	PBL,DI S,SIM, BS,IBL	P-CASE,P RN,P-EXA M,DEB,P- VIVA	F	III	-	NLHT10.1
CO1, CO2, CO3	Integrat Disease	e the treatment protocol of Drug induced Iatrogenic in the given case		AFT- SET	МК	SH	SDL,D- M,SIM, LRI,CB L	WP,P-EN,P -VIVA,P- CASE,SP	F&S	III	-	NLHP10.1
Non L	ecture H	lour Theory				•	•					•
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT	10.1	Identifying the occurrence of Iatrogenic Disease & assessment of the benefits of Shuddha chikitsa & ill effects of Ashuddha chikitsa	Studer & Stud 2 activ	<ul> <li>nts demonstates are a dents are a dents.</li> <li>The student</li> <li>The Mer preventi</li> </ul>	strate in a ble to und our each = lents are gintor assign ic disease collects in ntor encou on & treat	blended le erstand the 2 hours iven a brie s a simulat formation rages the c ment of iat	arning the e knowledg of introducti tion based of from differ other studer trogenic dis	occurrence of I ge of Shuddha ton by the Mer scenario to stud rent sources an nts in the class seases	latrogenic & Ashudd ntor about dents to de d discusse room for f	disease ha chiki Shuddh emonstra es on the raming	in the giv itsa throug a & Ashud ate the occ e given top the guidel	en simulation gh a debate. ddha chikitsa currence of bic. ines for

• The mentor divides the students into two groups allotting benefits of Shuddha chikitsa & ill effects of Ashuddha chikitsa to respective groups
• Each group is instructed to search study material on the given topic, students discuss and
debate their respective topics
<ul> <li>Post debate, the mentor evaluates the points presented during debate by the students.</li> </ul>
• The Mentor discusses aspects of Shuddha-ashuddha chikitsa and gives concluding remarks.

# Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 10.1	Chikitsa yojana for Drug induced Iatrogenic Disease	Student will be able to plan a Chikitsa yojana in the given case of Drug induced Iatrogenic Disease. Case based learning - 2 Short cases x 1 hour = 2hours per batch The Mentor takes students to the ward/OPD of Kayachikitsa & assigns a case of Ashuddha chikitsajanya Iatrogenic disease. Mentor shows the art of writing a rational treatment prescription and documenting it in the following steps:
		<ul> <li>The students shall introduce self to the patient and take verbal consent.</li> <li>The students shall interrogate the patient and document the clinical history.</li> <li>The students further brief the patient about the steps in examination that will be performed on him/her.</li> <li>The students perform the relevant clinical examinations adopting the Ayurvedic and conventional clinical methods of examination of the involved system</li> <li>The available investigation reports are interpreted by the students.</li> <li>The students interpret the collected information and state the vyadhi nama (arrive at a tentative clinical diagnosis) following the method of vyavachedaka nidana (differential diagnosis)</li> <li>The students determine the sadhyaasadhyata (prognosis) of the disease in the patient.</li> <li>The students formulate a rational treatment prescription for the diagnosed disease &amp; plan the nidan parivarjan for the drug induced disease .</li> <li>The students recommend pathyaapathya to the patient.</li> <li>Finally, the students address the doubts of the patient &amp; acknowledge his/her cooperation in</li> </ul>

<ul><li>the case taking.</li><li>The students present and discuss the documented short case.</li></ul>
• The mentor facilitates the case presentation.
• The mentor evaluates the student's performance, knowledge, psychomotor and
communication skills using rubrics or checklist and gives the feedback.
<ul> <li>Remedial measures should be implemented if found necessary.</li> </ul>

Paper 2	Paper 2 (Vyadhi Vishesha Chikitsa - 2)											
A3 Cour se out come	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type		
Topic 11 Chikitsa of Vatavyadhi (LH :16 NLHT: 6 NLHP: 26)												
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3		
CO1, CO3	Detail the Chikitsa sutra, Chikitsa, and role of Sneha sweda in Nirupastambhita Vatavyadhi.	CC	MK	K	L&PPT	VV-Viva,T- CS	F&S	Ι	-	LH		
CO1, CO3	Describe the Chikitsa and the role of Shodhana in Upastambhita vata.	CC	MK	K	L&PPT	T-CS,S-LA Q,VV-Viva	F&S	Ι	-	LH		
CO1, CO3	Summarize the Samprapti Vighatana, Chikitsa sutra & Chikitsa of Akshepaka vyadhi	CC	MK	K	L&PPT	VV-Viva,T- CS	F&S	Ι	-	LH		
CO1, CO3	<ul> <li>Describe the Samprapti vighatana, Chikitsasutra of snayugata vata</li> <li>Construct Chiktsayojana including Rasayana and Pathyaapathya of Snayugatavata</li> </ul>	САР	МК	КН	L&PPT	VV-Viva,T- CS	F&S	Ι	-	LH		

CO1, CO3, CO4	Explain the Samprapti vighatana, Chikitsa sutra, Chikitsa of Pakshaghata(SK22)	CC	МК	KH	L&PPT	VV-Viva,T- CS	F&S	I	-	LH
CO1, CO3, CO4	Explore the Chikitsa Yojana including Rasayana & Pathyaapathya of Ekangavata, Sarvanga vata &Sarvanga roga	САР	МК	KH	L&PPT	CBA,T-CS, S-LAQ,T- OBT	F&S	I	-	LH
CO1, CO3	Describe the Samprapti vighatana , Chikitsa sutra and chikitsa of Jihwastambha	CC	MK	KH	L&PPT	T-OBT,VV- Viva,T-CS	F&S	Ι	-	LH
CO1, CO2, CO3, CO4	Detail the Samprapti Vighatana, Chikitsa sutra and Chikitsa of Ardita (Bell's Palsy) and Construct chikitsa yojana including Rasayana & Pathyaapathya	САР	МК	KH	L&PPT	T-CS,T-OB T,VV-Viva	F&S	I	-	LH
CO1, CO3	Express the Samprapti Vighatana, Chikitsa sutra & Chikitsa of Manyastambha	CC	МК	K	L&PPT	T-CS,VV- Viva,T- OBT	F&S	Ι	-	LH
CO1, CO3	Describe Samprapti vighatana, Chikitsa sutra, Chikitsa, of Vishwachi(SK51)	CC	МК	K	L&PPT	T-OBT,T-C S,VV-Viva	F&S	Ι	-	LH
CO1, CO3	Explain Samprapti vighatana, Chikitsa sutra, and Chikitsa of Avabahuka( SK15)	CC	МК	K	L&PPT	VV-Viva,T- CS,T-OBT	F&S	Ι	-	LH
CO1, CO2, CO3, CO4	Describe the Etiopathogenesis, Diagnosis, Samprapti Vighatana, Chikitsa sutra, Chikitsa of Gridhrasi (Sciatica)(SP20) and Construct the Chikitsayojana including Rasayana and Pathyaapathya.	САР	МК	КН	L&PPT	T-CS,T-OB T,VV-Viva	F&S	Ι	-	LH
CO1, CO3,	Derive Samprapti vighatana, Chikitsa sutra ,Chikitsa of Khanja (SK2Y) ,Kalaya khanja Pangu(SK21) and Construct Chikitsa	САР	МК	КН	L&PPT	T-CS,VV- Viva	F&S	I	-	LH

CO4	yojana including Rasayana & Pathyapathya.									
CO1, CO3, CO4	Explain Samprapti vighatana, Chikitsa sutra, Chikitsa of Padadaha (SK51) and Padaharsha(SK54) and Construct Chikitsa yojana including Rasayana & Pathyapathya.	САР	MK	K	L&PPT	T-CS,VV- Viva,T- OBT	F&S	Ι	-	LH
CO1, CO3	Outline Samprapti vighatana, Chikitsa sutra ,Chikitsa of Kaphavruta vata, Medogatavata and Medoavruta vata	СК	DK	K	L&PPT	T-CS,T- OBT	F&S	Ι	-	LH
CO1, CO2, CO3	Elaborate the Etiopathogenesis, Diagnosis and Ayurvedic Perspective including principles of Managemnet of Parisareeya nadi shotha(Peripheral Neuropathy)	CC	DK	K	L&PPT ,L_VC	T-OBT,T-C S,VV-Viva	F&S	Ι	-	LH
CO1, CO3	Discuss Samprapti vighatana, Chikitsa sutra & Chikitsa of Urustambha(SP 46)	CC	MK	K	REC,SY ,BS,IBL ,DIS	T-CS,VV- Viva,T- OBT	F&S	Ι	-	NLHT11.1
CO1, CO3, CO4	Discuss the Samprapti Vighatana, Chikitsasutra and Chikitsa of Udavarta(SM35) & Construct the Chikitsayojana including Rasayana and Pathyaapathya	САР	МК	K	TBL,IB L,LS,PS M,DIS	SA,VV- Viva,QZ ,T- CS,CL-PR	F&S	Ι	-	NLHT11.2
CO1, CO2, CO3	Summarize the Etiopathogenesis, Diagnosis, and Ayurvedic perspective and principles of Management of Guillain- Barre Lakshana samuchchaya (Guillain- Barre syndrome), Ajnavaha nadikosha vikara (Motor Neuron Disease), Anuprasthiya- sitamajjachadda -shotha (Transverse Myelitis), Peshi dourbalya (Myasthenia Gravis)	CC	DK	K	EDU,F C,DIS	T-CS,T-OB T,VV-Viva	F&S	Ι	-	NLHT11.3
CO1, CO2, CO3	Differentiate between the various types of Strokes and apply the treatment principles of Vatavyadhi and Pakshaghata in its management	CC	МК	K	CBL,SD L,EDU, FC,TBL	T-OBT,T-C S,VV-Viva	F&S	Ι	-	NLHT11.4
CO1, CO2, CO3	Discuss the Chikitsa sutra of Gata vata	CC	МК	K	PER,DI S	T-OBT,VV- Viva	F&S	Ι	-	NLHT11.5

CO1, CO3, CO4	Sketch chikitsa	the importance of Antahparimarjana and Bahirparimarja in Vata vyadhi	ana CAP	МК	КН	TPW,P BL,DIS	VV-Viva,C -INT,PUZ, QZ	F&S	I	-	NLHT11.6	
CO1, CO2, CO3, CO6, CO7	Demons Vatavya Ayurve	strate the Chikitsa yojana & prepare case record in cases adhi after performing relevant contemporary and da clinical examination.	s of PSY- MEC	МК	SH	D-BED	CBA,C-IN T,VV-Viva, INT,OSCE	F&S	Ι	-	NLHP11.1	
CO1, CO3	Select ti conditio adhikar	he Matra, Sevana kala and Anupana in various clinical on of Vatavyadhi (Any 10-yoga mentioned in Vatavya a of classical texts)	dhi RES	DK	КН	D-BED, CBL,SD L,IBL,D A	QZ ,O-QZ, VV-Viva	F&S	I	-	NLHP11.2	
CO1, CO2, CO3, CO6, CO7	Assess Stroke	the importance of commemorating International Day on	n AFT- RES	NK	SH	RLE,ED U,RP	DEB,QZ	F	I	-	NLHP11.3	
CO1, CO2, CO3, CO5, CO6, CO7	<ul> <li>Assess the importance of commemorating International Day on</li> <li>Arthritis</li> <li>Arthritis<!--</td--><td>NK</td><td>SH</td><td>EDU,D</td><td>QZ</td><td>F</td><td>I</td><td>-</td><td>NLHP11.4</td></li></ul>			NK	SH	EDU,D	QZ	F	I	-	NLHP11.4	
Non L	ecture H	lour Theory		4	ł	1		1				
S.No		Name of Activity D	Description of Theory Activity									
NLHT 11.1 Symposium on Urustambha Symp				Symposium								

		<ul> <li>The entire class is divided into a small group</li> <li>Each group is allotted various aspects of Urustambha and its management like NIdana, Samprapti, Contemporary diagnostic approach, Treatment principle, Dravya chikitsa, and Adravya chikitsa</li> <li>One person from each group is asked to do a presentation</li> <li>Followed by a group discussion</li> <li>Faculty moderate the Discussion and a senior faculty gives concluding remarks</li> <li>Evaluation is done using quiz.</li> </ul>
NLHT 11.2	Understanding of Udavarta and its application	Team-based learning and Library Session
		<ul> <li>Initially, the mentor gives a basic introduction to Udavarta</li> <li>Each team is asked to analyze the role of Udavarta in Various systems like Neurology, gastroenterology, Ophthalmology, Psychiatry, Anorectal conditions, Respiratory disorders</li> <li>To gather information, they are given a Library session</li> <li>Each team does a presentation on their respective topic</li> <li>Followed by Discussion and Quiz</li> </ul>
NLHT 11.3	Detailed understanding of Guillain- Barre Lakshana samuchchaya (Guillain -Barre syndrome),Ajna Nadi Vikara (Motor Neuron Disease),,Anuprasthiyasitamajjachadda shotha (Transverse Myelitis),Peshi dourbalya (Myasthenia Gravis)	<ul> <li>Flipped classroom</li> <li>The topic is given and they are asked to prepare notes on etiopathogenesis, ayurvedic perspective, and management from medical books and online scientific articles(shared by mentor)</li> <li>The next day the students are divided into groups and engage in group discussions.</li> <li>Mentors facilitate the discussion and students are encouraged to ask questions</li> <li>Mentors give answers to the queries</li> <li>Evaluation is done by Quiz and Presentation</li> </ul>
NLHT 11.4	Understanding of Cerebrovascular Accident and its management	Blended learning

		<ul> <li>Students are given online learning material (video link) and scientific articles</li> <li>Students are divided into various small groups and they will be allotted topics related to CVA such as Circle of Willis, Ischemic stroke, Hemorrhagic Stroke, Stroke with Aphasia, and Cranial nerve lesions associated with stroke.</li> <li>Mentor gives an introduction about the topic as a set induction.</li> <li>Each group is asked to do a presentation related to the given topic.</li> <li>The presentation is followed by a group discussion</li> <li>The Mentor clarify the doubts.</li> <li>Assessment is done using a quiz</li> </ul>
NLHT 11.5	Gata vata Chikitsa	Class Presentation
		<ul> <li>Small groups of students are allotted different topics on gata vata</li> <li>Student groups are asked to do a Presentation on their topic</li> <li>Followed by a discussion on the Utility of gatavata chikitsa and its Clinical application</li> <li>Evaluation is done using a quiz</li> </ul>
NLHT 11.6	Chikitsa yojana in Vatavyadhi	Problem based learning
		<ul> <li>Students are divided into groups</li> <li>Each group is given a case scenario</li> <li>Group members discuss the problem and formulate a treatment protocol with special reference to Antahparimarjana and Bahirparimarjana Chikitsa and its rationale.</li> <li>The mentor clarifies the doubts and modifies the protocol if needed</li> <li>Evaluation is done using a quiz</li> </ul>
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 11.1	Bedside casetaking of Pakshagatha, Ardita,	Refer Activity description 3.1 (total 16hrs)

	Avabahuka/Viswachi,Kampavata, Gridhrasi, Manyasthmba,Khanja/ Pangu, Padadaha/ Padaharsha	
NLHP 11.2	Selection of appropriate Aushadhi in Vatavyadhi	PBL & Real-life Experience (2hours) Students go through the IP Case sheet and OP prescription and interact with the patient and assess the Vyadhyavastha and follow up with the patient.
		• Students are divided into groups and each group is assigned two or three Yoga from the given list.
		Gandharvahastadi kashava
		Ashtavargam kashaya
		Dhanadanayanaadi kashaya
		Sahacharaadi kashaya
		Prasarinyaadi kashaya
		Trayodashanga guggulu
		Mahayogaraja guggulu
		Rasna guggulu,
		Shaddharana choorna
		Ekangaveera rasa
		Bruhat vata chintamani rasa
		Bala taila
		Prasarinyaadi tailam
		Karapasasthyaadi taila,
		Vishagarbha taila
		Karpooradi taila
		Ksheerabala taila
		Dhanwantaram taila ( avarti)
		Manamasna taila

		<ul> <li>They do a project based on the respective Yoga .</li> <li>They visit the Hospital dispensary to get acquainted with the medicine.</li> <li>Followed by a class presentation.</li> <li>The teacher answers the queries raised by the students on various aspects of drug administration.</li> <li>The Evaluation is done using a quiz.</li> </ul>
NLHP 11.3	Commemoration of World Stroke Day	<ul> <li>Role play/Making of posters/Real life experience The students are asked to make posters on various aspects of the illness and do an exhibition of the same</li> <li>OR</li> <li>The students are encouraged to perform a role-play depicting the importance of prevention of disease using the ayurvedic principles and swift action on witnessing the early symptoms.</li> <li>OR</li> <li>Survey the public to assess the susceptibility of Stroke and educate them about the same.</li> <li>OR</li> <li>Conduct a rally to create awareness about Prevention/ conduct a medical camp</li> <li>Prepare a report with a Geotagged Photograph</li> <li>At the end, the students will be analyzed using a quiz,</li> </ul>
NLHP 11.4	Commemoration of World arthritis day	<ul> <li>(4hrs)</li> <li>The students are asked to make posters on various aspects of the illness and do an exhibition of the same</li> <li>OR</li> <li>The students are encouraged to perform role-play that depicts the importance of disease prevention using Ayurvedic principles and swift action when witnessing early symptoms.</li> <li>OR</li> <li>Survey the public to assess the susceptibility of Arthritis and educate them about the same.</li> <li>OR</li> </ul>

Topic	Conduct a rally to create awareness about Prevention/ conduct a medical camp Prepare a report with a Geotagged Photograph At the end, the students will be analyzed using a quiz.										
A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3	
CO1, CO3, CO4	<ul> <li>Express the Chikitsa sutra of Asthivaha and Majjavaha srotodushti and Asthi kshaya.</li> <li>Construct the Chikitsayojana including Rasayana and Pathyaapathya of Asthisoushirya</li> </ul>	CS	МК	КН	REC,L &PPT	S-LAQ,SA, T-CS,T- OBT	F&S	П	-	LH	
CO1, CO3, CO4	Compile the Samprapti vighatana, Chikitsa Sutra & Chikitsa of Sandhigata vata (SP12) and Construct a Chikitsa yojana including Rasayana and Pathyapathya	CS	МК	КН	REC,L &PPT	T-OBT,T-C S,VV-Viva	F&S	II	-	LH	
CO1, CO2, CO3, CO4	<ul> <li>Explain the Samprapti Vighatana, Chikitsa sutra, and Chikitsa Yojana, including the Rasayana and Pathyaapathya of Vatakantaka(SP4Y).</li> <li>Summarize the Etiopathogenesis, Diagnosis, and</li> </ul>	СС	МК	КН	L&PPT	QZ ,T-CS,T -OBT,S-LA Q,CL-PR	F&S	П	-	LH	

	Ayurvedic Perspective of Plantar fasciitis/Calcaneal Spur									
CO1, CO3, CO4	Explore the Samprapti vighatana, Chikitsa sutra & Chikitsa of Kateegraha(SP42) andConstruct a Chikitsa yojana including Rasayana and Pathyapathya	CAN	МК	KH	L&PPT	T-CS,VV- Viva	F&S	II	-	LH
CO1, CO2, CO3	Describe the Samprapti vighatana Chikitsa sutra & Chikitsa of Greevagraha(SP45) andGenerate the Chikitsa yojana including Rasayana and Pathyaapathya	CS	MK	KH	L&PPT	T-CS,VV- Viva	F&S	II	-	LH
CO1, CO3, CO4	Explore the Samprapti vighatana Chikitsa sutra & Chikitsa of Kroshtuka sheersha andDevelop the Chikitsa yojana including Rasayana and Pathyaapathya	CS	МК	KH	L&PPT	VV-Viva,T- CS	F&S	II	-	LH
CO1, CO2, CO3, CO4	Describe the Etiopathogenesis, Diagnosis, Ayurvedic perspective and Principles of management of Osteoporosis(SP00) and Osteopenia	CC	DK	KH	L&PPT	VV-Viva,T- CS,T-OBT	F&S	II	-	LH
CO1, CO2, CO3, CO4	Detail the Etiopathogenesis, Diagnosis, Ayurvedic perspective and Principles of management ofRaktaheenatajanya dhatunasha(AvascularNecrosis)	CC	DK	КН	L&PPT	T-OBT,T-C S,VV-Viva	F&S	II	-	LH
CO1, CO2, CO3, CO4	Consolidate the Etiopathogenesis, Diagnosis, Ayurvedic perspective, and Principles of management of Sandhi gatavata(Osteoarthritis(SP12)) and Construct a Chikitsa yojana based on Ayurvedic principles	CS	МК	KH	DIS,IBL ,FC	T-OBT,T-C S,VV-Viva	F&S	II	-	NLHT12.1
CO1, CO2, CO3	Summarize the Etiopathogenesis, Diagnosis, Ayurvedic perspective and Principles of management of Kasheruka vyadhi(Spondylopathies) and Kateeshoola (Lumbago)	CC	DK	КН	TBL	T-OBT,VV- Viva	F	II	-	NLHT12.2

CO1, CO2, CO3, CO4	Constru various srotodu	ct the Chikitsa yojana based on the interpretation of investigations utilized in the diagnosis of Asthimajj shti vikara	avaha	САР	DK	К	TUT,X- Ray,DIS ,IBL,LR I	QZ ,CL- PR,PUZ	F&S	II	-	NLHT12.3		
CO1, CO2	Discuss and Ma	the Etiopathogenesis, Diagnosis, Ayurvedic perspective nagement of Asthisankatarbuda(Osteosarcoma)	ctive	CC	DK	K	PER	CL-PR,QZ	F	Π	-	NLHT12.4		
CO1, CO2, CO3, CO6, CO7	Demons Pathyaa Asthiva examins	strate the Chikitsa yojana including Rasayana and pathya & prepare the case record of hasrothodushti vikara after performing a relevant cli ation.	nical	PSY- MEC	МК	SH	D-BED	QZ	F&S	П	-	NLHP12.1		
CO1, CO2, CO3, CO4	<ul> <li>Assess the importance of commemorating World Spinal Day.</li> </ul>		у.	AFT- RES	NK	SH	D	QZ	F	II	-	NLHP12.2		
Non L	ecture H	lour Theory												
S.No		Name of Activity	Description of Theory Activity											
NLHT 12.1       Discussion on the etiopathogenesis, Diagnosis and Management of Osteoarthritis       I         N       N       N         N       N       N         N       N       N				Flipped classroom The topic is given and they are asked to prepare notes on etiopathogenesis, ayurvedic perspective, and management from medical books and online scientific articles(shared by mentor) The next day the students are divided into groups and engage in group discussions. Mentors facilitate the discussion and students are encouraged to ask questions Mentors give answers to the queries										

		Evaluation is done by Quiz and i resentation
NLHT 12.2	Detailed understanding of the Diagnosis, Clinical	Team-based learning, Presentation
	examination, ayurvedic perspective and	The students are divided into different teams

	management of Lumbar spondylosis and Cervical Spondylosis	One team is asked to present a case on Lumbar spondylosis and Cervical Spondylosis The second team does a detailed presentation about the topic The third team performs a clinical examination in a simulated case The fourth team does a presentation on the investigations Followed by a group discussion on Ayurveda diagnosis and Management Mentors answer the queries and give feedback
NLHT 12.3	Ayurvedic management of Asthimajjavaha srotodushti vikara based on interpretation of Radiological Investigations	Tutorial A mentor gives a brief introduction about the various investigations advised in a clinical case of Asthi /Majja vikruti Students are encouraged to be involved in small group discussion Each group is given an X-ray, CT scan, or MRI film Students observe and interpret the radiological findings and plan the Ayurvedic Management accordingly. Discussion is followed
NLHT 12.4	Discussion on Asthisankatarbuda(Osteosarcoma)	Class Presentation The students are encouraged to collect information on the etiopathogenesis, Diagnosis, Investigations Prognosis and Management of Osteosarcoma The students do a presentation Discussion is followed The Mentor gives answers to the queries The Evaluation is done using a Quiz, Puzzle
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity

NLHP :	<ul> <li>Bedside case taking of</li> <li>1.Sandhigata vata</li> <li>2 Kateegraha</li> <li>3.Greeva graha</li> <li>4.Raktaheenatajanya</li> <li>dhatunasha(AvascularNecrosis)/ Kroshtuka</li> <li>sheersha/Asthikshaya</li> </ul>	Refer th	ie case-ta	king frame	work as d	etailed in t	he NLHP Acti	vity 3.1 T	otal 8 h	rs	
NLHP	Commemoration of World spine day(Oct 16)	Inhouse The Stud commun therapeu teaching	e OR Outin idents are nication, utic aspect g of asthin	each activ encourage and audio- t of spinal majjavaha	ity(3hrs) ed to condu visual aid disorders sroto-dush	uct public a s showing .Public out nti vikara	awareness prog the importance reach activity	grams usin e of spinal can be cor	ng suita health, nducted	ble mass Preventive during the	e and Syllabus
Topic 13 Chikitsa of Pranavaha Srotodushti Vikara (TM2:SL40-SL4Z) (LH :6 NLHT: 4 NLHP: 24)											
A3	B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1, CO3	Describe Chikitsa Sutra of Pranavaha Srotodushti, Samprap vighatana of Shwasa roga(SL42) & Hikka roga (SM74) wit treatment algorithm according to its stages of shadkriyakala appropriate plan of Shadvidopkrama & Doshopakrama.	nti h a and	CE	МК	КН	L,L&G D,L&PP T	S-LAQ,VV -Viva,OSC E,CBA,P- VIVA	F&S	Π	-	LH
CO1, CO3	Explain Chikitsa Sutra and Samprapti Vighatana of Kasa ro with a treatment algorithm according to its stages of Shadkriyakala and appropriate plan of Shadvidopkrama & Doshopkrama.	oga	CE	МК	КН	L&GD, L&PPT ,L	S-LAQ,QZ ,P-VIVA,C BA,VV- Viva	F&S	Π	-	LH

CO1, CO3	Define Chikitsa sutra and Samprapti vighatana of Urahkshat with a treatment algorithm according to its stages of Shadkriyakala and status of Ojus.	CE	МК	КН	L&PPT ,L,PSM, CBL,PE R	CBA,PRN, P-VIVA,C OM,M- POS	F&S	II	-	LH
CO2, CO6	Explain the Etiopathogenesis, Diagnosis & Principles of management and Ayurvedic perspective of Tamaka shwas(Bronchial Asthma) (SL40), Jirna shwasakrichchhanika (ChronicObstructive Pulmonary Disease), Vispharah (Bronchiectasis).	СС	DK	КН	CBL,L &GD,L S,DIS,L	T-CS,COM ,M-POS,SB A,PRN	F&S	II	-	LH
CO1, CO2, CO3	Explain the Etiopathogenesis, Diagnosis, Principles of management, and Ayurvedic perspective of Antaraaleeya Phuphphusa Vikara (Interstitial lung Disease), Phuphphusa arbuda (Lung Cancer), Phuphphusaasruti(Pleural effusion)	CC	NK	КН	FC,SDL ,L_VC, L&GD, D	CBA,VV-V iva,S-LAQ, P-VIVA,O SCE	F&S	II	-	LH
CO1, CO3, CO4	Construct a chikitsa yojana (treatment plan ) of Shwasa (SL42)& Hikka (SM74)	CS	МК	КН	PSM,PB L,FC,P ER,BS	S-LAQ,CB A,QZ ,VV- Viva,P- VIVA	F&S	II	-	NLHT13.1
CO1, CO3, CO4	Formulate Chikitsa yojana (treatment plan) of Kaasa Roga (SL41)	CS	МК	КН	FC,L& GD,CB L,BS,P ER	P-VIVA,C BA,RK,Mi ni-CEX,S- LAQ	F&S	II	-	NLHT13.2
CO1, CO3, CO4	Sketch Chikitsa-yojana ( treatment plan ) of Trirupa , Shadrupa, Ekadasha rupa Rajyakshama , Anuloma Kshaya & Pratiloma Kshaya	CS	МК	КН	FC,BS, PER,SD L,CBL	VV-Viva,M ini-CEX,P- VIVA,PRN ,S-LAQ	F&S	II	-	NLHT13.3
CO1, CO3, CO4	Construct Chikitsa yojana (treatment plan ) of Urahkshat roga.	CS	МК	КН	PER,L& GD,BS, FC,CBL	VV-Viva,P RN,COM,S -LAQ,P-	F&S	II	-	NLHT13.4

						VIVA				
CO1, CO2, CO3, CO6, CO7	Demonstrate clinical examination to diagnose & prognosticate , write treatment & prepare case record in a case of Mahashwasa, Urdhwa shwasa, Chhinna Shwasa, Kshudra Shwasa.	PSY- GUD	МК	SH	CBL,C D,X-Ra y,D-BE D,LRI	Mini-CEX, CBA,VV-V iva,P-VIVA ,OSCE	F&S	II	-	NLHP13.1
CO1, CO2, CO3, CO6, CO7	Perform clinical examination to diagnose & prognosticate, write treatment & prepare case record in a case of Kaasa Roga (SL41)	PSY- GUD	МК	SH	CBL,C D,X-Ra y,D- BED	P-VIVA,R K,VV-Viva ,CBA,CHK	F&S	Π	-	NLHP13.2
CO1, CO2, CO3, CO6, CO7	Demonstrate clinical examination to diagnose & prognosticate, write treatment & prepare case record in a case of Tamaka Shwasa (SL42)	PSY- MEC	МК	SH	CBL,C D,D-BE D,LRI, X-Ray	P-VIVA,C OM,QZ ,P- CASE,VV- Viva	F&S	Π	-	NLHP13.3
CO1, CO2, CO3, CO6, CO7	Perform clinical examination to diagnose & prognosticate, write treatment & prepare case record in a case of Rajayakshma (~Pulmonary Tuberculosis)	PSY- GUD	МК	SH	X-Ray, CBL,C D,D-BE D,LRI	QZ ,P-CAS E,VV-Viva, OSCE,CO M	F&S	Π	-	NLHP13.4
CO1, CO2, CO3, CO6, CO7	Conduct clinical examination to diagnose & prognosticate, write treatment & prepare case record in a case of Jirna Shwasakrichchhanika (Chronic Obstructive Pulmonary Disease)	PSY- GUD	МК	КН	LRI,D- BED,X- Ray,CB L,CD	P-VIVA,R K,VV-Viva ,Mini- CEX,OSCE	F&S	Π	-	NLHP13.5
CO1, CO2,	Perform clinical examination to diagnose & prognosticate, write treatment & prepare case record in a case of Vispharah	PSY- MEC	DK	SH	CD,CB L,D-BE	QZ ,Mini-C EX,COM,O	F&S	Π	-	NLHP13.6

CO3, CO6, CO7	(Bronch	iectasis)				D,X- Ray,LRI	SCE,P- VIVA				
CO1, CO2, CO3, CO6, CO7	Practice treatment (Pleural	clinical examination to diagnose & prognosticate, what & prepare case record in a case of Phuphphusaasru effusion)	rite PSY- ti GUD	DK	SH	CBL,C D,X-Ra y,LRI,D- BED	VV-Viva,C OM,QZ ,C L- PR,OSCE	F&S	П	-	NLHP13.7
CO1, CO2, CO3, CO6, CO7	Perform treatmer Phuphp	clinical examination to diagnose & prognosticate, want & prepare case record in a case of Antaraalayi nusa Vikara (Interstitial Lung Disease)	rite PSY- MEC	NK	КН	CD,CB L,X-Ra y,D-BE D,LRI	CL-PR,QZ ,RK,VV-Vi va,Mini- CEX	F	П	-	NLHP13.8
CO1, CO2, CO3, CO5, CO6, CO7	Describ	e the working of DOTs Centre	CC	МК	КН	FV	RK,CL-PR, VV-Viva,P- VIVA,PRN	F&S	П	-	NLHP13.9
CO1, CO2, CO5	Practice nebulization and administer oxygen therapy		PSY- GUD	МК	SH	CBL,D, D-BED, TUT	CBA,VV-V iva,SP,P- RP,DOPS	F&S	II	-	NLHP13.10
Non Lo	ecture H	our Theory									
S.No		Name of Activity	Description of	Theory A	Activity						
NLHT 13.1Chikitsa yojana (treatment plan ) of Shwasa (SL42)& Hikka (SM74) byLet Th an			Lecture with gr The teacher lays and points to be	oup discu down grou discussed	<b>ssion</b> und rules during the	of discussion course of o	on and delivers discussion by p	a primer l outting up	ecture open er	to introduc nded quest	the topic tons and

encouraging students to share meaningful thoughts and ideas.

If discussion is lingering on one talking point, the teacher intervenes by putting up a new dimension / idea for discussion by asking questions.

At the end of the discussion the teacher summarises the important concepts & ideas.

Teacher may use powerpoint slides to navigate the discussion)

#### **Brainstorming:**

The teacher sets up a context of brainstorming and explains the process of brainstorming and defines a clear objective and expected outcome from the session. The students are divided into teams.

After students are divided, the teacher appoints facilitator(s) for the whole process.

Ground rules are set for the process in consultation with facilitators and a time limit is set for the whole process.

All the teams work separately and then capture all possible ideas. After all the ideas have been captured, it's time to discuss them. The team needs to be productive in choosing a creative idea that suits the problem, or they can try combining a few ideas to come up with a holistic solution. To make decisions as a group and come to an agreement, teams can use the voting method. Team leaders capture all ideas and presents before the whole class.

#### **Case Based learning**

Case-based Learning is an inquiry-based approach to learning medicine through clinical case scenarios in a collaborative small group setting.

The teacher divides class into small groups and a case history/ case study to each group

The students thoroughly go through the case history/case study and available supplementary material. While going through case study students annotate the parts of the case that they feel are the most relevant. They can also use a highlighter or a pen to highlight, underline or circle important pieces of information.

The students sum up the essence of the case/case study and summarise it.

### **Flipped Classroom**

It is implemented in three steps

**Pre-class learning** :Teacher assigns readings, videos, podcasts and other available materials which students go through on themself. After going through these students are required to respond to a series of quizzes or simple questions based on the concept discussed. The teacher can ask the students to post their own questions and attempt to answer other ones on a shared online platform.

**In class activities** :Within the classroom, students check with the teacher whether they have truly understood the subject through activities that require the skills they have acquired to develop. The students work together in small groups to analyze a problem, come up with their own solution, and evaluate other possible courses of action.

**Post class reinforcement :** Then students go to the OPDs/IPDs to experience/ learn in a real world scenario.

#### Presentation

The class is divided in groups of 3-5 students

Each student is allotted a specific component of the topic to go through from various sources and prepare a presentation.

Each group gives its presentation in class .

Other students ask the questions and the presenting team answers queries.

Teacher makes a concluding remark after each presentation including following points

- Assessment for suitability (yogya- ayogya) for
- a. Shodhana Chikitsa
- b. Shamana Chikitsa
  - Aushadha yojna for shamana chikitsa :

A. Ekala Aushadha Yoga (single drug therapy) for Shwasa & Hikka with appropriate anupana: 1. Kushmanda shifa churna 2. Pippali churna 3. Shuddha Gandhaka 4. Bharangi kvatha 5. Kanaka( Dhattura Phala ) Dhoomrasaayana

B. Aushadha Kalpas with appropriate sevana kala matra, anupana of the following Aushadh yoga in Shwasa & Hikka : 1. Shwashara Mahakashaya & Hikkanigrahana Mahakashaya 2. Bharangi- Nagara Kwatha 3. Gojihwadi kwatha 4. Shwasa Kutara rasa 5. Shringarabhra rasa 6. Shwasa Kasa Chintamani rasa

		C. Naimittika Rasayan for Shwasa & Hikka D. Pathyaapathya
NLHT 13.2	Chikitsa yojana (treatment plan) of Kaasa Roga (SL41)	For Details refer NHLT 13.1
		• Asessement for suitability (yogya- ayogya) for
		a. Shodhana Chikitsa b. Shamana Chikitsa
		Aushadha yojna for shaman chikitsa :
		<ul> <li>A. Ekala Aushadha (Single Drug) Yoga with appropriate anupana: 1. Shringavera (Ardraka ) swarasa</li> <li>2. Kantakari Kwatha 3. Bibhitaka Churna 4. Vasa swarasa 5. Maricha Churna</li> <li>B. Ausadha Kalpa Prayog with appropriate matra, anupana , sevana kala :1. Kasahara Mahakashaya 2.</li> <li>Bharangi- Nagara Kwatha 3. Gojihwaadi kwath 4. Chandramrita rasa 5. Naardeeya Laxmivilaas rasa 6.</li> <li>Aanada bhairava rasa 7. Sitopaladi Choorna 8. Taalishaadi churna 9. Chitraka Haritaki Avleha 10.</li> <li>Marichadi Gutika 11. Lavangadi gutika 12. Vyoshadi vati.</li> <li>C. Naimittika Rasayana for Kaasa roga.</li> <li>D. Pathyaapathya recommendation</li> </ul>
NLHT 13.3	Chikitsa yojana ( treatment plan ) of or Trirupa , Shadrupa, Ekadasha rupa rajyakshama , Anuloma kshaya & Pratiloma kshaya	Refer NHLT13.1
		• Asessement for suitability (yogya- ayogya) for

		a. Shodhana chikitsa b. Shamana chikitsa
		<ul> <li>Aushadha yojana for Shaman chikitsa :</li> <li>A. Ekala aushadha yoga with appropriate anupana: 1. Nagbala Churna 2. Kakjangha Churna 3. Laksha Churna 4. Vasa Panchanga 5. Haritaki Churna 6. Pippali churna.</li> <li>B.Aushadha Kalpa prayoga with appropriate matra, anupana , sevana kala for following : 1. Balya Mahakashaya 2. Brinhaneeya Mahakashaya 3. Trailokya chintamani rasa 4. Loknath rasa 5. Swarnabhupati rasa 6. Hemgarbha pottali rasa 7. Yavani Shadav Churna 8. Pippali vardhmana rasayana 9. Vaasa Avleha 10. Drakshasava</li> <li>C. Naimittika Rasaayana for Rajayakshma &amp; Shosha</li> <li>D. Pathyaapathya recommendation for Raajyakshma &amp; Shosha</li> </ul>
NLHT 13.4	Construct Chikitsa yojana (treatment plan ) of Urahkshat roga.	For details refer NHLT13.1
		• Asessement for suitability (yogya- ayogya) for
		a. Shodhana Chikitsa b. Shamana Chikitsa
		• Aushadha yojna for shaman chikitsa :
		A. Ekala Aushadha Yoga with appropriate anupana:1. Laksha Churna 2. Nagbala Kalpa 2. Brahmi Kalpa 3. Madhuyashti Kalpa 4. Nagar Kalpa 5. Laja churna B.Aushadha Kalpa prayoga with appropriate matra, anupana , sevana kala for following1. Elaadi

		gutika 2. Amritpraash Avleha 3. Ajaamaamsa Rasaayan C. Naimittika Rasayana for Kshata-ksheena/Urahkshat D. Pathya -Apathya Recommendation for Urahkshata
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 13.1	Bedside demonstration of a case of Mahashwasa, Urdhwa shwasa, Chhinna Shwasa, Kshudra Shwasa. ( Any one case)	Refer the case taking framework as described in NHLP 3.1 (2 hours)
NLHP 13.2	Bedside case demonstration of case of Kaasa Roga (SL41)	Refer the case taking framework as described in NHLP 3.1 (2 hours)
NLHP 13.3	Bedside demonstration of case of Tamaka Shwasa (SL42)	Refer the case taking framework as described in NHLP 3.1
NLHP 13.4	Bedside case demonstration of a case of Rajayakshma (~Pulmonary Tuberculosis) ( 2 hours)	Refer NHLP 3.1
NLHP 13.5	Bedside demonstration of a case of Jirna Shwasakrichchhanika (ChronicObstructive Pulmonary Disease)	Refer the case taking framework as described in NHLP 3.1 (2 hours)
NLHP 13.6	Bedside demonstration of case of Vispharah (Bronchiectasis)	Refer the case taking framework as described in NHLP 3.1 (2hours)
NLHP 13.7	Bedside Case demonstration of case of Phuphphusaasruti (Pleural effusion)	Refer the case taking framework as described in NHLP 3.1 (2 hours)

NLHP 13.8	Bedside demonstration of case of Antaraalayi Phuphphusa Vikara (Interstitial Lung Disease)	Refer the case taking framework as described in NHLP 3.1 (2 hours)
NLHP 13.9	Field visit to DOTs Centre	The students will visit with mentor to nearest DOTs centre and understand the four pillars of NTEP (Revised National TB Eradication Program) 1. Detect 2. Treat 3. Prevent 4. Build (6 hours)
NLHP 13.10	Demonstration of Nebulization & oxygen therapy ( 2 hours)	<ul> <li>Nebulization The nebulizers should be used according to manufacture's instructions The mentor will demonstrate the basic steps to set up and use nebulizer are as follows: <ul> <li>To Wash hands.</li> <li>To Connect the hose to an air compressor.</li> <li>To Fill the medicine cup with your medicine.</li> <li>To avoid spills, close the medicine cup tightly and always hold the mouthpiece straight up and down. <ul> <li>To attach the other end of the hose to the mouthpiece and medicine cup.</li> <li>To furn on the nebulizer machine.</li> <li>To place the mouthpiece in mouth.</li> <li>To keep lips firmly around the mouthpiece so that all of the medicine goes into lungs. If using a facemask, to place it over the mouth and nose.</li> <li>To breathe through mouth until all the medicine is used. (This takes 5 to 20 minutes, depending on the device and medicine used. If needed, use a nose clip)</li> <li>To turn off the machine when done.</li> </ul></li></ul></li></ul>

## To administer Oxygen therapy The mentors will demonstrate

- Assessment of need of oxygen therapy (suspected or confirmed hypoxemia)
- Assess if high flow and low flow oxygen therapy is needed. (A prescription is required for oxygen therapy. The prescription should include the oxygen-delivery device, the flow rate, and the amount of oxygen to deliver)
- Set the target peripheral oxygen saturation (SpO2) (for most acutely ill patients is 94% to 98%.Patients with chronic obstructive pulmonary disease should have a target of 85% to 92%.)
- Set up the oxygen delivery system.
- Attach the oxygen flowmeter to the oxygen source. (Verify that the flowmeter is connected to oxygen, not air or another gas. Connecting the flowmeter to a gas other than oxygen can have fatal consequences.)
- Attach the humidifier to the oxygen flowmeter, if needed.
- Attach the oxygen delivery device (i.e., cannula, mask) via the oxygen tubing to the humidifier or directly to the oxygen flowmeter via the flowmeter adaptor.
- Adjust the oxygen flowmeter to the prescribed flow rate
- Position the oxygen delivery device on the patient's face and adjust the elastic headband (or behind-ear loops and under-chin lanyard of the cannula) to achieve a comfortably snug fit. Maintain enough slack on the oxygen tubing.
  - *Nasal cannula:* Ensure proper positioning of the cannula tips in the patient's nares. If the cannula tips are curved, ensure that they point downward.
  - *Simple face mask:* Ensure that the mask is over the patient's mouth and nose, forming a seal
  - *Partial rebreathing mask:* Ensure that the mask is over the patient's mouth and nose, forming a tight seal. Also ensure that the reservoir bag remains partially inflated on inspiration
  - *Non-rebreathing mask:* Ensure that the mask is over the patient's mouth and nose, forming a tight seal. Ensure that both one-way valves at the side ports are in place to maintain a full non-rebreather system. Also ensure that the reservoir bag remains partially inflated on inspiration

		<ul> <li><i>Venturi mask:</i> Ensure that the mask is over the patient's mouth and nose, forming a tight seal, and that the appropriate port has been selected</li> <li><i>Face tent:</i> Ensure that the tent fits under the patient's chin and over the mouth and nose</li> <li>Verify that the oxygen delivery device is functioning properly</li> </ul>									
	HFI	NC OXYGE	N THERA	PY							
	<ol> <li>Position the nasal cannula on the patient's face and adjust the head strap to achieve a comfortably snug fit . Follow the manufacturer's instructions for application.</li> <li>Ensure proper positioning of the cannula tips in the patient's nares. If the cannula tips are curved, ensure that they point downward.</li> <li>Maintain enough slack on the oxygen tubing.</li> <li>Review the high-flow oxygen delivery device settings, use of humidifier and heater, and alarms with the respiratory therapist.</li> <li>Verify that the oxygen delivery device is functioning properly.</li> <li>Observe the oxygen delivery device frequently to ensure proper placement. Readjust as necessary.</li> <li>Monitor the patient's vital signs and SpO2 level and when making changes in oxygen therapy.</li> <li>Check the humidifier when taking vital signs.         <ul> <li>Low-flow oxygen therapy: Replace the humidifier when it is empty.</li> <li>High-flow oxygen therapy: Notify the respiratory therapist when it is almost empty.</li> </ul> </li> <li>Observe the skin of the patient's outer ears, back of the head, bridge of the nose, nares, and nasal mucous membranes for evidence of pressure injuries or drying.</li> </ol>								e a tips are er, and ust as gen therapy. n ost empty. ares, and		
Topic 1	4 Chikitsa of Udakavaha srotodushti vikara (LH :5 NL)	HT: 2 NLH	( <b>P: 8</b> )								
A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3	
CO1,	Appraise Chikitsa sutra and Samprapti vighatana of Trishna with	CE	MK	KH	L&GD,	QZ ,CBA,P	F&S	III	-	LH	
CO3	a treatment algorithm according to its stages of Shadkriyakala and appropriate Chikitsa yojana of Trishna Roga.				L&PPT ,L	-VIVA,T-C S,VV-Viva					
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CO1, CO3	Explain Chikitsa sutra and Samprapti vighatana of Shotha roga with a treatment algorithm according to its stages of Shadkriyakala and appropriate plan of Shadvidhopakrama & Doshopakrama.	CE	МК	КН	L&PPT ,L,L&G D	M-POS,CH K,QZ ,P- CASE,RK	F&S	III	-	LH	
CO1, CO3	Describe Chikitsa sutra and Samprapti vighatana of Jalodara roga with a treatment algorithm according to its stages of Shadkriyakala and appropriate plan of Shadvidhopakrama & Doshopakrama.	CE	МК	КН	L&GD, L&PPT ,L	VV-Viva,S- LAQ,T-CS, CL-PR,M- CHT	F&S	III	-	LH	
CO2, CO6	Explain the Etiopathogenesis, Diagnosis, Principles of management and Ayurvedic perspective of Ascites & Jaliyovidyutansh vaishamya (Fluid- electrolyte imbalance)	CC	NK	КН	L&PPT ,L&GD, L	PRN,CL-P R,OSCE,V V-Viva,P- VIVA	F	III	-	LH	
CO1, CO3	Appraise Chikitsa sutra and Samprapti vighatana of Ekdesheeya roga with a treatment algorithm according to its stages of Shadkriyakala and appropriate plan of Shadvidhopakrama & Doshopakrama.	CE	DK	КН	L,L&G D,L&PP T	T-CS,QZ , CBA,COM, P-VIVA	F&S	III	-	LH	
CO1, CO3, CO4	Construct Chikitsa yojana for Shotha roga.	CE	МК	КН	DIS,SD L,D,CB L,FC	VV- Viva,QZ ,S -LAQ,CHK ,CBA	F&S	III	-	NLHT14.1	
CO1, CO3, CO4	Construct chikitsa yojana of Udar roga & Jalodara	CE	МК	КН	BS,CBL ,PER,F C,L&G D	Mini-CEX, P- VIVA,QZ, VV- Viva,CHK	F&S	III	-	NLHT14.2	

CO1, CO2, CO3, CO6, CO7	Perform treatme Kaphod	n clinical examination to diagnose & prognosticate , nt & prepare case record in a case of Vatodar- Pittod lara- Dushyodara.	write ara-	PSY- MEC	МК	SH	CD,D-B ED,X-R ay,LRI, CBL	OSPE,VV- Viva,Mini- CEX,CBA, P-VIVA	F&S	III	-	NLHP14.1
CO1, CO2, CO3, CO6, CO7	Perform treatme Pleehoo	n clinical examination to diagnose & prognosticate , nt & prepare case record in a case of Yakritodara & lara, Chhidrodara, Baddha gudodara.	write	PSY- MEC	МК	SH	CD,X-R ay,LRI, CBL,D- BED	CBA,RK,M ini-CEX,P- VIVA,QZ	F&S	III	-	NLHP14.2
CO1, CO2, CO3, CO6, CO7	Perform treatme	n clinical examination to diagnose & prognosticate , nt & prepare case record in a case of Jalodara	write	PSY- MEC	МК	SH	LRI,X- Ray,CD ,CBL,D- BED	OSCE,VV- Viva,P-VIV A,CBA,Mi ni-CEX	F&S	III	-	NLHP14.3
CO1, CO3, CO4, CO6, CO7	Perforn treatme	n clinical examination to diagnose & prognosticate, w nt & prepare case record in a case of Shotha roga .	vrite	PSY- MEC	МК	SH	CBL,D- BED,L RI,X- Ray,PT	Mini-CEX, VV-Viva,P- VIVA,RK, CBA	F&S	III	-	NLHP14.4
Non Lo	ecture H	Iour Theory										
S.No		Name of Activity	Description of Theory Activity									
NLHT 14.1       Constructing chikitsa yojana for Shotha roga       Refer the framework as described in NHLT 13.1         • Asessement for suitability (yogya- ayogya) for       a. Shodhana Chikitsa												

		b. Shamana Chikitsa
		<ul> <li>Aushadha yojna for shaman chikitsa :1. Bilva patra svaras 2. Punarnavamoola churna /Kwatha 3. Maankand Churna 4. Gudardraka Kalpa 5. Eranda taila</li> </ul>
		A. Ekala Aushadha Yoga with appropriate anupana:1. Shothahar Mahakashaya 2. Gudardraka Yog 3. Punarnavashtaka Kwaatha 4. Kansa Hareetaki 5. Dashmoola haritaki 6. Punarnaavasava 7.Patoladi Kwaath 8. Punarnavaadi Guggulu 9. Punarnavaadi Madura
		B.Aushadha Kalpa prayoga with appropriate matra, anupana , sevana kala for following C. Naimittika Rasayana for Shotha roga
		D. Pathya -Apathya Recommendation for shotha roga
NLHT 14.2	Constructing Chikitsa yojana of Udar roga & Jalodara	Refer the framework as described in NHLT 13.1
		• Assessment for suitability (yogya- ayogya) for
		a. Shodhana Chikitsa b. Shamana Chikitsa
		• Aushadha yojna for shaman chikitsa :
		<ul> <li>A. Ekala Aushadha Yoga with appropriate anupana:1. Guggulu Kalpa 2. Haritaki Kalpa 3. Shilajatu Kalpa 4. Pippali Vardhmana Kalpa 5. Gomutra</li> <li>B.Aushadha Kalpa prayoga with appropriate matra, anupana , sevana kala for following:1.</li> <li>Arogayavardhini Vati 2. Jalodarari rasa 3. Ichchhabhedi rasa 4. Abhayadi Modaka 5. Sahasra hareetaki yog 6. Narayan Choorna 7. Narach Ghrita</li> <li>C. Naimittika Rasayana for for udara roga</li> </ul>

			D. Pathya -Apathya Recommendation for udara roga										
Non L	ecture H	Iour Practical	1										
S.No		Name of Practical	Description of Practical Activity										
NLHP	14.1	Bedside demonstration of a case of Vatodara- Pittodara- Kaphodara- Dushyodara	Refer the case taking framework as described in NHLP3.1 (2 hours)										
NLHP	14.2	Bedside demonstration of case of Yakritodara & Pleehodara, Chhidrodara, Baddha gudodara.	Refer (3 hou	the case ta irs)	king frame	ework as c	lescribed in	NHLP3.1					
NLHP 14.3       Bedside demonstration of case of Jalodara       Refer the case taking framework as described in NHLP3.1         (2 hours)       (2 hours)													
NLHP	14.4	Bedside demonstration of case of Shotha roga	Refer the case taking framework as described in NHLP3.1 (2 hours)										
Topic	15 Chik	kitsa of Mootravaha srotodushti vikara (LH :4	4 NLH'	T: 4 NLH	<b>(P: 8</b> )								
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3	
CO1, CO3, CO4	<ul> <li>CO1, Describe Chikitsa sutra and Samprapti vighatana of</li> <li>CO3, Mootrakriccha roga with a treatment algorithm according to</li> <li>Stages of Shadkriyakala and appropriate plan of</li> <li>Shadvidhopakrama &amp; Doshopakrama</li> </ul>		o its	CE	МК	КН	L&GD, L&PPT ,L_VC	VV-Viva,P- VIVA,CO M,QZ ,CBA	F&S	III	-	LH	
CO1, CO3, CO4	<ul> <li>CO1, Detail Chikitsa sutra and Samprapti vighatana of Mootraghat</li> <li>CO3, (SM81) with a treatment algorithm according to its stages of</li> <li>Shadkriyakala and appropriate plan of Shadvidhopakrama &amp;</li> </ul>			CE	МК	КН	L,L&PP T ,L&GD	S-LAQ,VV -Viva,COM ,QZ ,CBA	F&S	III	-	LH	

	Doshopakrama									
CO1, CO3	Explain the Etiopathogenesis, Diagnosis, Principles of management and Ayurvedic perspective of Ashu Vrikka -nishkriyata (Acute Renal Failure) & Chirakaari vrikka -nishkriyata (Chronic Renal Failure)	CE	DK	КН	L,L&PP T ,L&GD	M-POS,P- VIVA,S-L AQ,VV- Viva,CBA	F&S	III	-	LH
CO1, CO3	Explain the Etiopathogenesis, Diagnosis, Principles of management and Ayurvedic perspective of Mutra Gaveenika shotha (UTI), Vrikka Koshika Shotha (Nephritis)(SM84), Pourusha Granthi Shotha (Prostitis), and Mutranalika- Basti shotha (Urethritis-Cystitis),	СС	МК	КН	L&PPT ,L,L&G D	T-CS,Mini- CEX,P-VI VA,M-POS ,S-LAQ	F&S	III	-	LH
CO1, CO3, CO4	Construct Chikitsa yojana for Samprapti vighatana of Mootrakrichchha roga (SM82)	CS	МК	KH	PER,SD L,PBL, L&GD, CBL	CBA,P-VI VA,VV- Viva,QZ ,S- LAQ	F&S	III	-	NLHT15.1
CO1, CO3, CO4	Construct Chikitsa yojana for Samprapti vighatana of Mootraghaata roga (SM81)	CS	DK	KH	L&PPT ,L&GD, L	CBA,S-LA Q,CHK,VV- Viva,QZ	F&S	III	H-SH	NLHT15.2
CO1, CO3, CO4	Construct Chikitsa yojana for Samprapti vighatana of Ashmari roga (SM82).	CS	МК	КН	FC,PER ,CBL,L &GD,B S	S-LAQ,P- VIVA,QZ, VV- Viva,CBA	F&S	III	-	NLHT15.3
CO1, CO3	Explain the Etiopathogenesis, Diagnosis, Principles of management and Ayurvedic perspective of Pourusha Granthi vriddhi (BPH), Pourusha Granthi Arbuda (Ca Prostate) & Apavrukkatva (Nephrotic Syndrome)	CC	NK	КН	FC,BS, PER,CB L,L&G D	RK,QZ ,V V-Viva,CB A,P-VIVA	F	III	-	NLHT15.4
CO1, CO2,	Perform clinical examination to diagnose & prognosticate, write treatment & prepare case record in a case of Mootraghata.	PSY- MEC	МК	SH	LRI,D- BED,C	VV- Viva,QZ ,O	F&S	III	-	NLHP15.1

CO3, CO6, CO7							D,CBL, X-Ray	SCE,P- VIVA,RK				
CO1, CO2, CO3, CO6, CO7	Perform treatme (Chroni	n clinical examination to diagnose & prognosticate , nt & prepare case record in a case of Vrikka-nishkri c Kidney Disease)	write yata	PSY- MEC	МК	SH	CBL,LR I,D-BE D,CD,X- Ray	CBA,VV-V iva,P-VIVA ,OSCE,RK	F&S	III	_	NLHP15.2
CO1, CO2, CO3, CO6, CO7	Perform treatme	n clinical examination to diagnose & prognosticate, nt & prepare case record in a case of Mootrakrichcc	write ha.	PSY- MEC	МК	SH	LRI,D- BED,C BL,X- Ray,CD	CBA,VV-V iva,COM,M ini-CEX,P- VIVA	F&S	III	-	NLHP15.3
CO1, CO2, CO5	Demon problen Urethra	strate Indwelling Urethral Catheter Insertion, mana ns due to Indwelling Catheters and remove Indwellin l catheters.	ge ng	PSY- GUD	МК	SH	SIM,SD L,D-BE D,CD,X- Ray	DOPS,P-PS ,SP,VV-Viv a,Mini- CEX	F	III	H-SH	NLHP15.4
Non L	ecture H	Iour Theory			•	-						
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT 15.1       Constructing Chikitsa Yojana for Samprapti vighatana of Mootrakrichchha roga (SM82)       Refer the framework as described in NHLT 13.1         • Assessment for suitability (yogya- ayogya) for       a. Shodhana Chikitsa         b. Shamana Chikitsa       b. Shamana Chikitsa												

		• Aushadha yojna for shaman chikitsa :
		<ul> <li>A. Ekala Aushadha Yoga with appropriate anupana:1. Gokshur kwaatha 2. Ela churna 3. Daruhaldi churna 4. Narikela Pushpa 5. Amalaki Kwatha</li> <li>B.Aushadha Kalpa prayoga with appropriate matra, anupana , sevana kala for following:1.</li> <li>Mootrarechaneeya Mahakashaya 2. Trinpanchmula Kashaya 3. Shatavaryadi Kashaya 4.</li> <li>Pashanbhedadi Choorna 5. Gokshuradi Guggulu 6. Chandanasava 7. Chandrakala rasa</li> <li>C. Naimittika Rasayana for Mootrakriccha</li> <li>D. Pathya -Apathya Recommendation for Mootrakrichha.</li> </ul>
NLHT 15.2	Constructing Chikitsa Yojana for Samprapti Vighatana of Mootraghaata roga (SM81)	Refer the framework as described in NHLT 13.1
		• Assessment for suitability (yogya- ayogya) for
		a. Shodhana Chikitsa b. Shamana Chikitsa
		Aushadha Yojna for Shaman Chikitsa :
		<ul> <li>A. Ekala Aushadha Yoga with appropriate anupana:</li> <li>B.Aushadha Kalpa prayoga with appropriate matra, anupana, sevana kala for following</li> <li>C. Naimittika Rasayana for</li> <li>D. Pathyaapathya Recommendation for Mootraghata</li> </ul>
NLHT 15.3	Constructing chikitsa yojana for samprapti vighatana of Ashmari roga (SM82)	Refer the framework as described in NHLT 13.1

		• Asessement for suitability (yogya- ayogya) for
		a. Shodhana Chikitsa
		b. Shamana Chikitsa
		• Aushadha yojna for shaman chikitsa :
		A. Ekala Aushadha Yoga with appropriate anupana: 1. Varuna Kwaatha 2. Narikela Pushpa 3.
		B Aushadha Kalpa prayoga with appropriate matra anupana seyana kala for following 1 Varunadi
		kashaya 2. Veertarvadi Kashaya 3. Shigrumooladi Kashaya 4. Trivikram rasa
		C. Naimittika Rasayana for Ashmari roga
		D. Pathyaapathya Recommendation for Ashmari roga
NLHT 15.4	Detailed understanding of management of Pourusha Granthi Vriddhi (BPH), Pourusha	Refer the framework as described in NHLT 13.1
	Granthi Arbuda ( Ca Prostate) & Apavrukkatva (Nephrotic Syndrome)	• Asessement for suitability (yogya- ayogya) for
		a. Shodhana Chikitsa
		b. Shamana Chikitsa
		• Aushadha yojna for shaman chikitsa :
		A. Ekala Aushadha Yoga with appropriate anupana.
		B.Aushadha Kalpa prayoga .
		C. Naimittika Rasayana
		D. Pathya -Apathya Recommendation

Non Lectu	Ion Lecture Hour Practical											
S.No	Name of Practical	Description o	f Practica	l Activity								
NLHP 15.1	Bedside demonstration of a case of Mootraghata	Refer the case	aking fram	ework as d	lescribed in	n NHLP 3.1						
NLHP 15.2	Bedside demonstration of a case of CKD	Refer the case	aking fram	ework as d	lescribed in	n NHLP 3.1						
NLHP 15.3	Bedside demonstration of a case of Mootrakrichcha	Refer the case taking framework as described in NHLP 3.1										
NLHP 15.4	Bedside demonstration of indwelling Urethral Catheter Insertion, managing problems due to Indwelling Catheters and removing Indwelling Urethral catheters.	<ul> <li>Mentor will demonstrate</li> <li>Scope of practice.,Informed consent.Cultural safety.</li> <li>Key consideration in decision to catheterise.</li> <li>Key considerations in choice of indwelling catheter Equipment.</li> <li>Infection prevention,Catheter care, Catheter bag emptying,Catheter bag Change,Urine Sampling for an Indwelling catheter.</li> <li>Indwelling Urethral Catheter Insertion (Female &amp; Male) Procedure.</li> <li>Problem Management for Indwelling Catheters.</li> <li>Decision to Remove Indwelling Urethral catheters, Potential problems During Removal of urethral catheter.</li> <li>Complications and Monitoring Following Removal of Indwelling Urethral catheters.</li> <li>The students will practice same under guidance of same through simulation models or patient.</li> </ul>						Urine moval of ers. Is or patients.				
Topic 16 (	Chikitsa of Purishavaha srotodushti vikara (SR5A	A) (LH :4 NLH	T: 4 NLH	<b>P: 8</b> )	-	_		_	•			
A3	B3	C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3		

CO1, CO3	Describe the treatment plan for Sama and Nirama stages of Atisara (SM37) and Explain Samanya chikitsa sutra and Chikitsa along with Pathyaapathya	CC	МК	КН	L&PPT ,L	PRN,QZ	F&S	III	-	LH
CO1, CO3	Explain the Samprapti vighatana, Chikitsa sutra and Chikitsa including Pathyaapathya of Pravahika (SM38) and Raktatisara	CC	DK	КН	L,L&PP T	PRN,QZ	F&S	III	-	LH
CO1, CO3	Summarize the Samprapti vighatana, Chikitsa sutra, Chikitsa and Pathyaapathya of Krimi roga(SQ50)	CC	МК	КН	L&PPT ,L	QZ ,PRN	F&S	III	-	LH
CO1, CO3	Detail the Samprapti vighatana, Chikitsa sutra and Chikitsa including Rasayana and Pathyaapathya of Arsha according to its types.	CC	МК	KH	L,L&PP T	PRN,CL- PR,QZ	F&S	III	H-SH	LH
CO1, CO3	<ul> <li>State Phalashruti, Matra, Anupana and Sevana kala of Aushadha yoga mentioned in atisara and pravahika</li> <li>Kutajaghana vati</li> <li>Dadimashtaka choorna</li> <li>Mustaarishtam</li> <li>Bilwadhi leha</li> <li>Gangadhara vati</li> </ul>	СК	DK	KH	TBL,L &GD,D IS	QZ ,PRN	F&S	ш	-	NLHT16.1
CO1, CO3, CO5	Discuss the etiopathogenesis, diagnosis, and principles of management of Pravahika (dysentery) ,Raktatisara (ulcerative colitis), Bruhadaantra arbuda (colorectal cancer)	CC	DK	KH	L_VC,T BL,PER ,L&GD	QZ ,O- QZ,PRN	F&S	III	-	NLHT16.2
CO1, CO3	State Phalashruti, mention the Matra, Anupana and Sevana kala of Yoga mentioned in various classical text for Krimi roga • Krimikuthara rasa • Krimighna vati	СК	DK	КН	REC,TB L,DIS,L &GD	PRN,QZ	F&S	Ш	-	NLHT16.3

	•	Nimbamrita kashaya Vidangarishtam										
CO1, CO3	Describ commo	e the Phalashruti, Matra, Anupana and Sevana kala o nly used Yoga in Arsha Arshakuthara rasa Kankayana vati Abhayarishta Takrarishta (Arshaadhikara)	of	CC	DK	КН	TBL,DI S,L&G D,REC	O-QZ,PRN, QZ	F&S	III	_	NLHT16.4
CO1, CO3, CO5	<ul> <li>CO1, Demonstrate the chikitsa yojana &amp; prepare case record in cases of</li> <li>CO3, Pureeshavaha sroto vikara after performing relevant clinical</li> <li>examination</li> </ul>			PSY- MEC	МК	SH	DIS,LRI ,L&GD, TBL,PE R	PRN,VV-V iva,PP-Prac tical,P- PRF,OSCE	F&S	III	-	NLHP16.1
CO1, CO5	Comme	emoration of International days		PSY- MEC	NK	SH	RLE,PE R,PBL, TBL,RP	P-POS,P-P S,P-RP,QZ	F	III	-	NLHP16.2
Non Lo	ecture H	Iour Theory										•
S.No		Name of Activity	Descri	iption of	Theory A	ctivity						
NLHT 16.1 Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha yoga for Atisara and Pravahika				• <b>Discussi</b> • The stud • Each Gr • Students	on and Te ents are di oup is allo	am based vided in g tted specif	learning roups of 3- ic Aushadh	5 students a yoga from library so	ources and	l prepar	e a presen	tation

		<ul> <li>Each group will present the allotted topic in class</li> <li>Students are encouraged to interact with the presenter under the supervision of the mentor</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul>
NLHT 16.2	Detailed understanding of Pravahika (dysentery), Raktatisara (ulcerative colitis), Bruhadantra arbuda (colorectal cancer) and its ayurvedic management	<ul> <li>Team based learning</li> <li>The students are divided into different teams</li> <li>One team is asked to present a case on dysentery (Pravahika), ulcerative colitis(Raktatisara), colorectal cancer (Bruhadantra arbuda)</li> <li>The second team present a detailed presentation about the topic on etiopathogenesis, diagnosis</li> <li>The third team perform clinical examination in a simulated case</li> <li>The fourth team does a presentation on the investigations and plan of treatment</li> <li>Followed by group discussion</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul>
NLHT 16.3	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha for Krimi roga	<ul> <li>Group Discussion</li> <li>The students are divided in groups of 3-5 students</li> <li>Each Group is allotted specific Aushadha yoga</li> <li>Students refer and compile the material from library sources and prepare a presentation</li> <li>Each group will present the allotted topic in class</li> <li>Students are encouraged to interact with the presenter under the supervision of the mentor</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks.</li> </ul>
NLHT 16.4	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha for Arsha	<ul> <li>Group Discussion</li> <li>The students are divided in groups of 3-5 students</li> <li>Each Group is allotted specific Aushada yoga</li> <li>Students refer and compile the material from library sources and prepare a presentation</li> <li>Each group will present the allotted topic in class</li> </ul>

		<ul> <li>Students are encouraged to interact with the presenter under the supervision of the teacher.</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 16.1	Bedside Case taking of Atisara , Pravahika ,Arsha, Raktatisara and Krimi	Long case taking of Atisara,Pravahika and Arsha ( 2 cases X 2hours = 4 hours )each batch short case taking of Raktatisara and Krimi ( 2cases X 1hour= 2 hours ) each batch. Interpretation of the Blood, Stools and Imaging reports of patients in IP related to Pureeshavaha srotas and its Avasthika chikitsa Students are asked to take cases in the IPD (6 Hours) Demonstration Bedside Refer case taking framework as described in NLHP3.1 and NLHP5.1 use for details Team based learning
		<ul> <li>The students will be divided into different teams</li> <li>One team will be asked to present Blood reports of patients in IP related to Pureeshavaha srotas</li> <li>The second team will present a presentation about Stools report of patients in IP related to Pureeshavaha srotas</li> <li>The third team will be asked to present on Imaging reports of patients in IP related to Pureeshavaha srotas</li> <li>The fourth team will do a presentation on avasthika chikitsa related to the lab reports</li> <li>Followed by group discussion</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul>
NLHP 16.2	Public awareness activity related to World colorectal cancer awareness day/world IBS day/World piles day	<ul> <li>World colorectal cancer awareness day/ world IBS day/ World piles day (Any one) (2 hours)</li> <li>Kinesthetic learning-The students will be asked to make posters on various aspect of the illness and do an exhibition of the same OR</li> <li>Role play-The students will be encouraged to perform a role play depicting the importance of prevention of disease using the ayurvedic principles and swift action on witnessing the early</li> </ul>

symptoms. OR
Public outreach program-Conduct a survey among the public to assess the susceptibility of
Colorectal cancer and educate them about the same. OR
Organise a rally to create awareness about Prevention OR
conduct medical camps
Prepare a report with a Geotagged Photograph

Paper 3	Paper 3 (Vyadhi Vishesha Chikitsa Evam Rasayana, Vajikarana)									
A3 Cour se out come	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
Topic 1	17 Chikitsa of Annavaha srotodushti vikara (LH :12 NLHT	: 4 NLHI	P: 14)							
A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO1, CO3	Describe the Samprapti vighatana, Chikitsa sutra Chikitsa and Aushadha yoga of Agnimandya(SM3B) Aruchi/ Arochaka	CC	МК	KH	L&PPT	T-CS,T- OBT,QZ ,VV-Viva	F&S	Ι	-	LH
CO1, CO3	Articulate the Samprapti vighatana, Chikitsa sutra and Chikitsa of Gulma(SM3K)	CC	МК	KH	L&PPT	QZ ,T-CS,T -OBT,VV- Viva	F&S	Ι	-	LH
CO1, CO3	Detail Chikitsa sutra and Chikitsa yojana including Aushadha yoga and Pathyaapathya of Doshaja Gulma(SM3K)	CC	МК	KH	L&PPT	T-OBT,QZ ,T-CS	F&S	Ι	-	LH
CO1, CO3	• Generate a treatment protocol for Sama Pitta and Nirama	CC	МК	KH	L&PPT	T-CS,VV- Viva,QZ ,T- OBT	F&S	Ι	-	LH

	<ul> <li>Pitta.</li> <li>Illustrate Samprapti vighatana, Chikitsa sutra, and Chikitsa yojana including Aushadha yoga and Pathyaapathya of Amlapitta(SM39)</li> </ul>									
CO1, CO3	Describe Samprapti vighatana, Chikitsa sutra ,Chikitsa yojana including Aushadha yoga and pathyapathya of Parinaama shoola(SM3D), Annadrava shoola (SM3E)	CC	МК	KH	L&PPT	VV-Viva,T -CS,T- OBT,QZ	F&S	Ι	-	LH
CO1, CO3	Explain Samprapti vighatana, Chikitsa sutra, Aushadha yoga, and Pathyaapthya of Chhardi(SM3L)	CC	МК	KH	L&PPT	VV-Viva,T -CS,T- OBT,QZ	F&S	Ι	-	LH
CO1, CO3	Detail the Samprapti vighatana, Chikitsa sutra, Chikitsa of Grahani dosha (SM36)	CC	МК	КН	L&PPT	T-CS,T-OB T,VV- Viva,QZ	F&S	Ι	-	LH
CO1, CO3, CO4	Construct Doshaja chikitsa , Chikitsa yojana including Aushadha yoga, Rasayana and Pathyaapathya of Grahani(SM36))	САР	МК	КН	L&PPT	T-OBT,QZ ,VV-Viva,T- CS	F&S	Ι	-	LH
CO1, CO3	<ul> <li>Illustrate Sama dosha chiklitsa</li> <li>Explain the Samprapti vighatana, Chikitsa sutra ,Chikitsa of Ajeerna(SM 3B), Alasaka(SM3C), Vishuchika, Vilambika(SM34)</li> </ul>	СС	МК	КН	L&PPT	VV-Viva,T- CS,QZ ,T- OBT	F&S	Ι	-	LH
CO1, CO3	Apply Samprapti vighatana, Chikitsa sutra and Chikitsa of Aatopa, Aadhmana(SM31) and Aanaaha	CC	МК	КН	L&PPT	QZ ,T-OBT ,VV-Viva,T-	F&S	Ι	-	LH

						CS				
CO1, CO2, CO3	Review the Etiopathogenesis, Diagnosis, Ayurvedic Perspective and Principles of Management of Udaraarbuda (Malignancy of Abdomen)	CC	DK	K	L&PPT ,L&GD	T-OBT,QZ ,VV-Viva,T- CS	F	Ι	-	LH
CO1, CO3	Explain the Samprapti vighatana, Chiktsa sutra, and chikitsa of Shoola(SM33)	CC	МК	K	L&PPT	VV-Viva,T- CS,QZ	F&S	Ι	-	LH
CO1, CO2, CO4	Discuss the Etiopathogenesis, Diagnosis, Ayurvedic Mangement of Pittashaya Shotha(Cholecystitis),Agniashaya shotha(Pancreatitis), Diverticulitis and Gastroenteritis(Udara Shotha)	CC	DK	K	FC	T-CS,QZ , VV-Viva,T- OBT	F	I	-	NLHT17.1
CO1, CO2, CO3	Interpret the Etiopathogenesis, Diagnosis, and Ayurveda Management of Grahani ( irritable bowel syndrome)	CC	DK	K	L&PPT	T-CS,P- VIVA	F	Ι	-	NLHT17.2
CO1, CO2, CO3	Differentiate the Etiopathogenesis, Diagnosis and Management of Urdhwaga Amlapitta( GERD) , Parinama shoola and Annadrava shoola(Acid Peptic Disease)	CC	DK	K	BS,DIS	QZ ,T-CS, VV-Viva,T- OBT	F	Ι	-	NLHT17.3
CO1, CO3	State the Phalashruti, Matra, Sevana kala and Anupana of various yoga mentioned in Annavaha srotodushti vikara	CC	МК	KH	LS,REC ,PER	VV- Viva,QZ	F&S	Ι	-	NLHT17.4
CO1, CO2, CO3, CO6, CO7	Identify Annavaha Srotodushti Lakshana in 5 cases of Annavahasroto vikaraDemonstrate the Chikitsa yojana including Pathyaapathya and Rasayana in 5 Annavahasrotodushti vikara	PSY- MEC	МК	КН	D-BED	C-INT,QZ , VV- Viva,SA	F&S	Ι	-	NLHP17.1
CO1, CO2, CO3, CO6,	Appraise two Annavahasroto dushti vikara in the OPD and formulate a treatment plan based on the Dosha Dooshya vivechana	CS	МК	SH	D	QZ ,C-INT, VV-Viva	F&S	Ι	-	NLHP17.2

CO7														
CO1, CO2, CO5	<ul> <li>CO1, Demonstrate the insertion of the Nasogastric Tube/ Ryles tube in a mannequin</li> <li>CO5</li> </ul>		tube in	PSY- MEC	МК	KH	SIM,D, EDU	QZ ,CHK	F	Ι	_	NLHP17.3		
Non Le	Non Lecture Hour Theory													
S.No		Name of Activity	Desc	Description of Theory Activity										
NLHT	17.1	Discussion on Chikitsa of Agniyashaya Shotha(Pancreatitis) and Pittashaya Shotha(Cholecystitis	<ul> <li>Flipped classroom</li> <li>The students are given the topic and they do a compilation on etiopathogenesis, ayurvedic perspective, and management from medical books and online scientific articles (shared by the mentor)</li> <li>The following day the students get engaged in a discussion on the assigned topic</li> <li>The students are encouraged to ask questions</li> <li>The Mentor gives answers to the queries</li> <li>Evaluation is done by Quiz and Presentation</li> </ul>							yurvedic hared by the				
NLHT	17.2	Compilation of scientific research articles on Irritable Bowel Syndrome/ (Grahani)	Journ	<ul> <li>al Club</li> <li>The topic Journals on the g</li> <li>The nex other group other g</li></ul>	ic is allotte and prepa iven topic t day the st oups and e	d to the stu re notes or rudents are ngage in g	udents and n etiopatho e divided in roup discu	they are asked genesis, the A to groups. The ssions.	l to read sc yurvedic p ey share th	cientific perspect e inform	articles in ive, and m nation gatl	different anagement hered with		

		<ul> <li>Mentors facilitate the discussion and students are encouraged to ask questions.</li> <li>Mentors give answers to the queries</li> <li>Evaluation is done by Quiz and Presentation</li> </ul>
NLHT 17.3	Brainstorming on Etiopathogenesis, Diagnosis & Management of Urdhwaga Amlapitha(GERD), , Parinama shoola and Annadrava shoola(Acid Peptic Diseases)	<ul> <li>Brainstorming</li> <li>The topic is given and they are asked to prepare notes on etiopathogenesis, ayurvedic perspective, and management from medical books and online scientific articles (shared by mentor)</li> <li>The next day the students are divided into groups and engage in group discussions and generate a conceptual framework on the Ayurveda perspective of the disease</li> <li>Mentors facilitate the discussion and students are encouraged to ask questions</li> <li>Mentors give answers to the queries</li> <li>Evaluation is done by Quiz and Puzzles</li> </ul>
NLHT 17.4	Clinical application of Aushadha yoga based on different Kalpana in Annavaha srotodushti vikara.	<ul> <li>Library session and Class Presentation</li> <li>The Mentor gives a brief description of each Aushadha yoga</li> <li>The students are divided into small groups of 2 or 3</li> </ul>
		<ul> <li>Each group is given one Aushadha yoga</li> <li>They are given a Library session and have to refer and collect information regarding each Aushadha yoga</li> <li>Each group does a class presentation which is followed by a quiz</li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity

NLHP 1	17.1	Bedside Case taking of Annavaha srotodushti vikara.	Bedside Case taking of Annavaha srotodushti vikara of Gulma(SM3K), Grahani (SM3), .Amlapitta(SM39), Parinaama shoola & Annadrava shoola/ Udarashoola(SM-3A, 3B,3C,3D,3E). Refer the case-taking format as explained in NLHP Activity Description 3.1 (Total 10hrs)								D,3E).	
NLHP 1	17.2	OP-based case taking of two Annavahasrotodushti vikara	Refer	to the cas	se-taking fo	ormat as n	nentioned in	n NLHP activi	ty 5.1 (Tot	al 2hrs)	)	
NLHP 17.3 Insertion of Nasogastric tube/ Ryles tube in a Mannequin			Simula	Simulation/ Video-based learning (total 2hrs)								
			<ul> <li>The students will be taken to the simulation Lab</li> <li>The mentor gives a brief description of the indications and contraindications insertion</li> <li>Then, the Mentor demonstrates the Procedure Step By step to the students</li> <li>The students practice the procedure on their own</li> <li>The mentor guides the students and clears their doubts</li> <li>Assessment will be done using a checklist.</li> </ul>					tions of NG nts p-gastrointe	5 tube estinal-			
Topic 1	18 Chik	itsa of Manovaha srotas dushti vikara (LH :8	B NLHT:	: 4 NLH	<b>P: 8</b> )							
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	К3	L3
CO1, CO3	Summa explain Unmada	rize the Chikitsa Sutra of Manovaha sroto dushti an Samprapti vighatana, Chikitsa sutra and Chikitsa of a roga.(SQ03)	d	CC	МК	К	L&PPT ,DIS,RE C,L_VC	CL-PR,T-C S,S-LAQ,C R-W,INT	F&S	II	-	LH
CO1, CO3	Explore	the role of Adravyabhuta Chikitsa in Unmada roga.		CAP	МК	KH	L_VC,D IS,L&P	T-CS,T-OB T,CR-	F&S	Π	-	LH

					PT	W,INT				
CO1, CO3	Explain the Samprapti vighatana, Chikitsasutra and Chikitsa of Apasmara roga( SK30)	CC	МК	КН	DIS,L& PPT ,L_ VC,RE C	CR-W,T-O BT,T-CS,S- LAQ,PRN	F&S	II	-	LH
CO1, CO3	Outline the Samprapti Vighatana, Chikitsasutra and Chikitsa of Atattvabhinivesha roga, Chittodvega and Vishada	CAN	МК	KH	L&PPT ,L,DIS	INT,CR-W, T-OBT,T- CS	F&S	II	-	LH
CO1, CO2, CO3	Review the Etiopathogenesis, Diagnosis and Management of Chinta roga (General Anxiety Disorder).	CC	МК	KH	L_VC,D IS,L&P PT ,L	CR-W,T- CS,INT, C- VC,T-OBT	F&S	II	-	LH
CO1, CO2, CO3	Summarize the Etiopathogenesis, Diagnosis and Management of Vishada (Depression).	CS	МК	K	L&PPT ,L_VC, L,DIS	C-VC,T-C S,T-OBT,I NT,CR-W	F&S	II	-	LH
CO1, CO2, CO3	Describe the etiopathogenesis, diagnosis, treatment principles of Epilepsy (non-organic )	CC	DK	КН	DIS,L& PPT ,L,L_V C	T-OBT,PR N,INT,CR- W,T-CS	F&S	II	-	LH
CO1, CO3	Describe the etiopathogenesis, diagnosis, treatment principles of Bhavodvega (Somatoform and mood disorder), Pratyabalajanya vikara (Stress induced disorder), Kamonmada (Psychosexual disorders).	CC	DK	КН	L&PPT ,L_VC, L,DIS	T-OBT,T- CS,QZ ,INT,CL- PR	F&S	II	-	LH
CO1, CO3	State the Ekala Aushadha prayoga, Aushadha Kalpa , Rasayana in Manasa roga.	СК	MK	KH	DIS,L& GD,TB L	SA,CBA,S- LAQ,INT	F&S	II	-	NLHT18.1
CO1, CO2	Explain the Bhutonmada and its basic management.	CC	NK	KH	EDU,PE R,DIS	QZ , C- VC,PRN	F	II	-	NLHT18.2

CO1, CO2, CO3	Discuss compuls swabha treatmen	clinical understanding of Atatvabhinivesha(Obsessive sive disorder,Neurotic disorder) and Vyaktatva evum v viparyaya(Personality and behavioral disorder) and it nt plan.	e CAP	NK	КН	DIS,BS	QZ ,INT,CR-W	F	II	-	NLHT18.3
CO1, CO2, CO3	Discuss treatment	clinical understanding of Vishada (Depression ) and nt plan	its CAP	МК	КН	TUT,TB L,DIS	QZ ,INT	F&S	II	-	NLHT18.4
CO1, CO2, CO3, CO6, CO7	Demons of Mano examina	strate the Chikitsa yojana and prepare case record in a covaha srotodushti after performing relevant clinical ation	case PSY- MEC	МК	SH	L&GD, D-BED, TBL,C D,PER	VV-Viva,P RN,PP-Prac tical,OSCE	F&S	Π	-	NLHP18.1
CO1, CO2, CO3, CO7	Identify in the hi protoco	various clinical conditions of mental disorders, change igher mental functions and study the case management is in the establishment.	es PSY- t MEC	NK	SH	FV,D-B ED,RLE	C-VC,PP-P ractical,OS CE,Log book	F	II	-	NLHP18.2
CO2, CO6	Assess t Health o	the importance of commemmorating World Mental day	PSY- MEC	DK	SH	TUT,E DU	QZ	F	Π	-	NLHP18.3
Non Lo	ecture H	lour Theory	•								
S.No		Name of Activity I	Description of Theory Activity								
NLHT	18.1	Aushadha prayoga for Manasa roga	Group Discussion and Team based learning								

- The students are divided in groups of 3-5 students
- Each Group is allotted specific Aushadha yoga
- Students refer and compile the material from library sources and prepare a presentation
- Each group will present the allotted topic in class

<ul><li>Students are encouraged to interact with the presenter under the supervision of the mentor</li><li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li></ul>
1.Ekala Aushadha Yoga (single drug therapy) for manasa roga with appropriate anupana:
<ul> <li>Bramhi,</li> <li>Kushmanda,</li> <li>Ashwagandha,</li> <li>Vacha</li> <li>Jyotishmati,</li> <li>Shankhapushpi</li> </ul>
2. Aushadha Kalpas with appropriate sevana kala matra, anupana of manasa roga –
<ul> <li>Kalyanaka Ghrita,</li> <li>Saraswatarishta,</li> <li>Manasamitra Vataka,</li> <li>Panchagavya Ghrita,</li> <li>Smritisagara rasa,</li> </ul>
3.Naimittika Rasayana for manasa roga
<ul> <li>Kushmanda avalehya</li> <li>Brahmi Ghrita</li> <li>Medhya rasayana</li> </ul>

NLHT 18.2	Bhutonmada and its basic management.	<ul> <li>Discussion on the lakshana of Bhutonmada and its basic management.</li> <li>Group Discussion</li> <li>Small groups are formed in the class.</li> <li>The group of students discuss and interact among themseleves the panchnidana of bhutonmada along with its chikitsa.</li> <li>Student and Mentor interaction takes place and queries are solved.</li> </ul>
NLHT 18.3	Detailed discussion on Obsessive compulsive disorder, Neurotic disorder, personality and behavioral disorder.	<ul> <li>Detailed discussion on the Diagnosis, Clinical examination and treatment of Atatvabhinivesha(Obsessive compulsive disorder,Neurotic disorder) and vyaktatva evum swabhav viparyaya(Personality and behavioral disorder).</li> <li>Group Discussion</li> <li>Students are instructed to refer from available resources and prepare PPT.</li> <li>On the following day they present the topic using audio visual aids followed by Group Discussion.</li> <li>Mentor answers the queries raised by the students.</li> </ul>
NLHT 18.4	Detailed discussion on the Diagnosis, Clinical examination and treatment of Vishada (Depression).	<ul> <li>Team based learning</li> <li>The students are divided into different teams.</li> <li>One team is instructed to present a case on depression</li> <li>The second team is instructed to present a detailed presentation about the topic related to etiopathogenesis, diagnosis.</li> <li>The third team is as instructed to perform clinical examination in a simulated case.</li> <li>The fourth team is instructed to do a presentation on the treatment.</li> </ul>

		<ul> <li>Presentation is followed by group discussion</li> <li>Mentor answers the queries and gives the concluding remarks.</li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 18.1	Case study/ case scenario to devise a treatment plan according to principles of Manovaha srotas Documentation of a case/condition requiring manovaha srotas	Clinical case study (2 Long cases x 2hours = 4 hours per batch) Refer the case taking format mentioned in NLHP activity description 3.1
NLHP 18.2	An insight into functionality of a mental hospital /de-addiction center/psycho social rehabilitation center.	Activitiy - Field visit (2 hours ) Community based learning Students are taken to nearest mental health care facility.
		<ul> <li>They observe the inmates of the facility and identify various mental health disorders and their management.</li> <li>Students make a brief report about visit.</li> </ul> The report is be presented by the students and assessed by the Mentors followed by concluding remarks.
NLHP 18.3	Public awareness activity related to Mental health day.	Commemoration of World Mental Health day(Oct 10) (2 hours) Community based learning Students are encouraged to conduct public awareness programs using suitable mass communication, audio-visual aids showing the importance of Mental Health, Preventive and therapeutic aspect of

	psy	chiatric disor	ders.							
<b>Topic</b>	19 Chikitsa of of Antahsravi Granthi vyadhi (LH :4 NLF	T: 4 NLH	P: 4)							
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO2, CO3, CO6	Explain Chikitsa of Mandavatuk (Hypothyroidism)	САР	МК	КН	L_VC,L &PPT ,LRI	M-CHT,V V-Viva,WP ,M-POS	F&S	П	-	LH
CO1, CO2, CO3, CO6	Describe Chikitsa of Tivravatuk (Hyperthyroidism) (SP9Y).	САР	МК	КН	LRI,L& PPT ,L_VC	VV-Viva,M -CHT,WP, M-POS	F&S	П	-	LH
CO1, CO2, CO3, CO6	Explain Chikitsa of Adhivrikka granthi vikara (Adrenal gland Disorders): Hyperaldosteronism-Addison vyadhi (Addison's disease).	САР	МК	КН	LRI,L_ VC,L& PPT	M-CHT,W P,M-POS,V V-Viva	F&S	Π	-	LH
CO1, CO2, CO3, CO6	Explain Chikitsa of Adhivrikka granthi vikara (Adrenal gland disorders): Hypoaldosteronism-Cushing roga samuchchaya (Cushing's Syndrome).	САР	МК	КН	LRI,L& PPT ,L_VC	M-POS,VV -Viva,WP, M-CHT	F&S	П	-	LH
CO1, CO2, CO3, CO6	Discuss Chikitsa of Piyusha granthi vikara (Pituitary disorders): Hypopituitarism-Vamanatva (Dwarfism) (SP9Y).	САР	NK	КН	TUT,DI S,PER	VV- Viva,QZ	F	II	-	NLHT19.1
CO1, CO2, CO3,	Explain Chikitsa of Piyusha granthi vikara (Pituitary disorders): Hyperpituitarism-Dirghakayata /Atidirgha (Gigantism) and Vikayata (Acromegaly).	САР	NK	КН	DIS,PE R,TUT	QZ ,VV- Viva	F	II	-	NLHT19.2

CO6												
CO1, CO2, CO3, CO6	Explain (Diabete	the Chikitsa of Piyusha granthi vikara : Udakameha es insipidus).		САР	NK	KH	PER,TU T,DIS	QZ ,VV- Viva	F	II	-	NLHT19.3
CO1, CO2, CO3, CO6	<ul> <li>Explain the Chikitsa of Para-avatuka granthi vyadhi (Parath disorders: Hypoparathyroidism and Hyperparathyroidism).</li> <li>CO3, CO6</li> <li>Demonstrate clinical case of an Endocrine disorder and disc</li> </ul>		yroid	САР	NK	KH	DIS,PE R,TUT	QZ ,VV- Viva	F	II	-	NLHT19.4
CO1, CO2, CO3, CO6, CO7	<ul> <li>CO1, Demonstrate clinical case of an Endocrine disorder and disorder, CO2, Chikitsa with Pathyapathya.</li> <li>CO3, CO6, CO7</li> <li>Non Lecture Hour Theory</li> </ul>		uss its	PSY- SET	МК	КН	D,TBL, PER,CD ,LRI	QZ ,P-VIV A,OSCE,P RN,P- CASE	F&S	Π	-	NLHP19.1
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
NLHT 19.1 Hypopituitarism-Vamanatva (Dwarfism) (SP9Y) S				<ul> <li>Mentor :</li> <li>Mentor :</li> <li>Student material</li> <li>Student</li> <li>A discuss</li> <li>Mentor :</li> </ul>	e a powerpo on allots the to prepares a presents th ssion is ger concludes t	pint preser ppic to the Power poi e topic in terated am the class w	student. student. int presenta the class us ong the stu vith remark	ead, learn and t tion for the all ing power poi dents on the g s.	understand lotted topi nt. iven topic	d the top c by ref	oic. erring to t	he study

NLHT	19.2	Hyperpituitarism-Dirghakayata /Atidirgha (Gigantism) and Vikayata (Acromegaly)S	Students prepare a powerpoint presentation to read, learn and understand the topic. Refer the Activity Description of NLHT 19.1								
NLHT	19.3	Udakameha (Diabetes insipidus)	Students prepa Refer the Activ	re a powerp vity Descrip	oint prese tion of NI	entation to re LHT 19.1	ead, learn and	understan	d the to	pic.	
NLHT	19.4	Hypoparathyroidism and Hyperparathyroidism	Students prepa Refer the Activ	re a powerp vity Descrip	oint prese tion of NI	entation to re LHT 19.1	ead, learn and	understan	d the to	pic.	
Non L	ecture ]	Hour Practical									
S.No		Name of Practical	Description of	of Practica	l Activity	y					
NLHP	19.1	Case taking of Endocrine disorder. Case presentation of Endocrine disorder	Case based lea Please refer th	rning( 4NL) e case taking	HP - 2 Ca g framewo	ses) ork as descri	ibed in NLHP	3.1.			
Topic	20 Chi	kitsa of Vyadhikshamatva vikara (LH :3 NLHT	: 4 NLHP: 3	)							
A3		B3	C3	D3	E3	F3	G3	H3	I3	K3	L3
CO1, CO2, CO3	Descril manag vikara immun	be the Etiopathogenesis, Diagnosis and Ayurvedic ement of Vyadhikshamata heenatajanya (Immunodeficiency diseases -Primary and secondary e deficiency disorders)	CC	МК	KH	DIS,L,L &PPT	QZ ,PRN	F&S	II	-	LH
CO1, CO2, CO3	•	Explain the Etiopathogenesis, Diagnosis and Principle management of Atmapratirodha Kshamatvajanya Vika (Auto immune disorders)	cC es of ara	MK	КН	L_VC,L &PPT ,L	PRN,QZ	F&S	П	-	LH

	<ul> <li>Explain Samprapti vighatana and Chikitsa of Pratirak (Systemic Lupus Erythematosus)</li> </ul>	shija								
CO1, CO2, CO3	Describe the Etiopathogenesis, Types, Diagnosis and Principle management of Atisamvedanasheelata janya vyadhi (Hypersensitivity Reactions).	es of CC	МК	КН	L,L_VC ,L&PPT	QZ ,PRN	F&S	II	-	LH
CO1, CO2, CO3	Discuss the Etiopathogenesis, Diagnosis, Principles of management and Ayurvedic understanding of Ankylosing Spondylitis	CC	NK	K	BL,L& GD,L_ VC	QZ ,PRN	F	II	-	NLHT20.1
CO1, CO2, CO3	Summarizes the Etiopathogenesis, Diagnosis, Principles of management along with Ayurvedic perspective of Multiple sclerosis (MS)	СК	NK	K	DIS,L_ VC,L& GD,LRI ,TBL	QZ ,PRN	F	II	-	NLHT20.2
CO1, CO2, CO3	Discuss the Etiopathogenesis, Diagnosis, Pprinciples of management along with Ayurvedic perspective of Crohn's disease	CC	NK	K	L_VC,C D,L&G D,DIS,L RI	QZ ,PRN	F	II	-	NLHT20.3
CO1, CO2, CO3	Discuss the Etiopathogenesis, Diagnosis, Principles of management along with Ayurvedic perspective of Rheumatoi Arthritis	d CC	NK	K	BL,BS, DIS,L& GD,LRI	PRN,QZ	F	II	-	NLHT20.4
<ul> <li>CO1, Demonstrate the Chikitsa yojana &amp; prepare case record in case</li> <li>CO2, of Vyadhikshamatva vikara after performing relevant clinical</li> <li>examinations</li> </ul>		ses PSY- MEC	МК	КН	LRI,D- BED,PT ,CD,DL	PRN,Mini- CEX,OSCE ,P-VIVA,P- PRF	F&S	II	-	NLHP20.1
Non L	ecture Hour Theory									
S.No	Name of Activity	Description o	f Theory	Activity						

NLHT 20.1	Approach to the Diagnosis, Ayurvedic perspective and management of Ankylosing Spondylitis	Blended learning and Group discussion
		<ul> <li>Students are given online learning material like description of the internet link and scientific articles</li> <li>Students are divided into various small groups and they will be allotted topic related to Ankylosing Spondylitis</li> <li>Each group is asked to do a presentation related to the topics given</li> <li>Group discussion will be followed</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul>
NLHT 20.2	Approach to the Diagnosis, Ayurvedic perspective and management of Multiple sclerosis	Team-based learning, Presentation
		• The students are divided into different teams
		• One team is asked to present on etiopathogenesis and diagnosis of Multiple sclerosis
		• The second team does a detailed presentation about the Ayurvedic understanding of Multiple sclerosis
		• The third team does a presentation on the investigations related to multiple sclerosis
		<ul> <li>Followed by a group discussion on Ayurveda management</li> <li>Mentors answers the queries and gives the concluding remarks</li> </ul>
		- wenters and gives the concluding remarks.
NLHT 20.3	Approach to the Diagnosis, Ayurvedic perspective and management of Crohn's disease	Class Presentation
		• The students are encouraged to collect information on the etiopathogenesis, Diagnosis,

		<ul> <li>Investigations Prognosis and Management of Crohn's disease</li> <li>The students do a presentation</li> <li>Discussion is followed</li> <li>Mentors answers the queries and gives the concluding remarks</li> </ul>
NLHT 20.4	Approach to the Etiopathogenesis, Diagnosis, Ayurvedic perspective and management of Bhoumatoid Arthritic	Blended learning and Group discussion
		<ul> <li>Students are given online learning material like description of the internet link and scientific research articles</li> <li>Students are divided into various small groups, and they will be allotted topic related Rheumatoid Arthritis</li> <li>Each group is asked to do a presentation related to the topic given</li> <li>Group discussion will be followed</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 20.1	Bed side Case Presentation on Immune system disorders	Case Presentation on Immune system disorders 2 cases per clinical batch One long case 2hrs &one short case 1 hr.) Total =3hrs Refer case taking framework as described in NLHP3.1 and NLHP5.1 use for details
Topic 21 Chi	kitsa of Shukravaha srotasa vikara (LH :3 Nl	LHT: 4 NLHP: 4)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO4	Describe the Samprapti vighatana, Chikitsa sutra and Chikitsa of Klaibya and Shukralpata	CC	MK	КН	L&PPT ,L_VC, L	PRN,CL- PR,QZ	F&S	III	-	LH
CO1, CO2, CO3	Elaborate the Samprapti vighatana, Chikitsa sutra and Chikitsa of Shukradosha and Kshinashukra	CC	MK	КН	L_VC,L ,L&PPT	PRN,QZ	F&S	III	-	LH
CO1, CO3, CO4	Detail the Samprapti vighatana, Chikitsa sutra and Chikitsa of Dhwajabhanga and Explain the causes of Impotency and Plan the treatment.	CC	МК	KH	DIS,L,L _VC,L &PPT	QZ ,PRN	F&S	III	-	LH
CO2, CO4	Discuss the Applied clinical anatomy and Endocrinology of male reproductive system in context of chikitsa of Shukravahasrotas Dushti Vikara	CC	NK	K	L&GD, DIS,L_ VC,BL	PRN,QZ	F	III	-	NLHT21.1
CO2, CO4	Determine the Etiopathogenesis, Diagnosis, Principles of management and Ayurveda perspective in the treatment of Male hypogonadism, and Infertility	CE	NK	К	L_VC,T BL,DIS, BS,L& GD	PRN,QZ	F	III	-	NLHT21.2
CO1, CO3, CO4	<ul> <li>State the Phalashruti, Matra, Anupana and Sevana kala of Aushadha yoga in Shukravaha Srotas vikara</li> <li>Vidarikanda churna</li> <li>Vrishya ghrita</li> <li>Madanakameswara lehya</li> <li>Vrishya gutika</li> </ul>	СК	DK	K	DIS,BS, L&GD, REC	PRN,QZ	F	Ш	-	NLHT21.3
CO1,		CE	NK	K	DIS,TB	PRN,QZ	F	III	-	NLHT21.4

CO2, CO3, CO4	<ul> <li>Explain the concept of Beeja dushti janya vikara and corelate it with hereditary and congenital disorders.</li> <li>Sketch a management plan for Beejadushti janya vii</li> <li>Explain Ayurvedic perspective and principles of management of Male hypogonadism, and Infertility</li> <li>Demonstrate the Chikitsa yojana &amp; prepare case record in c Shukravaha srotodushti vikara after performing relevant clinication.</li> </ul>		d kara				L,L&G D,L_VC ,CBL					
CO1, CO2, CO3, CO4, CO5	D1, Demonstrate the Chikitsa yojana & prepare case record in D2, Shukravaha srotodushti vikara after performing relevant cl examination D4, O5 D6 Lecture Hour Theory		ases of nical	PSY- MEC	МК	SH	L&GD, L_VC,D IS,PER	PRN,QZ	F&S	III	-	NLHP21.1
Non Lo	ecture H	lour Theory										
S.No	o Name of Activity I			iption of	Theory A	ctivity						
NLHT 2	21.1	Understanding the Applied clinical anatomy and endocrinology aspects for male reproduction	<ul> <li>y and m</li> <li>Blended learning</li> <li>Students are given online learning material like description of the digital resources and scientific research articles</li> <li>Students are divided into various small groups and they will be allotted topic related to Applied clinical anatomy and endocrinology aspects of male reproductive system</li> <li>Each group is asked to do a presentation related to the topic given</li> <li>Group discussion will be followed</li> <li>Mentor clear the doubts and answer the queries to conclude with remarks on the topic</li> </ul>							s and ed to opic		
NLHT 2	21.2	Understanding on the Diagnosis, Clinical	Team based learning									

	examination and Ayurvedic perspective and Principles of management of Male hypogonadism, and Infertility	<ul> <li>The students are divided into different teams</li> <li>One team is asked to present a case on Male hypogonadism and Infertility</li> <li>The second team present a detailed presentation about the topic related to etiopathogenesis, diagnosis</li> <li>The third team perform clinical examination in a simulated case</li> <li>The fourth team does a presentation on the investigations</li> <li>Followed by group discussion</li> <li>Mentor will clear the doubts and answer the queries</li> <li>Give the concluding remarks</li> </ul>
NLHT 21.3	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha yoga in Shukravaha Srotas vikara	<ul> <li>Group Discussion</li> <li>The students are divided in groups of 3-5 students</li> <li>Each Group is allotted specific Aushadha yoga</li> <li>Students refer and compile the material from library sources and prepare a presentation</li> <li>Each group presents the allotted topic in class</li> <li>Students are encouraged to interact with the presenter under the supervision of the teacher.</li> <li>Mentor gives concluding remarks on the presentations</li> </ul>
NLHT 21.4	Detailed understanding on the Diagnosis, Clinical examination and Ayurvedic perspective and principles of management of Male hypogonadism, Infertility and Beeja dushtijanya vikara	<ul> <li>Team based learning</li> <li>The students are divided into different teams</li> <li>One team is asked to present a case on Male hypogonadism and Infertility</li> <li>The second team present a detailed presentation about the topic related to etiopathogenesis, diagnosis</li> <li>The third team perform clinical examination in a simulated case</li> <li>The fourth team does a presentation on the investigations</li> <li>Followed by group discussion</li> </ul>

		•	Mentor Give the	will clear t concludin	he doubts g remarks	and answer	the queries				
Non Lo	ecture Hour Practical										
S.No	Name of Practical	Descr	iption of	Practical	Activity	,					
NLHP 2	21.1 Bedside case taking of case of Klaibya (Male sexual dysfunction), Shukradosha	Case I Two ca Demor Refer o	Presentat ases per cl nstration casetaking	<b>ion on Im</b> linical batc <b>bedside</b> framewon	<b>mune sys</b> h (One lo k as desci	tem disord ng case 2 h tibed in NL	ers ours & one sho HP3.1 and NL	ort case 1 l HP5.1 use	hour.) T e for det	°otal =3 ho ails	urs
Topic 2	22 Chikitsa of Guhya roga (LH :2 NLHT: 2 NLHP: 2	2)				-					
A3	B3		C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO1, CO2, CO3, CO6	Describe the Samprapti vighatana, Chikitsa and Aushadha y Upadamsha (SN30), Phiranga (Syphilis) (SN31) and Puyam (Gonorrhoea) (SN30).	voga of neha	CAP	DK	КН	L&PPT	VV-Viva	F	III	-	LH
CO1, CO2, CO3, CO6	<ul> <li>Describe the Samprapti vighatana, Chikitsa and Aushadha yoga of</li> <li>Vankshana lasika granthikanarbud (Lymphomagranuloma</li> <li>Inguinale), Phirangiya vrana (Soft Chancroid) and Visarpa</li> <li>(Herpes Simplex) (SN4T).</li> </ul>		САР	DK	КН	CBL,L_ VC,L,D IS,BS	VV-Viva	F&S	III	-	LH
CO1, CO2, CO3,	Differentiate between the Chikitsa of Guhya roga		САР	DK	КН	L_VC,D IS,TPW ,LS	M-POS,VV -Viva,M- CHT,QZ	F	III	-	NLHT22.1

CO6								,WP				
CO1, CO2, CO3, CO6	Discuss Aushad Aushad	the Chikitsa yojana of Guhya roga along with Phala ha sevana kala, Matra and Anupana of the following ha yoga Chopachinyadi churna Ashtamurti rasa Rasakarpoora Triphala masee	ishruti,	САР	DK	КН	PrBL,DI S,LRI,T BL	VV-Viva	F&S	III	-	NLHT22.2
CO1, CO2, CO6, CO7	CO1,Demonstrate awareness about Sexually transmitted diseasesCO2,(STD) among the teenagers/ young adults in the educationalCO6,institutes.CO7			AFT- CHR	МК	K	TBL	Log book	F	III	-	NLHP22.1
Non Lo	ecture H	Iour Theory					·					
S.No		Name of Activity	Description of Theory Activity									
NLHT 2	22.1	Differentiating between the Chikitsa of Guhya roga	<ul> <li>Student should learn to differentiate the treatment of Student should prepare an algorithm of treatment p</li> <li>Team Project Work</li> <li>Students are assigned the task of collecting Guhya rogas.</li> <li>They are encouraged to prepare posters or of They are also instructed to prepare flow characteristics.</li> </ul>						ogas based ng to the d otos of the ment in di	on thei liagnosi ulcer p fferent	r sign and s. pattern of c Guhya rog	symptoms. lifferent gas.

NLHT 22.2 Chil		Chikitsa of Guhya roga	Student should learn to treat various Guhya roga by making a clinical diagnosis supported by laboratory investigations and Prayoga of different Aushadha yoga with their Phalashruti, Aushadha sevana kala, Matra and Anupana. Small group discussion										
				<ul> <li>The Mentor divides the students into small groups.</li> <li>Some groups are alloted different Guhya roga and other groups are alloted different aushadha yoga.</li> <li>These groups discuss among themselves the treatment plan of given roga.</li> <li>The groups which are alloted aushadha yoga should discuss different aspects of its use.</li> <li>Each Group gives the presentation.</li> <li>Mentor assesses the presentation of students and conclude with remarks.</li> </ul>									
Non Lecture Hour Practical													
S.No		Name of Practical	Description of Practical Activity										
NLHP 22.1		Creating awareness about Sexually transmitted diseases during National STD Awareness week.	<ul> <li>Community Health Education/Public Outreach Program (2 NLHP)</li> <li>Students are instructed to prepare awareness material regarding Sexually Transmitted Diseases like documentary, posters, slogans etc.</li> <li>A convenient day is selected from the National STD awareness week (Second week of April)</li> <li>Students are taken to nearby educational institute.</li> <li>Students display the awareness material and educate the audience under the guidance of the</li> </ul>										
mentor.													
Topic 23 Vajikarana (LH :6 NLHT: 3 NLHP: 6)													
A3	B3			C3	D3	E3	F3	G3	Н3	I3	K3	L3	
CO1,	CO1, Recall the principles of Vajikarana & summarize its need alor			CC	MK	K	PER,TU	PRN,VV-	F&S	III	-	LH	
CO3, CO4	with the benefits				T,L&PP T	Viva,QZ , M-POS,S- LAQ							
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CO1, CO3, CO4	Comprehend the concept of Shuddha Shukra and analyse its role in male fertility and reproductive health	CAN	МК	KH	L&PPT ,LRI,TU T	M-CHT,QZ ,VV-Viva,C OM,WP	F&S	III	-	LH			
CO1, CO3, CO4	Explain the types of Vajikarana Dravya useful in different Shukravaha sroto dushti vikara	CC	DK	КН	PER,L& PPT ,FC ,L_VC	S-LAQ,QZ ,M-POS,PR N,PUZ	F	III	-	LH			
CO1, CO3, CO4	Elaborate the role of Vajikarana in the management of Infertility(Klaibya) and Impotency(Shandhatva)	CC	МК	KH	PER,LR I,SY,L &PPT	DEB,QZ ,C OM,PRN,V V-Viva	F	III	-	LH			
CO1, CO3, CO4	State the Therapeutic benefits of individual herbs in Shukra janana mahakashaya & Shukra shodhaka mahakashaya for the treatment of male/female Infertility	CC	DK	КН	L&PPT ,LS,TU T,BS	QZ ,PUZ,T -OBT,VV- Viva,M- CHT	F&S	Ш	-	LH			
CO1, CO3, CO4	Classify the Phalashruti, Sevana kala, Matra & Anupana of the following Aushadha KalpanaSiddha makardwajamJatiphaladi vatiAmrita bhallataka	СК	NK	K	L&PPT ,TUT,F C,PER, LS	M-CHT,CL -PR,VV- Viva,QZ	F	III	-	LH			
CO1, CO3, CO4	Discuss the Phalashruti of the following Aushadha Kalpana along with its Sevana kala, Matra & AnupanaShilajatuVanga bhasmaSuvarna bhasma	СК	DK	КН	L&GD, FC,PER ,TBL,L S	P-EXAM,C L-PR,COM ,VV- Viva,QZ	F&S	III	-	NLHT23.1			
CO1, CO3, CO4	Devise the Chikitsa Karmukatva, Sevana kala, Matra & Anupana of the following Aushadha KalpanaVajikarana ghrutaVrishya ghrutaVrishya gutikaShrigopal taila	СК	DK	КН	BL,TBL ,SY,LS, TUT	WP,M-POS ,VV-Viva,C OM,T-CS	F&S	III	-	NLHT23.2			

CO1, CO3, CO4	Demonstrate the Phalashruti, Sevana kala, Matra & Anupana the following Vajikarana YogaMadanakameswara lehyaNarasimha rasayanBrimhani gulika		na of	CC	DK	КН	PER,PS M,LS,D IS,TBL	M-CHT,T- CS,CL-PR, VV-Viva,P- VIVA	F&S	III	-	NLHT23.3
CO1, CO3, CO4	Formulate the appropriate treatment applying the principles management of Vajikarana in Shukra Dushti		s of	PSY- MEC	DK	SH	LRI,D- BED,C BL,DIS, TBL	P-CASE,O SCE,CBA, C-VC,SP	F&S	III	-	NLHP23.1
CO1, CO3, CO4	Constru Investig	act a Chikitsayojana based on the interpretation of gations related to Male & Female Infertility		PSY- MEC	NK	SH	CD,LRI ,CBL,SI M,DIS	P-VIVA,P- POS,SP, C- VC,CBA	F&S	III	-	NLHP23.2
Non Lo	Non Lecture Hour Theory											
S.No	.No Name of Activity		Descr	iption of	Theory A	Activity						
NLHT :	23.1	Mono Drug Vajikarana therapy like - Shilajatu, Suvarna bhasma and Vanga bhasma	Studer matra,	nt discusse anupana d	es the phala & pathyaap	ashruti of a pathya.	a few ekala	Vajikarana D	ravya alon	g with 1	their sevar	a kala,
				<ul> <li>The stud</li> <li>Mentor a bhasma</li> <li>Each gro Anupana</li> <li>Each gro</li> <li>The Men</li> </ul>	lents partic allots one o to each gro oup discuss a & Pathya oup gives a ntor conclu	eipate in G of mono d oup to disc ses about i apathya k a powerpoi ades the se	Froups as per rug vajikar cuss & const indications, calpana of the int presentates constant of the second second constant of the second second second constant of the second second second constant of the second second second second constant of the second second second second second second constant of the second secon	er the instruction ana therapy like struct a chikits struct a chikits method of add the alloted herb ation on the all remarks	ons of the ce Shilajati a yojana. ministratico. otted topic	Mentor 1, Suvar on, phala 2.	rna bhasm ashruti, M	a or Vanga atra,

NLHT 23.2	Vajikarana ghruta, Vrishya ghruta, Vrishya gutika & Shrigopal taila in Vajikarana Prayoga	Students devise the Chikitsa karmukatva, Sevana kala, Matra, Anupana & Pathyaapathya of Vajeekarana aushadha Kalpana. Team Based Learning
		<ul> <li>The Mentor selects few students &amp; divide them into 4 teams</li> <li>Each team is allotted one of Vajeekaran ghruta, Vrishya ghruta, Vrishya gutika or Shrigopal taila &amp; instructed to search information.</li> <li>The teams refer to &amp; collect the necessary information related to indications, method of administration, phalashruti, Matra, Anupana &amp; Pathyaapathya of the given medicine from library sources</li> <li>Each team discusses the contents and presents the summary.</li> <li>Other students are encouraged to participate in the discussion under supervision of mentor.</li> <li>The Mentor provides concluding remarks on the presentation.</li> </ul>
NLHT 23.3	Vajikarana Yoga - Madanakameshwara Lehya, Narasimha Rasayan & Brimhani Gulika.	Students to demonstrate the Phalashruti, Sevana kala, Matra, Anupana & Pathyaapathya of Vajikarana Aushadha yoga Team based Learning
		<ul> <li>The Mentor divides the students into small groups &amp; instructs them to refer tutorials, library resources, reading materials on the allotted Madanakameswara lehya, Narasimha rasayana or Brimhani gulika</li> <li>The students in groups are instructed to present their knowledge &amp; ideas on the indications, method of administration, phalashruti, matra, anupana &amp; pathyaapathya of the given medicine by preparing posters/charts/e-posters.</li> <li>Students will accordingly present the discussed topics through poster</li> <li>The Mentor encourages the activity &amp; gives concluding remarks</li> </ul>

Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 23.1	Formulate a treatment plan according to principles of Vajikarana.	The students will document:- A case of shukra dushti Structure an appropriate treatment plan Select the appropriate aushadha(aushadha yoga/mono drug therapy). Case based learning - 2 long cases x 2 hours = 4hours per batch The Mentor takes students to the ward/OPD of Kayachikitsa. Students in the clinical batch select a case requiring vajikarana. Mentor shows the construction of the chikitsa yojana and documenting it in the following steps:
		<ul> <li>The students shall introduce self to the patient and take verbal consent.</li> <li>The students shall interrogate the patient and document the clinical history.</li> <li>The students further brief the patient about the steps in examination that will be performed on him/her.</li> <li>The students perform the relevant clinical examinations adopting the Ayurvedic and conventional clinical methods of examination of the involved system</li> <li>students collect information from Blood analysis, semen analysis, radiological investigations and consider it for doshadushyadi vivechan</li> <li>The students interpret the collected information and state the vyadhi nama (arrive at a tentative clinical diagnosis) following the method of vyavachedaka nidana (differential diagnosis)</li> <li>The students formulate a chikitsa yojana of vajikaran medicines</li> <li>The students recommend pathyaapathya to the patient.</li> <li>Finally, the students address the documented short case.</li> <li>The mentor facilitates the case presentation.</li> <li>The mentor evaluates the student's performance, knowledge, psychomotor and</li> </ul>

		<ul> <li>communication skills using rubrics or checklist and gives the feedback.</li> <li>Remedial measures should be implemented if found necess</li> </ul>
NLHP 23.2	Constructing a Chikitsa yojana based on the Interpretation of the Investigations related to Male & Female Infertility	<ul> <li>Students will construct a chikitsa yojana in a case interpreting the available investigations like Blood analysis, semen analysis, radiological investigations.</li> <li>Case based learning - 2 short cases x 1hour = 2hours per batch</li> <li>Each student will be given two cases(one male &amp; one female) by the mentor for interpretations of the available investigation reports in a male/female infertility patient for treatment purpose</li> <li>Mentor shows the art of writing a rational treatment prescription and documenting it in the following steps:</li> <li>The students shall introduce self to the patient and take verbal consent.</li> <li>The students further brief the patient about the steps in examination that will be performed on him/her.</li> <li>The students perform the relevant clinical examinations adopting the Ayurvedic and conventional clinical methods of examination of the involved system</li> <li>students collect information from Blood analysis, semen analysis, radiological investigations and consider it for doshadushyadi vivechan</li> <li>The students determine the sadhyaasadhyata (prognosis) of the disease in the patient.</li> <li>The students formulate a chikitsa yojana of vajikaran medicines</li> <li>The students address the doubts of the patient.</li> </ul>
		<ul><li>The students present and discuss the documented short case.</li><li>The mentor facilitates the case presentation.</li></ul>

		<ul><li> The mercommunication</li><li> Remediation</li></ul>	ntor evalua nication sk al measure	ttes the stu ills using s should b	ident's perf rubrics or c be implemen	ormance, know hecklist and gi nted if found n	vledge, ps ves the fee ecessary.	ychomo edback.	otor and	
Topic	24 Rasayana (LH :6 NLHT: 4 NLHP: 8)									
A3	B3	C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3
CO1, CO3, CO4	Retrieve the Indications of Rasayana & Comprehend the Dose of Rasayana according to Ayu(age) of the patient/subject	CAN	DK	КН	L_VC,L &PPT	PRN,S- LAQ,QZ ,P UZ,M-CHT	F&S	III	-	LH
CO1, CO3, CO4	Identify the role of Aachara Rasayana in clinical practice	СК	DK	КН	BS,L&P PT ,L_ VC,PL, PER	PA,M-CHT ,O-QZ,T- CS,WP	F	III	-	LH
CO1, CO3, CO4	Elaborate the application & benefits of Naimittika Rasayana with examples.	CC	МК	КН	TUT,PE R,KL,B S,L&PP T	PRN,M-PO S,P-VIVA, PUZ,COM	F&S	III	-	LH
CO1, CO3, CO4	Classify the given Vyadhihara Rasayana according to its Chikitsa karmukatva, Matra, Aushadha sevana kala & AnupanaAamalaki RasayanaBhallataka RasayanaVardhamana Pippali Rasayana	CC	NK	КН	FC,L&P PT ,BS,PE R	PRN,DEB, QZ ,COM, M-CHT	F&S	III	-	LH
CO1, CO3, CO4	Explain the Chikitsa karmukatva, Matra, Aushadha sevana kala & Anupana of the following Vyadhihara Rasayana Tuvaraka Rasayana	CC	NK	КН	FC,PER ,BS,L& PPT	WP,PRN,M -POS,VV- Viva,QZ	F	III	-	LH

	Shilajatu RasayanaLasuna Rasayana									
CO1, CO3, CO4	Elaborate the Aushadha sevana kala, Matra & Anupana along with the Chikitsa Karmukatva of the following Vyadhihara RasayanaTriphala RasayanaChyavanprashaAgastya HaritakiKushmanda Rasayana	CC	NK	КН	L&PPT ,FC,BS, PER	M-CHT,CO M,PUZ,QZ ,VV-Viva	F	III	-	LH
CO1, CO3, CO4	Demonstrate the use of single herbs as Rasayana in Chikitsa	САР	DK	КН	LS,TBL ,IBL,L &GD	SA,T-CS,C L-PR,PRN, M-POS	F&S	III	-	NLHT24.1
CO1, CO3, CO4	Integrate the Evidence based therapeutic effects of Rasayana	CAN	NK	КН	IBL,PE R,LRI,L S,PL	CL-PR,QZ ,PRN,CR- RED,PA	F&S	III	-	NLHT24.2
CO1, CO3, CO4	Illustrate a treatment protocol incorporating a Rasayana	САР	NK	КН	CBL,SI M,FC,I BL,PER	Log book,V V-Viva,CL- PR,P- CASE,CBA	F&S	III	-	NLHT24.3
CO1, CO3, CO4	Devise an ideal Rasayana protocol as Apunarbhava Chikitsa	CS	NK	КН	SIM,DI S,LS,FC ,PER	VV-Viva,M -CHT,CL-P R,WP,P- CASE	F&S	III	-	NLHT24.4
CO1, CO3, CO4	Devise an appropriate treatment protocol in a case study/case scenario applying the principles of Rasayana	PSY- GUD	DK	SH	CBL,LR I,IBL,D -BED,C D	P-CASE,O SCE,SP,CB A,P-VIVA	F&S	III	-	NLHP24.1
CO1, CO3,	Formulate appropriate Rasayana in the given caseKanthya RasayanaVarnya RasayanaKeshya RasayanaMedhya	PSY- SET	NK	SH	LRI,CB L,SIM,	CBA,SP,P- CASE,Log	F&S	III	-	NLHP24.2

CO4	Rasaya Tvacha	naNaimittika Rasayana – ShwasaNaimittika Rasayan roga	ι —					CD,I	DIS	book, C-VC					
Non L	ecture H	Iour Theory		•										•	
S.No		Name of Activity	Description of Theory Activity												
NLHT	24.1	Application of the properties of the single herbs for using them as Rasayana	Discussion on justifying the use of single herbs as Rasayana in Chikitsa Group Discussion												
				<ul> <li>The st</li> <li>Mento</li> <li>Each g</li> <li>Each g</li> <li>The N</li> </ul>	udents par or allots sin group disc group give Ientor con	rticij ngle usse es a j clud	pate in C herb to es about ppt prese les the se	Groups each g kalpan entation ession	as pe roup a, ma n on t with	er the instruction to discuss the atra & anupana the allotted top remarks	ons of the ir Rasayan a of the all pic.	Mentor a prope oted he	rties. rb.		
NLHT	24.2	Evidence based therapeutic effects of Rasayana	Utiliz revie Team	zation of wed Inde 1 based le	Library re xed Journ arning	sour als	rces by t	he stud	lents	to collect info	rmation or	n Rasay	ana from j	peer-	
				<ul> <li>The M</li> <li>Each ti journa</li> <li>The te library</li> <li>Each ti</li> <li>Other</li> <li>The M</li> </ul>	Ientor sele team is ins als to gathe trams refer y sources team discu students a Ientor pro	ects f struc er in to & isses ire e vide	few stud eted to see formation collect s the con ncourag	lents & earch an on. t the new ntents as ged to pa uding re	divio rticle cessa nd pr artici emarl	de them into 4 s related to ras ry information esents the sum pate in the dis cs on the prese	teams sayana in p n from the nmary. cussion un entation.	oeer- re referre nder suj	viewed ind d research pervision c	dexed article of of mentor.	

NLHT 24.3	Utility of Naimittika Rasayana in a treatment protocol	Case Based Learning
		<ul> <li>The Mentor allots simulated disease condition to the students</li> <li>The students are expected to chalk out an appropriate chikitsa yojana along with rasayana prayog for the given diagnosis.</li> <li>A discussion is generated among the students for the given topics</li> <li>Selected Students will present the given topic under the supervision of mentor.</li> <li>The Mentor concludes the class will remarks</li> </ul>
NLHT 24.4	Planning of Apunarbhava Chikitsa applying the principles & procedures of Rasayana Therapy	Flipped classroom
		<ul> <li>Students are divided into small groups by the mentor</li> <li>students in the group are asked to prepare a presentation on the role of rasayana in apunarbhava chikitsa</li> <li>In the following lecture, groups present the sequential procedures of rasayana therapy (purva &amp; pradhana karma).</li> <li>Other group students are encouraged to participate in the discussion</li> <li>The Mentor supervises the presentations &amp; provides guidance</li> </ul>
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity

NLHP 24.1	Devise a treatment plan according to principles of Rasayana.	Bedside Demonstration- 3 Long cases x 2 hours = 6 hours per batch Documentation of a case/condition requiring Rasayana Selection of appropriate Rasayana dravya by the student. The Mentor takes students to the ward/OPD of Kayachikitsa. Students in the clinical batch select a case requiring rasayana. Mentor shows the construction of the chikitsa yojana and documenting it in the following steps
		<ul> <li>The students shall introduce self to the patient and take verbal consent.</li> <li>The students shall interrogate the patient and document the clinical history.</li> <li>The students further brief the patient about the steps in examination that will be performed on him/her.</li> <li>The students perform the relevant clinical examinations adopting the Ayurvedic and conventional clinical methods of examination.</li> <li>The available investigation reports are interpreted by the students.</li> <li>The students analyze the nidana panchaka and extent of alteration in samprapti ghataka. The students interpret the collected information and state the vyadhi nama (arrive at a tentative clinical diagnosis) following the method of vyavachedaka nidana (differential diagnosis)</li> <li>The students construct the chikitsa yojana &amp; prescribes certain rasayana required for the diagnosed disease.</li> <li>The students recommend pathyaapathya to the patient.</li> <li>Finally, the students address the doubts of the patient &amp; acknowledge his/her cooperation in the case taking. The students present and discuss the documented long case.</li> <li>The mentor facilitates the case presentation.</li> <li>The mentor evaluates the student's performance, knowledge, psychomotor and communication skills using rubrics or checklist and gives the feedback.</li> <li>Remedial measures should be implemented if found necessary.</li> </ul>
NLHP 24.2	Formulate a treatment plan using appropriate enlisted Rasayana	Case Based Learning - 2 Short cases x 1 hour = 2 hours per batch The Mentor takes students to the ward/OPD of Kayachikitsa & assigns them a case requiring rasayana

	trea Mer step	tment. ntor shows tl os:	ne art of wr	iting a rat	ional treatn	nent prescriptio	on and doo	cumenti	ng it in the	e following
		<ul> <li>The stude</li> <li>The</li></ul>	dents shall dents shall dents furthe dents furthe ional clinic ilable inves dents interp diagnosis) dents detern dents formu iate rasayana a Asayana a Asayana a Shwass dents recon the student taking. dents presen ntor facilita ntor evalua incation ski al measures	ntroduce nterrogate r brief the al method tigation r ret the co following nine the s late a ration the therapy Varnya H a, Naimitt mend pate s address at and dise tes the ca tes the stu lls using n s should b	self to the p e the patient e patient abo evant clinic ls of examin eports are in llected info- the method adhyaasadh onal treatm enlisted be Rasayana, K ika Rasayan hyaapathya the doubts cuss the doo se presentat dent's perfe- ubrics or cl e implemer	batient and take t and document out the steps in al examination nation of the in nterpreted by t rmation and st l of vyavached by ata (prognosi ent prescription elow. Keshya Rasaya na – Tvacha roo to the patient. of the patient of cumented short tion. ormance, know hecklist and ginted if found no	e verbal co at the clini a examinat as adopting volved sy he student ate the vys laka nidan is) of the co on for the co na, Medhy oga. & acknow t case. vledge, psy ves the fee eccessary.	onsent. cal histo ion that g the Ay stem s. adhi nan a (differ liagnoso 7a Rasay ledge hi ychomo edback.	ory. t will be pe yurvedic a ma (arrive rential diag in the patie ed disease yana, Nain is/her coop	erformed on nd at a tentative gnosis) ent. & plan the nittika peration in
Topic	25 Chikitsa of Jarajanya vikara and Indriyapradoshaja vi	ikara (LH	:2 NLHT	2 NLH	P: 12)	[]		1		1
A3	B3	C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1,	Explain Samprapti vighatana and Samanya chikitsa of Jarajanya	CC	MK	SH	L,DIS,L	S-LAQ,T-C	F&S	Ш	-	LH

CO3	vikara a	nd Indriyapradoshaja vikara .					&PPT	S,CR-W,T- OBT,CL- PR				
CO1, CO2, CO3	Review Manage	the Etiopathogenisis, Diagnosis and Principles of ment of Smritilopa( Alzheimer's disease).		CC	MK	КН	L_VC,D IS,L&P PT	OSCE,T-C S,INT,CR- W,T-OBT	F&S	III	-	LH
CO1, CO3	State the Jarajany	e Ekala Aushadha prayoga, Aushadha Kalpa, Rasaya ya vikara.	ina in	СК	MK	КН	DIS,L& GD,TB L	CBA,INT,S- LAQ,QZ	F&S	III	-	NLHT25.1
CO1, CO3	State the	e Ekala Aushadha prayoga, Aushadha Kalpa, Rasaya yapradoshaja vikara.	ina	СК	MK	КН	DIS,L& GD,TB L	S-LAQ,PR N,CBA,IN T	F&S	III	-	NLHT25.2
CO1, CO2, CO3, CO6, CO7	Demons of Jaraja perform	strate the Chikitsa yojna and prepare case record in a anya vikara and Indriyapradoshaja vikara after ing relevant clinical examination	case	PSY- MEC	МК	SH	CBL,DI S,D-BE D,L&G D	Log book,O SCE,PRN	F&S	III	-	NLHP25.1
CO1, CO2, CO3	Identify physiolo the case	various clinical conditions of elderly, age related ogical changes and their clinical significance and stu management protocols in the establishment.	udy	PSY- MEC	NK	SH	FV,D-B ED,RLE ,DIS	CBA, C-V C,OSCE,Lo g book	F	III	-	NLHP25.2
CO2, CO7	Create a manage	wareness on the Role of Ayurveda in the prevention ment of age related diseases.	and	PSY- MEC	DK	SH	TUT,DI S,EDU	QZ ,Log book	F	III	-	NLHP25.3
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT 2	25.1	Aushadha prayoga for Jarajanya roga	Grouj	p Discussi	on and Te	am based	learning					

		<ul> <li>The students are divided in groups of 3-5 students</li> <li>Each Group is allotted specific Aushadha yoga</li> <li>Students refer and compile the material from library sources and prepare a presentation</li> <li>Each group will present the allotted topic in class</li> <li>Students are encouraged to interact with the presenter under the supervision of the mentor</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul> 1. Ekala Aushadha Yoga (single drug therapy) for Jarajanya vikara with appropriate anupana:
		<ul> <li>Vidari</li> <li>Shatavari</li> <li>Ashvagandha</li> <li>Jivanti</li> <li>Madhuka</li> </ul> 2.Aushadha Kalpa prayoga with appropriate matra, anupana , sevana kala for following:
		<ul> <li>Yashtimadhu churna</li> <li>Guduchi swarasa</li> <li>Ashvagandhai churna</li> <li>Shatavrayadi churna</li> <li>Vidryadi churna</li> </ul>
		3.Naimittika Rasayana for Jarajanya vikara
NLHT 25.2	Aushadha prayoga for Indriyapradoshoja vikara	Group Discussion and Team based learning
		• The students are divided in groups of 3-5 students

		<ul> <li>Each Group is allotted specific Aushadha yoga</li> <li>Students refer and compile the material from library sources and prepare a presentation</li> <li>Each group will present the allotted topic in class</li> <li>Students are encouraged to interact with the presenter under the supervision of the mentor</li> <li>Mentor clears the doubts, answers the queries and gives the concluding remarks</li> </ul> 1.Ekala Aushadha Yoga (single drug therapy) for Indriyapradoshaja vikara with appropriate anupana: <ul> <li>Daruharidra</li> <li>Haritaki</li> <li>Vibhitaki</li> <li>Amalaki</li> <li>Pippali</li> </ul> 2.Aushadha Kalpa prayoga with appropriate matra, anupana , sevana kala for following: <ul> <li>Ksheerbala tail</li> <li>Sarivadi vati</li> <li>Chavayanprakash</li> <li>Bilva tail</li> <li>Triiphala churna</li> </ul> 3. Naimittika Rasayana for Indriyapradoshaja vikara.
Non Lecture H	Iour Practical	
S No	Name of Prostical	Description of Proceedings Activity
<b>3.1NO</b>		Description of Fractical Activity
NLHP 25.1	Case study/ case scenario to devise a treatment	Documentation of a case/condition requiring Jarajanya vikara and Indriyapradoshaja vikara

	plan according to principles of Jarajanya vikara and Indriyapradoshaja vikara	Clinical case study (2 Long cases x 2 hours = 4 hours per batch) Case based learning Refer the case taking framework as described in NLHP 3.1
NLHP 25.2	An insight into functionality of a senior citizens' home/Geriatric care center.	<ul> <li>Field visit (4 hours )</li> <li>Community based learning</li> <li>Students are taken to nearest senior citizens' home/Geriatric care center</li> <li>They observe the inmates of the facility and identify various age related disorders and their management.</li> <li>Students make a brief report about visit.</li> <li>The report is be presented by the students and assessed by the Mentors followed by concluding remarks.</li> </ul>
NLHP 25.3	Public awareness activity related to age related diseases.	Commemoration of International day of older people and Screening health camp (4 hours) Community based learning Students are encouraged to conduct public awareness programs using suitable mass communication, audio-visual aids consisting the information of age related disorders , Preventive and therapeutic aspect of age related diseases.

(*Refer table 3	of similar	activity	number)
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Activity No*	CO No	Activity details
1.1	CO1	Selection of the appropriate treatment for a simulated case, enacted role play
3.1	CO1,CO2	Clinical understanding of Nija jvara,Sannipataja jvara and Agantuja jvara and its Chikitsa yojana
3.2	C01,C03	Importance of Langhana Chikitsa in Jvara
3.3	C01,C02	Clinical understanding and treatment of Jvara according to its different stages(Avasthanusara Jvara chikitsa)
3.4	CO1,CO3	Clinical understanding and management of Dhatugata jvara, Vishama jvara and Punaravartaka jvara
3.5	CO1,CO3	Understanding the Nidana panchaka and framing the management of various varieties of Jvara through case scenario.
3.6	C01,C03	Importance of Ksheera prayoga and Ghrita prayoga in Jvara
3.7	CO1,CO3	<ul> <li>Phalashruti,Sevanakala,Matra,Anupana of the given Aushadha kalpana</li> <li>Shadanga paneeya</li> <li>Amritottaram Kashaya</li> <li>Indukantam Kashaya</li> <li>Vishamajvara nashaka kashaya</li> <li>Sudarshana churna</li> <li>Mrityunjaya rasa</li> <li>Amritarishta</li> <li>Pippalyadi Ghrita</li> <li>Aparajita dhoopa</li> </ul>
4.1	C01,C02	Understanding of Samprapti vighatana in Anukta roga
5.1	CO1,CO2,CO3	Approach to the diagnosis and management of Mastishkavarana shotha jvara(Meningitis) Mastishka shotha(Encephalitis) and Dhanurvaata(Tetanus
5.2	CO1,CO2,CO3	

		Approach to the diagnosis and management of Granthika sannipata jvara(Plague) and Leptospirosis
5.3	CO1,CO2,CO3	Approach to the diagnosis and management of Beejanu jvara (Anthrax), and Peeta jvara (Yellow fever)
5.4	CO1,CO2,CO3	Approach to the diagnosis and management of Sandhiga sannipata jvara (Chikungunya) Dandaka jvara(Dengue) and Shleepada (Filariasis),
6.1	CO2,CO6	An insight into Anuvanshika rakta vikara (Haematopoietic diseases) and their chikitsa.
6.2	CO1,CO2,CO6	Leukemia and its treatment
6.3	CO1,CO2,CO6	Haemoglobinopathies
6.4	CO2,CO6	Common Cardiovascular Diseases
6.5	CO1,CO2,CO6	Diagnosis and treatment of Raktapravaha-hinata-janya hridroga with special reference to Coronary Artery Diseases
6.6	CO1,CO2,CO6	Diagnosis and management of Raktaja Hridghaatah and Hritpaatah (Congestive Cardiac failure, Cardiac arrest and Conductive disorders of the Cardia)
7.1	CO2,CO6	Disorders of Coagulation
7.2	CO2,CO6	Acquired disorders of coagulation
I	l	

7.3	CO1,CO2,CO6	Contemporary understanding of Visarpa along with its management
7.4	CO1,CO3	Kushtha bheda and doshahara chikitsa
7.5	C01,C02,C06	Diagnosis and treatment of Leprosy and Vitiligo/Leukoderma
7.6		A diagnostic and treatment approach to Yakrut shotha w s r to Infective and Non-
7.0		Infective Hepatitis.
7.7	CO1,CO2,CO6	An Insight into Yakrut vikara (common liver disorders) and their management
7.8	CO1,CO2,CO6	Maladies and remedies of Gout with special reference to Vatarakta
7.9	CO1,CO2,CO3	Management of peripheral vascular disorders
7.10	CO1,CO2,CO6	Article review on Tvak vikara
7.11	CO1,CO2,CO6	Diagnosis and treatment of Tvak vikara (Common Dermatological conditions in clinical practice)
8.1	CO1,CO2,CO3,CO6	Photography competition to familiarize the students with diagnosis and treatment of Kshudra roga.
9.1	CO1,CO3	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha yoga for Sthoulya and Prameha

9.2	CO1,CO2,CO3	Detailed understanding of dyslipidemia and Obesity and its ayurvedic management
10.1	CO1,CO2,CO3	Identifying the occurrence of Iatrogenic Disease & assessment of the benefits of Shuddha chikitsa & ill effects of Ashuddha chikitsa
11.1	CO1,CO2,CO3	Gata vata Chikitsa
11.2	C01,C03,C04	Chikitsa yojana in Vatavyadhi
11.3	CO1,CO3	Symposium on Urustambha
11.4	C01,C03,C04	Understanding of Udavarta and its application
11.5	CO1,CO2,CO3	Detailed understanding of Guillain- Barre Lakshana samuchchaya (Guillain -Barre syndrome),Ajna Nadi Vikara (Motor Neuron Disease),,Anuprasthiyasitamajjachadda shotha (Transverse Myelitis),Peshi dourbalya (Myasthenia Gravis)
11.6	CO1,CO2,CO3	Understanding of Cerebrovascular Accident and its management
12.1	CO1,CO2	Discussion on Asthisankatarbuda(Osteosarcoma)
12.2	CO1,CO2,CO3,CO4	Discussion on the etiopathogenesis, Diagnosis and Management of Osteoarthritis
12.3	CO1,CO2,CO3	Detailed understanding of the Diagnosis, Clinical examination, ayurvedic perspective and management of Lumbar spondylosis and Cervical Spondylosis
12.4	CO1,CO2,CO3,CO4	Ayurvedic management of Asthimajjavaha srotodushti vikara based on interpretation of Radiological Investigations
13.1	CO1,CO3,CO4	Chikitsa yojana (treatment plan ) of Shwasa (SL42)& Hikka (SM74) by
13.2	CO1,CO3,CO4	Chikitsa yojana (treatment plan) of Kaasa Roga (SL41)
13.3	C01,C03,C04	Chikitsa yojana ( treatment plan ) of or Trirupa , Shadrupa, Ekadasha rupa

		rajyakshama , Anuloma kshaya & Pratiloma kshaya
13.4	CO1,CO3,CO4	Construct Chikitsa yojana (treatment plan ) of Urahkshat roga.
14.1	CO1,CO3,CO4	Constructing chikitsa yojana for Shotha roga
14.2	CO1,CO3,CO4	Constructing Chikitsa yojana of Udar roga & Jalodara
15.1	CO1,CO3,CO4	Constructing Chikitsa Yojana for Samprapti vighatana of Mootrakrichchha roga (SM82)
15.2	CO1,CO3,CO4	Constructing Chikitsa Yojana for Samprapti Vighatana of Mootraghaata roga (SM81)
15.3	CO1,CO3,CO4	Constructing chikitsa yojana for samprapti vighatana of Ashmari roga (SM82)
15.4	CO1,CO3	Detailed understanding of management of Pourusha Granthi Vriddhi (BPH), Pourusha Granthi Arbuda ( Ca Prostate) & Apavrukkatva (Nephrotic Syndrome)
16.1	C01,C03	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha yoga for Atisara and Pravahika
16.2	CO1,CO3,CO5	Detailed understanding of Pravahika (dysentery), Raktatisara (ulcerative colitis), Bruhadantra arbuda (colorectal cancer) and its ayurvedic management
16.3	CO1,CO3	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha for Krimi roga
16.4	CO1,CO3	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha for Arsha
17.1	CO1,CO3	Clinical application of Aushadha yoga based on different Kalpana in Annavaha srotodushti vikara.
17.2	CO1,CO2,CO4	Discussion on Chikitsa of Agniyashaya Shotha(Pancreatitis) and Pittashaya Shotha(Cholecystitis

17.3	CO1,CO2,CO3	Compilation of scientific research articles on Irritable Bowel Syndrome/ (Grahani)
17.4	CO1,CO2,CO3	Brainstorming on Etiopathogenesis, Diagnosis & Management of Urdhwaga Amlapitha(GERD), , Parinama shoola and Annadrava shoola(Acid Peptic Diseases)
18.1	CO1,CO2	Bhutonmada and its basic management.
18.2	CO1,CO3	Aushadha prayoga for Manasa roga
18.3	CO1,CO2,CO3	Detailed discussion on Obsessive compulsive disorder, Neurotic disorder, personality and behavioral disorder.
18.4	CO1,CO2,CO3	Detailed discussion on the Diagnosis, Clinical examination and treatment of Vishada (Depression).
19.1	CO1,CO2,CO3,CO6	Hyperpituitarism-Dirghakayata /Atidirgha (Gigantism) and Vikayata (Acromegaly)
19.2	CO1,CO2,CO3,CO6	Udakameha (Diabetes insipidus)
19.3	CO1,CO2,CO3,CO6	Hypoparathyroidism and Hyperparathyroidism
19.4	CO1,CO2,CO3,CO6	Hypopituitarism-Vamanatva (Dwarfism) (SP9Y)
20.1	CO1,CO2,CO3	Approach to the Diagnosis, Ayurvedic perspective and management of Crohn's disease
20.2	CO1,CO2,CO3	Approach to the Diagnosis, Ayurvedic perspective and management of Ankylosing Spondylitis
20.3	CO1,CO2,CO3	Approach to the Diagnosis, Ayurvedic perspective and management of Multiple sclerosis

20.4	CO1,CO2,CO3	Approach to the Etiopathogenesis, Diagnosis, Ayurvedic perspective and management of Rheumatoid Arthritis
21.1	CO2,CO4	Understanding the Applied clinical anatomy and endocrinology aspects for male reproduction
21.2	CO2,CO4	Understanding on the Diagnosis, Clinical examination and Ayurvedic perspective and Principles of management of Male hypogonadism, and Infertility
21.3	CO1,CO3,CO4	Presenting the Phalashruti, Matra, Anupana and Sevana kala of Aushadha yoga in Shukravaha Srotas vikara
21.4	CO1,CO2,CO3,CO4	Detailed understanding on the Diagnosis, Clinical examination and Ayurvedic perspective and principles of management of Male hypogonadism, Infertility and Beeja dushtijanya vikara
22.1	C01,C02,C03,C06	Differentiating between the Chikitsa of Guhya roga
22.2	C01,C02,C03,C06	Chikitsa of Guhya roga
23.1	CO1,CO3,CO4	Mono Drug Vajikarana therapy like - Shilajatu, Suvarna bhasma and Vanga bhasma
23.2	CO1,CO3,CO4	Vajikarana ghruta, Vrishya ghruta, Vrishya gutika & Shrigopal taila in Vajikarana Prayoga
23.3	CO1,CO3,CO4	Vajikarana Yoga - Madanakameshwara Lehya, Narasimha Rasayan & Brimhani Gulika.
24.1	CO1,CO3,CO4	Application of the properties of the single herbs for using them as Rasayana
24.2	CO1,CO3,CO4	Evidence based therapeutic effects of Rasayana
24.3	CO1,CO3,CO4	Utility of Naimittika Rasayana in a treatment protocol
24.4	C01,C03,C04	Planning of Apunarbhava Chikitsa applying the principles & procedures of

		Rasayana Therapy
25.1	CO1,CO3	Aushadha prayoga for Jarajanya roga
25.2	CO1,CO3	Aushadha prayoga for Indriyapradoshoja vikara

Practica l No*	CO No	Practical Activity details
2.1	CO7	Communication skill and professionalism
2.2	CO7	Ethical Principles in Clinical Practice
3.1	CO1,CO2,CO3,CO6, CO7	Diagnose and constuct the Chikitsa yojana of Jvara(Nava jvara/Purana jvara/Nija jvara/Sannipata jvara/Agantuja jvara/Dhatugata jvara/Vishama jvara/Punaravartaka jvara)
4.1	CO1,CO2	Chikitsa yojana of Anukta roga & its complications
5.1	CO1,CO2,CO3	Bedside case taking of the given Sankramika jvara
5.2	CO1,CO2,CO3	Public awareness activity related to Malaria/hepatitis/epidemic preparedness/vaccination/meningitis/encephalitis
6.1	CO2,CO5,CO6	Cardio Pulmonary Resuscitation (CPR) Description
6.2	CO1,CO2,CO3,CO6, CO7	Short cases presentation in Rasa pradoshaja vikara
6.3	C01,C02,C03,C06, C07	Long cases presentation in Rasapradoshaja vikara
7.1	CO1,CO2,CO3,CO6, CO7	Short cases presentation in Rakta Pradoshaja Vikara
7.2	C01,C02,C03,C06, CO7	Long cases presentation in Rakta Pradoshaja Vikara
7.3	CO7	Commemoration of day of medical importance
8.1	CO1,CO2,CO3,CO6, CO7	Clinical case study on Kshudra roga.
9.1	C01,C03,C05	Bedside case taking of of Galaganda / Gandamala /Sthoulya / Karshya/ Prameha

9.2	CO1,CO3,CO5	Public awareness activity related to World cancer day / Obesity Day/Diabetes Day
10.1	C01,C02,C03	Chikitsa yojana for Drug induced Iatrogenic Disease
11.1	C01,C02,C03,C06, C07	Bedside casetaking of Pakshagatha, Ardita, Avabahuka/Viswachi,Kampavata, Gridhrasi, Manyasthmba,Khanja/ Pangu, Padadaha/ Padaharsha
11.2	CO1,CO3	Selection of appropriate Aushadhi in Vatavyadhi
11.3	C01,C02,C03,C06, C07	Commemoration of World Stroke Day
11.4	C01,C02,C03,C05, C06,C07	Commemoration of World arthritis day
12.1	C01,C02,C03,C06, C07	Bedside case taking of 1.Sandhigata vata 2 Kateegraha 3.Greeva graha 4.Raktaheenatajanya dhatunasha(AvascularNecrosis)/ Kroshtuka sheersha/Asthikshaya
12.2	C01,C02,C03,C04	Commemoration of World spine day(Oct 16)
13.1	C01,C02,C03,C06, C07	Bedside demonstration of a case of Mahashwasa, Urdhwa shwasa, Chhinna Shwasa, Kshudra Shwasa. (Any one case)
13.2	C01,C02,C03,C06, C07	Bedside case demonstration of case of Kaasa Roga (SL41)
13.3	C01,C02,C03,C06, C07	Bedside demonstration of case of Tamaka Shwasa (SL42)
13.4	C01,C02,C03,C06, C07	Bedside case demonstration of a case of Rajayakshma (~Pulmonary Tuberculosis) ( 2 hours)
13.5	CO1,CO2,CO3,CO6, CO7	Bedside demonstration of a case of Jirna Shwasakrichchhanika (ChronicObstructive Pulmonary Disease)
13.6	C01,C02,C03,C06, C07	Bedside demonstration of case of Vispharah (Bronchiectasis)
13.7	C01,C02,C03,C06, C07	Bedside Case demonstration of case of Phuphphusaasruti (Pleural effusion)
13.8	C01,C02,C03,C06,	Bedside demonstration of case of Antaraalayi Phuphphusa Vikara (Interstitial

	CO7	Lung Disease)
13.9	CO1,CO2,CO3,CO5, CO6,CO7	Field visit to DOTs Centre
13.10	CO1,CO2,CO5	Demonstration of Nebulization & oxygen therapy (2 hours)
14.1	CO1,CO2,CO3,CO6, CO7	Bedside demonstration of a case of Vatodara- Pittodara- Kaphodara- Dushyodara
14.2	CO1,CO2,CO3,CO6, CO7	Bedside demonstration of case of Yakritodara & Pleehodara, Chhidrodara, Baddha gudodara.
14.3	CO1,CO2,CO3,CO6, CO7	Bedside demonstration of case of Jalodara
14.4	CO1,CO3,CO4,CO6, CO7	Bedside demonstration of case of Shotha roga
15.1	CO1,CO2,CO3,CO6, CO7	Bedside demonstration of a case of CKD
15.2	CO1,CO2,CO3,CO6, CO7	Bedside demonstration of a case of Mootrakrichcha
15.3	CO1,CO2,CO5	Bedside demonstration of indwelling Urethral Catheter Insertion, managing problems due to Indwelling Catheters and removing Indwelling Urethral catheters.
15.4	CO1,CO2,CO3,CO6, CO7	Bedside demonstration of a case of Mootraghata
16.1	CO1,CO3,CO5	Bedside Case taking of Atisara , Pravahika ,Arsha, Raktatisara and Krimi
16.2	CO1,CO5	Public awareness activity related to World colorectal cancer awareness day/world IBS day/World piles day
17.1	CO1,CO2,CO3,CO6, CO7	Bedside Case taking of Annavaha srotodushti vikara.
17.2	CO1,CO2,CO3,CO6, CO7	OP-based case taking of two Annavahasrotodushti vikara
17.3	CO1,CO2,CO5	Insertion of Nasogastric tube/ Ryles tube in a Mannequin
18.1	CO1,CO2,CO3,CO6, CO7	Case study/ case scenario to devise a treatment plan according to principles of Manovaha srotas Documentation of a case/condition requiring manovaha srotas
18.2	CO2,CO6	Public awareness activity related to Mental health day.

18.3	CO1,CO2,CO3,CO7	An insight into functionality of a mental hospital /de-addiction center/psycho social rehabilitation center.
19.1	CO1,CO2,CO3,CO6, CO7	Case taking of Endocrine disorder. Case presentation of Endocrine disorder
20.1	C01,C02,C03	Bed side Case Presentation on Immune system disorders
21.1	C01,C02,C03,C04, C05	Bedside case taking of case of Klaibya (Male sexual dysfunction), Shukradosha
22.1	CO1,CO2,CO6,CO7	Creating awareness about Sexually transmitted diseases during National STD Awareness week.
23.1	C01,C03,C04	Formulate a treatment plan according to principles of Vajikarana.
23.2	CO1,CO3,CO4	Constructing a Chikitsa yojana based on the Interpretation of the Investigations related to Male & Female Infertility
24.1	CO1,CO3,CO4	Devise a treatment plan according to principles of Rasayana.
24.2	CO1,CO3,CO4	Formulate a treatment plan using appropriate enlisted Rasayana
25.1	C01,C02,C03,C06, C07	Case study/ case scenario to devise a treatment plan according to principles of Jarajanya vikara and Indriyapradoshaja vikara
25.2	CO1,CO2,CO3	An insight into functionality of a senior citizens' home/Geriatric care center.
25.3	C02,C07	Public awareness activity related to age related diseases.

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Subject         Papers         Theory         Practical/Clinical Assessment (200)						Grand		
Code			Practical	Viva	Elective	IA	Sub Total	Total
AyUG-KC	3	300	100	70	-	30	200	500

## 6 A : Number of Papers and Marks Distribution

#### **6 B : Scheme of Assessment (Formative and Summative)**

PROFESSIONAL	FOR	SUMMATIVE		
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	3 PA & First TT	3 PA & Second TT	3 PA	UE**

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

#### 6 C : Calculation Method for Internal assessment Marks

		PERIODICAL ASSESSMENT*			TERM TEST**	TEI ASSESS	RM SMENT	
	A 11	В	С	D	E	F	G	Н
TERM	1 (15 Marks)	2 (15 Marks)	3 (15 Marks)	Average (A+B+C/3 )	Converted to 30 Marks (D/15*30)	Term Test (Marks converted to 30)	Sub Total _/60 Marks	Term Assessmen t (/30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		Е
Final IA	Average of 7	Three Term A	ssessment M	arks as Show	n in 'H' Colu	mn.		
	Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks.							

## 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

# **Topics for Periodic Assessments**

РА	Paper 1	Paper 2	Paper 3
PA 1	Topic 1,2	Topic 11	-
PA 2	Topic 3,4	-	-
PA 3	Topic 5	-	Topic 17
Term test 1	Entire Syllabus of Term 1 c	of 3 papers	
PA 4	Торіс б	Topic 12	Topic 18
PA 5	-	Topic 13	Topic 19
PA 6	Topic 7	-	Topic 20
Term test 2	Entire Syllabus of Term 2 c	of 3 papers	
PA 7	Topic 8	Topic 14	Topic 21,22.
PA 8	Topic 9	Topic 15	Topic 23
PA 9	Topic 10	Topic 16	Topic 24,25

# III PROFESSIONAL BAMS EXAMINATIONS AyUG-KC PAPER-I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

Similar for Paper II & III

# 6 F : Distribution of theory examination

Paper 1 (Vyadhi Vishesha Chikitsa - 1)							
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ		
1	Kaya, Chikitsa and Kayachikitsa - Nirukti, Paribhasha, Paryaya and Bheda	3	Yes	No	No		
2	Clinical ethics in the practice of Kayachikitsa	7	Yes	Yes	No		
3	Samprapti vighatana, Chikitsa sutra, Chikitsa, Aushadha yoga and Pathyaapathya of Jvara (SP51/TM2)	22	Yes	Yes	Yes		
4	Anuktaroga treatment principles based on Doshadushyadi vivechana		Yes	Yes	No		
5	Chikitsa of Sankramika jvara		Yes	Yes	Yes		
6	Chikitsa of Rasa pradoshaja vikara	18	Yes	Yes	Yes		
7	Chikitsa of Rakta pradoshaja vikara	24	Yes	Yes	Yes		
8	Chikitsa of Kshudra roga	5	Yes	Yes	No		
9	Chikitsa of Mamsapradoshaja and Medopradoshaja vikara	16	Yes	Yes	Yes		
10	Shuddha-Ashuddha chikitsa, Chikitsajanita vikara	5	Yes	Yes	No		
Tota	ll Marks	100					

Paper 2 (Vyadhi Vishesha Chikitsa - 2)					
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ
11	Chikitsa of Vatavyadhi	24	Yes	Yes	Yes
12	Chikitsa of Asthi-Majja pradoshaja vikara (SR54) (SR55)	14	Yes	Yes	Yes
13	Chikitsa of Pranavaha Srotodushti Vikara (TM2:SL40-SL4Z)	24	Yes	Yes	Yes
14	Chikitsa of Udakavaha srotodushti vikara	10	Yes	Yes	Yes
15	Chikitsa of Mootravaha srotodushti vikara	12	Yes	Yes	Yes
16	Chikitsa of Purishavaha srotodushti vikara (SR5A)	16	Yes	Yes	Yes
Total Marks		100			

Pape	<b>r 3</b> (Vyadhi Vishesha Chikitsa Evam Rasayana, Vajikarana)				
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ

17	Chikitsa of Annavaha srotodushti vikara	16	Yes	Yes	Yes
18	Chikitsa of Manovaha srotas dushti vikara	10	Yes	Yes	Yes
19	Chikitsa of of Antahsravi Granthi vyadhi	10	Yes	Yes	Yes
20	Chikitsa of Vyadhikshamatva vikara	8	Yes	Yes	No
21	Chikitsa of Shukravaha srotasa vikara	8	Yes	Yes	No
22	Chikitsa of Guhya roga	8	Yes	Yes	No
23	Vajikarana	12	Yes	Yes	Yes
24	Rasayana	20	Yes	Yes	Yes
25	Chikitsa of Jarajanya vikara and Indriyapradoshaja vikara	8	Yes	Yes	No
Total Marks		100			

#### 6 G : Instructions for UG Paper Setting & Blue print

- 1. All questions shall be compulsory.
- 2. Questions shall be drawn based on Table 6F, which provides the topic name, types of questions (MCQ(Multiple Choice Question), SAQ(Short Answer Question), LAQ(Long Answer Question)).
- 3. The marks assigned in Table 6F for each topic/group of topics shall be considered as the maximum allowable marks for that topic/group of topics.
- 4. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
- 5. Refer to Table 6F before setting the questions. Questions shall be framed only from topics where the type is marked as "YES", and avoided if marked as "NO".
- 6. Each 100-mark question paper shall contain:
  - 20 MCQs
  - 8 SAQs
  - 4 LAQs
- 7. MCQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 3.
  - Questions from the Nice to Know part of syllabus shall not exceed 2.
- 8. SAQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 1.
  - No questions shall be drawn from the Nice to Know part of syllabus.
  - SAQs shall assess understanding, application, and analysis, rather than simple recall.
- 9. LAQs:
  - All LAQs shall be drawn exclusively from the Must to Know part of the syllabus.
  - No questions shall be taken from the Desirable to Know or Nice to Know part of the syllabus.
  - Number of LAQs should not exceed one per topic unless maximum marks exceed 20 for the topic.
- 10. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
- 11. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

### 6 H : Distribution of Practical Exam

S.No	Heads	Marks
1	Long case 15 marks for case writing + 15 marks for case presentation + 15 marks for bedside viva-voce	45
2	Short case 10 marks for Case writing + 5 marks for case presentation + 10 marks for bedside viva-voce	25
3	Spotting (Assessing Skills - Any 5)         • Ryle's tube         • Rubber catheter         • Foley's catheter         • Nebulizer         • HFNC mask         • Ambu bag         • Urine bag         • Life-saving medicines         • Defibrillator         • Distilled water         • Syringe         • Insulin syringe         • Intravenous Infusion set         • Scalp vein set/ Intravenous cannula         • 1 mark each for Identification + 1 mark each for mentioning the important clinical use	10
4	<ul> <li>Case records</li> <li>20 Long cases (at least one case from each srotas + Antahsravi granthi vikara) +3 Rasayana cases + 2 Vajikarana cases</li> <li>20 Short cases ( at least one case from each srotas + Kshudra roga)</li> <li>5 marks Neatness + 15 marks Case writing skills</li> </ul>	20
5	Viva-Voce (The examiner is expected to utilize sufficient time to check students' knowledge across all topics of the syllabus) Distribution of viva Marks across 3 papers Paper 1 - 20 Marks	70

<ul> <li>Derivation, definition, synonyms, and classification of Kaya, Chikitsa, and Kayachikitsa</li> <li>Clinical Ethics in the practice of Kayachikitsa</li> <li>Samprapti vighatana, Chikitsa sutra, Chikitsa of Jvara</li> <li>Anuktaroga treatment principles</li> <li>Sankramika jvara</li> <li>Chikitsa of Rasa-pradoshaja vikara</li> <li>Chikitsa of Rasa-pradoshaja vikara</li> <li>Chikitsa of Kasa-pradoshaja vikara</li> <li>Chikitsa of Kasa-pradoshaja and Medopradoshaja vikara</li> <li>Chikitsa of Mamsapradoshaja and Medopradoshaja vikara</li> <li>Chikitsa of Mamsapradoshaja and Medopradoshaja vikara</li> <li>Chikitsa of Mamsapradoshaja and Medopradoshaja vikara</li> <li>Concept of Shuddha-ashuddha chikitsa(latrogenic diseases)</li> </ul> Paper 2 - 20 marks <ul> <li>Chikitsa of Vatavyadhi</li> <li>Chikitsa of Vatavyadhi</li> <li>Chikitsa of Yatavyadhi</li> <li>Chikitsa of Asthi-majja-pradoshaja vikara</li> <li>Chikitsa of Motravaha srotodushti vikara</li> <li>Chikitsa of Mootravaha srotodushti vikara</li> <li>Chikitsa of Mootravaha srotodushti vikara</li> <li>Chikitsa of Annavaha srotodushti vikara</li> <li>Chikitsa of Annavaha srotodushti vikara</li> <li>Chikitsa of Annavaha srotodushti vikara</li> <li>Chikitsa of Manovaha srotodushti vikara</li> <li>Chikitsa of Shukravaha srotodushti vikara</li> <li>Chikitsa of Shukravaha srotodushti vikara</li> <li>Chikitsa of Shukravaha srotodushti vikara</li> <li>Chikitsa of Guhya roga</li> <li>Vajikarana</li> <li>Rasayana</li> <li>Chikitsa of Jarajanya and Indriyapradoshaja vikara</li> </ul>	
6 Internal Assessment	30
Total Marks	200

## **References Books/ Resources**

S.No	Resources									
1	Acharya Sharangadhara Bhisagvar Sarangadhara Samhita by Adhamalla Virachita Deepika Commentary, Dr Brahmananda Tripathi, Chaukhambha Surbharti Prakashan, 2019									
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### Abbreviations

Domain		T L Method		Level As		Asse	Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
CC	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
САР	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	H-KC	Н КС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	H-PK	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	Н-КВ	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

	W	Workshops		C-INT	Conducting interview	
	GBL	Game-Based Learning		INT	Interactions	
	LS	Library Session		CR- RED	Critical reading papers	
	PL	Peer Learning		CR-W	Creativity Writing	
	RLE	Real-Life Experience		C-VC	Clinical video cases	
	PER	Presentations		SP	Simulated patients	
	D-M	Demonstration on Model		РМ	Patient management problems	
	РТ	Practical		СНК	Checklists	
	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
	CD	Case Diagnosis		DOPS	DOPS	
	LRI	Lab Report Interpretation		CWS	CWS	
	DA	Drug Analysis		RS	Rating scales	
	D	Demonstration		RK	Record keeping	
	D- BED	Demonstration Bedside		СОМ	Compilations	
	DL	Demonstration Lab		Portfol ios	Portfolios	
	DG	Demonstration Garden		Log book	Log book	
	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				CBA	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	

## COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



# **Prasuti** Tantra evam Stree Roga (Gynecology and Obstetrics)

### (SUBJECT CODE : AyUG-PS)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



# NCISM III Professional Ayurvedacharya (BAMS) Subject Code : AyUG-PS

Prasuti Tantra evam Stree Roga (Gynecology and Obstetrics)

### Summary

Total number of Teaching hours: 275								
Lecture (LH) - Theory								
Paper I	50	100	100(LH)					
Paper II	50							
Non-Lecture (NLHT)								
Paper I	26	52	175(NLH)					
Paper II	26							
Non-Lecture (NLHP)								
Paper I	62	123						
Paper II	61							

	Examination (Papers & Mark Distribution)							
Item	Theory Component Marks	Practical Component Marks						
		Practical	Viva	Elective	IA			
Paper I	100	100	60	10 (Set-TA)	30			
Paper II	100							
Sub-Total	200	200						
Total marks		400						

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

## **PREFACE**

The Indian government introduced the National Education Policy with the aim of transforming India into a knowledge-based society by providing quality education to all.

Prasuti Tantra and Stree Roga is a comprehensive and integral subject that equips students with the knowledge and skills required for the effective care of women throughout their life stages with special emphasis on reproductive health & management of pregnancy, child birth & postpartum care.

The curriculum is designed to develop a strong foundation in Ayurvedic concepts related to women's health, combined with contemporary medical knowledge, making it a dynamic and interdisciplinary subject.

In this competency based curriculum the syllabus has been crafted by blending traditional teachings & guidance with the latest scientific advancements to create a comprehensive & relevant educational experience. There is a conscious effort to incorporate a variety of innovative learning methods to ensure more practical education.

Innovative teaching methodologies, including problem-based learning (PBL), case-based learning (CBL), and simulation-based training, are integrated to encourage clinical reasoning, critical thinking, and application of theoretical knowledge. These methods help in honing the competencies necessary for handling real-life situations in Prasuti Tantra and Stree Roga practice. Vertical and horizontal integration with other subjects ensures a seamless learning process and prepares students for interdisciplinary care delivery.

Incorporating student-centric and activity-based learning, the curriculum also focuses on building competencies in areas such as patient interaction, clinical examination, diagnostic decision-making, and treatment planning. Dedicated time for clinical exposure, self-directed learning, peer learning, community outreach programs, and surveys on women's health helps students understand the diverse range of health issues faced by women across different demographics.

The curriculum is aligned with Competency-Based Dynamic Curriculum (CBDC) aims to produce confident, skilled practitioners who can diagnose and treat women's health issues effectively, keeping in mind the ancient wisdom of Ayurveda and the advances in contemporary medicine. Through traditional and modern assessment methods, students will be regularly evaluated to ensure they achieve the desired learning outcomes, contributing to both their academic success and professional development.

By the end of this course, students will not only be well-versed in Ayurvedic approaches but also adapt in contemporary medical practices, enabling them to provide high-quality, integrated healthcare to women.

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### **Course Code and Name of Course**

Course code	Name of Course		
AyUG-PS	Prasuti Tantra evam Stree Roga		

### Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-PS At the end of the course AyUG-PS, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.
CO1	Explain anatomy, physiology, neuro-endocrinology of reproduction and implement <i>Garbhini Paricharya</i> (Antenatal care), <i>Garbha Samskara</i> to achieve <i>Shreyasi Praja</i> (healthy progeny) and minimize maternal morbidity and mortality.	PO1,PO4,PO5
CO2	Explain Youvanavastha(Puberty), Kishoravastha(Adoloscence) and Rajonivrutti (Menopause). Diagnose Yonivyapad (Gynecological disorders), Artava vyapad (Menstrual disorders), Vandhyatva (Infertility), StanaRoga with integration of Ayurveda principles and Scientific advances for holistic management.	PO1,PO3
CO3	Perform <i>Sthanika upakrama</i> (in-situ treatment), <i>Panchakarma</i> and Surgical procedures and implement drug interventions ethically ensuring patient safety.	PO2,PO4,PO5
CO4	Perform Normal labor, anticipate Obstetric emergencies and ensure timely referral. Manage <i>Sutika</i> (normal puerperium) and <i>Sutika Vyapad</i> (abnormal puerperium). Postpartum counseling on contraceptives.	PO2,PO3,PO6
CO5	Participate in National maternal health programs and comprehend the medicolegal aspects related to <i>Prasuti tantra and Stree Roga</i> including the MTP ACT and PC-PNDT ACT.	PO6,PO7
CO6	Demonstrate professional ethics, communication skills with compassionate attitude, engage in clinical research embracing the principles of lifelong learning and professional development.	PO6,PO8,PO9

### Table 2 : Contents of Course

rape	$\mathbf{r} = \mathbf{r} \mathbf{K} \mathbf{A} \mathbf{S} \mathbf{U} \mathbf{H} \mathbf{I} \mathbf{A} \mathbf{N} \mathbf{I} \mathbf{K} \mathbf{A} - \mathbf{U} \mathbf{B} \mathbf{S} \mathbf{I} \mathbf{E} \mathbf{I} \mathbf{K} \mathbf{I} \mathbf{U} \mathbf{S} \mathbf{J}$					
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l
1	<ul> <li>Stree Vishishta Shareera Vigyana - Anatomy of Female Reproductive System</li> <li>a. Introduction to <i>Prasuti Tantra</i> and <i>Stree Roga</i>. Origin of word "<i>Stree</i>" with nomenclature. (<i>Vayobheden Stree sangya</i>)</li> <li>b. <i>Tryavarta Yoni</i> and anatomical insights of <i>Garbhashaya</i> with <i>marma, peshi</i>.</li> <li>c. <i>Artavavaha</i> and <i>Stanyavaha Srotas</i>.</li> <li>d. Anatomy of Female internal and external genital organs with applied aspects.</li> </ul>	1	30	3	2	4
	e. <i>Streeshroni</i> (Female Pelvis) -Types, Diameters and Obstetric significance.	1		1		1
2	<ul> <li>kutuchakra - Menstrual Cycle</li> <li>a. Shuddha Artava &amp; Shuddha Shukra Lakshana.</li> <li>b. Tridosha &amp; Panchamahabhoota in Rutuchakra.</li> <li>c. Practices of Rajaswala Paricharya and its potential effects on reproductive health.</li> <li>d. Rutukala, Rutumati Lakshana and Rutumati Paricharya with significance.</li> <li>e. Highlights on Beeja Nirmana - Oogenesis, Spermatogenesis.</li> <li>f. Rutuvyatita Kala.</li> <li>g. Phases of Menstrual cycle. Importance of HPO axis in menstrual regulation.</li> </ul>					
3	Garbha Vigyana - Embryology & Fetal Development	1		4	4	4

	<ul> <li>a. Garbhakara Bhava, Garbhadhana, Garbhavakranti, Garbha Samskara, Pumsavana Samskara for achieving Shreyashi- praja.</li> <li>b. Apara (Placenta) and Garbha Nabhinadi (umbilical cord), Garbhodaka (amniotic fluid) - formation with abnormalities</li> <li>c. Garbha Poshana</li> <li>d. Fetal nourishment and Fetal circulation.</li> <li>e. Masanumasika Garbha Vriddhi</li> <li>f. Garbhashayantara Garbha Sthiti (Fetus-in-utero) - Lie, Attitude, Presentation, Presenting part, Denominator, Position.</li> </ul>					
4	<ul> <li>Garbhini Vigyana - Physiology of Pregnancy &amp; Antenatal Care</li> <li>a. Garbhini Nidana – Garbhini Lakshana, Garbha- Upaghatkara bhava, Garbha Vikruti.</li> <li>b. Physiological changes and Diagnosis of Pregnancy.</li> <li>c. Garbhini Paricharya, Prajasthapana gana.</li> <li>d. Antenatal care – Objectives, Immunization, Examination, Investigations and Management with contemporary National protocol.</li> <li>e. Demographic statistics related to Obstetrics.</li> </ul>	1		3	3	8
5	<ul> <li>Garbha Vyapad - Fetal Pathologies</li> <li>a. Garbha Srava, Garbha Pata - Nidana, Samprapti, Lakshana, Chikitsa.</li> <li>b. Abortion, Medical Termination of Pregnancy Act (MTP Act).</li> <li>c. Garbha Vyapad – Nidana, Samprapti, Lakshana, Chikitsa.</li> <li>d. Intrauterine Growth Restriction, Oligohydramnios, Polyhydramnios—Etiological factors, Clinical features, Management.</li> </ul>	2	40	4	4	7

	<ul> <li>e. Rh incompatibility, ectopic pregnancy, gestational trophoblastic disease.</li> <li>f. Antarmruta Garbha – Nidana, Samprapti, Lakshana, Chikitsa.</li> <li>g. Intrauterine Fetal Demise—Etiological factors, Clinical features, Management.</li> <li>h. Raktagulma—Nidana, Lakshana, Chiktisa.</li> </ul>				
6	<ul> <li>Garbhini Vyapad - Minor Ailments and Major Disorders of Pregnancy</li> <li>a. Garbhini Vyapad – Aruchi, Hrillasa, Chardhi, Vibanda, Atisara, Arsha, Parikartika, Udavarta</li> <li>b. Vaivarnya, Kandu, Kikkisa, Pandu, Garbhini Jwara, Shotha.</li> <li>c. Hypertensive Disorders in Pregnancy.</li> <li>d. High risk Pregnancy.</li> <li>e. Prasava poorva rakta srava (Ante Partum Hemorrhage) – Causes, Classification, Clinical features, Management.</li> </ul>	2	6	0	6
7	<ul> <li>Prasava Vigyana - Labour</li> <li>a. Sutikagara and Labour Room setup, Labour Room Protocol according to contemporary National Health Guidelines.</li> <li>b. Drugs commonly used during Labour (Uterotonics, Tocolytics, Analgesics, Ergot Alkaloids and Anesthetics) - Guidelines for use with Pharmacotherapeutics.</li> <li>c. Prasava Paribhasha, Prasava Hetu, Prasava Kala.</li> <li>d. Causes of onset, Physiology and Diagnosis of Labour.</li> <li>e. Anatomy of Fetal Skull and Clinical Pelvimetry.</li> <li>f. Prajayini, Upasthita Prasava and Asanna Prasava.</li> </ul>	2	10	1	17

	g. Stages of Labour and Mechanism of Labour.					
	h. Avi, Grahishoola, Prasuti maruta and Garbha Sthiti Parivartana during Prasava Kala.					
	i. <i>Prasava Paricharya</i> - Monitoring with Partograph and management of Labour.					
	j. Episiotomy.					
	k. Intrapartum Fetal Monitoring techniques, Non Stress Test, Fetal Distress.					
	1. <i>Jatamatra Paricharya</i> (Immediate care & Resuscitation of Newborn).					
8	Prasava Vyapad - Labour Complications & Obstetric Emergencies.	3	30	6	2	4
	a. <i>Nidana, Samprapti, lakshana</i> and <i>Chikitsa</i> of <i>Akala Prasava</i> (Preterm labour)					
	b. Post term pregnancy					
	c. Garbha Sanga, Vilambita Prasava.					
	d. Obstructed and Prolonged labour.					
	e. Apara sanga - Nidana, Lakshana and Chikitsa.					
	f. Post Partum Haemorrhage - Causes, Clinical features, Complications and Management.					
9	Moodhagarbha - Obstructed Labour	3		8	3	6
	a. Nirukti, Samprapti, Bheda, Gati, Chikitsa of Moodhagarbha.					
	b. Abnormal Presentations – Breech, Persistent Occipito Posterior Position.					
	c. Cephalo Pelvic Disproportion (CPD).					
	d. Moodhagarbha Upadrava – Garbhakosha- parasanga, Makkala, Yonisamvarana.					
	e. Obstetric Emergencies with timely referral - Cord prolapse, Genital Tract Injuries during labour,					
	f. Uterine -inversion, Amniotic fluid Embolism,					

	Obstetric Shock, Uterine Rupture.					
	g. Induction and Augmentation of Labour and Assisted Labour Techniques. (Forceps, Vacuum, Caesarean Section).					
10	Sootika Vigyana - Puerperium	3		3	1	3
	a. Sootika, Sootika-kala, Sootika Paricharya.					
	b. Puerperial changes, Postpartum care.					
	c. Contraception					
	d. Sootika Vyapad – Nidana, Samprapti, Lakshana, Chikitsa.					
	e. Puerperial Disorders.					
11	Stanya Vigyana - Lactation	3		2	2	2
	a. <i>Stanya, Stanya Sampat.</i>					
	b. Physiology of Lactation, Breast feeding techniques.					
	c. Stanya dushti, Stana Shotha, Stana Vidradhi.					
	d. Mastitis, Breast abscess.					
Tota	l Marks		100	50	26	62

Pape	Paper 2 (STREE ROGA - GYNAECOLOGY)							
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l		
12	Stree Prajanananga Nirmana and Vikruti - Development of Female Reproductive System with Anomalies.	1	30	3	2	4		
	<ul><li>a. Development of female reproductive system from Mullerian duct and its anomalies.</li><li>b. Neuroendocrinology of reproduction.</li></ul>							

	c. Anatomy and Physiological aspects of Puberty and Menopause.				
13	Yantra evam Shastra - Instruments	1	1	1	6
	Instruments commonly used in <i>Prasutitantra</i> (Obstetrics) and <i>Stree Roga</i> (Gynaecology) procedures and surgeries -				
	a. Types of <i>Yantra</i> (Blunt instruments) and utilization-				
	i) Sandansha Yantra (Pincer like or dissecting forceps) –				
	* <i>Annigraha</i> – plain non toothed forceps * <i>Sannigraha</i> – Toothed forceps				
	ii) <i>Swastika Yantra</i> (Cruciform like Forceps) - Allies forceps, Vulsellum, Sponge holding forceps, Cheatle's forceps, Kocher's forceps, Babcock's forceps, Needle holder, Artery forceps, Ovum forceps, Green armytage forceps, Cervical punch biopsy forceps.				
	iii) <i>Shalaka Yantra</i> (Rod like instruments) - Uterine sound, Hegar's dilator, Uterine curette, Endometrial biopsy curette, <i>Agnikarma</i> <i>Shalaka</i> , Anterior vaginal wall retractor				
	iv) <i>Dvi Tala Yantra</i> (Scoops or spoon-shaped instruments) - Sim's speculum, Endometrial curette, Cusco's speculum, Doyen's retractor, Obstetric forceps				
	v) <i>Nadi Yantra</i> (Tubular instruments) - <i>Yonivranekshana yantra</i> , Leech Wilkinson's HSG cannula, Rubin's cannula, Suction cannula, <i>Uttarabasti</i> cannula, Vaginal douching syringe, <i>Basti yantra</i>				
	b. Type of <i>Shastra</i> (Sharp instruments) and utilization -				
	i) Kartari Shastra (Scissors) - Atimukha Shastra (Episiotomy Scissors), Mandalagra Shashtra (Umbilical cord cutting Scissors), Shararimukha Shastra (Mayos scissors / Simple scissors, suture removing scissors)				

	ii) Vriddhipatra Shastra – Scalpel					
	iii) Suchi Shastra – different type of needles					
14	Stree Rugna Parikshana - Gynaecological Examination	1		2	1	4
	a. Gynaecological History taking.					
	b. General and systemic examination.					
	c. Breast examination, Per abdomen, Per speculum, Per vaginal, Per rectal examination.					
15	Artava Vyapad - Menstrual Disorders	1		6	2	4
	a. Ashtartava Dushti.					
	b. Anartava (Amenorrhoea).					
	c. Poly Cystic Ovarian Syndrome (PCOS).					
	d. Artava Kshaya (Oligomenorrhoea, Hypomenorrhoea).					
	e. Artava Vruddhi (Polymenorrhoea).					
	f. Asrugdara (Abnormal Uterine Bleeding).					
16	Rajonivritti - Menopause	1		2	1	2
	a. Anatomical & Physiological changes in Genital organs during Menopause.					
	b. <i>Rajonivrutti Janya Lakshana</i> (Menopausal Syndrome).					
	c. Management of Menopausal syndrome.					
	d. Role of Rasayana in Menopausal syndrome.					
17	Yoni Vyapad - Disorders of Female Reproductive system	2	40	13	3	10
	a. Yoni vyapad - Bheda, Nidana, Samprapti, Lakshana, Upadrava, Samanya & Vishesha Chikitsa.					
	b. Udavarta, Vandhya, Vipluta, Paripluta,Vatala, Rudhirakshara, Vamini, Sramsini, Putraghni, Pittala,					

	<ul> <li>c. Atyananda, Karnini, Acharana, Aticharana, Shleshmala, Shandhi,</li> <li>d. Phalini, Mahati, Soochivaktra, Sarvaja, Antarmukhi, Shuska, Arajaska, Lohita kshaya, Upapluta.</li> <li>e. Dysmenorrhoea, Pruritus Vulvae, Endometriosis, Adenomyosis, Pelvic Inflammatory Diseases,</li> <li>f. Pelvic organ prolapse, Cervical erosion and Ectropion, Dyspareunia, Vaginismus, Presacral neuralgia, Constitutional nymphomania, Effluvium seminis - Causes, Clinical features, Investigations and Management.</li> </ul>				
18	<ul> <li>Vandhyatwa - Infertility</li> <li>a. <i>Nirukti</i> and <i>Bheda</i> of <i>Vandhyatwa</i>.</li> <li>b. Female and Male factors of infertility.</li> <li>c. Infertility Evaluation - Semen Analysis, Hormonal assays, Follicular study, Ultrasonography &amp; Hysterosalpingography</li> <li>d. <i>Chikitsa</i> of <i>Vandhyatwa – Shodhana, Shamana</i> and <i>Sthanika upakrama</i></li> <li>e. Assisted Reproductive Techniques.</li> </ul>	2	4	3	8
19	<ul> <li>Vyadhi Vinischaya Upaya - Diagnostic Tools and Techniques</li> <li>a. Pap smear</li> <li>b. Colposcopy</li> <li>c. Cervical biopsy</li> <li>d. Endometrial biopsy</li> <li>e. Hysterosalpingography</li> <li>f. Ultrasonography</li> <li>g. Hysteroscopy</li> <li>h. Laparoscopy</li> </ul>	2	1	1	2

	i. Magnetic Resonance Imaging					
	j. Computed Tomography scan					
20	Sthanika Upakrama - In situ Treatment Modalities	2		1	2	7
	Sthanika Upakrama - Yoni Dhavana, Yoni Prakshalana,Yoni Pichu,Yoni Varti,Yoni Lepana, Yoni Avachurnana, Yoni Purana, Yoni Dhoopana, Dahana, Ksharkarma, Uttarbasti.					
21	Stree Janananga Granthi Evam Arbuda - Benign & Malignant lesions of Female Reproductive System	3	30	4	2	4
	a. Yonikanda,Yoni Arsha.					
	b. Benign lesions of reproductive system - Fibroid uterus, Bartholin cyst, Endometrial and Cervical polyp, Ovarian cyst, Tubo ovarian mass.					
	c. Arbuda					
	d. Premalignant & Malignant lesions of Uterus, Cervix, Endometrium & adnexa - Aetiology, Evaluation, Staging, Management					
	e. Preventive aspects of Malignancies.					
	f. Vaccination for cervical cancer.					
22	Guhya Roga - Sexually Transmitted Diseases	3		2	1	0
	a. Upadamsha, Firanga, Puyameha - Nidana, Samprapti, Lakshana, Chikitsa.					
	b. Sexually Transmitted Infections Causative microorganisms, Pathology, Clinical features, Investigations and Treatment.					
23	Yoni srava - Vaginal Discharge	3		1	1	2
	a. Shweta pradar - Nidana, Lakshana and Chikitsa.					
	b. Differential Diagnosis of Abnormal Vaginal Discharge and management.					
24	Stana Roga - Breast Disorders	3		3	1	3
	a. Clinical Anatomy of Breast.					

	b. Stana Keelaka, Stana Granthi - Nidana, Samprapti Lakshana, Bheda, Upadrava & Chikitsa				
	c. Fibroadenoma Breast.				
	d. Stanarbuda - Breast carcinoma.				
	e. Aetiology, Clinical features, Diagnosis, Staging, Prevention & Management.				
25	Shastra Karma in Stree Roga - Surgical Procedures in Gynaecology	3	4	1	4
	a. Sterilization methods of Instruments, Equipments and Labour - OT complex.				
	b. Garbhashaya Mukha Vistrutikarana evam Lekhana (Dilatation & Curettage).				
	c. Garbhashaya Mukha Dahana (cauterization).				
	d. <i>Vandhya karana</i> (Sterilization) – Tubectomy & Vasectomy.				
	e. Udaramarga Garbhashaya Nirharana (Abdominal hysterectomy).				
	f. Yonimarga Garbhashaya Nirharana (Vaginal hysterectomy).				
	g. Arbudanirharana (Myomectomy).				
	h. Granthinirharana (Cystectomy).				
	i. Arshanirharana (Polypectomy).				
26	Stree Roga Sambandhi Aushadhi- Classical Formulations	3	1	1	0
	a. Vishista-Phalashruti (Specific indication) of following formulations -				
	b. Churna Kalpana - Pushyanuga Churna, Shatpushpa Churna, Shatavari Churna, Nagakeshara Churna.				
	c. Ghrita Kalpana - Phalaghrita, Kashmaryadi Ghrita, Vidaryadi Ghrita.				
	d. Taila Kalpana - Dahtakyadi Taila, Shatpushpa				

	Taila, Jatyadi Taila, Narayana Taila.					
	e. Asava and Arishta - Ashokarishta, Kumaryasava.					
	f. Rasa aushadhi - Rajahpravartini Vati, Pratapalankeshwar Rasa, Garbhapala Rasa, Pushpadhanva Rasa.					
	g. Kwatha - Nyagrodhadi kwatha, Dashmoola Kwatha, Panchavalakala Kwatha.					
	h. Paka Kalpana - Sobhagya Shunthi Paka, Puga Khanda/ Puga Paka.					
	i. Avaleha - Jeerakavaleha, Kushmandavaleha					
27	National Maternal Health Programs	3		1	2	0
	a. Family planning.					
	b. Reproductive and Child Health					
	c. 'Janani Suraksha Yojana'					
	d. 'Janani Shishu Suraksha Karyakram'					
	e. 'Pradhan Mantri Surakshit Matritva Abhiyan'					
	f. 'Mission Indradhanush'					
	g. 'Menstrual Hygiene Scheme'					
	h. 'LaQshya programme'					
28	Medical ethics, Record keeping and Audit in Obstetrics and Gynaecology	3		1	1	1
	a. Medical ethics.					
	b. Medical record documentation – Informed Consent, Birth & Death registration, Issuing Medical Certificate					
	c. Audit in Obstetrics and Gynaecology.					
Tota	l Marks		100	50	26	61

Paper 1	Paper 1 (PRASUTI TANTRA - OBSTETRICS)											
A3 Cour se out come	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type		
Topic 1	'opic 1 Stree Vishishta Shareera Vigyana - Anatomy of Female Reproductive System (LH :3 NLHT: 2 NLHP: 4)											
A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3		
CO1	Explain the origin of the word " <i>Stree</i> " with nomenclature and classification based on age ( <i>Vayobhedena Stree Sangya</i> ).	СК	МК	K	L&PPT	VV-Viva	F&S	Ι	-	LH		
CO1	Demonstrate the anatomy of female reproductive organs - Tryavarta Yoni, Garbhashaya, Stree vishista Marma & Peshi.	САР	MK	SH	D,D-M	PP-Practica l,P-VIVA,V V-Viva	F&S	Ι	-	NLHP1.1		
CO1	Enumerate and describe Stree vishista Rachana Shareera -Tryavarta Yoni, Garbhashaya, Stree vishista Marma and Peshi.Describe Artava vaha srotas and Stanya vaha srotas with Viddha Lakshana.	CC	МК	K	L&PPT	S-LAQ,P- VIVA	F&S	Ι	-	LH		
CO1	Demonstrate the spatial orientation and positioning of the female reproductive organs within pelvic cavity and role of ligaments.Demonstrate Blood supply to the Uterus, Adnexa and Pelvic floor.	САР	МК	SH	D-M,D	P-EXAM	F	Ι	-	NLHP1.2		
CO1	Describe external genital organs and Internal genital organs with applied clinical aspects.	CC	MK	K	L&PPT ,CBL	P-VIVA,IN T,P-EXAM ,S-LAQ	F&S	Ι	-	NLHT1.1		
CO1, CO4	Demonstrate landmarks of true pelvis, false pelvis, inlet, cavity, outlet with diameters of Obstetric importance and their measurements.	CAP	MK	SH	D-M	P-MOD,V V-Viva,P- VIVA	F&S	Ι	-	NLHP1.3		

CO1	CO1 Describe <i>Stree Shroni - Asthi, Sandhi, Parimana and</i> highli difference with <i>Purusha Shroni</i> .			CC	МК	К	L&PPT	S-LAQ,VV -Viva,P-VI VA,P- MOD	F&S	Ι	-	NLHT1.2		
CO1, CO4	Classif clinical	y Female Pelvis. Describe Obstetric measurements importance.	with	CC	МК	КН	L&PPT	VV-Viva,P- VIVA,S- LAQ	F&S	Ι	-	LH		
Non Lecture Hour Theory														
S.No Name of Activity				Description of Theory Activity										
NLHT 1	1.1	Anatomy of female genital organs	<ul> <li>(1 hr)</li> <li>Teacher will demonstrate</li> <li>Normalcy and abnormalities in Female external genital organs - vulva, labia majora, labia minora, clitoris and vestibule with videos or images and explain clinical importance.</li> <li>Normalcy and abnormalities in internal female genital organs - vagina, cervix, uterus, fallopian tub and ovaries with videos or images and explain clinical importance.</li> <li>Encourage students to relate anatomical positioning to clinical conditions.</li> </ul>								minora, opian tubes			
NLHT 1.2       Asthi, Sandhi and Parimana of Stree Shroni				er will der <i>in Stree S</i> <i>is - Tunna</i> ss Angula	nonstrate hroni - Gu sevani and Parimana	da, Bhaga, <i>Samudga</i> with comp	, Nitamba, in <i>Stree Sl</i> parative stu	Trika, Shronip <i>hroni.</i> dy of <i>Purusha</i>	bhalaka. 2 Shroni.					
Non Le	ecture H	lour Practical	_1											
S.No	S.No Name of Practical				Description of Practical Activity									
NLHP 1	NLHP 1.1 Tryavarta Yoni (1 hr)													

Teacher will orient students on anatomy of female reproductive system and demonstrate anatomical co-relations of Tryavarta yoni on model -A) 1. vagina with adnexal structures 2. cervix with adnexal structures 3. uterus with adnexal structures B) 1. introitus 2. mid-canal 3. fornices C) 1. Thick connective and fibrous layers separating vaginal canal from urinary bladder and urethra anteriorly & rectum and anus posteriorly. 2. Muscular layer 3. Mucous layer D) 1. External genitalia 2. Vagina 3. Uterus with adnexa E) 1. Submeatal sulcus 2. Transeverse vaginal sulcus 3. Bladder sulcus Locate Garbhashaya on model and understand with respect to description given by Acharya Sushrut and Kashyap. Locate Stree Vishista Peshis and marmas on model and understand their importance. Divide students into small groups and student will immitate the demonstration -Provide each group with anatomical models of the female reproductive system - uterus with adnexa models. Students will identify and demonstrate structures namely Avarta of Yoni, Garbhashaya, and marma,

		stree vishista peshi and srotas.
NLHP 1.2	Spatial orientation and Blood supply of uterus and adnexa	<ul> <li>(1 hr) Teacher will use anatomical models to demonstarte - Blood supply to the uterus, ovaries, and fallopian tubes. Detailed structure of the pelvic floor muscles and their clinical importance. Ligaments and their role in pelvic support. Group Activity - Divide students into small groups, Provide each group a pelvic model and chart showing the vascular and ligamentous connections. Instruct groups to debrief - the arterial and venous supply to the uterus and adnexa. Identify the spatial orientation of pelvic organs in relation to each other. Spatial Orientation Exercise - Use cross-sectional images or models to demonstrate how reproductive organs are positioned within the pelvic cavity. Students will practice positioning models accurately to demonstrate version and flexion of uterus.</li></ul>
NLHP 1.3	Female bony pelvis	<ul> <li>(2 hrs) Teacher will demonstrate on bony pelvis model - Boundaries of True &amp; false pelvis. Dimensions of the pelvic inlet - Plane, Axis, Antero-posterior diameter, Oblique diameter, Transverse diameter. Dimensions of Mid-Cavity - Axis, Diameter, Boundaries and Plane. Dimensions of Outlet - Antero-posterior diameter, Transverse diameter, Pubic arch angle, Waste space of Morris. Pictorial Demnstration of types of pelvis - Gynecoid, Android, Anthropoid and Platypelloid. The student will imitate demonstration on model, describe the importance of obstetric diameters.</li></ul>
Topic 2 Rutu	chakra - Menstrual Cycle (LH :1 NLHT: 4 NL	LHP: 1)

A3		B3		C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO2	Define Shuddh	Raja, Artava, Shukra. Describe Shuddha Artava & a Shukra Lakshanas with clinical significance.	<i>a Artava &amp;</i> Ficance.		MK	K	L&GD	VV-Viva	F&S	Ι	-	NLHT2.1
CO1	D1 Explain the role of <i>Tridosha</i> and <i>Panchamahabhoota</i> in <i>Rutuchakra</i> (Menstrual cycle)		CC	MK	К	L&GD	VV-Viva	F&S	Ι	-	NLHT2.2	
CO1	CO1 Explain the phases of the menstrual cycle and the role of hypothalamo-pituitary-ovarian axis in its regulation.			CC	МК	К	L&PPT	VV-Viva,S- LAQ,P- VIVA	F&S	I	-	LH
CO1	CO1 Explain physiology of Menstruation and phases of Menstrual cycle.		CAP	МК	К	FC	CL-PR,VV- Viva,P- VIVA	F&S	Ι	-	NLHT2.3	
CO1	CO1 Demonstrate dietary recommendations and other practices with potential health benefits of <i>Rajaswala Paricharya</i> .			САР	MK	КН	D,RP	VV-Viva	F&S	Ι	-	NLHP2.1
CO1	O1 Describe Rutumati Lakshana and Paricharya.			САР	МК	К	L&GD, DIS,PE R	VV-Viva,C L-PR,PRN	F&S	Ι	-	NLHT2.4
Non L	ecture H	Iour Theory										
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
NLHT 2.1       Concept of Raja, Artava and Shukra.       (1 hr)         Teacher will facilitate presentation, discussion and clarification of the concept, dividing students in small groups and assign each group with one of topics - 'Raja, Artava and Shukra'.       Teacher will ensure discussion of Shuddha Artava & Shuddha Shukra Lakshanas and their clinical significance.         Peer discussion on the concept of Stree Shukra followed by interaction with students.       Peer discussion on the concept of Stree Shukra followed by interaction with students.								tudents into ir clinical				

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NLHT 2.2	<i>Tridosha</i> and <i>Panchamahabhuta</i> in <i>Rutuchakra</i> .	(1 hr) Teacher will give presentation and have discussion with students, on Gunas of Tridosha and Panchamahabhut in correlation with different phases - Rajasrava Kaala, Rutukala and Rutu Vyateeta Kala with focus on physical, mental, and emotional manifestations. Students will have discussion on cases of irregular menstrual cycles and abnormal menstruation with respect to imbalance of Doshas, Mahabhutas and Gunas involved.
NLHT 2.3	Physiology of Menstruation.	(1 hr) Flipped Classroom - Students will review reading material before class and during class-presentation they will create flow chart / present with diagrams of hormonal regulation of different phases of menstrual cycle followed by peer discussion. Teacher will encourage students to analyze different case scenarios of menstrual irregularities and identifying which phase of the menstrual cycle is affected and how the HPO axis dysfunction contributes.
NLHT 2.4	Importance of <i>Rutukala</i>	<ul> <li>(1 hr)</li> <li>Teacher will discuss the significance of <i>Rutukala</i> with physiology of Ovulation.</li> <li>Explain <i>Rutumati Lakshana</i> and enumerate <i>Rutumati Paricharya</i> (practices to be followed) for successful conception &amp; the process of <i>Beeja Nirmana</i> (gamete formation-spermatogenesis and oogenesis) in Ayurveda and contemporary science.</li> <li>Class presentation by students on spermatogenesis and oogenesis followed by peer discussion.</li> </ul>
Non Lecture I	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 2.1	Rajaswala paricharya	(1 hr) Teacher will discuss and analyze role of various components - <i>Ahara, Vihara</i> and <i>Sadvrutta</i> of <i>Rajaswala Paricharya</i> through role play & Interaction. Student will demonstrate and explain the benefits of dietary recommendations with analysis of

	techni Rajas	ques that l wala Parie	help to bala charya (me	ance Vata enstruating	<i>dosha</i> durin women).	ng menstruatio	on aligning	with re	ecommend	ations in			
Topic	Topic 3 Garbha Vigyana - Embryology & Fetal Development (LH :4 NLHT: 4 NLHP: 4)												
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3			
CO1	Define <i>Garbha</i> and explain the process of <i>Garbhadhana</i> (conception) and <i>Garbhavakranti</i> (chronological evolution of <i>Garbha</i> ), describe <i>Garbha-kara shad-bhavas</i> (factors influencing development and traits of fetus).	CC	МК	КН	L&GD, PER,FC	S-LAQ,T-O BT,CL-PR, P-REC,P- VIVA	F&S	I	-	NLHT3.1			
CO1	Explain the importance of pre-conception care and factors promoting conception.	САР	MK	KH	L&PPT	S-LAQ,VV- Viva	F&S	Ι	-	LH			
CO1	Explain significance of <i>Garbha Samskara</i> and <i>Pumsavana</i> <i>Samskara</i> for achieving <i>Shreyasee-Praja</i> - Fetal optimisation (physical, mental and emotional development of fetus).	CAP	MK	K	CBL,SI M,RP,D ,W	P-PRF,VV- Viva,S- LAQ,P-EN	F&S	Ι	V-SW	NLHP3.1			
CO1	Describe the formation and functions of <i>Apara</i> (placenta with membranes), <i>Garbha Nabhinadi</i> (umbilical cord), and <i>Garbhodaka</i> (amniotic fluid)	CC	МК	K	L&PPT	VV- Viva,QZ ,S- LAQ	F&S	Ι	-	LH			
CO1	Describe <i>Apara, Nabhinadi</i> and <i>Garbhodaka Vikaras</i> (abnormalities of placenta, umbilical cord and amniotic fluid) with clinical significance.	CAN	МК	K	D-M,C D,CBL, PBL,LR I	P-PS,S-LA Q,P-ID,VV- Viva	F&S	Ι	-	NLHT3.2			
CO1	Describe <i>Garbha Vriddhikara Bhava</i> (factors affecting fetal growth) and <i>Garbha Poshana</i> (mechanisms of fetal nourishment). Illustrate fetal circulation along with utero- placental and feto-placental circulation.	CC	MK	K	L&PPT ,D- M,D,FC	M-CHT,V V-Viva,CO M,QZ ,S- LAQ	F&S	Ι	-	NLHT3.3			
CO1	Explain Masanumasika Garbha Vriddhi (Month wise fetal growth	CC	MK	K	PER,L_	P-REC,S-L	F&S	Ι	-	NLHT3.4			

	and dev	elopment)					VC,D- M	AQ,COM,P A				
CO1	Explain Garbhashayantara Garbha Sthiti.			CC	MK	К	L&PPT	P-MOD,S- LAQ,P-PR F,VV-Viva	F&S	Ι	-	LH
CO1, CO4	, Demonstrate Garbhashayantara Garbha Sthiti (fetus -in utere		ro).	PSY- SET	МК	SH	CBL,D, CD,D- M,D- BED	VV-Viva,P- EXAM,P-V IVA,OSCE, P-PRF	F&S	Ι	-	NLHP3.2
CO1, CO4	Describe fetus-in-utero - Lie, attitude, presentation, presentin part, denominator and position.		ng	CC	МК	K	L&PPT ,D-M	P-MOD,OS CE,VV-Viv a,S-LAQ	F&S	Ι	-	LH
Non Lecture Hour Theory												
S.No		Name of Activity	Descri	ption of	Theory A	ctivity						
NLHT 3.1		Garbha and Garbhavakranti	(1 hr) Student will present and discuss <i>Garbha Kara Shad Bhavas</i> in conception and guidelines of <i>Garbhadhana Vidhi</i> during classroom presentation with flow charts. Teacher will explain components of <i>Garbhavakranti</i> with applied clinical aspects - <i>Anupahata Retus</i> , <i>Apradushta Yoni</i> , <i>Shonita and Garbhashaya</i> .									
NLHT 3.2		<i>Apara, Nabhinadi</i> and <i>Garbhodaka</i> <i>Vikaras</i> (abnormalities of placenta, umbilical cord and amniotic fluid) with clinical significance.	(1 hr) Teacher will demonstrate abnormal conditions related to following, on models / charts / specimen / clinical case / videos -									
			1. Placenta - formation, location, shape, size and implantation,									

		2. Umbilical cord - structure, characteristics, length and attachment,		
		3. Amniotic fluid – volume and colour		
		Student will be given case scenarios to discuss clinical consequences and strategies to improve pregnancy outcome.		
NLHT 3.3	Garbha Poshana (fetal nourishment) and Garbha Vridhhikara Bhava.	( <b>1 hr</b> ) Flipped class - Students will be encouraged to review the literatures related to different methods of <i>Garbhaposhana (Upasneha, Upasweda</i> ,through <i>Nabhinadi</i> ) during different stages of intra uterine development with utero- placental and feto-placental circulation and make compilation. Teacher will summarize concepts of <i>Garbhaposhana</i> with theories of <i>Upasneha, Upasweda, Apara</i> and <i>Garbha Nabhinadi</i> (fetal Circulation) with utero- placental and feto-placental circulation and discuss the importance of <i>Garbha Vriddhikara bhava</i> (factors affecting fetal growth).		
NLHT 3.4	Month wise fetal development	<ul> <li>(1 hr) Teacher will explain the stages of <i>Masanumasika Garbha Vriddhi</i> - month wise developement of fetus and demonstrate on model/ videos/ charts/ specimen.</li> <li>Student will analyze the mile-stones of fetal developement and recite the shlokas of <i>Masanumasika Garbha Vriddhi</i>.</li> <li>Teacher will assign compilation work to students.</li> </ul>		
Non Lecture H	Iour Practical			
S.No	Name of Practical	Description of Practical Activity		
NLHP 3.1	Garbha Samskara and Pumsavana Samskara.	(2 hrs) Activity 1 (Garbha samskara) - Teacher will discuss the process and practices of <i>Garbha Samskara</i> for achieving <i>Shreyasee-Praja</i> and		

		orient students to Pre-Conception and Pre-natal care. Discuss and provide clinical exposure to <i>Garbha Samskara</i> Practices - <i>Beejasamskara</i> (Preconceptional <i>Samsodhana</i> therapy) and special diet indications viz <i>Taila, Masha</i> to female and <i>madhura ousadha sidhha Ghrita, Ksheera</i> to male. Equip students with skill to advice couple desiring healthy progeny through garbhasamskara programme viz Dietary recomendations - <i>Garbhini Masanumasika pathya</i> (monthly regime). Prenatal <i>Yoga and Pranayam</i> : <i>yoga</i> postures and breathing techniques designed to promote physical and mental well-being during pregnancy under supervision of yoga instructor. Meditation and Chanting: meditation or chanting practices. Activity 2 ( <i>Pumsavana</i> samskara for achieving <i>Shreyasee-praja</i> ) - Teacher will explain the ritual of <i>Pumsavana Samskara</i> for achieving <i>Shreyasee-praja</i> . Demonstrate process of drug collection, ritual with time, preparation and procedure of administration indicated (nasally or orally), followed by the chanting of specific mantras. Student will observe and discuss the process and benefits.								
NLHP 3.2	Fetus-in-utero	<ul> <li>(2 hrs)</li> <li>Teacher will demonstrate with help of female pelvis and fetal skull/ model and dummy of fetus - Fetal Lie - longitudinal, transverse, oblique</li> <li>Fetal Attitude - flexed, deflexed, extended and hyper-extended</li> <li>Fetal Presentation - cephalic, breech, shoulder</li> <li>Fetal Presenting part - vertex, brow, face, mentum, breech, foot, compound</li> <li>Fetal Position - Occiput Anterior, Occiput Posterior, Left Occiput Anterior, Left Occiput Posterior,</li> <li>Right Occiput Anterior, Right Occiput Posterior, Left Occiput Transverse, Right Occiput Transverse.</li> <li>Denominator - Occiput, Mentum, Sacrum, Acromion.</li> <li>Student will practice the components of fetus in utero and demonstrate denominator and its relation</li> <li>with various quadrants of pelvis in determining fetal position.</li> </ul>								
Topic 4 Garbhini Vigyana - Physiology of Pregnancy & Antenatal Care (LH :3 NLHT: 3 NLHP: 8)										
A3	B3	C3	D3	E3	F3	G3	Н3	13	К3	L3
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CO1	Explain the physiological changes during pregnancy and discuss maternal adaptations.	CC	МК	K	L&PPT	COM,S-LA Q,VV-Viva ,P-VIVA	F&S	Ι	-	LH
CO1	Explain Garbhini Nidana and analyze Sadyogruhita Garbha, Vyakta Garbha Lakshanas, and the Clinical diagnosis of pregnancy in the first, second, and third trimesters based on signs and symptoms.	САР	МК	КН	REC,L &PPT ,CD	VV-Viva,S- LAQ,P-RE C,P-VIVA, P-CASE	F&S	I	-	NLHT4.1
CO1	Identify and demonstrate pregnancy signs - Trimester wise.	САР	МК	КН	D-M,C D,D-BE D,SIM, L_VC	P-VIVA,SP ,OSCE	F&S	Ι	-	NLHP4.1
CO1	Describe Garbhopaghatakara Bhava and Garbha Vikruti.	CC	MK	K	L&GD, CBL	VV-Viva,C BA,INT	F	Ι	-	NLHP4.2
CO1	Describe Masanumasika Garbhini Paricharya and importance of Garbha Sthapaka Gana.	CC	MK	K	L&PPT	P-VIVA,S- LAQ	F&S	Ι	-	LH
CO1	Describe Antenatal care as per National protocol.	CC	МК	K	L&PPT	P-VIVA,P- CASE,SP,S -LAQ,VV- Viva	F&S	Ι	-	LH
CO1, CO4	Screen & identify high risk pregnancy.	САР	МК	КН	D-BED, DIS,L& PPT ,CBL,C D	VV-Viva,S BA,P- VIVA,CBA	F	Ι	-	NLHT4.2
CO1,	Demonstrate Obstetric history taking and perform Antenatal	PSY-	MK	SH	SIM,CB	P-EXAM,S	F&S	Ι	-	NLHP4.3

CO4	Examin	ation.		GUD			L,D-M, D-BED, CD	P,VV-Viva, P-VIVA,P- MOD				
CO1, CO5	CO1, Enlist routine investigations in pregnancy and know the role CO5 Ultra sound in pregnancyBe familiarized with special diagno aids in pregnancy viz, double marker, triple marker, quadrup marker and Nonstress test.Analyze the provisions and limitar of PC PNDT act.		of ostic ble tions	CAN	МК	КН	LRI,CD ,D-BED ,L&GD, PBL	VV-Viva,C BA,P- VIVA,SBA	F&S	Ι	-	NLHP4.4
CO1, CO5	CO1, Describe demographic statistics related to obstetrics - Materr CO5 Mortality Rate, Maternal Morbidity, Infant Mortality Rate.		nal	CC	MK	K	L&PPT ,BS	VV-Viva,C L-PR	F	Ι	-	NLHT4.3
Non Le	ecture H	Iour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT 4	NLHT 4.1     Garbhini Nidana: Diagnosis of pregnancy				blain <i>Garbi</i> signs and s te shlokas	<i>aini Nidan</i> symptoms and analy:	<i>a</i> based on related to o ze the diag	Sadyogruhita diagnosis of pr nosis of pregna	<i>Garbha</i> an egnancy in ancy based	nd <i>Vyak</i> 1 first, s 1 on clin	ata Garbha becond and nical findir	<i>a Lakshanas.</i> third ngs.
NLHT 4.2       High Risk Pregnancy       (1 hr)         Teacher wil       like multiple         for timely re       Students wit					cuss the ala station, pre al to appro ve peer dis	arming sig gnancy ind priate high cussion ab	ns and met duced hype her health c bout high ri	hods of screen ertension, elder eare facility. sk pregnancy o	ing and id ly primigr cases.	entifyir avida, ş	ng high risl gestational	k pregnancy diabetes etc.
NLHT 4	NLHT 4.3 Demographic Statistics in Obstetrics (1 Te ot				ilitate the s ernal Morta	tudents w lity rate, l	ith credible Maternal M	e sources on cu lorbidity and I	rrent demo nfant Mort	ographi ality ra	c statistics te.	related to

		Students will discuss the factors contributing to the statistical data (e.g., socioeconomic factors, healthcare access). Recent trends and initiatives to address issues related to ststatistics.
Non Lecture	e Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 4.1	Clinical Diagnosis of pregnancy	(2 hr) Teacher will demonstrate physical signs - Jacqemier's or Chadwick's, Osiander's, Goodell's, Hegar's, Piskack's and Palmer's signs, Chloasma, Montgomery's tubercle, Linea nigra, Stria gravidarum, Braxton-hicks contractions during clinical demonstration / demonstration on models and simulators/ Videos. Student will explain trimester wise signs of pregnancy.
NLHP 4.2	Garbha Vikruti	(1 hr) Teacher will explain <i>Garbha Upaghatakara Bhava</i> with effect on fetus. Students will be given case scenarios involving fetal deformities to analyze the possible <i>Garbha Upaghatakara Bhava</i> -maternal lifestyle, diet, stress and environmental exposure and discuss preventive measures.
NLHP 4.3	Antenatal History taking and Examination	(4hrs) Teacher will orient students to develop communication skill, identify risk factors, plan investigations and give appropriate advice for Antenatal cases.
		A. History taking in Pregnancy -
		1. Patient particulars

2. Chief complaints - Complaints, their onset in chronological order (e.g complaint	s like Pain
abdomen / Vaginal bleeding / Urinary problems / other minor complaints)	

- 3. History of present illness: Elaboration of the chief complaints as regard to their onset, duration, severity, use of medications, investigations & progress. Trimester wise complications if any.
- 4. Past Pregnancy and Obstetric History : Gravida , Parity, Abortion, high risk pregnancy, Ectopic, Twins, mode of previous delivery ,Intrapartum complications, Post partum heamorrhage, Fetal morbidity, Fetal Death,

5. Menstrual History: Menarche (age), Last Menstrual Period (LMP), Regular /Irregular cycles

6. Naegele's formula - calculate Expected Date of Delivery (EDD)

7. History of Medications, Surgeries, Allergies

8. Family history : Parents & First degree relatives with a condition such as Diabetes, Multiple pregnancy, consanguineous marriage, bleeding dyscrasias, birth defects.

9. Personal History : Smoking, sleep, appetite , bowel & bladder habits.

B. Examination (on models / clinically)

- 1. General appearance and parameters viz, Height, Weight, Pallor, Jaundice, Oral cavity, Hair, Neck, Lymph nodes, edema, Varicosities, BP, Pulse, Temperature
- 2. Breast examination :Patient reclining, arms to the sides, breasts are inspected and palpated with flat of fingers of both hands
- 3. Systemic Examination: Respiratory system respiratory rate, Inspection & Auscultation of the

chest

Cardiovascular system : Inspect the chest , Auscultate heart sounds

4. Obstetric Examination

Pre-requisites: Verbal consent, Bladder evacuation, Proper exposure of abdomen from Xiphisternum to symphysis pubis Woman in dorsal posture with thighs & knees slightly flexed Stand on right side of the patient Woman's head should be tilted to the left side

a. Inspection: Uterine shape, Contour of Uterus

Skin condition: Presence of Linea nigra, Striae gravidarum, presence of scar mark, infection

b. Palpation: Height of the uterus in terms of weeks

Symphysis - fundal height in cm to be measured with measuring tape. Obstetric grips (Leopold's maneuvers) - Hands on practice on the manikin/real cases

i. Fundal grip

			ii. Lateral or Umbilical grip									
			iii. First pelvic grip iv. Second pelvic grip (Pawlik's grip)									
			c	e. Ausculta	ation of Fe	tal Heart S	Sound (FHS	5)				
			C. Case writing in prescribed journal proforma									
NLHP 4.4       Investigations in pregnancy				er will ela DT act. e & Interp r and Non onography ancy scan, owth scan at can inter	borate plar oret routine stress test v - Indication Nuchal Tr in third tr rpret vario	aning rout and speci with appro ons and in anslucenc imester. us normal	ine and spectral investigation opriate time terpretation y Scan (NT and abnorm	cial investigati ations viz, dou of advice. of USG paran ), Targeted im nal investigation	ons in pre ble marker neters dur aging for on reports.	gnancy r, triple ing preg fetal an	with prov marker, q gnancy. Ea omaly (TI	isions of PC uadruple urly FFA) scan
Topic 5	5 Garbl	na Vyapad - Fetal Pathologies (LH :4 NLHT:	4 NLH	<b>IP: 7</b> )								
A3		B3		C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO1 Define Garbha Srava and Garbha Pata. Explain Nidana, Samprapti, Lakshana, and Chikitsa.				CC	MK	K	L&PPT	P-REC,S- LAQ	F&S	II	-	LH
CO1, Define Abortion and describe classification with aetiological CC MK K						DIS,LRI	P-VIVA,S-	F&S	Π	-	NLHT5.1	

CO5	factors, clinical features, and investigations with medical and surgical management.				,L&PPT ,CD,CB L	LAQ,P-CA SE,VV- Viva,CBA				
CO1, CO5	Demonstrate Dilatation & Curettage (D & C), Provisions of MTP act.Demonstrate cervical encirclage procedure (McDonald and Shirodkar procedure)	САР	DK	КН	L_VC,C BL,D	VV-Viva, C -VC,CBA,S- LAQ	F&S	Π	-	NLHP5.1
CO1	Elaborate Nidana, Samprapti, Lakshana and Chikitsa of Garbha Vyapad - Upavishtaka Nagodara, Linagarbha, Makkala, Jarayu dosha.	CC	МК	К	REC,L &PPT	S-LAQ,P-R EC,VV- Viva	F&S	II	-	LH
CO1	Define Intra Uterine Growth Restriction (IUGR). Enumerate aetiological factors, classification, clinical diagnosis, investigations & management.	CC	МК	К	L&PPT ,CBL,C D,LRI	P-VIVA,SP ,S-LAQ	F&S	II	-	NLHT5.2
CO1	Identify and explain etiology, clinical diagnosis, investigations & management of Intra Uterine Growth Restriction, Oligohydramnios and Polyhydramnios.	CC	МК	K	CD,D-B ED,CB L,L&PP T	CBA,VV-V iva,OSCE,P- VIVA	F&S	Π	-	NLHP5.2
CO1	Describe Gestational Trophoblastic diseases and Rh incompatibility - pathophysiology and prevention.	СК	DK	К	L&PPT	VV-Viva	F&S	П	-	LH
CO1	Identify Ectopic pregnancy. Explain causes, clinical features, differential diagnosis & management.	CC	МК	К	CBL,DI S,L&PP T	VV-Viva,P- VIVA,OSC E,S-LAQ	F&S	II	-	NLHP5.3
CO1	Describe Antarmruta Garbha – Nidana, Samprapti, Lakshana, Chikitsa.	СК	МК	К	L&PPT ,REC	P-VIVA,S- LAQ,P-RE C,T-OBT	F&S	II	-	LH
CO1, CO6	Describe Intrauterine fetal demise (IUFD) - Definition, causes, diagnosis, management & complications.	СК	МК	К	CBL,L &PPT , CD,DIS	P-VIVA,P- EXAM,SB A,S-LAQ,V	S	II	-	NLHT5.3

							,X-Ray	V-Viva						
CO1, CO6	CO1, Diagnose and plan management of Intrauterine fetal demise CO6			САР	МК	КН	CBL,X- Ray,PB L,SIM	PP-Practica l,P-VIVA,S BA,VV- Viva,CBA	F&S	II	-	NLHP5.4		
CO1	Explain	Rakta Gulma - differential diagnosis and managem	ent.	СК	NK	К	L&PPT	VV- Viva,INT	F	II	-	NLHT5.4		
Non Le	ecture H	lour Theory												
S.No		Name of Activity	Description of Theory Activity											
NLHT 5	5.1	Abortion	<ul> <li>(1 hr)</li> <li>Teacher will discuss classification of abortion with aetiological factors, clinical features, invest with medical and surgical management.</li> <li>Present case scenarios of abortion - threatened, inevitable, complete, incomplete, missed, septic habirtual abortion.</li> <li>Students will analyze the clinical features of given scenarios and discuss timely referral.</li> </ul>								nvestigations septic and			
NLHT 5.2       Intra uterine growth restriction       (1 hr) Teacher will discuss aetiological factors, classification, clinical diagnosis, Investigations & Management of IUGR as per gestational age. Students will have peer discussion of simulated cases / clincal cases.							&							
NLHT 5.3 Intra uterine fetal demise.				y will disc gement stra nts will ana s manager	cuss case s ategies alyse the c nent	cenario of linical fea	fetal demis tures, ident	se based on cli ify appropriate	nical featu e investiga	res ,inv	estigations	s and explain		

NLHT 5.4	Rakta Gulma	( <b>1hr</b> ) Teacher will discuss <i>Rakta Gulma</i> in terms of D <i>osha</i> , <i>Dushya</i> and clinical manifestations Students will differentiate conditions involving clinical features and underlying concept.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 5.1	Garbhashaya Mukha Vistrutikarana evam Garbhasaya Lekhana - Dilatation and Curettage Garbhashaya Greeva Samvrutikarana - Cervical Encirclage	( <b>3hrs</b> ) Teacher will explain Indications of Dilatation and Curettage (diagnostic/therapeutic), complications and it's management with video demonstration.
		a. Dilatation and Curettage in Abortion.
		Prerequisites – Provisions of MTP act. Steps –
		<ol> <li>History of presenting complaint - Details such as onset, duration and amount of bleeding, whether mild, moderate or severe.</li> <li>Examination</li> </ol>
		i. General examination: Assessment of general condition ii. Systemic examination: CVS, RS, NS & Breast examination. iii. Per abdomen examination

	iv. Per speculum examination and vaginal examination
	3. Investigations: Guided by clinical history & examination
	4. Differential diagnosis
	i. Intra uterine pregnancy
	ii. Abortion
	iii. Ectopic pregnancy
	iv. Molar pregnancy
	Case discussion - Clinical Case scenarios
	Observation of procedure –
	Pre-requisites- consent, pre-operative preparations, operation, post operation.
	b. Cervical Encirclage
	Enlist Indications and observe methods of cervical encirclage in pregnancy.
	Students will observe the procedure and analyze the type of abortion and discuss management.

NLHP 5.2	Intra Uterine Growth Restriction,	( 2 hrs)
	Oligohydramnios and Polyhydramnios	Teacher will demonstrate clinical examination and diagnosis of following conditions.
		a. Intra Uterine Growth Restriction
		1. Clinical examination - Per abdomen
		Essential points in Diagnosis
		Serial measurements of Symphysis Fundal Height (SFH) or Biometry
		Case demonstrations for normal growth vs restricted growth of fetus, assessment of amniotic fluid and management based on the gestational age.
		2. Ultrasonography – Amniotic Fluid Index / Fetal biomertry / Expected Fetal Weight
		<ol> <li>Discussion - Enumeration of various causes of Growth restrictions like, Maternal, Fetal &amp; Placental.</li> </ol>
		b. Oligohydramnios and Polyhydramnios
		Case / scenario-based discussion with explaination of aetiology, clinical diagnosis, investigations & management.
		Students will be engaged interpreting clinical examination, ultrasound findings and differential diagnosis with selection of approriate treatment.

NLHP :	5.3	Ectopic pregnancy	(1 hr) Teacher will present a case scenario of undiagnosed ectopic pregnancy (presenting with acute abdominal pain and bleeding p/v). Discussion on differential diagnosis, interpreting ultrasound findings, and selecting the appropriate treatment (medical vs. surgical).									
NLHP 5.4       Intrauterine Fetal Demise (IUFD)       (1 hr         Teac       discu         Clini       Role         X-ray       Invest         Court       Stude				er will pre s approach al findings f USG findings igations, n elling tech ats will hav	sent a case n to the cas nanagemen niques ve peer dis	e as below e as below at protocol cussion or	of third trin	nester of pregr blications kamination and	aancy with	absent	fetal mov	ements and
Горіс	b Garb	nini Vyapad - Minor Aliments and Major Diso	orders o	of Pregna	incy (LE	1 :6 NLH		IP: 0)				1
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1, CO3, CO6	Describ - Aruch	e Nidana, Lakshana, Chikitsa of Garbhini Vyapad i, Hrillasa,Chardhi, Vibandha.		CC	МК	K	L&PPT	S-LAQ,VV- Viva	F&S	II	-	LH
CO1, CO3, CO6Describe Nidana, Lakshana, Chikitsa of Garbhini Vyapad - Atisara, Arsha, Parikartika, Udavarta, Vaivarnya, Kandu, Kikkisa.		ikkisa.	CC	МК	K	DIS,L& PPT ,CBL	S-LAQ,VV- Viva	F&S	II	-	LH	
<ul> <li>CO1, Diagnose <i>Garbhini Pandu</i> - Anaemia in pregnancy, describe investigations and plan of management.</li> <li>CO6</li> </ul>		ie	CAN	МК	KH	CBL,IB L,LRI,D A,CD	P-VIVA,P- CASE,RK	F&S	II	-	NLHP6.1	

CO1, CO3, CO6	Diagnose <i>Garbhini Jwara</i> (fever in pregnancy) - clinical features, investigations and management protocol	CAN	МК	КН	DA,CD, CBL,LR I	VV-Viva,S- LAQ,P-CA SE,P-VIVA ,P-EXAM	F&S	II	-	NLHP6.2
CO1, CO3, CO6	Define Pregnancy-Induced Hypertension, Pre-Eclampsia and Eclampsia.Describe causative factors, clinical features, and management.	CC	МК	К	L&PPT	VV-Viva,S- LAQ	F&S	II	-	LH
CO1, CO3, CO6	Diagnose Pregnancy induced hypertension, pre-eclampsia and eclampsia with clinical features, examination and investigations.	CAN	МК	SH	TBL,RP ,CD,D- BED,L RI	S-LAQ,VV -Viva,SP,P M,P- EXAM	F&S	II	-	NLHP6.3
CO1, CO3, CO5	Describe Gestational diabetes, Thyroid dysfunction and HIV - in pregnancy	СК	DK	К	CBL,LR I,CD,L &PPT	VV-Viva	F	II	H-KC	LH
CO1, CO3, CO6	Describe <i>Bahu-Apatya</i> (Multiple pregnancy) - Causes, clinical findings, diagnosis and plan of management.	СК	DK	К	CBL,L &PPT	VV-Viva	F	II	-	LH
CO1, CO3, CO6	Diagnose <i>Yamala-garbha</i> (Twin Pregnancy) and describe varieties, etiology, lie, presentation, complications and management.	CAN	DK	K	D-BED, LRI,CD ,D- M,CBL	VV-Viva,P- EXAM,CB A,P- VIVA,SBA	F&S	II	-	NLHP6.4
CO1, CO3, CO5	Define Antepartum Hemorrhage (APH) and enumerate causes, classification, clinical features and management guidelines.	CC	МК	К	L&PPT ,CD,CB L	CBA,VV-V iva,SBA,S- LAQ	F&S	II	-	LH
CO1, CO3, CO5	Diagnose Antepartum hemorrhage - Placenta previa with clinical features and confirmation by ultrasound. Plan management with timely referral.	CS	МК	KH	D-BED, LRI,CD ,PBL,L	VV-Viva,P- ID,P-VIVA	F&S	II	-	NLHP6.5

CO1, CO3, CO5	Diagnos features knowled	e Antepartum hemorrhage - Abruptio placenta, clin , and confirmation by ultrasound. Plan managemen lge of the need for referral.	nical t with	CS	МК	КН	&PPT PBL,D- M,CBL, D,L&PP T	P-EXAM,P -VIVA,CO M,S-LAQ	F&S	П	_	NLHP6.6			
Non Le	ecture H	lour Theory					•								
S.No		Name of Activity	Descr	Description of Theory Activity											
Non Le	ecture H	our Practical	•												
S.No		Name of Practical	Descr	ription of	Practical	Activity									
NLHP (	6.1	Garbhini Pandu - Anaemia in pregnancy.	<ul> <li>(Ihr)</li> <li>Faculty will present a case of Anaemia in pregnancy and explain</li> <li>1. Symptoms exploration - Pallor, fatigability, breathlessness on exertion, giddiness, anore: tingling sensation in extremities</li> <li>2. Analysis of history - Obstetric history (Mupltiparity), Menstrual History(Abnormal Uter Bleeding), Contraceptive history &amp; Dietary history, bleeding piles etc</li> <li>3. Examination -</li> <li>A) General Examination - Record vitals</li> <li>B) Systemic Examination - CVS, Respiratory &amp; Nervous system examination</li> <li>C) Obstetric examination (e.gTwins &amp; multiple pregnancy)</li> <li>D) Investigations – to assess severity of Anaemia as mild ,moderate or severe</li> </ul>								anorexia, al Uterine				

		4. Plan Management as per the gestation ,severity & type of Anaemia
		Students will discuss the effects of Anaemia, clinical outcome and plan management as per severity and gestational age .
NLHP 6.2	Garbhini Jwara - fever in pregnancy.	<ul> <li>(1 hr) Teacher will present a case /scenario of Fever in pregnancy and explain</li> <li>1. Symptoms exploration - temperature, fatigability, giddiness, anorexia, dryness of mouth</li> <li>2. Examination -</li> <li>A) General Examination - Record vitals with temperature.</li> <li>B) Systemic Examination - CVS , Respiratory &amp; Nervous system examination</li> <li>C) Obstetric examination (to assure fetal wellbeing)</li> <li>D) Investigations - to assess the cause/aetiology of fever</li> <li>4. Plan Management as per the cause and severity.</li> <li>Student will have peer discussion and record the case in prescribed journal proforma</li> </ul>
NLHP 6.3	Hypertensive disorders in Pregnancy	<ul> <li>(1 hr)</li> <li>Teacher will demonstrate clinical features in pregnancy induced hypertension and pre-eclampsia.Plan investigations, management, anticipate complications and explain timely referral.</li> <li>Demonstrate approach to a pregnant or puerperal woman presenting with convulsions.</li> <li>Demonstration of Eclampsia drill.</li> <li>Students will analyse the diagnosis,plan primary care,document the case and importance of timely referral to higher centre for advance care.</li> </ul>
NLHP 6.4	Yamala-garbha - Twin Pregnancy (1 hr)	(1 hr) Teacher will demonstrate clinical diagnostic features, varieties, lie, presentation on manikin/ video/ clinical case . Discuss and Interpret investigation , understand possible care, complications and plan management in

		pregnancy and labour Student will imitate examination of Twin pregnancy on manikin and have peer discussion on Antenatal care
NLHP 6.5	Antepartum Hemorrhage -Placenta previa	(1 hr) Teacher will enable students to -
		1. Diagnose Antepartum hemorrhage - Placenta previa based on clinical features and confirmation by ultrasound.
		2. Identify the degree of placenta previa.
		3. Plan management, know the limitations
		4. Analyze need for referral to higher centre
		Teacher will analyse the diagnostic skill and preparedness of student
NLHP 6.6	Antepartum Hemorrhage - Abruptio placenta	( <b>1hr</b> ) Teacher will enable students to -
		1. Diagnose Antepartum hemorrhage - Abruptio placenta based on clinical features and confirmation by ultrasound.
		2. Identify the type of Abruptio placenta
		3. Plan management, know the limitations

Topic '	4. Analyze need for referral to higher centre Teacher will analyse the diagnostic skill and preparedness of student									
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO4	Describe Sutikagara nirmana and sangrahaneeya dravya.	СК	МК	K	L&PPT	S-LAQ,VV- Viva	F&S	Π	-	LH
CO3, CO4	Explain chemical composition, indication, contraindication, mode of action, dosage, shelf life, and complications of drugs commonly used during labour. Explain guidelines for use with pharmacotherapeutics.	СК	МК	K	DA,BL, L&PPT	VV-Viva	F	II	-	NLHT7.1
CO4, CO5	Visualize and Demonstrate Labour room set-up and labour room protocol according to National health Guidelines.	PSY- SET	МК	KH	DIS,D,F V,TPW, TBL	PA,VV- Viva	F&S	II	-	NLHP7.1
CO4, CO5	Define Prasava, explain Prasavahetu and Prasava kala.	СК	MK	K	L&PPT	VV-Viva,S- LAQ	F&S	II	-	LH
CO4, CO5	Describe causes of onset of Labour & narrate Physiology of Labour.	CC	MK	K	L&PPT	VV-Viva,S- LAQ	F&S	II	-	LH
CO4, CO5	Diagnose Labour - Identify true and false labour pain.	PSY- GUD	МК	SH	SIM,D- M,CBL, CD	CBA,VV-V iva,SBA,Mi ni-CEX	F&S	II	-	NLHP7.2
CO4, CO5	Describe anatomy of fetal skull with diameters, fontanelle, and importance in labour.	CC	МК	K	L&PPT	S-LAQ,VV- Viva	F&S	Π	-	LH

CO4	Demonstrate anatomy of fetal skull with diameters, fontanelle, and their obstetric importance.	PSY- GUD	МК	SH	D,D-M	P-MOD,V V-Viva	F&S	II	-	NLHP7.3
CO4, CO5	Define and explain the Avasthas - Prajayini, Upastitha Prasava, Asanna Prasava.	CC	МК	K	REC,L &PPT	P-REC,VV- Viva,S-LA Q,PP- Practical	F&S	II	-	LH
CO4	Assess adequacy of pelvis.	CE	МК	SH	D-M,X- Ray,D,S IM	OSCE,VV- Viva,P- PRF,SBA	F&S	II	-	NLHP7.4
CO4	Define Avi Shoola and Grahi Shoola. Explain Prasuti Maruta and Garbhastithi Parivartana during Prasavakala.	CC	МК	K	L&PPT	VV-Viva,S- LAQ	F&S	II	-	LH
CO4	Describe Stages of Labour.	CC	МК	K	L&PPT	S-LAQ,VV- Viva,COM	F&S	II	-	LH
CO4, CO5	Demonstrate events in each stage of labour.	PSY- GUD	МК	КН	D,D-BE D,SIM, CBL,FV	RK,VV-Vi va,CBA,P- VIVA,SP	F&S	II	-	NLHP7.5
CO4	Explain the Mechanism of labour.	CC	MK	K	L&PPT	S-LAQ,VV- Viva	F&S	II	-	LH
CO4	Demonstrate Mechanism of Labour	PSY- GUD	МК	SH	D,SIM, D-M	DOAP,VV- Viva,P-VIV A,P-MOD, S-LAQ	F&S	II	-	NLHP7.6
CO4	Describe Prasava Paricharya. Explain monitoring and	CC	МК	K	L&PPT	VV-Viva,S- LAQ,P- VIVA	F&S	II	-	LH

	management of all stages of labour.									
CO4	Explain the Importance of Partograph.	CC	MK	K	D,L&PP T	VV- Viva,CBA	F&S	II	-	LH
CO4	Monitor labour	CAN	МК	KH	CBL,D, FV,PT, SIM	P-PRF,P-VI VA,VV- Viva,SP	F&S	II	-	NLHP7.7
CO4	Monitor progress and manage stages of labour.	CAN	МК	КН	SIM,CD ,D-BED ,CBL,P T	VV- Viva,Log b ook,P-VIV A,OSCE,C BA	F&S	Π	_	NLHP7.8
CO3, CO4	Plot Partograph.	PSY- GUD	МК	SH	D,SIM, PT,D-M	S-LAQ,DO PS,P-PRF, RK,DOAP	F&S	Π	-	NLHP7.9
CO3, CO4	Demonstrate and practice Episiotomy on model and simulat	ion. PSY- SET	МК	SH	FV,D,D -M,L_V C,CBL	VV-Viva,P- PRF	F&S	Π	-	NLHP7.10
CO4	Demonstrate applications of Intrapartum fetal monitoring techniques.	PSY- GUD	МК	SH	CBL,L_ VC,D- M,FV,D	Log book,P -VIVA,VV- Viva	F&S	II	Н-КВ	NLHP7.11
CO4, Perform <i>Jatamatra Paricharya</i> CO5		PSY- GUD	МК	КН	D-BED, CBL,PT ,PBL,L_ VC	PP-Practica 1,VV-Viva, P-CASE,P- VIVA	F&S	Π	Н-КВ	NLHP7.12
Non Lo	ecture Hour Theory									
S.No     Name of Activity     Description of Theory Activity										

NLHT 7.1	Essential drugs for labour practice; as per National protocol.	<ul> <li>(1 hr) Teacher will explain chemical composition, indication, contraindication, mode of action, dosage, shelf life, route of administration, and complications of drugs commonly used during labour-a) uterotonics b) analgesics c) ergot alkaloids e) anaesthetics. Explain guidelines for use with pharmacotherapeutics. Student will discuss and analyze the drugs commonly used during labour.</li></ul>
Non Lecture H	lour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 7.1	Labour Room Setup	( <b>1hr</b> ) Teacher will make students familiarize with standards of Labour room set up and gain competency in labour room practice protocol according to National Health Guidelines. Student will get acquainted with the labour room set up and demonstrate functionality with respect to labour room practice protocols according to National Health Guidelines.
NLHP 7.2	Diagnosis of Labour	<ul> <li>(1hr)</li> <li>Teacher will equip students to develop clinical diagnostic skills in identifying true labour pains through case presentation and demonstration on model, simulator, clinical examination.</li> <li>Students will observe and imitate examination on model and explain the signs of true labour pains.</li> </ul>
NLHP 7.3	Fetal skull and labour	<ul><li>(1 hr)</li><li>Teacher will demonstrate anatomy of fetal skull with diameters and fontanelles, assessment of presenting part with discussion on obstetric importance.</li><li>Students will imitate demonstration of fetal skull on models and discuss its outcome on labour.</li></ul>

NLHP 7.4	Adequacy of pelvis	<ul> <li>(1 hr)         Teacher will demonstrate different scenarios regarding pelvic diameters and engaging diameter of fetal skull.         Clinical adequacy features of maternal pelvis through clinical pelvimetry and assess the presenting part.         Student will observe and imitate skills of pelvic assessment on model.     </li> </ul>
NLHP 7.5	Stages of Labour	<ul> <li>(3 hrs)         Teacher will equip students to develop clinical skill to identify stages of labour with discussion on duration and events of labour. Teacher will use video demonstration of stages of labour/ simulator/case based demonstration of labour process.     </li> <li>First stage: Assessment of cervical dilatation and effacement         Second stage: Status of membranes, descent of fetus, station of head, expulsion of fetus         Third stage: Signs of placental separation, expulsion of placenta, placenta and cord examination.         Students will observe and discuss events of each stage of labour alongwith duration and record in             prescribed journal proforma.     </li> </ul>
NLHP 7.6	Mechanism of Labour	<ul> <li>(2hrs)</li> <li>Teacher will demonstrate events in Mechanism of labour on model and simulator -</li> <li>Engagement, Descent, Flexion, Internal rotation, Crowning, Extension, Restitution, External rotation, Expulsion.</li> <li>Students will practice, demonstrate on model / simulator and explain each event in mechanism of labour.</li> </ul>
NLHP 7.7	Labour monitoring	<ul> <li>(1 hr)</li> <li>Teacher will demonstrate the factors of assessment</li> <li>A) Interval, intensity and duration of uterine contractions</li> <li>B) Cervical changes- dilatation, effacement, position, consistency.</li> </ul>

		<ul><li>C) Station of presenting part</li><li>D) Status of membranes &amp; Liquor Student will observe and document progress of labor in prescribed case proforma.</li><li>Students will obseve and document in prescribed journal proforma.</li></ul>
NLHP 7.8	Management of stages of labour	<ul> <li>(1 hr) Teacher will enable students to develop skill of management of labour. Steps of management of each stage beginning from observation, counseling, preparedness and implement action / intervention as needed.</li> <li>Students will demonstrate skills to identify the active stage and progress of labour with the steps of management.</li> <li>Record the findings in prescribed journal format.</li> </ul>
NLHP 7.9	Plot partograph	<ul> <li>(2 hrs)</li> <li>Teacher will enable students to monitor labour progress and plot partograph for proper management and timely intervention.</li> <li>Students will discuss the components of partograph - alert line, action line and other aspects and practice to plot.</li> <li>Teacher will evaluate and provide feedback.</li> </ul>
NLHP 7.10	Episiotomy	<ul> <li>(2 hrs)         Teacher will demonstrate Episiotomy on manikin and discuss types -Medial ,Lateral, Mediolateral &amp; J-shaped with administration of local anaesthesia.         Explain the merits and demerits of different types of incision.         Demonstrate repair in layers with suturing techniques.         Student will practice episiotomy on manikin and imitate repair Discuss possible complications, post repair assessment and plan perineal care.     </li> </ul>

NLHP 7	NLHP 7.11 Intrapartum fetal monitoring techniques			<ul><li>(1 hr)</li><li>Teacher will demonstrate with video / clinical case and interpret the result of Intrapartum fetal monitoring.</li><li>Student will discuss and analyse different techniques and its clinical importance.</li></ul>											
NLHP 7.12 Jata		Jatamatra Paricharya	(1hr) Teacher will demonstrate immediate newborn care on model / case Student will practice newborn resuscitation on model.												
Topic 8	8 Prasa	va Vyapad - Labour Complications & Obstetr	ic Emergencies	. (LH :6	NLHT:	2 NLHP:	4)								
A3		B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3				
CO4	Elabora <i>Chikitsc</i>	te - Paribhasa, Nidana, Samprapti, Lakshana and a of Akala Prasava (Preterm labour).	CC	МК	K	L&PPT	COM,VV- Viva,S- LAQ	F&S	III	-	LH				
CO4	Analyze	e management of preterm labour through observation	. CAN	МК	КН	PBL,CD ,CBL,D- BED	COM,S-LA Q,CBA,VV- Viva,SBA	F&S	III	-	NLHP8.1				
CO4	Explain	Pre-labour rupture of membranes (PROM)	CC	МК	КН	PBL,CB L,L&PP T ,CD	VV-Viva,C OM,S-LAQ	F&S	III	-	LH				
CO4	Elabora Chikitsa	te - Paribhasa, Nidana, Samprapti, Lakshana and a of Vilambita Prasava (Prolonged labour)	CC	MK	КН	L&PPT	VV-Viva,C OM,S-LAQ	F&S	III	-	LH				
CO4	Analyze (Prolon	e causes and plan management in <i>Vilambita prasava</i> ged labour)	САР	МК	К	L&PPT ,CD,PB L,CBL	S-LAQ,VV- Viva,CBA	F&S	III	-	NLHT8.1				

CO4	Elaborat	e Kalateeta Prasava and Postmaturity.		CC	МК	К	L&PPT ,CBL,P BL,CD	COM,S-LA Q,VV-Viva ,P-VIVA	F&S	III	-	NLHT8.2
CO4	Define F explain	Postpartum Hemorrhage.Describe classification and causes and clinical features.		CC	МК	K	L&PPT ,CBL	COM,S-LA Q,VV-Viva	F&S	III	-	LH
CO4	Describe haemorr	e complications and steps of management of postpar hage.	tum	CC	МК	K	L&PPT	VV-Viva,C OM,SBA,S -LAQ,P- VIVA	F&S	III	-	LH
CO4	Elaborat of Aparc	e Paribhasa, Nidana, samprapti, lakshana and chinasanga (Retained placenta)	kitsa	CC	МК	К	L&PPT	S-LAQ,CB A,VV- Viva,COM	F&S	III	-	LH
CO4	Demons Hemorrl	trate causes and clinical features of Postpartum nage (PPH).		САР	МК	КН	CBL,L &PPT , SIM,DI S,PBL	P-VIVA,PP -Practical,V V-Viva,S- LAQ,CBA	F&S	III	-	NLHP8.2
CO4	Demons	trate management of Retained placenta.		PSY- SET	МК	SH	CBL,C D,D-M	P-MOD,SB A,CBA,S-L AQ,VV- Viva	F&S	III	-	NLHP8.3
CO4 Practice steps of management under guidance, in Postpartum Hemorrhage (PPH).		n	PSY- GUD	МК	SH	D-M,C BL,SIM ,D,TBL	PP-Practica l,TR,COM, VV- Viva,Log book	F&S	III	-	NLHP8.4	
Non L	ecture H	our Theory	•									
S.No Name of Activity Description of Theory Activity												

NLHT 8.1	Prolonged Labour	<ul> <li>(1 hr) Teacher will demonstrate -</li> <li>1. Diagnosis of Prolonged Labour</li> <li>2. Analysis of cause</li> <li>3. Assessment of fetal wellbeing</li> <li>4. Anticipate complications</li> </ul>
		5. Plan management. Student will discuss diagnosis, possible complications and plan of management
NLHT 8.2	Postmaturity	<ul> <li>(1 hr) Teacher will demonstrate -</li> <li>1. Diagnosis of Post maturity</li> <li>2. Plan investigations</li> <li>3. Assessment of fetal wellbeing</li> <li>4. Anticipate complications</li> <li>5. Plan management</li> </ul>

	Student will discuss diagnosis, assessment methods, possible complications and plan of management.

## Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 8.1	Preterm labour	(1hr) Teacher will discuss the methods of determining gestational age ,assess established labor and propose plan of management Students will observe and document.
NLHP 8.2	Postpartum Hemorrhage	<ul> <li>(1hrs) Teacher will demonstrate - <ol> <li>Diagnosis of Postpartum hemorrhage.</li> <li>Analyze underling cause</li> <li>Assess the condition of patient and explain need of resuscitation.</li> </ol> Student will discuss causes of postpartum hemorrhage - Tone, Trauma, Tissue, Thrombin. Peer discussion on clinical findings to know the cause.</li></ul>
NLHP 8.3	Retained placenta	( <b>1hr</b> ) Teacher will demonstrate the signs of retained placenta and steps of management Student will observe, analyze the underlying cause and document
NLHP 8.4	Postpartum hemorrhage management.	( <b>1hr</b> ) Teacher will -

1. Demonstrate techniques for manual removal of the placenta and management of postpartum hemorrhage using simulation models.
2. Manage birth canal injuries.
3. Identification of Atonic uterus and demonstrate bimanual compression.
4. Demonstrate PPH (Postpartum Hemorrhage ) drill.
Students will participate in the drill and demonstrate management techniques.

## Topic 9 Moodhagarbha - Obstructed Labour (LH :8 NLHT: 3 NLHP: 6)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO4	Explain- Nirukti, Paribhasa, Nidana, Samprapti, Lakshana of Moodhagarbha.	CC	DK	К	L&PPT	COM,VV- Viva,S-LA Q,P-REC	F&S	III	-	LH
CO4	Elaborate Bheda, Gati and Chikitsa of Moodhagarbha.	CC	MK	К	L&PPT ,D-M	VV-Viva,C OM,S-LAQ ,P-REC	F&S	III	-	LH
CO4	Demonstrate Bheda and Gati of Moodhagarbha.	САР	MK	КН	D-M,L &PPT ,PrBL,D	VV-Viva,P RN,S-LAQ, P-MOD	F&S	III	-	NLHT9.1
CO4	Enumerate different types of abnormal presentations.	СК	DK	Κ	L&PPT	VV-Viva	F	III	-	LH
CO4	Demonstrate Assisted Breech delivery techinques.	PSY- SET	DK	КН	SIM,D- M,L_V C	P-MOD,V V-Viva	F	III	-	NLHP9.1

CO4	Describe Cephalopelvic disproportion (CPD)	CC	MK	K	L&PPT	VV-Viva,S- LAQ	F&S	III	-	LH
CO4	Diagnose Cephalopelvic disproportion (CPD).	CAN	MK	KH	SIM,D- M	VV-Viva,P- MOD	F	III	-	NLHP9.2
CO4	Describe Upadrava of Moodha garbha Garbhakosha Parasanga, Makkala and Yonisamvarana.	СК	МК	K	L&PPT	S-LAQ,VV -Viva,P- REC	F	III	-	LH
CO4	Demonstrate Upadrava of Moodha garbha - Garbhakosha Parasanga, Makkala and Yonisamvarana	CAP	МК	KH	CBL,L &GD	VV-Viva	F	III	-	NLHP9.3
CO4	Describe obstetric emergencies with causes, clinical features and complications - cord prolapse, uterine inversion, amniotic fluid embolism, obstetric shock and uterine rupture.	CC	DK	K	L&PPT ,CBL	VV-Viva	F	III	-	LH
CO4	Discuss causes, clinical features and findings of investigation in obstetric emergencies.	CC	DK	K	PSM,L_ VC,SIM ,D	INT,P-ID,V V-Viva	F	III	-	NLHT9.2
CO4	Describe Bishop's Score.Explain methods of induction and augmentation of labour.	CC	DK	K	L&PPT	S-LAQ,VV- Viva	F&S	III	-	LH
CO1, CO3, CO4	Explain -a. Indications, contraindications, procedure and complications of ventouse delivery.b. Indications, contraindications, procedure and complications of forceps delivery.c. Indications, types and procedure of caesarean section.	CC	МК	K	L&PPT ,FV	COM,VV- Viva,S- LAQ	F&S	III	-	LH
CO1, CO3, CO4	Calculate and Interpret Bishop's score.Demonstrate forceps application, vacuum extraction and Caesarean Section.Explain indications and complications for each mode of assistance.	САР	DK	KH	D-M,L_ VC,D	P-MOD,V V- Viva,COM	S	III	-	NLHP9.4
CO1, CO4	Demonstrate abnormal presentations - face, brow, shoulder	CAP	MK	КН	D-M,L &PPT	SBA,P-EX AM,VV-	S	III	-	NLHT9.3

		Viva									
Non Lecture	e Hour Theory										
S.No	Name of Activity	Description of Theory Activity									
NLHT 9.1	Moodhagarbha - Bheda and Gati.	(1 hr) Teacher will demonstrate <i>Bheda</i> and <i>Gati</i> of <i>Moodhagarbha</i> on model/manikin/3D. Students will compile and present <i>Moodhagarbha</i> with peer discussion.									
NLHT 9.2	Obstetric Emergencies	(1 hr) Teacher will demonstrate identification of obstetric emergency through examination and investigations. Plan mock Drill for timely referral to higher centers. Students will observe and participate.									
NLHT 9.3	Abnormal presentations – face, brow, shoulder presentations	(1 hr) Teacher will demonstrate abnormal presentations – face, brow, shoulder presentations on model/manikin/3D video/case. Student will practice abnormal presentations on model and discuss its outcome on labour.									
Non Lecture	e Hour Practical										
S.No	Name of Practical	Description of Practical Activity									
NLHP 9.1	Assisted Breech delivery.	(2 hrs) Teacher will demonstrate on manikin / model / with 3D video.									
		1. Clinical diagnosis of type of breech									

		2. Determining positions (L.S.A/R.S.A/R.S.P/L.S.P.)
		3. Preparedness
		4. Steps of assisted breech delivery
		Student will observe and analyze steps of breech delivery.
NLHP 9.2	Assesment of Cephalo-Pelvic Disproportion	<ul> <li>(1 hr)</li> <li>Teacher will demonstrate and guide student to assess cephalo pelvic disproportion by clinical assessment.</li> <li>Student will observe, discuss and emulate clinical examination to diagnose CPD.</li> </ul>
NLHP 9.3	Complications of Moodha Garbha	<ul> <li>(1 hr)</li> <li>Teacher will discuss the complications of obstructed labour and demonstrate outcomes-cervical dystocia and uterine rupture.</li> <li>Students will analyze the complications and discuss preventive strategies.</li> </ul>
NLHP 9.4	<ol> <li>Bishop's score and Induction/ Augmentation of Labour</li> <li>Assisted labour techniques</li> </ol>	<ul> <li>(2 hrs)</li> <li>1. Teacher will demonstrate components of Bishop's score on model / clincial case and interpret the score favourable for induction of labour and decide the method of induction.</li> <li>Student will observe and document the components of Bishop's score.</li> <li>2. Teacher will demonstrate assisted labour techniques namely forceps application, vaccum extraction, caesarean section through video /manikin / case.</li> <li>Students will observe and record in prescribed journal proforma.</li> </ul>
Topic 10 Soot	tika Vigyana - Puerperium (LH :3 NLHT: 1 N	LHP: 3)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO4	Define <i>Sootika</i> and explain <i>Sootika</i> <i>Kala</i> with <i>Paricharya</i> .Describe puerperial changes and explain post-partum care.	CC	MK	K	L&PPT ,REC	P-REC,S-L AQ,COM, VV-Viva	F&S	III	-	LH
CO4	Demonstrate clinical examination of a puerperal woman - abdominal, perineal, and breast.	PSY- GUD	МК	SH	CBL,D, D-BED, SIM,D- M	P-VIVA,P- CASE,VV- Viva	F&S	III	-	NLHP10.1
CO4	Describe Nidana, Samprapti, Lakshana, Bheda and Chikitsa of Sootika Vyapad.	CC	МК	K	PBL,CB L,L&PP T	S-LAQ,CO M,VV-Viva	F&S	III	-	LH
CO4	Explain causes, clinical features, management and complications of puerperal diseases.	CC	МК	К	DIS,CB L,CD,P BL,L&P PT	COM,S-LA Q,VV-Viva	F&S	III	-	NLHT10.1
CO4	Present case study on Sootika Vyadhi.	PSY- GUD	МК	SH	D-BED, SIM,CD ,PER,P BL	VV-Viva,C L-PR,P-CA SE,P-VIVA	F&S	III	-	NLHP10.2
CO4, CO5, CO6	Explain contraception and family planning methods.	СК	MK	K	L&PPT ,DIS	S-LAQ,VV- Viva,COM	F&S	III	-	LH
CO4, CO5	Justify selection of contraceptives with method and time of administration.	CE	МК	КН	DIS,TU T,D,D- M,SIM	VV-Viva,P- PRF,OSCE, PP- Practical	F&S	III	-	NLHP10.3

Non Lecture	e Hour Theory	
S.No	Name of Activity	Description of Theory Activity
NLHT 10.1	Puerperal diseases.	(1 hr) Teacher will describe and explain puerperal diseases and discuss plan of management. Student will analyze the causes of puerperal diseases and discuss preventive stragegies by implementation of <i>sootika paricharya</i> .
Non Lecture	e Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 10.1	Examination of a puerperal woman - abdominal, perineal, and breast.	<ul> <li>(1 hr) Teacher will -         <ol> <li>Demonstrate breast examination</li> <li>Demonstration of consistency and involution of uterus with other pelvic structures.</li> <li>Demonstrate perineal examination</li> <li>Explain characteristics of normal lochia.</li> </ol> </li> <li>Student will observe and practice abdominal examination on model / manikin. Student will record in prescribed journal proforma.</li> </ul>
NLHP 10.2	Sootika Vyadhi	(1 hr) Students will be divided into groups. They will record cases of <i>Sootika vyadhi</i> under guidance of teacher and present with peer discussion. Teacher will assess the skill of history taking, examination and provide feedback.
NLHP 10.3	Contraception	(1 hr)

	Teacher will discuss contraceptive methods.
	a. Temporary: Physical method/Oral contraceptives/Intra uterine contraceptive devices/ Emergency contraception.
	b. * Permanent methods. (* Details in Paper-II)
	1. Select ideal method of contraception
	2. Prerequisites for administration of contraceptives
	3. Demonstrate the method of use / administration
	Student will be given case scenarios to select appropriate contraceptive method with time of
	administration.

## Topic 11 Stanya Vigyana - Lactation (LH :2 NLHT: 2 NLHP: 2)

-										
A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO4	Explain <i>Stanya Utpatti</i> and describe <i>Stanya Sampat</i> <i>Lakshana</i> .Describe physiology of lactation and components of breast milk.	CC	МК	K	L&PPT	VV-Viva,S- LAQ	F&S	III	-	LH
CO4	Analyze Breast milk components and Learn breastfeeding techniques.	CAN	МК	KH	SIM,L& PPT	VV-Viva,S- LAQ	F&S	III	H-KB	NLHT11.1
CO4	Demonstrate breast feeding techniques.	PSY- GUD	МК	SH	RP,D-B ED,CB L	VV-Viva	F	III	-	NLHP11.1
CO4	Describe Nidana, Samprapti, Lakshana of Stanya	CC	МК	К	L&PPT	VV-Viva,S-	F&S	III	-	LH

	Dushti	and <i>Stana Vidradhi</i> .						LAQ				
CO4	4 Explain causes, clinical features, investigations and management o mastitis and breast abscess.			CC	МК	К	D,CD,D A,CBL, PBL	VV-Viva, C -VC,S-LA Q,P-CASE	F&S	III	H-SH	NLHT11.2
CO4 Diagnose Breast Engorgement, Mastitis, Breast abscess.				САР	МК	КН	D,CBL, CD,PBL ,D-BED	S-LAQ,P-C ASE,P-VIV A,P-ID,VV- Viva	F&S	III	H-SH	NLHP11.2
Non L	ecture H	Iour Theory					-					
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHI	11.1	Breast milk and reeding techniques.	<ul><li>(1hr)</li><li>Teacher will discuss breast milk components with its importance and demonstrate breast feeding techniques.</li><li>Student will observe and review the breast milk substitutes from literature and discuss the importance of breast feeding for maternal and child health.</li></ul>									
NLHT	NLHT 11.2       Mastitis and Breast Abscess.       (1 hr)         Teacher will explain causes, clinical features and examination of breast for diagnosis of mastitis an breast abscess with plan of management.       Student will observe and learn medical and surgical management of breast abscess.						astitis and					
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Desci	ription of	Practica	l Activity	7					
NLHP	IP 11.1       Techniques of Breastfeeding.       (1 hr)         Students will be divided into groups and will emulate breast feeding technqiues in different postu       Teacher will assess the techniques and provide feedback.							nt postures.				

NLHP 11.2	Breast Engorgement, Mastitis, Breast abscess	( <b>1hr</b> )
		Teacher will demonstrate Breast Engorgement, Mastitis, Breast abscess. with Video / Clinical case and
		explain plan of management
		Student will observe and identify the clinical features and discuss medical and surgical management

Paper 2 (STREE ROGA - GYNAECOLOGY)										
A3 Cour se out come	B3 Learning Objective (At the end of the session, the students should be able to) 12 Stree Prajanananga Nirmana and Vikruti - Development	C3 Domai n/sub t of Fema	D3 MK / DK / NK le Reprod	E3 Level	F3 T-L method vstem wit	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
A3	B3	C3	D3	E3	<b>F</b> 3	G3	НЗ	I3	K3	L3
CO2	Explain the development of the Female Reproductive system from the Mullerian duct - Stree Jananaga Vikara (Muillerian duct anomalies)	CC	МК	K	L&PPT	COM,S-LA Q,VV-Viva	F&S	Ι	-	LH
CO1, CO2	Demonstrate the anatomy of female reproductive system.	САР	МК	КН	D-M,L_ VC	S-LAQ,M- CHT,VV-V iva,P-ID,P- VIVA	F&S	I	-	NLHP12.1
CO1, CO2	Demonstrate the anomalies of Female Reproductive system.	САР	МК	КН	D-BED, PBL,L&	P-VIVA,V V-Viva,P-I	F&S	Ι	-	NLHP12.2

							PPT ,C BL,D-M	D,S- LAQ,QZ				
CO1, CO2	CO1, Explain Neuendorocrinology in Puberty & Menopause CO2			CC	МК	K	L&PPT	S-LAQ,VV- Viva	F&S	Ι	-	LH
CO1, CO2	Explain Anatomical and Physiological aspects of Puberty and Menopause.		ıd	CC	МК	K	L&PPT	S-LAQ,VV- Viva,COM	F&S	Ι	-	LH
CO2	CO2 Explain neuroendocrinology with respect to puberty - hormones and functions.			CC	МК	K	PER,DI S	VV-Viva,S- LAQ,CL- PR	F&S	Ι	-	NLHT12.1
CO2	CO2 Explain applied aspects of Puberty and Adolescence.			САР	МК	K	DIS,PE R	CL-PR,S-L AQ,VV- Viva	F&S	Ι	-	NLHT12.2
CO2	CO2 Demonstrate Pubertal changes –Thelarche, Pubarche and Menarche			CAP	MK	KH	PER,CB L,D	QZ ,VV- Viva	F&S	Ι	-	NLHP12.3
CO2 Identify normal and abnormal Pubertal changes.				CAN	МК	KH	D-M,C D,DIS	QZ ,VV- Viva	F&S	Ι	-	NLHP12.4
Non Lecture Hour Theory												
S.No Name of Activity I		Description of Theory Activity										
NLHT 12.1 Neuroendocrinology with respect to Puberty		(1hr) Students will have class presentation, discussion and concluding remarks by teacher.										
NLHT 12.2		Applied aspects - Puberty and Adolescence	(1hr) Students will have Class presentation ,Group discussion on healthy transition through Puberty and Adolescence followed by concluding remarks by the teacher.									
Non Le	ecture Hour Practical											
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S.No	Name of Practical	Descr	iption of	Practical	Activity							
NLHP 1	2.1 Development of Female reproductive system	( <b>1hr</b> ) Teache model Studen	er will der / with vid nt will disc	nonstrate d eo cuss and an	levelopme alyse the j	nt Female 1 possible de	reproductive s	ystem fron	n Mulle	rian Duct s	system on	
NLHP 1	2.2 Anomalies of Female reproductive system	(1 hr) Teache case in Studen	er will der stances it will obs	nonstrate t	he Structu nalyze the	ral anomali underlying	es of Female 1 cause.	reproductiv	ve syste	m on mode	el / video/	
NLHP 1	2.3 Puberty	(1hr) Teacher will demonstrate changes in Puberty on Model / Charts / Case Students will discuss Pubertal changes -Thelarche- Tanner's staging , Pubarche & Menarche.							che.			
NLHP 1	2.4 Identify normal and abnormal Pubertal changes.	( <b>1hr</b> ) Teache Studen	er will der its will an:	nonstrate N alyze outco	Normal cha	anges and conormal Pu	liscuss Abnorr berty.	nal conditi	ions on	Video / Cł	nart / Case.	
Topic 1	3 Yantra evam Shastra - Instruments (LH :1 NLH)	<b>F: 1 NL</b>	HP: 6)									
A3	B3	C3 D3 E3 F3 G3 H3 I3 K3 L3										
CO3	Elaborate instruments commonly used in procedures and su in Stree Roga (Gynaecology) and Prasuti tantra (Obstetrics). Describe the type of Yantra (Blunt instruments) and its utilization. 1. Sandansha Yantra- (Pinc	urgeries er-like	CC	МК	K	L&PPT ,D	P-EXAM,D OPS,P-ID, VV- Viva,DOPS	F&S	Ι	-	LH	

	or dissecting forceps) Annigraha - plain/ non-toothed forceps, Sannigraha - Toothed forceps.2. Swastika Yantra (Cruciform like forceps) - Allies forceps, Vulsellum, Sponge holding forceps, Artery forceps, Babcock,s forceps, Cheatle's forceps, Kocher's forceps, Needle holder, Artery forceps, Ovum forceps, Green armytage forceps, Cervical punch biopsy forceps. 3. Shalaka Yantra- (Rod like instruments) - Uterine sound, Hegar's dilator, Uterine curette, endometrial biopsy curette, Anterior vaginal wall retractor, Agnikarma Shalaka4. Tala Yantra- (scoop or spoon- shaped instruments) - Sim's speculum, Cusco's speculum, Doyen's retractor, Obstetric forceps, Endometrial curette. 5.Nadi Yantra - (Tubular instruments) - Yonivranekshana yantra, Endometrial biopsy cannula, HSG cannula/ Rubin's cannula, Suction cannula, Uttara basti cannula, Leech Wilkinson's cannula, Basti yantra. Describe types of Shastra (Sharp instruments ) and utilization: 1. Kartari Shastra - Scissors;Atimukha Shastra - Episiotomy scissorsMandalagra Shastra, umbilical cord-cutting scissors,Shararimukha Shastra - Mayos scissors / simple scissors, Stich removing scissors. 2. Vriddhipatra Shastra - Scalpel 3. Suchi Shastra - different types of needles.									
CO3	Identify & Discuss the uses of instruments with method of sterilization.	CC	МК	K	PT,D	VV-Viva,P- EXAM,OS CE	F&S	Ι	-	NLHT13.1
CO3	Describe instrument sterilization methods	CC	МК	К	PT,D	INT,VV- Viva	F	Ι	H-SH	NLHP13.1
CO3	Demonstrate the techniques of holding and using instruments .Enlist uses in <i>Prasuti &amp; Stree Roga -Sandansham and Swastika</i> <i>yantra</i>	PSY- GUD	MK	SH	D	VV-Viva,P- VIVA,P- EXAM	F&S	Ι	-	NLHP13.2
CO3	Demonstrate techniques of holding and using instruments .Enlist	PSY-	МК	SH	D	PP-Practica	F&S	Ι	-	NLHP13.3

	uses in Prasuti & Stree Roga- S	Shalaka, <i>Tala &amp; Nadi yantra</i>		GUD				l,P-EXAM, VV-Viva,P- ID,P-VIVA				
CO3	Practice techniques of holding as uses in <i>Prasuti and Stree roga</i>	nd using Sharp instruments. I	Enlist	PSY- GUD	МК	SH	D	P-ID,VV- Viva	F&S	Ι	-	NLHP13.4
Non Le	cture Hour Theory				-		-					
S.No	Name of Activity		Descrip	ption of	Theory A	Activity						
NLHT 13.1       Instruments used in Obstetrics and Gynaecology       (1 hr)         Teach       Gyna         Stude       Stude					ilitate stud d discuss f cument ins ation ion ges & Dis	ents to get nethods of struments v advantages	familiari sterilizat with,	ze with Instrum	ents comn d sharp in	nonly us	sed in Obs ts	tetrics and
Non Le	cture Hour Practical											
S.No	Name of Practical		Descrip	ption of	Practica	l Activity						
NLHP 1	3.1 Instrument sterilization	methods	<ul> <li>(1hr)</li> <li>Teacher will enable students to experience the method processing of instruments</li> <li>Students will have exposure to - <ol> <li>Disinfection of Instruments</li> <li>Scrubbing methods</li> <li>Sterilization methods for blunt instruments</li> <li>4 Serilization methods for sharp instruments</li> </ol> </li> </ul>									

NLHP 13.2	Instruments -Sandansha and Swastika yantra	<ul> <li>(2hrs) Teacher will demostrate techniques of holding and using instruments - Sandanmsha and Swastika yantra</li> <li>Students will practice the technique of holding and using -</li> <li>1. Sandansha Yantra (Pincer like or dissecting forceps) – Annigraha – plain non-toothed forceps;</li> <li>Sannigraha – Toothed forceps</li> <li>2. Swastika Yantra (Cruciform like Forceps) - Allies forceps, Vulsellum, Sponge holding forceps, Cheatle's forceps, Kocher's forceps, Babcock's forceps, Needle holder, Artery forceps, Babcock's forceps, Ovum forceps, Green armytage forceps, Cervical punch biopsy forceps.</li> </ul>
NLHP 13.3	Instruments - Shalaka, <i>Tala &amp; Nadi yantra</i>	<ul> <li>(2hrs) Teacher will demonstrate techniques of holding &amp; using instruments - Shalaka, Tala and Nadi yantra Students will practice the technique of holding and using - 3. Shalaka Yantra- (Rod like instruments) - Uterine sound, Hegar's dilator, Uterine curette, endometrial biopsy currette, Anterior vaginal wall retractor, Agnikarma shalaka. 4.<i>Tala Yantra</i> (Scoops or spoon-shaped instruments - <i>Dvi Tala yantra</i> - Sim's speculum, Endometrial curette, Cusco's speculum, Doyen's retractor, Obstetric forceps. 5. <i>Nadi Yantra</i> (Tubular instruments)- <i>Yonivranekshana yantra</i>, Leech Wilkinson's HSG cannula, Rubin's cannula, Suction cannula, UttaraBasti cannula, Vaginal douching syrrenge, Basti yantra.</li></ul>
NLHP 13.4	Sharp instruments.	<ul> <li>(1hr) Teacher will demonstrate holding &amp; using various <i>Shastra</i> (sharp instruments) Students will practice the technique of holding &amp; using -</li> <li>1. <i>Kartari Shastra</i> - Scissors; <i>Atimukha Shastra</i> - Episiotomy Scissors, <i>Mandalagra Shashtra</i> -Umbilical cord cutting Scissors, <i>Shararimukha Shastra</i> - Mayos Scissors / Simple scissors, Stitch removing Scissors</li> <li>2. <i>Vriddhipatra Shastra</i> - Scalpel</li> <li>3. <i>Suchi Shastra</i> - different types of needles</li> </ul>

Topic 14 Stree Rugna Parikshana - Gynaecological Examination (LH :2 NLHT: 1 NLHP: 4)												
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3		
CO2, CO6	Enumerate history taking in Gynaecology.	СК	МК	K	DIS,L& PPT	P-CASE,P- VIVA,RK, PP-Practica l,CL-PR	F&S	Ι	-	LH		
CO2, CO6	Elaborate essential components of Gynaecological history taking.	СК	МК	K	CBL,L &PPT ,CD,DI S	PP-Practica l,P-VIVA,S BA,P-CAS E,P-EXAM	F&S	Ι	-	NLHT14.1		
CO2, CO6	Acquire the knowledge of Gynecological examination- Breast examination, Abdominal examination, Pelvic, Per rectal examination and plan investigations	САР	МК	SH	L&PPT ,PL	VV-Viva,P- PRF,P-EX AM,PP-Pra ctical,P- VIVA	F&S	Ι	-	LH		
CO2, CO6	Demonstrate General - Physical & Systemic examination in Gynaecology Breast examination.	PSY- GUD	МК	SH	D-M,C BL,SDL ,D- BED,RP	RK,P-CAS E,P-PRF,P- EXAM,VV- Viva	F&S	Ι	-	NLHP14.1		
CO2, CO6	Demonstrate Abdominal Examination in Gynaecology – Inspection, Palpation, Percussion & Auscultation	PSY- GUD	МК	SH	D-BED, SIM,D- M,D,CB L	P-PRF,P-VI VA,VV-Vi va,DOAP,O SCE	F&S	Ι	-	NLHP14.2		
CO2, CO6	Demonstrate Vaginal Examination - Inspection & Palpation of External genitalia.Speculum examination, Bimanual examination, Rectovaginal & Per Rectal examination.	PSY- GUD	МК	SH	SIM,DL ,PT,TB L,CD	OSCE,DO AP,P-CAS E,P-EXAM ,P-PRF	F&S	Ι	-	NLHP14.3		

CO2	Plan Di Colpos	iagnostic procedures - Cervical & Vaginal smear copy, Endometrial sampling & Culdocentesis.		CS	МК	КН	L_VC,L &GD,L RI,CD, CBL	S-LAQ,VV -Viva,P-VI VA,P- EXAM	F&S	I	-	NLHP14.4	
Non L	ecture I	Hour Theory							-	-			
S.No		Name of Activity	Desc	ription of	Theory A	ctivity							
NLHT	Name of Activity         Description of Theory Activity           C 14.1         Gynaecological history taking.         (Ihr) Teacher will discuss essential components of Gynaecological history taking based on case sce clinical case and on various essential components viz , Age, parity & complaint specific elicit history - Chief complaints in chronological order Important aspects of Gynaecological history Pelvic pain Vaginal discharge Menstrual abnormality & abnormal uterine bleeding Presence of Urinary / Fecal incontinence Something coming down per vagina Past Obstetric history Past Medical & Surgical history Marital & Sexual history - Dyspareunia , Vaginismus Contraceptive history Drug history Students will comprehend ,discuss and record in prescribed case proforma.								e scenario / licitation of				
Non L	ecture I	Hour Practical											
S.No		Name of Practical	Desc	ription of	Practical	Activity							

NLHP 14.1	Examination in Gynaecology including Breast	( <b>1hr</b> ) Demonstration on Manikin / Clinical case by the teacher - Physical examination: Appearance, Built ,Nutrition, Height,Weight, Edema, Pallor, Cyanosis, Icterus, Clubbing, Secondary sexual characters, BP Pulse, Respiration & Temperature Systemic examination : C V S, Respiratory system, G I system, Neurological system Clinical Breast Examination: Breast size, Symmetry, Skin, Areola & Nipple Student will observe and emulate examination on Manikin / case under guidance. Teacher will provide feedback to improve skill of students.
NLHP 14.2	Abdominal Examination in Gynaecology	<ul> <li>(1hr)</li> <li>Demonstration of Abdominal examination by the teacher on Model / Manikin / Clinical Case - Prerequisites : Obtain consent &amp; introduce self Ask the patient to void urine Accompany female attendant Stand on right side of the patient Position of patient -Dorsal supine position Abdomen is exposed fully "9 region Abdominal assessment" Steps : 1.Inspection 2.Palpation 3.Percussion 4.Auscultation Students will observe and emulate Abdominal examination under guidance of teacher on Model/ Manikin/Clinical case. Teacher will provide feedback to improve skill of students.</li> </ul>
NLHP 14.3	Vaginal ,Recto vaginal & Per Rectal examination	( <b>1hr</b> ) Teacher will demonstrate examination of external genitalia, Internal genitalia & Recto vaginal examination

on Model / Manikin / Clinical case Steps :

1. Pre-requisites - Consent, Privacy, good source of light, gloved hands & Examination specific preparedness –

Bladder emptying Position : Dorsal supine position / Dorsal lithotomy position /Sim's or Lateral position

2. Demonstration of External Genital organs – Inspection & palpation

A .Inspection of External Genitalia – Vulva Labia majora & Labia minora Clitoris Urethra Fourchette Vaginal Introitus Bartholin's gland Gynaecological perineum Anus B. Palpation of External Genitalia & Vagina Urethra & Bartholin gland

3. Demonstration of Per speculum examination

			Visua Note t Note t	lization wi the finding the cervica	th Sim's s <sub>l</sub> s of Vagin l findings	peculum & a on inspec	Anterior v etion & Sp	vaginal wall re eculum examin	tractor /Cu nation	isco's s	peculum	
				4. Demons	tration of I	Bimanual e	examinatio	n / Pelvic exan	nination			
			Note t Palpat	the Size ,Po tion of Form	osition & M nices & Ac	Aobility of Inexa	Uterus					
			5. Demonstration of Recto vaginal & Per rectal examination									
			Inspec , Pouc Per re Summ Studer	ction & Pal ch of dougl ctal examin narize the f nts will em	pation of I as, Poster nation - Ur indings/ca nulate and o	Rectovagin ior surface nderstand i se locument i	nal area (G of uterus , ndications in the journ	ynaecological fornices and u and perform v nal .	perineum) aterosacral vith glove	) -Palpa ligame d lubric	ate rectovagents cated index	ginal septum t finger
NLHP 1	4.4	Plan Diagnostic procedures	( <b>1hr</b> ) Teach collec Studer	er will exp tion, Colpo nts will pla	lain the in oscopy, En in the diag	dications a dometrial s nostic proc	nd demons sampling & edure on t	strate diagnost & Culdocentes he given case s	ic procedu is scenario.	res -Ce	rvical & V	aginal smear
Topic 1	5 Arta	va Vyapad - Menstrual Disorders (LH :6 NLI	H <b>T: 2</b> ]	NLHP: 4)	)							
A3		B3	C3 D3 E3 F3 G3 H3 I3 K3 L3									

CO2	Explain Nidana, Samprapti, Lakshana and Chikitsa of Ashta- Artava Dushti.	CC	МК	К	L&PPT	P-VIVA,S- LAQ,P-RE C,VV- Viva,COM	F&S	Ι	-	LH
CO2	Acquire comprehensive understanding of Ashta-Artava Dushti.	САР	МК	КН	REC,DI S,L&PP T ,CBL,C D	S-LAQ,P-R EC,CBA,V V-Viva	F&S	I	-	NLHT15.1
CO2	Explain Nidana, Samprapti, Lakshana and Chikitsa of Artava kshaya with understanding of Oligomenorrhoea and Hypomenorrhoea	CC	MK	K	DIS,L& PPT	VV-Viva,S- LAQ,P- REC	F&S	Ι	-	LH
CO2	Identify, record and plan the management of <i>Artava Kshaya</i> - Oligomenorrhoea & Hypomenorrhoea	CS	МК	КН	CBL,C D,DIS	SP,SBA,P- CASE,P-VI VA,VV- Viva	F&S	Ι	-	NLHP15.1
CO2	Explain polycystic Ovarian Syndrome (PCOS) – Aetiology, Pathophysiology, Clinical features, Investigations, consequences and management	CC	МК	K	L&PPT ,CD	S-LAQ,VV- Viva	F&S	Ι	-	LH
CO2	Describe Nidana, Samprapti, Lakshana and Chikitsa of AnartavaDescribe etiology, types, clinical features, differential diagnosis, diagnosis and management of Amenorrhoea.	CC	MK	KH	L&PPT ,CBL,C D	S-LAQ,CB A,P-VIVA	F&S	Ι	-	LH
CO2, CO6	Diagnose Amenorrhoea and plan management.	CS	МК	КН	D-BED, CBL,DI S,CD,P BL	CBA,SP,S- LAQ,P-VI VA,VV- Viva	F&S	Ι	-	NLHP15.2
CO2,	Diagnose and plan management of Poly Cystic Ovarian Syndrome	CS	MK	KH	CD,CB	SP,P-CASE	F&S	Ι	-	NLHP15.3

CO6	(PCOS)						L,LRI,D IS	,VV-Viva,R K,P-VIVA				
CO2, CO6	Explain Asrugda	Nidana, Samprapti, Lakshana and Chikitsa of ara and Artava Vruddhi.		CC	МК	К	CD,CB L,L&PP T	VV-Viva,C BA,COM,S BA,S-LAQ	F&S	Ι	-	LH
CO2, CO6	Describ diagnos	e etiology, types, clinical features, differential diagr is and management of Abnormal uterine bleeding.	iosis,	CC	МК	К	L&PPT ,CD,CB L,LRI	S-LAQ,CB A,VV-Viva	F&S	Ι	-	LH
CO2, CO6	Describ Vruddhi	e - Artava Kshaya, Anartava, Asrugdara & Artava		CC	МК	К	PER,RE C,DIS,C BL	SBA,CBA, PM,CL-PR, VV-Viva	F&S	Ι	-	NLHT15.2
CO2, CO6	Identify Artava	the causes and plan management of <i>Asrugdara</i> an <i>Vruddhi</i> .	d	CS	МК	КН	CD,LRI ,D-BED ,CBL,D IS	VV-Viva,S P,CBA,CO M,S-LAQ	F&S	Ι	-	NLHP15.4
Non Lo	ecture H	lour Theory					1					
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT	S.No     Name of Activity       NLHT 15.1     Ashtartava dusti			( <b>1hr</b> ) Teacher will provide case scenarios pertaining to various artava dushti and students will analyse the characteristics of Artava and identify the respective dosha involvement with recitation of shlokas.								
NLHT	NLHT 15.2 Artava kshaya, Anartava , Asrugdara & Artava vruddhi		( <b>1hr</b> ) Studer <i>vruddl</i> Teach	nts will be hi er will ass	divided in ess and giv	to groups ve remark.	to present c	cases of Artava	e kshaya, A	Anartava	a , Asrugd	ara & Artava

Non Lecture H	Non Lecture Hour Practical										
S.No	Name of Practical	Description of Practical Activity									
NLHP 15.1	Artava kshaya - Oligomenorrhoea & Hypomenorrhoea	<ul> <li>(1 hr)</li> <li>Students will document the case in prescribed journal proforma and</li> <li>1. Evaluate in relation to Age, Weight, H-P-O axis dysregulation, Endocrine Disorders, Androgen producing tomours, Tubercular endometritis and drugs</li> <li>2. Plan management</li> <li>Teacher will assess and provide feedback.</li> </ul>									
NLHP 15.2	Anartava - Amenorrhoea evaluation and management	(1hr) Student will document the case in prescibed journal proforma and note the clinical type with									
		1. Evaluation- i) Clinical examination ii) In depth investigations 2. Plan of management; Shodhana / Shamana									
		Teacher will assess and guide in planning the management based on the type of Amenorrhoea.									
NLHP 15.3	Poly Cystic Ovarian Syndrome (PCOS)	(1 hr) Teacher will enable students to determine signs, symptoms, results of investigations and plan management of Poly Cystic Ovarian Syndrome based on case scenario / clinical case									
		<ol> <li>Analyse main concerns – Menstrual abnormalities, Symptoms of hyperandrogenemia, subfertility, weight gain</li> </ol>									
		2. Analyse diagnostic criteria -Biochemical abnormalities (Hyperandrogenemia,									

			hyperinsulinemia, hyperlipidaemia, hyper prolactaenemia, low FSH, hyper secretion of LH)								
			3. Plan ma	nagement	Conserva	tive( sanso	dhana & sansa	mana)/ Su	rgery		
		S	tudents will co	mprehend	and evalua	ate Poly Cy	stic Ovarian S	yndrome.			
NLHP Topic	15.4	Management of <i>Asrugdara</i> and <i>Artava Vruddhi</i> - Structrual and Non-structural / Systemic causes i i i i I a pnivritti - Menopause (LH :2 NLHT: 1 NLHP: 2	lhr) tudents will do Evaluation an ) Structural cau ) Non-structura atrogenic and N 2.Plan of mana eacher will ass	ocument the ad classifica uses (PALM al systemic Not yet ider agement tess and giv	e case in thation (A) -Polyp, causes(Contified we remarks	ne prescibe Adenomy OEIN) -Co S.	d journal profo osis, Leiomyor agulopathy, O	orma under na & Mali vulatory d <u>y</u>	the gui ignancy ysfuncti	idance of t	eacher with netrial,
A3		<b>B</b> 3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2	Define A changes	<i>Rajonivrutti</i> – Menopause and explain the symptoms we in organs	ith CK	МК	K	LS,L&P PT	VV-Viva,C R-RED,S- LAQ	F&S	I	-	LH
CO2	Underst options	and Endocrinology of Menopause and management with emphasis on role of <i>Rasayana Chikitsa</i>	СК	MK	K	CD,L& PPT	VV-Viva,S- LAQ	F&S	Ι	-	LH
CO2, CO6	Discuss	Hormone Replacement Therapy (HRT)	СК	NK	К	L&PPT ,DA,DI S,CBL	INT,VV-Vi va,CR-RED ,PRN,CL- PR	F&S	Ι	-	NLHT16.1

CO2	Diagno	se Menopause		CAN	МК	KH	CD,CB L,D-BE D,LRI,S IM	P-PRF,P-C ASE,CBA, VV-Viva	F&S	I	-	NLHP16.1		
CO2	Plan ma	anagement of Menopause		CS	МК	КН	DA,CB L,CD,D IS	P-CASE,R K,SP,CBA, S-LAQ	F&S	I	-	NLHP16.2		
Non L	ecture H	Iour Theory								•				
S.No	S.No Name of Activity I			Description of Theory Activity										
NLHT 16.1       Hormone Replacement Therapy (HRT)       (1hr)         Students will present Indications, Contraindications, Risk facto       Replacement Therapy in Menopause.         Review of research paper / publications       Teacher will assess the presentations and discuss the alternate t         Non Lecture Hour Practical       Image: Contraindication (Image: Contraindication)							ors and co therapies	mplicat	ions of H	lormone				
S.No		Name of Practical	Descr	Description of Practical Activity										
NLHP	16.1	Menopause	( <b>1hr</b> ) Studen	(1hr) Students will document following in the prescribed journal proforma under the guidance of teacher -										
				<ol> <li>History taking with special reference to Age, Period of Amenorrhoea and Symptoms such as hot flash and night sweats</li> <li>Physical examination</li> <li>Hormonal Assay</li> </ol>										
			Teache	er will ass	ess and giv	ve remark	s.							

NLHP 16.2 Plan management of Menopause		of Menopause (1 To fo	(1hr) Teacher will present a case scenario and students will learn and present plan of management with following components -								
1. Counselling         2. Advice on Diet, Life style and Meditation         3. Rasayana and Phytoestrogens         4. Symptomatic management											
Topic 1	17 Yoni Vyapad - Disord	tem (LH :13	B NLHT:	3 NLHP:	10) F2	C3	112	12	V2	T 2	
A3 CO2	Enlist Yonivyapad - Sankhy Nidana, Upadrava and Sad	<b>b3</b> a, Doshanusara bheda, Samanya hya-Asadhyata	CC	MK	K	CBL,RE C,L&PP T	VV-Viva,S- LAQ,P- REC	F&S	II	-	LS
CO2	Explain Nidana, samprapti, Vandhya, Vipluta ,Paripluta	Lakshana and Chikitsa of Udavar a Vatala Yonivyapad.	ta, CC	МК	K	CBL,L &PPT ,REC	P-REC,VV- Viva,S- LAQ	F&S	II	-	LH
CO2	Explain Nidana, samprapti, Rudhirakshara, Vamini, Sra	Lakshana and Chikitsa of amsini, Putraghni, Pittala Yonivyap	ad.	МК	K	CBL,RE C,L&PP T	P-REC,S-L AQ,VV- Viva	F&S	II	-	LH
CO2	Explain Nidana, Samprapti, Karnini, Acharana, Atichar	, Lakshana and Chikitsa of Atyanan ana, Shleshmala	oda, CC	МК	K	REC,C D,L&PP T	VV-Viva,S- LAQ,P- REC	F&S	II	-	LH
CO2	Explain Nidana, Samprapti, Phalini, Mahati, Suchivaktr	, Lakshana and Chikitsa of Shandi, ra, Sarvaja	CC	МК	K	REC,C D,L&PP T ,CBL	P-REC,VV- Viva,S- LAQ	F&S	II	-	LH

CO2	Explain Nidana, samprapti, Lakshana and Chikitsa of Antarmukhi, Shuska, Arajaska, Lohita kshaya, Upapluta, Prakcharana Yonivyapad.	CC	МК	K	L&PPT ,REC	VV-Viva,S- LAQ,P- REC	F&S	Π	-	LH
CO2	Explain Samanya Chikitsa Siddhanta of Yonivyapad and Pathya-Apathya.	CC	МК	K	REC,C BL,CD, L&PPT ,PL	VV-Viva,P A,CBA,S- LAQ	F&S	II	-	LH
CO2	Diagnose and plan management of Udavarta (Kastartava) / Vatala/ Vipluta /Paripluta Yonivyapad.	CS	МК	KH	SIM,CD ,DA,PB L,LRI	VV-Viva,C BA,P-REC, RK,SBA	F&S	II	-	NLHP17.1
CO2, CO6	Diagnose and plan management of Pittala/Rudhirakshara/ Karnini/Acharana/Aticharana Yonivyapad.	CS	МК	КН	DA,CD, CBL,D- BED,L RI	SP,P-CASE ,PM,P- VIVA,CBA	F&S	II	-	NLHP17.2
CO2	Memorize and recite Shlokas of Yonivyapad.	СК	МК	K	REC	VV-Viva,P- REC	F&S	Π	-	NLHT17.1
CO2	Define Dysmenorrhoea. Expalin types – Primary & Secondary, aetiology, clinical signs and symptoms, investigations with treatment.	CC	МК	К	CBL,C D,L&PP T ,D-BE D,DA	CBA,SP,S- LAQ,VV- Viva,PM	F&S	II	-	LH
CO2, CO6	Diagnose Dysmenorrhoea and plan management	CS	МК	SH	PBL,LR I,CD,D A,D- BED	P-CASE,V V-Viva,CB A,SBA	F&S	II	-	NLHP17.3
CO2	Define Endometriosis and Adenomyosis . Explain causes, clinical symptoms, investigations and treatment	CC	МК	К	L&PPT ,DA,LR I,CD,C	CBA,VV-V iva,S-LAQ	F&S	II	-	LH

					BL					
CO2, CO6	Diagnose and plan management of Endometriosis and Adenomyosis.	CS	МК	SH	LRI,PB L,CBL, D-BED, DA	VV-Viva,C BA,PM,P- CASE,SP	F&S	II	-	NLHP17.4
CO2	Define Pelvic Inflammatory Disease (PID). Explain aetiology, Types, clinical diagnostic criteria, Investigations, complications and management.	CC	МК	K	CD,LRI ,DIS,L &PPT	S-LAQ,VV- Viva	F&S	II	-	LH
CO2, CO6	Diagnose and plan management of Pelvic Inflammatory Disease (PID)	CS	МК	SH	CD,D-B ED,CB L,LRI,D A	SP,SBA,V V-Viva,CB A,P-CASE	F&S	п	-	NLHP17.5
CO2	Explain Role of Panchakarma in Yoni Vyapad	CAP	МК	K	DIS,CB L,PER, CD,LRI	VV-Viva,C R-RED,PR N,S-LAQ	F&S	Π	-	NLHT17.2
CO2, CO6	Present case studies on Yonivyapad	AFT- RES	МК	SH	PER,D- BED,C D,CBL	P-PRF,CR- RED,VV-V iva,CL- PR,CBA	F&S	II	-	NLHP17.6
CO2	Explain Cervical erosion and Ectropion – Aetiology, Clinical features, Investigations and Management	CC	МК	K	L&PPT ,CD,CB L,D	VV-Viva,S- LAQ,CBA	F&S	II	-	LH
CO2, CO6	Diagnose and Plan management of Cervical erosion.	CS	МК	SH	PBL,CD ,D-BED ,CBL,L RI	SP,DOAP, VV-Viva,C BA,P- CASE	F&S	Π	-	NLHP17.7
CO2,	Diagnose and plan management of Yoni Kandu - Pruritus Vulvae.	CS	MK	SH	D-BED,	VV-Viva,P	F&S	II	-	NLHP17.8

CO6							CBL,C D,L&PP T	M,P-CASE				
CO2, CO6	Define F conserva -Cystoce Enteroce	Pelvic organ prolapse (POP) and explain entit ative and surgical treatment options -1.Vagina ele,Cystourethrocele, Rectocele, ele 2.Uterovaginal prolapse -Uterine prolapse	ies with l Prolapse ,	CC	МК	K	CD,L& PPT	S-LAQ,VV- Viva	F&S	II	-	LH
CO2, CO6	Diagnos & Recto	e and plan management of Vaginal prolapse - cele.	- Cystocele	CS	МК	КН	D-BED, D-M,C BL,PBL ,CD	VV-Viva,S- LAQ,P-VI VA,CBA,P- CASE	F&S	II	-	NLHP17.9
CO2, CO6	Diagnos	e and plan management of Uterovaginal prola	ipse.	CS	МК	КН	CBL,D, CD,DA, PBL	S-LAQ,P-C ASE,CBA, SP,P-VIVA	F&S	II	-	NLHP17.10
CO2	CO2 Explain the causes and management of -1. Dyspareunia2. Vaginismus3. Presacral neuralgia4.Constitutional nymphomania 5. Effluvium seminis		ia2. nphomania	CC	МК	КН	CD,L& PPT ,CBL	VV-Viva,S- LAQ	F&S	II	-	LH
CO2, CO6	<ul> <li>2, Present case studies on different <i>Yonivyapad</i>.</li> <li>6</li> </ul>			AFT- RES	МК	КН	DA,RP, DIS,LRI ,PER	VV-Viva,P- EXAM,CL- PR,S-LAQ, P-VIVA	F&S	II	-	NLHT17.3
Non L	ecture H	our Theory										
S.No Name of Activity Desc		Desci	ription of	Theory A	Activity							
NLHT 17.1     Shlokas of Yonivyapad     (11)       Str     Str		(1 hr) Studer	nts will rec	te Shloka	s of Yoniv	<i>yapad</i> from	Brihatrayi.					

NLHT 17.2	Panchakarma in Yonivyapad	(1 hr) Teacher will divide students into groups and allot topics on <i>Shodhana Chikitsa</i> in <i>Yonivyapad</i> . Students will review research publications / clinical cases and present in class. Teacher will assess and discuss importance of <i>Panchakarma</i> in <i>Yonivyapad</i> .
NLHT 17.3	Case studies on different Yonivyapad	( <b>1hr</b> ) Students will be divided into smaller groups, each group will be given a case scenario to present . Teacher will analyse and give remarks.
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 17.1	Udavarta (Kastartava) / Vatala/ Vipluta /Paripluta yonivyapad.	( <b>1hr</b> ) Teacher will provide case scenarios with clinical features of <i>Udavarta, Vatala, Vipluta</i> and <i>Paripluta</i> <i>Yonivyapad.</i> Students will diagnose by-
		1. Analysis of <i>lakshana</i>
		2. Discussion on samprapti vighatana based on dosha involved.
		3. Examination and investigations.
		Student will discuss management plan with <i>Shodhana</i> , <i>Shamana</i> and <i>Sthanik Chikitsa and</i> document in prescribed journal proforma. Teacher will assess and provide feedback.

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NLHP 17.2	Pittala/ Rudhirakshara/ Karnini/ Acharana/ Aticharana yonivyapad	( <b>1hr</b> ) Teacher will provide case scenarios with clinical features of <i>Pittala/ Rudhirakshara/ Karnini/</i> <i>Acharana/ Aticharana yonivyapad</i> . Students will diagnose by-
		1. Analysis of <i>lakshana</i>
		2. Discussion on samprapti vighatana based on dosha involved.
		3. Examination and investigations.
		Student will discuss management plan with <i>Shodhana</i> , <i>Shamana</i> and <i>Sthanik Chikitsa and</i> document in prescribed journal proforma. Teacher will assess and provide feedback.
NLHP 17.3	Dysmenorrhoea	( <b>1hr</b> ) Student will document case in prescribed journal proforma.
		1. History taking to elicit Primary / Secondary dysmenorrhea
		Menstrual history - Age of Menarche & relation of the onset Dysmenorrhoea with menarche. Obstetric history : Association of Dysmenorrhoea with previous delivery History of Intra Uterine Contraceptive Device use, Oral Contraceptive Pills ,Depot Medroxyprogesterone acetate (DMPA), Progestin Intrauterine System
		2. General physical examination

		<ul> <li>3. Abdominal examination</li> <li>4. Pelvic examination</li> <li>5. Investigations</li> <li>6. Plan management -Primary / Secondary</li> <li>Teacher will assess and provide feedback.</li> </ul>
NLHP 17.4	Endometriosis and Adenomyosis.	<ul> <li>(1 hr) Student will document the case in prescribed journal proforma.</li> <li>1. History taking : Chief complaints with reference to severe cyclical pain in lower abdomen mostly during menstruation - Dysmenorrhoea, Dyspareunia and Dyschezia</li> <li>2. Gynaecological examination -</li> </ul>
		<ul> <li>i) Abdominal examination</li> <li>ii) Vaginal examination : Bimanual examination : Uterus-size Rectovaginal mobility Tenderness Fornices Adnexae Palpation of Pouch of douglas</li> </ul>

		Rectovaginal septum iii) Rectal examination 4.Investigations : 5.Differential diagnosis 6.Plan management of Endometriosis /Adenomyosis Teacher will discuss cases with clinical outcome.
NLHP 17.5	Pelvic Inflammatory Disease (PID)	(1 hr) Student will document case in prescribed journal proforma.
		1. History taking – Analysis of symptoms - Pain abdomen, Vaginal discharge, Menstrual disturbance (menorrhagia)
		2. General examination : Acute / Chronic
		Record vitals – Temperature, Pulse, Respiratory rate Per abdomen : Elicitation of tenderness in lower abdomen Per vaginal : Offensive vaginal discharge, tenderness on movement of cervix , fornices tenderness and fullness of posterior fornix
		3. Differential diagnosis
		4. Investigations
		Teacher will assess and discuss management plan.

NLHP 17.6	Case presentation on Yonivyapad	<ul> <li>(1hr)</li> <li>Teacher will divide students into groups and allot topics of Yonivyapad to each group.</li> <li>Student will review clinical case studies / systematic review of research publications of Yonivyapad alloted to them and present in class.</li> <li>Teacher will discuss and assess the presentations on clinical cases and provide feedback.</li> </ul>
NLHP 17.7	Cervical erosion	(1 hr) Student will document case in prescribed journal proforma.
		1. History taking – Analysis of symptoms
		2. General examination
		Per abdomen : Per speculum : Vagina, Cervix - lesion/ breach in portion to be documented, white discharge, any spotting / bleeding Per vaginal – Uterus / Fornices
		3. Investigations :
		4. Plan management
		Teacher will discuss management options and provide feedback on cases.

NLHP 17.8	Yoni kandu - Pruritus Vulvae	<ul> <li>(1hr)</li> <li>Teacher will discuss a case scenario / clinical case of Yoni Kandu -Pruritus Vulvae</li> <li>1.History taking and examination</li> <li>2. Analyse aetiology –Vaginal discharge, local skin lesions, infections, allergy, systemic diseases</li> <li>3.Plan management -i) Locl hygiene ii) Drug application - local and/or systemic</li> <li>Students will discuss and document in the prescribed journal proforma.</li> </ul>
NLHP 17.9	Cystocele & Rectocele	<ul> <li>(1hr) Teacher will explain and demonstrate Cystocele &amp; Rectocele on manikin / clinical case with discussion on following - <ol> <li>Histrory taking – i) Predisposing (acquired /congenital )</li> <li>Aggravating (postmenopausal atrophy, chronic cough, constipation, obesity, multiparity, weight lifting, under nutrition, smoking </li> <li>Examination : </li> <li>General – Body Mass Index , Signs of myopathy or neuropathy, features of chronic airway disease, abdominal mass </li> <li>Composite examination- Inspection and Palpation : Vaginal, Rectal and Recto vagina.</li> </ol> </li> <li>Diagnosis - Cystocele / Urethrocele / Rectocele / Enterocele/ Vault prolapse <ol> <li>Plan of management</li> </ol> </li> </ul>

NLHP 17.10 Uterovaginal prolapse			<ul> <li>Teacher will expalin and demonstrate Uterovaginal prolapse on manikin / clinical case with discussion on - <ol> <li>Histrory taking – i) Predisposing (acquired /congenital)</li> <li>Aggravating (postmenopausal atrophy, chronic cough, constipation, obesity, multiparity, weight lifting, under nutrition, smoking</li> <li>Examination : </li> <li>General – Body Mass Index , Signs of myopathy or neuropathy , features of chronic airway disease , abdominal mass</li> <li>Composite examination- Inspection and Palpation : Vaginal , Rectal and Recto vagina</li> <li>Diagnosis : Uterine prolapse / Uterovaginal prolapse</li> <li>Assigning degrees of Uterine prolapse - First/Second/Third/Procedentia</li> <li>Plan of management – conservative / surgical</li> </ol> </li> </ul>									
Topic	18 Van	dhyatwa - Infertility (LH :4 NLHT: 3 NLHP:	8)				Γ					
A3		B3		C3	D3	E3	F3	G3	H3	13	K3	L3
CO2	CO2 Elaborate the concept of <i>Vandhyatwa</i> , <i>Bheda</i> and <i>various Nidana</i> - Aharaja, Viharaja, Yoni Vyapadjanya , Shukra Doshaja, Artava Doshaja, Akalyoga and Atmadoshajanya.		CC	МК	K	L&PPT	P-VIVA,V V-Viva,S-L AQ,P- EXAM	F&S	Π	-	LH	
CO2	CO2 Describe Vandhyatwa Chikitsa and Pathya-Apathya.		CC	МК	K	L&PPT ,DIS	P-VIVA,V V-Viva,S- LAQ	F&S	II	-	LH	
CO2, CO3	Discuss	Role of Panchakarma in Vandhyatwa.		CC	МК	K	CD,TB L,PER, FC,L& GD	CBA,P-VI VA,PM,P-E XAM,VV- Viva	F&S	II	Н-РК	NLHT18.1

CO2	Define Infertility and elaborate Female factors of Infertility, Investigations and guidelines of management.	CC	MK	К	L&PPT	VV-Viva,S- LAQ	F&S	II	-	LH
CO2, CO6	Perform Evaluation of Female partner in Infertility.	САР	МК	КН	DIS,CD ,PBL,P T,CBL	P-VIVA,SP ,S-LAQ,VV -Viva,P- CASE	F&S	II	-	NLHP18.1
CO2	Describe Male factors of Infertility with Investigations and guidelines of management.	CC	МК	К	L&PPT	VV-Viva,S- LAQ,COM	F&S	Π	-	LH
CO2, CO6	Perform evaluation of Male partner in Infertility.	CAP	МК	SH	DIS,CB L,LRI,C D,D- BED	P-CASE,S BA,CR-RE D,SP,INT	F&S	Π	-	NLHP18.2
CO2	Discuss Shukra Dushti and semen abnormalities.	CC	МК	К	DL,CD, LRI,CB L,PER	CL-PR,VV- Viva	F&S	II	-	NLHT18.2
CO2	Demonstrate Semen Analysis and Interpretation of parameters.	САР	МК	КН	LRI,PT, DL,CD, CBL	P-EXAM,V V-Viva,P- VIVA,CBA	F	II	-	NLHP18.3
CO2	Demonstrate and interpret Ultrasound / Follicular study.	САР	МК	КН	LRI,L& PPT ,CBL,C D	VV-Viva,P- VIVA	F	II	-	NLHP18.4
CO2	Evaluate Tubal Patency by Hystero Salpingography (HSG).	CE	DK	КН	X-Ray, D,L_VC ,CD,CB L	CBA,S-LA Q,P-ID,VV- Viva	F&S	II	-	NLHP18.5

CO2	Demons	nstrate cervical mucous study / test -Fern testSpinbarkket		PSY- GUD	MK	КН	LRI,D,P T	INT,P- CASE	F	II	-	NLHP18.6
CO2	CO2 Describe Assisted Reproductive Techniques (ART) and ART act.		RT act.	СК	NK	К	L_VC,L &PPT, CBL,DI S	СОМ	F	П	-	NLHT18.3
CO2	Gain in	sight of Intra Uterine Insemination (IUI).		СК	DK	К	D,L_VC	VV-Viva,P P-Practical	F	II	-	NLHP18.7
CO2	CO2 Present case of Infertility.			AFT- RES	МК	SH	PBL,X- Ray,D- BED,PE R,CBL	CL-PR,VV- Viva,P-CA SE,SBA,PR N	F&S	Π	-	NLHP18.8
Non Lo	ecture H	lour Theory				-						
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
S.No       Name of Activity       Description of Theory Activity         NLHT 18.1       Role of Panchakarma in Vandhyatwa       (1hr)         Students will have Class presentation / Class seminar / Group discussion / Project work/ Fligroom on       Panchakarma treatment options in Vandhytwa.         Teacher will assess and provide feedback.       Teacher will assess and provide feedback.						Flipped class						
NLHT	LHT 18.2 Shukra Dushti and semen abnormalities (1hr) Teacher Student Hyposp Asthene			er will dis nt will ana spermia, O nozoosper	cuss identi lyze variou ligozooosj mia,Leuco	fication of us nomenc permia,Po cytosperm	f <i>Shukra Di</i> elature relat lyzoosperm nia, Necroz	<i>usti</i> and variou ed to abnorma nia, Azoosperm oospermia Tera	s abnorma lities of Se nia , atozoospe	llities of emen vi rmia an	f Semen z, Aspern d	nia,

		Oligoasthenoteratozoospermia.
NLHT 18.3	Assisted Reproductive Techniques (ART)	( <b>1hr</b> ) Teacher will help students familiarize with various Assisted Reproductive Techniques (ART) with help of Video demonstration and discuss about ART act.
Non Lecture I	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 18.1	Female partner evaluation in Infertility	<ul> <li>(1hr)</li> <li>Teacher will guide the students for -</li> <li>History taking : Specify &amp; discuss with reference to Age,Duration and type of Infertility,</li> <li>Contraceptive history, Sexual history, Menstrual history, Previous treatment history, Obstetric history,</li> <li>Gynaecological history, History of past illness, Personal and Family history</li> <li>General Physical, Systemic and Local examination</li> <li>Investigations</li> <li>Teacher will assess the findings,counsel and plan the management.</li> </ul>
NLHP 18.2	Male partner evaluation in Infertility	<ul> <li>(1hr)         Teacher will guide the students for -             1. History taking; Specify &amp; discuss with reference to Age, Occupation, Habits, Duration,             Environmental exposure, Sexual history, Past illness             2. General Physical, systemic and local examination             3. Investigations             Teacher will assess, counsel and plan management.     </li> </ul>
NLHP 18.3	Semen Analysis.	(1hr) Teacher will discuss time and method of collection, Interpretation of report and plan the management

		Students will comprehend and discuss.
NLHP 18.4	Interpret Ultrasound / Follicular study	(1hr) Teacher will discuss -
		1. Pelvic Ultrasound – Assessment of Uterine cavity / Size / Endometrial Thickness, free fluid in pouch of douglas
		<ul> <li>2. Follicular study – Interpret the follicular size / Ovulation</li> <li>3.Counsel and Plan management</li> <li>Student will comprehend and discuss.</li> </ul>
NLHP 18.5	Hysterosalpingography (HSG)	(1hr) Teacher will demonstrate Hysterosalpingography and discuss about the consent, time of procedure, method, precautions and possible complications with the help of Video /X-ray film. Students will comprehend, understand and document.
NLHP 18.6	Cervical mucous tests	<ul> <li>(1hr)</li> <li>Teacher will demonstrate Fern test and Spinbarkette</li> <li>1. Procedure of collecting cervical mucous under aseptic precautions</li> <li>2. Observation and interpretation</li> <li>Students will observe ,assess and document</li> </ul>
NLHP 18.7	Intra Uterine Insemination (IUI)	(1hr) Teacher will demonstrate Intra uterine Insemination (IUI) with Video /Clinical case. Students will observe and analyze.

NLHP	18.8 F 19 Vyadh	Practical case presentation on Infertility	(1hr) Student History ( Examina Investiga Interpret Plan man Teacher	will pres taking ation – M ations tation / Id nagemen will eva	Sent case o Male / Fem dentify the nt - <i>Shodha</i> luate and g <b>H :1 NLH</b>	f Infertilit ale e cause ana / Shan give reman T <b>: 1 NL</b> I	y focusing o nana / Sthan tks H <b>P: 2</b> )	on - nika upakrama	ı/ Integrati	ive		
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	К3	L3
CO2	Discuss v smear, Co Ultrasoun imaging, 0	arious diagnostic procedures in Gynaecology viz I olposcopy, Cervical biopsy, Endometrial biopsy, id, Hysteroscopy, Laproscopy, Magnetic resonance Computed Tomography.	PAP e	CC	DK	K	X-Ray, CBL,L &PPT	CBA,INT	F&S	Π	-	LH
CO2	Interpret V resonance	Ultrasound, Hysteroscopy, Laparoscopy, Magnetic e imaging, Computed Tomography in Gynaecolog	с у.	CC	DK	К	LRI,CD ,X-Ray, CBL,L &PPT	INT,SBA,V V-Viva,CO M,CBA	F	Π	-	NLHT19.1
CO2	Perform I Colposcoj	PAP test, Visual inspection examination and py.		CAP	DK	КН	CD,CB L,D-M, L_VC,D	INT	F	II	-	NLHP19.1
CO2, CO6	Observe t biopsy	he procedure for Cervical biopsy and Endometrial		CC	DK	K	CBL,D- M,L_V C	INT	F	Π	_	NLHP19.2
Non Lo	ecture Ho	ur Theory					1	L]				

S.No	Name of Activity	Description of Theory Activity
NLHT 19.1	Diagnostic tools	(1hr) Teacher will assist students in comprehending and interpreting Ultrasound, Hysteroscopy, Laparoscopy, Magnetic resonance imaging, Computed Tomography reports in Gynaecology.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 19.1	PAP test, Visual inspection and Colposcopy	<ul> <li>(1hr) Teacher will demonstrate the procedures of PAP test, Visual inspection methods and Colposcopy on model / manikin / clinical case/video. Students will perform and analyze the steps - <ol> <li>Prerequisites and Procedure :</li> <li>Educate about the time of test</li> <li>Consent</li> <li>Collection of required material for respective test</li> <li>PAP test - Gloves , Instruments ,Spatula , Slides</li> <li>Visual Inspection : Visual Inspection with Acetic acid (VIA) and Visual inspection with Lugol's Iodine (VILI) </li> <li>iii) Colposcopic visualization</li> <li>Procedure</li> <li>Interprete findings.</li> </ol></li></ul>
NLHP 19.2	Cervical biopsy and Endometrial biopsy	(1hr) Teacher will demonstrate the procedures of collecting Cervical and Endometrial Biopsy on model / manikin / clinical case / video. Students will discuss-

		1. Prerequisites : Consent, premedication, sterilized instruments												
		2. Procedu	re of collec	tion and p	preservation	1								
		3. Interpretation of results												
		4. Conselling and referral for further management												
Торіс	Горіс 20 Sthanika Upakrama - In situ Treatment Modalities (LH :1 NLHT: 2 NLHP: 7)													
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3				
CO3	Discuss the role of Sthanika Upakrama in Streeroga - Yoni dhavana, Yoni prakshalana, Pichu dharana, Yoni varti, Yoni lepana, Yoni avachurnana, Yoni purana, Yoni dhoopana, Kshara karma, Agni karma and Uttarabasti.	СС	МК	K	L&PPT ,L_VC	RK,S-LAQ, COM,VV- Viva,P- VIVA	F&S	II	-	LH				
CO3	Discuss <i>Purvakarma, Pradhana Karma</i> and <i>Paschat Karma</i> of - <i>Kshara Karma</i> and <i>Agni Karma</i> with indications, contraindications, precautions and time of procedure.	CC	МК	К	L_VC,L &PPT ,CD,CB L	C-VC,VV- Viva,SP,CB A	F&S	Π	-	NLHT20.1				
CO3, CO6	Discuss <i>Purvakarma</i> , <i>Pradhana Karma</i> and <i>Paschat Karma</i> of <i>Uttarabasti</i> with indications, contraindications, precautions and time of procedure.	CC	МК	K	D-M,L &PPT	P-VIVA,V V- Viva,COM	F&S	II	-	NLHT20.2				
CO3, CO6	Perform Yonidhavana and Yoniprakshalana	PSY- GUD	МК	SH	CBL,D- M,D	DOPS,OSC E,DOPS,V V-Viva,P- VIVA	F&S	II	-	NLHP20.1				
CO2	Perform Yoni - Pichu dharana	PSY- GUD	МК	SH	D,PT	DOAP,DO PS,DOPS,P	F&S	Π	-	NLHP20.2				

								-PRF,VV- Viva				
CO2	Perform	<i>Yoni-varti</i> insertion.		PSY- GUD	МК	SH	PT,RLE	DOPS,VV- Viva,DOPS ,OSCE,P- PRF	F&S	II	-	NLHP20.3
CO2	Perform	a Yoni lepana.		PSY- GUD	MK	SH	RLE,PT ,D	P-PRF,VV- Viva,OSCE ,DOAP	F&S	II	-	NLHP20.4
CO2	Perform	a Yoni- avachoornana.		PSY- GUD	МК	SH	D,PT	DOPS,OSC E,DOPS,D OAP,P- PRF	F&S	II	-	NLHP20.5
CO2	2 Perform <i>Yonipurana</i>			PSY- GUD	МК	SH	RLE,D, PT	DOAP,DO PS,DOPS,P -PRF,VV- Viva	F&S	II	-	NLHP20.6
CO2	Perform	a Yoni dhoopana.		PSY- GUD	МК	SH	PT,RLE ,D	P-PRF,OSC E,DOPS,V V- Viva,DOPS	F&S	II	-	NLHP20.7
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
NLHT 20.1       Kshara karma and Agni karma       (1hr)         Teacher w       karma wit         Students w				er will disc with indic nts will con	cuss <i>Purva</i> cations, con nprehend.	<i>karma, Pr</i> ntraindica	<i>adhana ka</i> tions, preca	rma and Pasch autions and tim	nat karma le of proce	of - <i>Ksl</i> dure.	nara karm	a and Agni

NLHT 20.2	Uttara Basti	( <b>1hr</b> ) Teacher will discuss <i>Purvakarma, Pradhana Karma</i> and <i>Paschat karma</i> of <i>Uttarabasti</i> with indications, contraindications, precautions and time of procedure. Students will comprehend.
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 20.1	Yonidhavana and Yoniprakshalana	<ul> <li>(1 hr)         Teacher will debrief the Indications, contraindications, time of procedure and ensure prerequisites -         Consent, preparation of Kashaya / Kwatha (decoction) as per Standard Operating Procedure (SOP),         Sterilized instruments, gloves, linen, Syringe, Douche can, procedure         Student will perform <i>Yonidhavana and Yoniprakshalana</i> and discuss special precautions         Complete documentation of the procedure in prescibed journal.     </li> </ul>
NLHP 20.2	Yoni-Pichu dharana	(1hr) Teacher will debrief the Indications and contraindications,time of procedure and ensure prerequisites :Consent, medication -Taila (oil) / Ghrita (ghee) / Kwatha (decoction ) / other proposed drug form,as per Standard Operating Procedure,Sterilized instruments,linen,Sterile Pichu (Tampoon) Students will perform the procedure and discuss special precautions Complete documentation of the procedure in the prescribed journal proforma
NLHP 20.3	Yoni-varti	(1hr) Teacher will debrief the Indications,contraindications,time of procedure and ensure prerequisites : Consent,Sterilized instruments, linen,Varti / Suppository Students will perform the procedure of insertion of Yoni varti and discuss special precautions Complete documentation of the procedure in prescribed journal proforma.

NLHP 2	0.4	Yoni lepana	( <b>1 hr</b> ) Teache prerequ Studen Comple	er will det uisites : co ts will pe ete docum	prief the inconsent ,ster rform the p nentation o	lication,co ilized inst rocedure of f the proce	ontraindicat ruments, di of Yonilepa edure in the	ions,time of pr rug of application ana and discuss prescribed jou	rocedure c ion, linen. s special p urnal profe	of Yoni precautic orma.	lepana and	1 ensure
NLHP 2	0.5	Yoni-avachoornana	( <b>1hr</b> ) Teache :conser Studen Comple	er will det nt , sterili ts will pe ete docun	prief the Ind zed instrum rform the p nentation o	lications, eents, liner rocedure f the proce	contraindic n, drug <i>Yoni-Avach</i> edure in the	ations, time of coornana and c prescribed joi	procedur liscuss on urnal profe	e and er special orma.	nsure prere	equisites ns
NLHP 2	20.6	Yonipurana	<ul> <li>(1hr)</li> <li>Teacher will debrief the indications, contraindications, time of procedure and ensure prerequisites : consent, sterilized instruments, linen, oil /decoction</li> <li>Students will perform the procedure Yonipurana and discuss special precautions</li> <li>Complete documentation of the procedure in the prescribed journal proforma.</li> </ul>									
NLHP 20.7 Yoni dhoopana			( <b>1hr</b> ) Teache consen Studen Comple	er will det it, sterilize its will pe ete docum	prief the Ind ed instrume rform the p nentation o	lications,c nts,linen,c rocedure Y f the proce	contraindica dhoopana y <i>Yoni dhoopa</i> edure in the	ations,time of p antra,dhoopan <i>ana</i> and discus e prescribed joo	procedure a drugs. s special p urnal prof	and ens precaution orma.	ons.	juisites:
Topic 2	21 Stree	e Janananga Granthi Evam Arbuda - Benign d	& Malig	gnant les	sions of Fe	male Re	productiv	e System (L	H :4 NL	HT: 2	NLHP: 4	)
A3		B3		C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO2,	Elabora	te Nidana, Samprapti, Bheda, Lakshana and		CC	MK	K	L&PPT	S-LAQ,VV-	F&S	III	-	LH

CO3	Chikitsa of Yonyarsha and Yonikanda.					Viva				
CO2, CO3	Explain the pathologies, clinical features, investigations and treatment of Bartholinitis, Bartholin's abscess and Bartholin's cyst	САР	MK	K	L&PPT	S-LAQ,VV- Viva	F&S	III	-	LH
CO2, CO3	Diagnose and manage Bartholin abscess / Cyst.	CAN	МК	KH	D-M,C BL,D	S-LAQ,CO M,SBA,RK ,VV-Viva	F&S	III	-	NLHP21.1
CO2, CO3	Explain the pathology, clinical features, investigations and treatment of Polyp – Cervical and Endometrial (Fibroid polyp)	CC	MK	K	L&PPT	VV-Viva,S- LAQ	F&S	III	-	LH
CO2, CO3	Diagnose and manage Uterine Polyp	CAN	МК	KH	PBL,D- M,CD,C BL,D	COM,INT, CBA,VV- Viva,SBA	F&S	III	-	NLHP21.2
CO2, CO3	Explain Fibroid Uterus -Types, Clinical features, Investigations and Management	CC	МК	K	DIS,L& PPT	COM,S-LA Q,VV-Viva	F&S	III	-	LH
CO2, CO3	Diagnose and manage Fibroid Uterus.	CAN	МК	КН	D-BED, CBL,D- M,PBL, CD	P-PS,P-PR F,VV-Viva, P-VIVA,P- CASE	F&S	III	-	NLHP21.3
CO2, CO3, CO6	Elaborate Benign conditions of Ovary – Ovarian tumour and Tubo-ovarian mass	CC	MK	K	L&PPT ,D,CBL, PBL,CD	S-LAQ,CO M,VV- Viva,SBA	F&S	III	-	NLHT21.1
CO2, CO3	Diagnose and plan management of Tubo-ovarian mass	CS	MK	KH	CD,D,C BL,D- M,LRI	S-LAQ,SB A,CBA,QZ ,INT	F	III	-	NLHP21.4
CO2, CO3	Identify Premalignant and Malignant lesions of Female reproductive organs.Analyze Vaccination in cervical cancer.	CC	DK	K	CD,CB L,L&PP	SBA,COM, CBA,INT,	F	III	-	NLHT21.2
		T ,X- VV-Viva Ray,LRI								
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Non Lecture	Hour Theory									
S.No	Name of Activity	Description of Theory Activity								
NLHT 21.1	Benign conditions of Ovary and Fallopian tube	(1 hr) Teacher will elaborate and demonstarte benign conditions of Adnexa (ovary and fallopian tube ) Students will discuss differential diagnosis and investigation methods.								
NLHT 21.2	Premalignant and Malignant lesions	(1 hr) Teacher will elaborate clinical diagnosis of premalignant and malignant lesions of Female reproductive organs and discuss diagnostic aids. students will analyze complains, clinical examination and laboratory findings and importance of Vaccination in cervical cancer.								
Non Lecture	Hour Practical	-								
S.No	Name of Practical	Description of Practical Activity								
NLHP 21.1	Diagnose and plan management of Bartholin Cyst /Abscess	<ul> <li>(1 hr) Teacher will demonstrate following on case of Bartholin abscess or Cyst / model / with video - <ol> <li>Clinical examination of vulva with swelling and pain.</li> <li>Surgical management of - a) Cyst – Excision / Marsupialization b) Abscess – Incision and Drainage</li> <li>Student will discuss differential diagnosis and observe Excision/Marsupialization/Incision and Drainage and document. </li> </ol></li></ul>								
NLHP 21.2	Uterine Polyp	(1 hr) Students will analyze signs and symptoms and discuss differential diagnosis with following steps -								

		1. History taking - clinical presentations; Vaginal discharge, Pain in lower abdomen,Intermenstrual bleeding, Irregular bleeding
		2. General examination 3. Pelvic examination : Per speculum : any mass
		Uterus : size
		4. Investigations :
		5. Differential diagnosis
		reacher will demonstrate porypectority on model/ video/ case
NLHP 21.3	Fibroid Uterus.	(1 hr) Students will discuss following steps and analyze diagnosis;
		1. History taking - clinical presentation; Heavy, Painful and Irregular menstruation, lump in abdomen, Pain in lower abdomen, pressure symptoms
		2. General examination
		3. Abdominal examination : with / without enlarged firm mass
		4. Pelvic examination : Uterus - size , aditional mass
		5. Investigations
		Teacher will guide students to plan conservative management and demonstrate surgical management of fibroid uterus.

NLHP 2	21.4	Ovarian tumour / Tubo-ovarian mass	<ul> <li>(1 hr)</li> <li>Teacher</li> <li>of vide</li> <li>Studer</li> <li>1. Hist</li> <li>2. Gen</li> <li>3. Abd</li> <li>4. Pelv</li> <li>5. Inve</li> <li>6. Diff</li> <li>7. Con</li> <li>8. Plar</li> </ul>	er will den eo/ case. nts will an tory taking neral exami dominal ex vic examin estigations ferential d nplication n treatmen	monstarte a alyze meth g - clinical nination xamination tation : Tul s : iagnosis : s : s : t : Young p	od of diag presentati : Abdom poovarian	ed case of T gnosis and a ion; Pain in inal mass mass Parous wor	'ubo-ovarian m appropiate trea lower abdome man	ass and su tment opti n and hea	on with	nanageme following associate	ent with help g steps - d symptoms
Topic 2	8. Plan treatment : Young patient vs Parous woman         9. Plan treatment : Young patient vs Parous woman         3       B3         C3       D3       E3       F3       G3       H3       I3       K3       L3         12       Describe Hety Sampranti Lekehang, Unadanna and Chikitag of Lago (C)       MK       KH       L& & PDT       COM S LA       F       HU       LH											
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3
CO2, CO3	Describ Upadar	e Hetu, Samprapti, Lakshana, Upadrava, and Chikin nsha, Firanga, and Puyameha	tsa of	CC	MK	КН	L&PPT	COM,S-LA Q,VV-Viva	F	III	-	LH
CO2, CO3	Describ organis manage	e Sexually Transmitted Diseases with causative mic ms, pathology, clinical features, investigations and ment.	ro-	CC	МК	КН	L&PPT	VV-Viva,S- LAQ	F&S	III	-	LH
CO2, CO3, CO6	Diagno: Transm	se and plan management of <i>Guhya Roga</i> (Sexually itted Diseases)		CS	МК	КН	L&GD, CD,LRI	CBA,QZ ,V V- Viva,SBA	F&S	III	_	NLHT22.1
Non Lo	ecture H	Iour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT 2	22.1	Guhya roga (Sexually Transmitted Diseases)	(1 hr)									

			Te Str	eachers will ela udents will ha	aborate cli ve Group o	nical feat	ures, diagno 1 and analys	osis and manag is of preventiv	ement of e measure	Guhya r es.	oga (STE	Os)
Non L	ecture I	Iour Practical										
S.No		Name of Practical	D	escription of	Practical	Activity	y					
Topic	23 Yon	i srava - Vaginal Discharge (LH :1 NLH'	T: 1 NLI	HP: 2)								
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO3	Descrit Pradar	e Hetu, Samprapti, Lakshana and Chikitsa of S a.	Shweta	CC	MK	КН	L&PPT	VV-Viva,S- LAQ	F&S	III	-	LH
CO2, CO3	Explair infectio dischar	Infections of Pelvic organs ; i) Due to a specion ii) Due to sensitive reaction iii) Due to Vag ge or urinary contamination	ific ginal	CC	МК	K	DIS,PE R,L&PP T ,D-BE D,CBL	P-PRF,CL- PR,SP,P- VIVA,PRN	F&S	III	-	NLHT23.1
CO2, CO3, CO6	Diagno Leucor	se and manage Abnormal Vaginal Discharges / rhoea (Non-infective)	/	CAN	МК	SH	CBL,PB L,D,CD, DA	CBA,P-CA SE,OSCE, VV- Viva,DOA P	F&S	III	-	NLHP23.1
CO2, CO3, CO6	Diagno	se and manage Abnormal Vaginal Discharges	(Infective)	) CAN	МК	SH	PT,DA, D-BED, CBL,C D	P-CASE,P- VIVA,VV- Viva,P- PRF,DOAP	F&S	III	-	NLHP23.2
Non L	ecture I	Iour Theory			-					•	•	•
S.No		Name of Activity	D	escription of	Theory A	Activity						
NLHT	23.1	Infections of Pelvic organs	(1	hr)								

		Students will be asigned with research project on Infections of Pelvic organs and have peer discussion on underlying etiology. Teacher will elaborate Infections of Pelvic organs - i) Due to specific infection ii) Due to sensitive reaction iii) Due to Vaginal discharge or urinary contamination
Non Lecture I	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 23.1	Abnormal Vaginal Discharges / Leucorrhoea	<ul> <li>(1 hr)</li> <li>Teacher will diagnose and manage Abnormal Vaginal Discharge (Non-infective)</li> <li>Students will discuss importance of steps involved - History taking, General Physical Examination,</li> <li>Pelvic Examination, Investigation, Differential diagnosis and analyze management of Lucorrhoea.</li> </ul>
NLHP 23.2	Abnormal Vaginal Discharges (Infective)	(1 hr) Teacher will diagnose and manage Abnormal Vaginal Discharge (Infective) Students will discuss importance of steps involved - History taking, General Physical Examination, Pelvic Examination, Investigation, Differential diagnosis and analyze management.

# Topic 24 Stana Roga - Breast Disorders (LH :3 NLHT: 1 NLHP: 3)

A3	B3	С3	D3	E3	F3	G3	Н3	I3	К3	L3
CO1, CO2	Explain the Anatomy of Breast and Anatomical defects.	САР	MK	К	L&PPT	S-LAQ,CO M,VV-Viva	F&S	III	-	LH
CO2, CO3		CC	МК	K	L&PPT	VV-Viva,S- LAQ	F&S	III	-	LH

	Elabora Stanarb	e Stana Roga - Stana Keelaka, Stana Granthi and Ida with Nidana, Samprapti, Lakshana and Chikitsa										
CO2, CO3	Describ investig Fibroad	e causative factors, etiopathogenesis, clinical feature ations, complications and management of Mastalgia enoma, Carcinoma breast.	es, I,	CC	DK	K	L&PPT	S-LAQ,VV- Viva	F&S	III	-	LH
CO2	Demons	trate Self Breast examination	I	PSY- SET	МК	КН	SIM,D- M,L_V C,CBL, D	P-PRF,VV- Viva,DOA P,OSCE,SP	F&S	III	-	NLHT24.1
CO2, CO3, CO6	Illustrat mammo Biopsy	e Investigations in diseases of Breast - 1. Sono- gram 2. Fine Needle Aspiration Cytology (FNAC)3	. (	CAN	МК	КН	CBL,C D,LRI,L _VC,L &PPT	P-VIVA,P M,VV-Viva ,SP,P- EXAM	F&S	III	-	NLHP24.1
CO2, CO3, CO6	Diagnos	e and manage Fibroadenoma Breast	(	CAN	МК	КН	D-M,C BL,CD, X-Ray	VV-Viva,P- CASE,S-L AQ,CBA,S BA	F	III	-	NLHP24.2
CO2, CO3, CO6	Diagnos	e Breast carcinoma	(	CAN	MK	K	CBL,LR I,L&PP T ,CD	SBA,VV- Viva,CBA	F&S	III	-	NLHP24.3
Non L	ecture H	our Theory										
S.No		Name of Activity	Descrip	tion of	Theory A	ctivity						
NLHT 2	24.1	Self Breast examination	( <b>1hr</b> ) Teacher Students	will den will dis	nonstrate s cuss the in	teps of sel	f breast exa of Self Bre	amination by V ast examinatio	/ideo / Pic on.	torial d	emonstrati	ion.

Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 24.1	Investigations in diseases of Breast	<ul> <li>(1 hr) Teacher will discuss various methods of investigation in the diseases of Breast and demonstrate procedure by Video / Pictorial demonstration</li> <li>Students will analyze and interprete - <ul> <li>i) Sono-mammogram</li> <li>ii) Fine Needle Aspiration Cytology (FNAC)</li> <li>iii) Biopsy</li> </ul> </li> </ul>
NLHP 24.2	Fibroadenoma Breast	<ul> <li>(1 hr)         Teacher will demonstarte diagnosis and management of Fibroadenoma Breast on case/ model.         Students will elaborate following steps in cases of Fibroadenoma Breast -         1. History taking         2. Examination         3. Investigations         4. Counselling         5. Management         6. Indications for referral         </li> </ul>
NLHP 24.3	Clinical diagnosis of Breast carcinoma	<ul> <li>(1 hr) Teacher will demonstarte clinical features and methods of diagnosis of Breast carcinoma on case/ model.</li> <li>Students will elaborate following steps in cases of diagnosis of Breast carcinoma - 1. History taking</li> <li>Examination</li> <li>Provisional diagnosis</li> </ul>

	4. Ne 5. Dia	ed of Inves agnosis and	stigations 1 referral							
Topic	25 Shastra Karma in Stree Roga - Surgical Procedures in G	ynaecolo	gy (LH:	4 NLHT	: 1 NLHP	: 4)				
A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3
CO3	Elaborate Preoperative preparation with respect to <i>Prasuti Stree</i> <i>Roga</i>	CC	NK	K	L&PPT	S-LAQ,VV- Viva	F	III	-	LH
CO3	Explain Postoperative care in Prasuti Stree Roga	CC	NK	K	L&PPT	S-LAQ,VV- Viva	F	III	-	LH
CO3	Explain Granthi Nirharana (Cystectomy)	CC	DK	K	L&PPT	S-LAQ,VV- Viva	F&S	III	-	LH
CO3	Explain Garbhashaya Arbuda Nirharana (Myomectomy)	CC	DK	K	L&PPT	VV-Viva,C OM,S-LAQ	F	III	-	LH
CO3	Explain the Steps of Laparoscopic Tubal Ligation.	CC	DK	K	L_VC	P-VIVA,V V-Viva	F&S	III	-	NLHT25.1
CO3, CO6	Describe the steps of surgical procedure in <i>Udaragata</i> <i>Garbhashaya Nirharana</i> - Abdominal Hysterectomy	CC	DK	K	D,CBL, L_VC	VV-Viva,C OM,S-LAQ	F&S	III	-	NLHP25.1
CO3, CO6	Describe the steps of surgical procedure in <i>Yonimarga-gata</i> Garbhashaya Nirharana - Vaginal Hysterectomy	CC	DK	К	D,CBL, L_VC	S-LAQ,VV- Viva,COM	F&S	III	-	NLHP25.2
CO3, CO6	Describe the steps of surgical procedure in <i>Garbhashayamukha</i> <i>Vistrutikarana</i> and <i>Lekhana</i> . (Dilatation and Curettage)	CC	DK	К	D,D- M,CBL	S-LAQ,P-V IVA,VV- Viva,COM	F&S	III	-	NLHP25.3
CO3, CO6	Describe the steps of Surgical sterilization – Tubectomy and Vasectomy	CC	DK	K	L_VC,D	VV-Viva,S- LAQ	F&S	III	-	NLHP25.4

Non Lecture	e Hour Theory	
S.No	Name of Activity	Description of Theory Activity
NLHT 25.1	Laparoscopic Tubal Ligation	(1 hr) Teacher will demonstrate laparoscopic procedure of Tubal Ligation through Video / Case Students will observe and document steps of Laparoscopic Tubal Ligation.
Non Lecture	e Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 25.1	Abdominal Hysterectomy	(1 hr) Teacher will demonstrate the steps of surgical procedure in <i>Udaragata Garbhashaya Nirharana</i> - Abdominal Hysterectomy on Video / Case. Students will observe the steps of Abdominal Hysterectomy, discuss precuations and possible complications.
NLHP 25.2	Vaginal Hysterectomy	(1 hr) Teacher will demonstrate the steps of surgical procedure in <i>Yonimarga-gata Garbhashaya nirharana</i> - Vaginal Hysterectomy on Video / Case. Students will observe the steps of Vaginal Hysterectomy, discuss precuations and possible complications.
NLHP 25.3	Dilatation and Curettage	(1 hr) Teacher will demonstrate steps of Dilatation and Curettage and explain the possible complications on Video / Case. Students will observe, discuss the indications and document.
NLHP 25.4	Tubectomy and Vasectomy	(1 hr)

Topic	26 Stree	Roga Sambandhi Aushadhi- Classical Form	Teach possib Stude ulation	er will der ble compli- ents will of s (LH :1	monstrate s cations on bserve,ana	steps of So Video / C lyze the m <b>1 NLHP</b>	urgical steri ase. nethods and : 0)	lization – Tub document.	ectomy an	nd Vasec	ctomy and	l explain the
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO3	Demonst used in P Churna, S Churna, C Vidaryad taila, Jaty Ashokari Pratapala Rasa,Kw Panchava Puga Kha Kushmar	arate Vishishta Phalashruti (Indication) of Formulat Prasuti and Streeroga. Churna Kalpana: Pushyanuga Shatpushpa Churna, Shatavari Churna, Nagakeshar Ghrita Kalpana: Phalaghrita, Kashmaryadi Ghrita, li GhritaTaila Kalpana: Dahtakyadi taila, Shatpush yadi Taila, Narayana Taila,Asava and Arishta: ishta, Kumaryasava,Rasa aushadhi: Rajahpravartin ankeshwar Rasa, Garbhapala Rasa, Pushpadhanva yatha : Nyagrodhadi Kwatha, Dashmoola Kwatha, alakala KwathaPaka Kalpana: Sobhagya Shunthi P anda/ Puga Paka,Avaleha: Jeerakavaleha, ndavaleha	tions a ra pa i Vati, 'aka,	САР	МК	КН	L&GD, DA	INT,VV- Viva	F&S	III	-	LH
CO3	Adapt the Prasuti S	e indication and importance of formulation used in <i>Stree Roga</i> .	L	САР	МК	КН	L&GD, PL,PER ,DIS,D A	SP,CL-PR, PRN,QZ	F	III	-	NLHT26.1
Non L	ecture Ho	our Theory						·				
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT	26.1	Application of Formulations in <i>Prasuti Stree</i> <i>Roga</i>	( <b>1 hr</b> ) Studer Teach	nts will ha er will gu	ve class ro ide student	om presen s to devlo	ntation/ Pee pe critical t	r discussion hinking about	use of for	mulatio	ns in Pras	suti Stree

			Roga									
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Desc	ription of	Practica	l Activity	y					
Topic	27 Nati	onal Maternal Health Programs (LH :1 NI	LHT: 2 N	LHP: 0)								
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO5	Explain Health Suraksh Abhiya Progran	n the aims, objectives, and benefits of Maternal an care programs -"Janani Suraksha yojana""Janani na Karyakram""Pradhan Mantri Surakshit Matritv n""Mission Indradhanush""Menstrual hygiene""I n""MAA program"	d Child Shishu a LaQshya	CC	МК	К	L&PPT	QZ ,S-LAQ ,VV- Viva,COM	F&S	III	-	LH
CO5	Follow	Sexual and Reproductive Health Rights.		AFT- REC	МК	КН	BL,DIS, PL,FC	COM,VV- Viva,INT,Q Z	F	III	-	NLHT27.1
CO5	Explain Child H	the goals, objectives, and strategies of Reproduc lealth programme.	tive and	CC	MK	K	FV,DIS	QZ ,VV- Viva,RK	F&S	III	-	NLHT27.2
Non L	ecture H	Iour Theory		·	·	•						•
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
NLHT	27.1	Sexual and Reproductive Health Rights	( <b>1 hr</b> Stude Teach repro	) ents will do ner will ex ductive rig	) research ( plain the ke hts	on Sexual ey points	and Reproc	luctive Health ealth, sexual ri	rights and ghts, repre	l have po oductive	eer discus e health ar	sion. 1d
NLHT	27.2	Reproductive and Child health care services	(1 hr	)								

			Teac Stud bene repro	Teacher will equip students to get familiarized with Health care facility and functionality. Students will discuss and document the aspects of early identification and tracking of the individual beneficiary throughout the reproductive lifecycle of women and promote, monitor and support the reproductive, maternal, new-born and child health (RMNCH) schemes/programme delivery and reporting.			individual pport the ery and					
Non L	ecture H	lour Practical										
S.No		Name of Practical	Des	cription of	Practical	l Activity	¥					
<b>Topic</b>	28 Med	ical ethics, Record keeping and Audit in	<b>Obstetrics</b>	and Gyna	ecology	(LH :1 N	LHT: 1 N	LHP: 1)				
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	I3	К3	L3
CO6	5 Explain the importance of Medical ethics and documentation Obstetrics & Gynaecology			CC	MK	K	L&PPT	S-LAQ,RK, VV-Viva	F&S	III	-	LH
CO6	Demons	Demonstrate documentation and audit in <i>Prasuti Stree Roga</i>			MK	КН	DIS,PT	RK	F&S	III	-	NLHT28.1
CO6	<ul> <li>Practice documentation - Antenatal Care, Intranatal care,</li> <li>Postnatal care, Tubectomy, Birth registry, Surgery and referral</li> </ul>			CAP	МК	КН	FV,BL,I BL,PT	VV- Viva,RK	F&S	III	-	NLHP28.1
Non L	ecture H	lour Theory		•						-		
S.No		Name of Activity	Des	cription of	Theory A	Activity						
NLHT 28.1 Documentation and audit		(1 hr Teac Stud com	(1 hr) Teacher will demonstrate documentation and audit in <i>Prasuti Stree Roga</i> . Students will observe and analyze Medical records - registers, consent sheets, case sheets and explain components in audit process.						and explain			
Non L	ecture H	lour Practical										
S.No		Name of Practical	Des	cription of	Practical	Activity	Y					

NLHP 28.1	Medical record documentation	(1 hr)
		Teacher will enable students to gain competency in documentation.
		Students will Practice documentation in Antenatal Care, Intranatal care, Postnatal care, Tubectomy,
		Birth registry, Surgery and referral.

(*Refer table 3 of similar ac	ctivity number)
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Activity No*	CO No	Activity details
1.1	CO1	Anatomy of female genital organs
1.2	CO1	Asthi, Sandhi and Parimana of Stree Shroni
2.1	CO2	Concept of Raja, Artava and Shukra.
2.2	CO1	Physiology of Menstruation.
2.3	CO1	Importance of <i>Rutukala</i>
2.4	CO1	Tridosha and Panchamahabhuta in Rutuchakra.
3.1	CO1	Garbha and Garbhavakranti
3.2	CO1	<i>Apara, Nabhinadi</i> and <i>Garbhodaka Vikaras</i> (abnormalities of placenta, umbilical cord and amniotic fluid) with clinical significance.
3.3	CO1	Garbha Poshana (fetal nourishment) and Garbha Vridhhikara Bhava.
3.4	CO1	Month wise fetal development
4.1	CO1	Garbhini Nidana: Diagnosis of pregnancy
4.2	C01,C04	High Risk Pregnancy
4.3	C01,C05	Demographic Statistics in Obstetrics
5.1	C01,C05	Abortion
5.2	CO1	Intra uterine growth restriction
5.3	CO1,CO6	Intra uterine fetal demise.
5.4	CO1	Rakta Gulma

7.1	CO3,CO4	Essential drugs for labour practice; as per National protocol.
8.1	CO4	Prolonged Labour
8.2	CO4	Postmaturity
9.1	CO4	Moodhagarbha - Bheda and Gati.
9.2	CO4	Obstetric Emergencies
9.3	CO1,CO4	Abnormal presentations – face, brow, shoulder presentations
10.1	CO4	Puerperal diseases.
11.1	CO4	Breast milk and feeding techniques.
11.2	CO4	Mastitis and Breast Abscess.
12.1	CO2	Neuroendocrinology with respect to Puberty
12.2	CO2	Applied aspects - Puberty and Adolescence
13.1	CO3	Instruments used in Obstetrics and Gynaecology
14.1	CO2,CO6	Gynaecological history taking.
15.1	CO2	Ashtartava dusti
15.2	CO2,CO6	Artava kshaya, Anartava , Asrugdara & Artava vruddhi
16.1	CO2,CO6	Hormone Replacement Therapy (HRT)
17.1	CO2	Shlokas of Yonivyapad
17.2	CO2	Panchakarma in Yonivyapad

17.3	CO2,CO6	Case studies on different Yonivyapad
18.1	CO2,CO3	Role of Panchakarma in Vandhyatwa
18.2	CO2	Shukra Dushti and semen abnormalities
18.3	CO2	Assisted Reproductive Techniques (ART)
19.1	CO2	Diagnostic tools
20.1	CO3	Kshara karma and Agni karma
20.2	CO3,CO6	Uttara Basti
21.1	CO2,CO3,CO6	Benign conditions of Ovary and Fallopian tube
21.2	CO2,CO3	Premalignant and Malignant lesions
22.1	CO2,CO3,CO6	Guhya roga (Sexually Transmitted Diseases)
23.1	CO2,CO3	Infections of Pelvic organs
24.1	CO2	Self Breast examination
25.1	CO3	Laparoscopic Tubal Ligation
26.1	CO3	Application of Formulations in <i>Prasuti Stree Roga</i>
27.1	CO5	Sexual and Reproductive Health Rights
27.2	CO5	Reproductive and Child health care services
28.1	CO6	Documentation and audit

(*Refer table	e 3	of simila	ar activity	number)
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Practica l No*	CO No	Practical Activity details
1.1	CO1	Tryavarta Yoni
1.2	CO1	Spatial orientation and Blood supply of uterus and adnexa
1.3	CO1,CO4	Female bony pelvis
2.1	CO1	Rajaswala paricharya
3.1	CO1	Garbha Samskara and Pumsavana Samskara.
3.2	C01,C04	Fetus-in-utero
4.1	CO1	Clinical Diagnosis of pregnancy
4.2	CO1	Garbha Vikruti
4.3	C01,C04	Antenatal History taking and Examination
4.4	C01,C05	Investigations in pregnancy
5.1	C01	Ectopic pregnancy
5.2	CO1,CO5	Garbhashaya Mukha Vistrutikarana evam Garbhasaya Lekhana - Dilatation and Curettage Garbhashaya Greeva Samvrutikarana - Cervical Encirclage
5.3	C01	Intra Uterine Growth Restriction, Oligohydramnios and Polyhydramnios
5.4	CO1,CO6	Intrauterine Fetal Demise (IUFD)
6.1	CO1,CO3,CO6	Garbhini Pandu - Anaemia in pregnancy.
6.2	CO1,CO3,CO6	Yamala-garbha - Twin Pregnancy (1 hr)

6.3	CO1,CO3,CO6	Garbhini Jwara - fever in pregnancy.
6.4	CO1,CO3,CO6	Hypertensive disorders in Pregnancy
6.5	C01,C03,C05	Antepartum Hemorrhage -Placenta previa
6.6	C01,C03,C05	Antepartum Hemorrhage - Abruptio placenta
7.1	CO4,CO5	Labour Room Setup
7.2	CO4,CO5	Diagnosis of Labour
7.3	CO4	Fetal skull and labour
7.4	CO4	Adequacy of pelvis
7.5	CO4	Mechanism of Labour
7.6	CO4	Management of stages of labour
7.7	CO3,CO4	Plot partograph
7.8	CO4	Intrapartum fetal monitoring techniques
7.9	CO4,CO5	Stages of Labour
7.10	CO4	Labour monitoring
7.11	CO3,CO4	Episiotomy
7.12	CO4,CO5	Jatamatra Paricharya
8.1	CO4	Preterm labour
8.2	CO4	Postpartum Hemorrhage
8.3	CO4	Retained placenta
	1	

8.4	CO4	Postpartum hemorrhage management.
9.1	CO4	Assisted Breech delivery.
9.2	CO4	Assesment of Cephalo-Pelvic Disproportion
9.3	CO4	Complications of Moodha Garbha
9.4	CO1,CO3,CO4	<ol> <li>Bishop's score and Induction/ Augmentation of Labour</li> <li>Assisted labour techniques</li> </ol>
10.1	CO4	Examination of a puerperal woman - abdominal, perineal, and breast.
10.2	CO4	Sootika Vyadhi
10.3	CO4,CO5	Contraception
11.1	CO4	Techniques of Breastfeeding.
11.2	CO4	Breast Engorgement, Mastitis, Breast abscess
12.1	CO1,CO2	Development of Female reproductive system
12.2	C01,C02	Anomalies of Female reproductive system
12.3	CO2	Puberty
12.4	CO2	Identify normal and abnormal Pubertal changes.
13.1	CO3	Instrument sterilization methods
13.2	CO3	Instruments -Sandansha and Swastika yantra
13.3	CO3	Instruments - Shalaka, Tala & Nadi yantra
13.4	CO3	Sharp instruments.

14.1	CO2,CO6	Examination in Gynaecology including Breast
14.2	CO2,CO6	Abdominal Examination in Gynaecology
14.3	CO2	Plan Diagnostic procedures
14.4	CO2,CO6	Vaginal ,Recto vaginal & Per Rectal examination
15.1	CO2	Artava kshaya - Oligomenorrhoea & Hypomenorrhoea
15.2	CO2,CO6	Anartava - Amenorrhoea evaluation and management
15.3	CO2,CO6	Poly Cystic Ovarian Syndrome (PCOS)
15.4	CO2,CO6	Management of Asrugdara and Artava Vruddhi - Structrual and Non-structural / Systemic causes
16.1	CO2	Menopause
16.2	CO2	Plan management of Menopause
17.1	CO2	Udavarta (Kastartava) / Vatala/ Vipluta /Paripluta yonivyapad.
17.2	CO2,CO6	Pittala/ Rudhirakshara/ Karnini/ Acharana/ Aticharana yonivyapad
17.3	CO2,CO6	Dysmenorrhoea
17.4	CO2,CO6	Endometriosis and Adenomyosis.
17.5	CO2,CO6	Pelvic Inflammatory Disease (PID)
17.6	CO2,CO6	Case presentation on Yonivyapad
17.7	CO2,CO6	Cervical erosion
17.8	CO2,CO6	Yoni kandu - Pruritus Vulvae
17.9	CO2,CO6	Cystocele & Rectocele
17.10	CO2,CO6	Uterovaginal prolapse

18.1	CO2,CO6	Male partner evaluation in Infertility
18.2	CO2,CO6	Female partner evaluation in Infertility
18.3	CO2	Semen Analysis.
18.4	CO2	Interpret Ultrasound / Follicular study
18.5	CO2	Hysterosalpingography (HSG)
18.6	CO2	Cervical mucous tests
18.7	CO2	Intra Uterine Insemination (IUI)
18.8	CO2	Practical case presentation on Infertility
19.1	CO2	PAP test, Visual inspection and Colposcopy
19.2	CO2,CO6	Cervical biopsy and Endometrial biopsy
20.1	CO3,CO6	Yonidhavana and Yoniprakshalana
20.2	CO2	Yoni-Pichu dharana
20.3	CO2	Yoni-varti
20.4	CO2	Yoni lepana
20.5	CO2	Yoni-avachoornana
20.6	CO2	Yonipurana
20.7	CO2	Yoni dhoopana
21.1	CO2,CO3	Diagnose and plan management of Bartholin Cyst /Abscess
21.2	CO2,CO3	Uterine Polyp

21.3	CO2,CO3	Fibroid Uterus.
21.4	CO2,CO3	Ovarian tumour / Tubo-ovarian mass
23.1	CO2,CO3,CO6	Abnormal Vaginal Discharges / Leucorrhoea
23.2	CO2,CO3,CO6	Abnormal Vaginal Discharges (Infective)
24.1	CO2,CO3,CO6	Investigations in diseases of Breast
24.2	CO2,CO3,CO6	Fibroadenoma Breast
24.3	CO2,CO3,CO6	Clinical diagnosis of Breast carcinoma
25.1	CO3,CO6	Abdominal Hysterectomy
25.2	CO3,CO6	Vaginal Hysterectomy
25.3	CO3,CO6	Dilatation and Curettage
25.4	CO3,CO6	Tubectomy and Vasectomy
28.1	CO6	Medical record documentation

Subject	Papers	Theory	]	Practical/Clinical Assessment (200)					
Code			Practical	Viva	Elective	IA	Sub Total	Total	
AyUG-PS	2	200	100	60	10 (Set- TA)	30	200	400	

## 6 A : Number of Papers and Marks Distribution

#### **6 B : Scheme of Assessment (Formative and Summative)**

PROFESSIONAL	FOR	SUMMATIVE		
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	3 PA & First TT	3 PA & Second TT	3 PA	UE**

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

### 6 C : Calculation Method for Internal assessment Marks

		PERIODI	CAL ASSES	SSMENT*		TERM TEST**	TERM ASSESSMENT	
	A 5	В	С	D	Е	F	G	Н
TERM	1 (15 Marks)	2 (15 Marks)	3 (15 Marks)	Average (A+B+C/3 )	Converted to 30 Marks (D/15*30)	Term Test (Marks converted to 30)	Sub Total _/60 Marks	Term Assessmen t (/30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		Е
Final IA	Average of Three Term Assessment Marks as Shown in 'H' Column.							
	Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks.							

# 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

# **Topics for Periodic Assessments**

РА	PAPER 1	PAPER 2
PA 1	Topic 1 Topic 2	Topic 12
PA 2	Topic 3	Topic 13 Topic 14
PA 3	Topic 4	Topic 15
TERM TEST 1 – Entire syllabus of Te	rm 1 of Paper 1 and 2	
PA 4	Topic 5	Topic 17
PA 5	Topic 6	Topic 18
PA 6	Topic 7	Topic 20
TERM TEST 2 – Entire syllabus of Te	rm 2 of Paper 1 and 2	
PA 7	Topic 9	Topic 21
PA 8	Topic 10	Topic 23
PA 9	Topic 11	Topic 24

# III PROFESSIONAL BAMS EXAMINATIONS AyUG-PS PAPER-I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

Similar for Paper II.

# 6 F : Distribution of theory examination

Paper 1 (PRASUTI TANTRA - OBSTETRICS)						
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ	
1	Stree Vishishta Shareera Vigyana - Anatomy of Female Reproductive System	30	Yes	Yes	Yes	
2	Rutuchakra - Menstrual Cycle		Yes	Yes	Yes	
3	Garbha Vigyana - Embryology & Fetal Development		Yes	Yes	Yes	
4	Garbhini Vigyana - Physiology of Pregnancy & Antenatal Care		Yes	Yes	Yes	
5	Garbha Vyapad - Fetal Pathologies	40	Yes	Yes	Yes	
6	Garbhini Vyapad - Minor Ailments and Major Disorders of Pregnancy		Yes	Yes	Yes	
7	Prasava Vigyana - Labour		Yes	Yes	Yes	
8	Prasava Vyapad - Labour Complications & Obstetric Emergencies.	30	Yes	Yes	Yes	
9	Moodhagarbha - Obstructed Labour		Yes	Yes	Yes	
10	Sootika Vigyana - Puerperium		Yes	Yes	Yes	
11	Stanya Vigyana - Lactation		Yes	Yes	No	
Tota	ll Marks	100				

Paper 2 (STREE ROGA - GYNAECOLOGY)						
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ	
12	Stree Prajanananga Nirmana and Vikruti - Development of Female Reproductive System with Anomalies.	30	Yes	Yes	Yes	
13	Yantra evam Shastra - Instruments		Yes	Yes	No	
14	Stree Rugna Parikshana - Gynaecological Examination		No	Yes	No	
15	Artava Vyapad - Menstrual Disorders		Yes	Yes	Yes	
16	Rajonivritti - Menopause		Yes	Yes	Yes	
17	Yoni Vyapad - Disorders of Female Reproductive system	40	Yes	Yes	Yes	
18	Vandhyatwa - Infertility		Yes	Yes	Yes	
19	Vyadhi Vinischaya Upaya - Diagnostic Tools and Techniques		Yes	Yes	No	

20	Sthanika Upakrama - In situ Treatment Modalities		Yes	Yes	Yes
21	Stree Janananga Granthi Evam Arbuda - Benign & Malignant lesions of Female Reproductive System	30	Yes	Yes	Yes
22	Guhya Roga - Sexually Transmitted Diseases		Yes	Yes	No
23	Yoni srava - Vaginal Discharge		Yes	Yes	Yes
24	Stana Roga - Breast Disorders		Yes	Yes	Yes
25	Shastra Karma in Stree Roga - Surgical Procedures in Gynaecology		Yes	Yes	Yes
26	Stree Roga Sambandhi Aushadhi- Classical Formulations		Yes	Yes	No
27	National Maternal Health Programs		Yes	Yes	No
28	Medical ethics, Record keeping and Audit in Obstetrics and Gynaecology		No	Yes	No
Tota	ll Marks	100			

#### 6 G : Instructions for UG Paper Setting & Blue print

- 1. All questions shall be compulsory.
- 2. Questions shall be drawn based on Table 6F, which provides the topic name, types of questions (MCQ(Multiple Choice Question), SAQ(Short Answer Question), LAQ(Long Answer Question)).
- 3. The marks assigned in Table 6F for each topic/group of topics shall be considered as the maximum allowable marks for that topic/group of topics.
- 4. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
- 5. Refer to Table 6F before setting the questions. Questions shall be framed only from topics where the type is marked as "YES", and avoided if marked as "NO".
- 6. Each 100-mark question paper shall contain:
  - 20 MCQs
  - 8 SAQs
  - 4 LAQs
- 7. MCQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 3.
  - Questions from the Nice to Know part of syllabus shall not exceed 2.
- 8. SAQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 1.
  - No questions shall be drawn from the Nice to Know part of syllabus.
  - SAQs shall assess understanding, application, and analysis, rather than simple recall.
- 9. LAQs:
  - All LAQs shall be drawn exclusively from the Must to Know part of the syllabus.
  - No questions shall be taken from the Desirable to Know or Nice to Know part of the syllabus.
  - Number of LAQs should not exceed one per topic unless maximum marks exceed 20 for the topic.
- 10. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
- 11. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

### 6 H : Distribution of Practical Exam

S.No	Heads	Marks
1	Case Taking - 2 cases (15 marks each)	30
	<ul> <li>Prasuti - 1 case</li> <li>Stree Roga - 1 case</li> </ul>	
2	Spotting of Instruments, Drugs, Models and Specimen -	30
	<ul> <li>10 Instruments - Identification, use</li> <li>2 Drugs - Identification, indication</li> <li>2 Models - Identification</li> <li>1 Specimen - Identification</li> </ul>	
3	Clinical Skill Based Examination.	20
4	Structured Viva-Voce -	60
	<ul> <li>Shloka recitation - 10 marks</li> <li>Conceptual knowledge - 10 marks</li> <li>Diagnostic interpretation - 10 marks</li> <li>Procedures and practical applications - 10 marks</li> <li>Therapeutics and management - 10 matks</li> <li>Preventive care and recent advances - 10 marks</li> </ul>	
5	Practical record -	20
	<ul> <li>Prasuti Tantra - 5 Garbhini (Antenatal), 5 Prasava (Labour), 5 Sutika (Postnatal)</li> <li>Stree Roga - 10 Stree roga(Gynaecological disorders), 5 Sthanika Upakrama (In-situ treatment modalities)</li> </ul>	
6	Internal Assessment	30

7	Electives Set -TA	10
Total Marks		200

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### Abbreviations

Domain		T L Method		Level		Asse	Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
СС	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
CAP	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	Н-КС	НКС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	Н-РК	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	н-кв	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

	W	Workshops		C-INT	Conducting interview	
	GBL	Game-Based Learning		INT	Interactions	
	LS	Library Session		CR- RED	Critical reading papers	
	PL	Peer Learning		CR-W	Creativity Writing	
	RLE	Real-Life Experience		C-VC	Clinical video cases	
	PER	Presentations		SP	Simulated patients	
	D-M	Demonstration on Model		РМ	Patient management problems	
	РТ	Practical		СНК	Checklists	
	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
	CD	Case Diagnosis		DOPS	DOPS	
	LRI	Lab Report Interpretation		CWS	CWS	
	DA	Drug Analysis		RS	Rating scales	
	D	Demonstration		RK	Record keeping	
	D- BED	Demonstration Bedside		СОМ	Compilations	
	DL	Demonstration Lab		Portfol ios	Portfolios	
	DG	Demonstration Garden		Log book	Log book	
	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				CBA	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	

## COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



# Panchakarma & Upakarma (Therapeutic Procedural Management)

## (SUBJECT CODE : AyUG-PK)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



# NCISM III Professional Ayurvedacharya (BAMS) Subject Code : AyUG-PK

Panchakarma & Upakarma (Therapeutic Procedural Management)

### Summary

Total number of Teaching hours: 300					
Lecture (LH) - Theory					
Paper I	100	100 100(LH)			
Non-Lecture (NLHT)					
Paper I	60	60	200(NLH)		
Non-Lecture (NLHP)					
Paper I	140	140			

Examination (Papers & Mark Distribution)						
Item	Theory Component Marks		Practical Com	ponent Marks		
		Practical	Viva	Elective	IA	
Paper I	100	100	70	-	30	
Sub-Total	100	200				
Total marks	300					

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

# **PREFACE**

Panchakarma, a cornerstone of Ayurveda, embodies holistic healing through detoxification, rejuvenation, and restoration of balance in body and mind. This syllabus is designed to provide students with a profound understanding of its principles, therapeutic applications, and integration into modern healthcare.

Structured into ten sections, the curriculum covers foundational and advanced concepts, emphasizing detoxification, rejuvenation, and the clinical implementation of various Panchakarma procedures. Special attention is given to Keraleeya Kriyakrama therapies such as Takradhara, Thalapothichil, Annalepa, and Pizhichil, broadening students' knowledge of region-specific treatments. Additionally, the syllabus explores the selection and application of formulations used in Snehana, Vamana, Virechana, Basti, and Nasya, ensuring students can provide personalized and effective care based on Prakriti, Vikriti, and individual health conditions.

To enhance practical skills, the syllabus incorporates hands-on training, case studies, mannequin-based simulations, and interactive learning methods. These approaches foster competency, teamwork, and communication skills—essential qualities for effective clinical practice. The curriculum also integrates contemporary research and modern technological advancements in Panchakarma, ensuring relevance in today's healthcare landscape. Additionally, the inclusion of physiotherapy principles enhances students' ability to combine Panchakarma with other therapeutic modalities.

This revised syllabus represents a significant advancement, removing outdated content while incorporating contemporary insights. Beyond technical proficiency, it fosters essential qualities such as empathy, patient-centered care, and professional communication. Through this comprehensive and innovative approach, students will emerge as skilled practitioners, capable of promoting and integrating Ayurveda within modern medical practice, contributing to its global acceptance and continued relevance.

Furthermore, the curriculum aims to inspire critical thinking and research-oriented learning, encouraging students to explore evidence-based applications of Panchakarma. By integrating traditional knowledge with scientific advancements, the syllabus prepares students to to make meaningful contributions to the continued relevance and efficacy of Panchakarma in contemporary medical practice.

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### **Course Code and Name of Course**

Course code	Name of Course
AyUG-PK	Panchakarma & Upakarma

## Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-PK At the end of the course AyUG-PK, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.			
CO1	Describe the fundamental concepts of Panchakarma	PO1			
CO2	Identify and describe drugs, dose, instruments and their method of application in Panchakarma procedures	PO3			
CO3	Analyze the clinical applications of each procedure based on fundamental principles	PO2			
CO4	Illustrate comprehensive knowledge of Panchakarma procedures with appropriate and sequential Purva Karma, Pradhana Karma and Paschat Karma	PO2			
CO5	Demonstrate skills in performing procedures in various situations	PO4,PO5			
CO6	Assess the therapeutic efficiency and manage complications	PO2,PO7			
CO7	Utilize technological advancements and allied therapeutic interventions	PO2,PO7			
CO8	Possess qualities of a good Communicator and ethical Clinician & Researcher	PO6,PO7,PO8,PO9			

Pape	Paper 1 (Panchakarma and Upakarma)									
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l				
1	<ul> <li>Fundamentals of Panchakarma</li> <li>1. Introduction to Panchakarma</li> <li>2. Panchakarma in Swastha and Atura</li> <li>3. Indications and contraindications of Shodhana</li> <li>4. Agni and Koshta Pariksha in Panchakarma</li> <li>5. Principles in Shodhana</li> <li>6. Requirements of Panchakarma theatre</li> </ul>	1	8	6	2	4				
2	Snehana Karma 1. Introduction 2. Sneha Dravya 3. Lipids 4. Rookshana 5. Abhyantara Snehana 6. Bahya Snehana	1	12	16	12	28				
3	<ul> <li>Swedana Karma</li> <li>1. Introduction</li> <li>2. Swedana Dravya</li> <li>3. Indications and Contraindications of Swedana</li> <li>4. Sagni Sweda</li> <li>5. Niragni Sweda</li> <li>6. Procedure of Saagni Swedana Karma</li> <li>7. Principles of practice of Swedana Karma in Sandhigata Vata, Vatarakta, Pakshaghata, Ardita, Gridhrasi, Amavata</li> <li>8. Swedana Karmukata</li> </ul>	1	12	9	4	10				
4	Special Procedures: Sankara Sweda, Ksheeradhooma, Pizhichil, Dhanyamladhara, Takradhara, Thalam and Thalapothichil and Annalepa Definition, Types, Procedure and Benefits of: 1. Sankara Sweda	2	10	7	9	19				

	<ol> <li>2. Ksheeradhooma</li> <li>3. Pizhichil</li> <li>4. Dhanyamladhara</li> <li>5. Takradhara</li> <li>6. Thalam and Thalapothichil</li> <li>7. Annalepa</li> </ol>					
5	Physiotherapy 1. Introduction 2. Static exercise 3. Isotonic Exercise 4. Deep Heating Modalities 5. Superficial Heating Modalities 6. Electro Therapy 7. Manual Therapy	2	5	6	1	7
6	<ul> <li>Vamana Karma</li> <li>1. Introduction</li> <li>2. Indications and Contraindications of Vamana Karma</li> <li>3. Purva Karma of Vamana</li> <li>4. Pradhana Karma of Vamana</li> <li>5. Paschat Karma of Vamana</li> <li>6. Sadyo Vamana</li> <li>7. Vamana Karmukata</li> <li>8. Principles of practice of Vamana Karma in Shwasa, Amlapitta, Kushta and Yuvanapidaka</li> </ul>	2	10	13	7	15
7	<ul> <li>Virechana Karma <ol> <li>Introduction</li> <li>Classification of Virechana</li> <li>Principles of selection of Virechana formulations</li> <li>Indications and Containdications of Virechana Karma</li> <li>Purva Karma of Virechana</li> <li>Pradhana Karma of Virechana</li> <li>Prachat Karma of Virechana</li> <li>Virechana Karmukata</li> <li>Principles of practice of Virechana Karma in Kushta, Vatarakta, Pakshaghata and Prameha</li> </ol> </li> </ul>	2	10	13	7	15
8	Basti Karma 1. Introduction 2. Basti Yantra and Matra	3	18	18	10	25

	<ol> <li>Anuvasana and Anuvasanopaga, Asthapana and Asthapanopaga Dravya</li> <li>Indications and Contra indications of Anuvasana Basti</li> <li>Purva Karma of Anuvasana Basti</li> <li>Pradhana Karma of Anuvasana Basti</li> <li>Pradhana Karma of Anuvasana Basti</li> <li>Indications and Contra indications of Niruha Basti</li> <li>Indications and Contra indications of Niruha Basti</li> <li>Purva Karma of Niruha Basti</li> <li>Preparation of Basti Dravya</li> <li>Pradhana Karma of Niruha Basti</li> <li>Paschat Karma of Niruha Basti</li> <li>Pincipa Basti Karmukata</li> <li>Anuvasana Basti Karmukata</li> <li>Basti Formulations</li> <li>Principles of practice of Basti a) Niruha in Gridhrasi and Amavata b) Anuvasana in Kateegraha</li> </ol>					
9	<ul> <li>Nasya Karma</li> <li>1. Introduction</li> <li>2. Shirovirechana Gana</li> <li>3. Purva Karma of Nasya</li> <li>4. Pradhana Karma of Nasya</li> <li>5. Paschat Karma of Nasya</li> <li>6. Nasya formulations</li> <li>7. Nasya Karmukata</li> <li>8. Principles of practice of Nasya in Pakshaghata, Apabahuka, Manyastambha and Ardita</li> </ul>	3	10	10	6	12
10	Emergency management and Research updates in Panchakarma and Upakarma 1. Emergency management 2. Research updates in Snehana, Swedana, Vamana, Virechana, Basti, Nasya and Upakarma	3	5	2	2	5
Tota	Total Marks			100	60	140

Paper 1	Paper 1 (Panchakarma and Upakarma)									
A3 Cour se out come	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
Topic 1 Fundamentals of Panchakarma (LH :6 NLHT: 2 NLHP: 4)										
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1	Define Panchakarma, Panchashodhana and describe the importance of Shodhana and its benefits .	СК	МК	K	L&PPT ,CBL	S-LAQ	F&S	Ι	-	LH
CO1, CO3	Enlist the types of Raktamokshana and explain its utility in diseases like Kushta, Vatarakta, Siragranthi and Gridhrasi .	CC	NK	KH	CBL,L_ VC	CBA,QZ	F	Ι	-	NLHT1.1
CO1, CO3	Explain the concept of Panchakarma in Swastha and Atura.	CC	МК	KH	L_VC,P ER	S-LAQ	F&S	Ι	-	LH
CO1, CO3	Explain Rutu Shodhana.	CC	МК	KH	TPW	M- POS,PRN	F&S	Ι	-	NLHT1.2
CO1, CO3	Explain the general indications and contraindications of Shodhana Karma	CC	MK	KH	CBL,DI S,L&PP T	CBA,S- LAQ	F&S	Ι	-	LH
CO1	Explain Agni and Koshta Pariksha in Panchakarma	CC	MK	KH	REC,L &PPT ,PrBL	CL-PR,S- LAQ,SBA	F&S	Ι	-	LH
CO1, CO3	Apply the assessment of Koshta and Agni Pariksha in Panchakarma clinically	САР	МК	KH	CBL,BS	PP-Practica l,CBA,T- OBT	F&S	Ι	-	NLHP1.1

CO1, CO3	Explain	Doshagati and Upasthitha Dosha in Panchakarma		CC	MK	K	BL,L&P PT	S-LAQ	F&S	I	-	LH
CO1	Describ Ashtam	e Prakruthi Praptha Purusha Lakshana and ahadoshakarabhava.		СК	DK	К	L&PPT ,REC	M-POS,VV- Viva	F	Ι	-	LH
CO1	CO1 Reproduce the requirements of Panchakarma theatre.		PSY- GUD	DK	D	RP,L_V C,RLE, SIM,FV	CHK,M- CHT	F&S	Ι	-	NLHP1.2	
CO1, CO7	<ul> <li>CO1, Demonstrate recent developments in instrumentation in practice</li> <li>CO7 of Panchakarma and Upakarma</li> </ul>			CAP	DK	КН	L_VC,D ,FV	P-ID,M-PO S,P-MOD	F	Ι	-	NLHP1.3
Non Lo	ecture H	lour Theory				-				-		
S.No	S.No Name of Activity D				Theory A	Activity						
NLHT	1.1	Utility of Raktamokshana in diseases	Group Discussion Students are divided into groups, each assigned a condition (Kushta, Vatarakta, Siragranthi, or Gridhrasi) with detailed case scenarios. Groups discuss symptoms, diagnostic criteria, Raktamoksha modalities, management challenges, and propose solutions. After 20-30 minutes, each group presents their findings, followed by a class discussion. The session concludes by emphasizing the importance of Raktamokshana, with assessments based on engagement and solution quality.						ni, or ktamoksha pup presents mportance of			
NLHT	1.2	Project work on Rutu Shodhana	Team Project Work Divide the students into six teams, assigning each team a specific season (Vasanta, Grishma, Vas Sharad, Hemanta, and Shishira). Instruct them to create a comprehensive plan for Rutu Shodhan tailored to their assigned season. Each project should include a title, clear objectives, detailed methodology, a timeline for implementation, necessary resources, and a risk management strateg address potential challenges. Encourage creativity and thoroughness in their presentations to fos deeper understanding of seasonal Ayurvedic practices.					na, Varsha, aodhana iled strategy to to foster a				

Non Lo	Lecture Hour Practical										
S.No	Name of Practical	De	scription of	f Practica	l Activity	y					
NLHP	1.1 Koshta and Agni Pariksha i	n Panchakarma Cas Intr syr det ass dis Par	Case Based Learning Introduce a case that necessitates Agni / Koshta Pariksha , focusing on patient presenting with symptoms of digestive discomfort, like bloating, irregular bowel movements, and fatigue. Provide details about their diet, lifestyle, and medical history. Participants analyze the case in small groups, assessing Agni and Koshta imbalances. Each group presents findings, followed by an instructor-led discussion. The session concludes with key takeaways on the clinical importance of Agni/Koshta Pariksha in Ayurveda.								
NLHP 1	1.2 Panchakarma theatre requir	ements Sin Stu and and ma wo	Simulation Students simulate a Panchakarma theatre setup, identifying infrastructure needs, organizing equipment, and ensuring sterilization. They role-play as therapists and patients, practicing positioning, draping, and procedures while maintaining hygiene. Emergency scenarios are simulated to enhance crisis management skills. Through hands-on participation, students internalize spatial arrangements, workflow, and safety protocols for practical learning.								
NLHP 1	1.3 Advancement in instrument and Upakarma	hentation in Panchakarma Field visit The instructor guides students through a Panchakarma theatre or video demonstrations, explaining equipment and recent advancements. Students engage through observation, questions, and discussions on challenges. They summarize key points, enhancing their practical understanding of Panchakarma procedures and instrumentation.									
Topic 2	2 Snehana Karma (LH :16 NLH			1	-	i				-	
A3	B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1	D1 Define Sneha and Snehana and describe the classification of			MK	K	ML,L&	S-LAQ	F&S	I	-	LH

	Snehana Karma				PPT					
CO1	Explain the importance of Snehana Karma	CC	MK	KH	DIS,BS	T- OBT,PRN	F&S	Ι	-	NLHT2.1
CO1	Describe Guna of Sneha Dravya.	СК	MK	K	EDU,B L,L&PP T	T-OBT,M- CHT,QZ	F&S	Ι	-	LH
CO2	Describe the Indications of Ghrita.	СК	MK	K	TUT,RE C,L&PP T	WP	F&S	Ι	V-RS,V- RS	LH
CO2	Describe the Indications of Taila.	СК	МК	K	L&PPT ,PrBL,D A	T-OBT,QZ	F&S	Ι	V-RS,V- RS	LH
CO2	Demonstrate principles of selection of Sneha in Bahya Snehana according to Dosha, Satmya, Avastha and Vyadhi.	САР	MK	KH	CBL,T UT	SBA,CBA	F&S	Ι	V-RS,V- RS	NLHT2.2
CO2	Demonstrate principles of selection of Sneha in Abhyantara Snehana according to Dosha, Satmya, Vyadhi and Avastha.	CAP	MK	KH	RP,CBL	CL-PR,P- EXAM	F&S	Ι	-	NLHT2.3
CO7	Describe classification of Lipids, Digestion, Absorption and Metabolism of Fat	СК	МК	К	L_VC,P ER,L& GD,CB L	PRN,O-QZ	F	Ι	V-KS	LH
CO7	Comprehend metabolism of fat in the context of Abhyantara Snehana	CC	DK	KH	L&GD, TPW	CL-PR,QZ ,SBA,CR- W	F	Ι	-	NLHT2.4
CO7	Distinguish Pharmacodynamics of Snehana through Oral, Rectal and Topical methods	CC	DK	KH	L&GD, CBL,BS	CL-PR,M- CHT,M- POS	F	Ι	-	NLHT2.5

CO1, CO2	Describe the importance and method of Deepana, Pachana and Rookshana in Snehana	СК	МК	К	PER,RL E,L&PP T	COM,CL- PR	F&S	Ι	-	LH
CO1, CO2	Describe the Guna of Rookshana dravya- Ushnodaka,Dhanyamla, Takra and Samyak Rookshana Lakshana	СК	МК	К	L&PPT ,TPW,L &GD	QZ ,PRN	F&S	Ι	V-DG	LH
CO3, CO4	Explain Udwartana, types and its benefits .	CC	МК	КН	FC	PP-Practica 1,DOAP,P- REC,CL- PR	F&S	Ι	-	NLHT2.6
CO3, CO4, CO5	Demonstrate the procedure of Udwartana	PSY- GUD	МК	SH	KL,PT, D-M,D	P- PRF,DOPS	F&S	Ι	-	NLHP2.1
CO3, CO4, CO5	Demonstrate the procedure of Udgharshana and Utsadana.	PSY- GUD	МК	SH	CBL,D- M	DOPS	F&S	Ι	-	NLHP2.2
CO3, CO4	Describe Indications and contra indications of Abhyantara Snehana	СК	MK	K	L,L&PP T ,PER	CL-PR,P- REC	F&S	Ι	-	LH
CO3, CO4	Explain Shodhanartha Snehapana, time of administration, Matra, Kala and Anupana.	CC	MK	KH	L&PPT ,L	S-LAQ,P- REC	F&S	Ι	-	LH
CO3, CO4	Explain Shamanartha Snehapana, Kala, Matra and Anupana.	CC	MK	KH	L&PPT	S- LAQ,PRN	F&S	Ι	-	LH
CO3, CO4	Comprehend Brumhana Sneha Kala, Matra and Anupana.	CC	MK	KH	L&PPT	S-LAQ	F&S	Ι	-	LH
CO3, CO4	Explain the Diet and Parihara Vishaya during Snehapana.	CC	MK	KH	L&GD, BL,TP	CL-PR	F&S	Ι	-	NLHT2.7

					W					
CO3, CO4	Distinguish Accha Sneha and Pravicharana Sneha.	CC	MK	KH	PER,BL ,L&GD	CBA,PRN, P-PRF	F&S	Ι	-	NLHT2.8
CO3, CO4	Demonstrate the procedure of Shodhanartha Snehapana.	CAP	MK	KH	CBL,D- BED	CBA,SP	F&S	Ι	-	NLHP2.3
CO3, CO4	Demonstrate Shodhanartha Snehapana in Kushta and Vatarakta	CAP	MK	KH	CBL,RP ,DIS	СВА	F&S	Ι	-	NLHP2.4
CO3, CO4	Demonstrate the procedure of Shamanartha Snehapana.	CAP	MK	SH	DIS,CB L	РМ,СВА	F&S	Ι	-	NLHP2.5
CO3, CO4	Outline Shamanartha Snehapana in Kushta and Vatarakta	CAN	МК	KH	DIS,CB L,PBL	CBA,SBA	F&S	Ι	-	NLHP2.6
CO3, CO4	Identify Sneha Vyapat and discuss the Chikitsa	CAP	МК	KH	SY,PBL ,CBL	CBA,P- CASE	F&S	Ι	-	NLHP2.7
CO3, CO4	Distinguish Brumhana Snehapana and Sadyasnehana.	CAP	MK	KH	PBL,CB L	SBA	F&S	Ι	-	NLHP2.8
CO3, CO4	Describe definition, indications, contra indications and the benefits of Abhyanga.	СК	MK	KH	FC,L&P PT ,PL	CL-PR,P- REC	F&S	Ι	-	LH
CO3, CO4	Explain types of Massage and various Massage Techniques.	CC	МК	KH	L&PPT ,L_VC,I BL	COM,QZ	F&S	Ι	-	LH
CO3, CO4	Comprehend the concept of Murdha Taila and specific Indications.	CC	MK	KH	BS,L_V C,PER	M-POS,CL- PR,S-LAQ	F&S	Ι	-	LH
CO3, CO4	Interpret Shiropichu and Shirobasti.	CC	MK	KH	TBL,L &PPT ,DIS	S- LAQ,PRN	F&S	Ι	-	LH

CO3, CO4, CO5	Compar	e Abhyanga in Swastha and Atura.	CAN	MK	SH	BS,DIS	CL-PR	F&S	Ι	-	NLHT2.9
CO3, CO4, CO5	Demons	trate different Massaging Techniques	PSY- GUD	МК	SH	D-M,L_ VC,D	P- RP,DOPS	F	Ι	-	NLHT2.10
CO2, CO3, CO5	Identify	the clinical application of Murdhni Taila in Vatavyadhi .	CAN	DK	KH	CBL,BS ,PBL	T-OBT,CL- PR	F&S	Ι	-	NLHT2.11
CO3, CO4, CO5	Demons	trate the procedure of Shiro Abhyanga	PSY- GUD	MK	SH	D-M	OSPE,DOP S	F&S	Ι	-	NLHP2.9
CO3, CO4, CO5	Demons	trate the procedure of Shirodhara with Taila	PSY- GUD	MK	SH	D-M	OSPE,P- PRF,DOPS	F&S	Ι	-	NLHP2.10
CO3, CO4	Demons	trate the procedure of Shiropichu .	PSY- GUD	MK	SH	D,D-M	DOPS	F&S	Ι	-	NLHP2.11
CO3, CO4	Demons	trate the procedure of Shirobasti.	PSY- GUD	MK	SH	D-M	DOPS,P- PRF	F&S	Ι	-	NLHP2.12
CO3, CO4	Demons	trate Kati Basti , Greeva Basti and Janu Basti.	PSY- GUD	MK	SH	D-M	DOPS,P- PRF,OSPE	F&S	Ι	-	NLHP2.13
CO3, Demonstrate Abhyanga . CO4			PSY- GUD	МК	SH	D-M	OSPE,DOP S,P-PRF	F&S	Ι	-	NLHP2.14
Non L	ecture H	our Theory									
S.No		Name of Activity Des	cription of	Theory A	ctivity						

NLHT 2.1	Importance of Snehana Karma	Brainstorming Students are divided into groups to explore the utility of different types of Snehana in Ayurveda, with a particular focus on the roles of both Bahya Snehana and Abhyantara Snehana. Each group discusses the contribution of Snehana to the effectiveness of Panchakarma therapies, emphasizing how proper oleation enhances detoxification, improves circulation, and prepares the body for subsequent procedures. By brainstorming these key aspects, students deepen their understanding of how Snehana plays a critical role in achieving optimal therapeutic outcomes during Panchakarma treatments, ensuring a holistic approach to healing and rejuvenation.
NLHT 2.2	Selection of Bahya Sneha	Case Based Learning In this activity, students are divided into groups and presented with 3-4 patient scenarios, such as a Vata-dominant disorder, a Pitta-related skin condition, and Kapha-related obesity. Each scenario includes details on the patient's prakriti, vikriti, and clinical symptoms. Groups discuss and select an appropriate Taila for each case, justifying their choices based on the involved dosha, the disease nature, and the properties of the selected Taila. This approach aims to deepen understanding of Bahya Sneha and its applications in Ayurveda. Focus discussion on Dhanvantara Taila, Sahacharadi Taila, Pinda Taila, Ksheerabala Taila, Kottamchukkadi Taila,Mahanarayana Taila & Murivenna
NLHT 2.3	Selection of Abhyantara Sneha	CBL / Role play In this activity, students analyze 3-4 patient scenarios: a Vata-predominant patient with arthritis, a Pitta- predominant patient with acidity, and a Kapha-predominant patient with obesity. They determine the appropriate type of Sneha (e.g., Ghrita or Taila), dose, Anupana, and administration schedule for each case. A role play follows, where one student acts as the physician explaining Snehapana, another as the patient asking questions, and observers evaluate communication and content accuracy. The discussion also focuses on specific types of Ghrita and Taila, such as Dadimadi Ghrita, Indukanta Ghrita, Kalyanaka Ghrita, Guggulutiktaka Ghrita, Moorchita Tila Taila, and Moorchita Ghrita, to deepen understanding of Abhyantara Snehana in Ayurvedic practice.

NLHT 2.4	Fat metabolism	Group Discussion In this group discussion, participants explore changes in fat metabolism under conditions like fasting, exercise, hyperlipidemia, a ketogenic diet, and Chatussneha practices. Afterward, groups present their findings, with feedback and additional insights from the facilitator. Students also engage in a concept mapping activity, linking key aspects of fat metabolism, including digestion, transport mechanisms, storage, utilization, and hormonal regulation. This approach enhances understanding of the complex processes in fat metabolism.
NLHT 2.5	Snehana Pharmacodynamics	PBL In this activity, groups analyze clinical scenarios involving different applications of Snehana in Ayurveda. One group examines a patient with chronic constipation prescribed Sneha Basti, focusing on absorption and systemic effects. Another group discusses oral Snehapana for a patient with osteoarthritis, exploring how medicated ghee promotes joint lubrication. The third group evaluates a patient with dry skin conditions treated with topical Snehana, assessing local effects. Each group presents their findings, enhancing understanding therapeutic roles of Snehana in various conditions.
NLHT 2.6	Udwartana and its benefits.	Flipped Class room Students review learning materials on Udwartana, including textbook chapters, videos, and infographics before class. Guided questions prompt exploration of its types, benefits, indications, contraindications, and effects on conditions like obesity and skin health. In-class, a quick recap allows students to share insights before breaking into groups to discuss specific Udwartana types, key ingredients, dosha imbalances, and present their findings. This approach deepens understanding of Udwartana's applications in Ayurvedic practice
NLHT 2.7	Diet and Parihara Vishaya during Snehapana	Group Discussion In this group discussion activity, the class is divided into smaller groups, each assigned specific topics related to Snehapana. Topics include foods to avoid during Snehapana, such as heavy, cold, or spicy

		foods, along with the rationale behind each restriction. Another group focus on lifestyle modifications during Snehapana, discussing the importance of avoiding exertion, emotional stress, and exposure to extreme temperatures. Each group engages in thoughtful discussions and share their insights with the class. The activity concludes with a summary of key points and concluding remarks, reinforcing the significance of dietary and lifestyle considerations in optimizing the benefits of Snehapana therapy in Ayurvedic practice.
NLHT 2.8	Discussion on Accha sneha and Pravicharana sneha.	CBL / Group Discussion In this activity, students analyze case scenarios involving the use of different types of Sneha. For instance, one scenario features a patient requiring Accha Sneha for detoxification, while another involves a patient needing Pravicharana Sneha to address arthritis . Students identify the appropriate type of Sneha for each case, justifying their choices based on therapeutic principles, and outlining the method of administration. This exercise aims to deepen their understanding of the clinical applications and benefits of Sneha therapies in promoting health and wellness.
NLHT 2.9	Abhyanga in Swastha and Atura	Group Discussion Students are to be divided into teams to discuss the practice of Abhyanga as part of Dinacharya, focusing on its benefits for both healthy individuals and those with specific health concerns. Each group analyzes two case studies: one involving a healthy individual seeking Abhyanga for general well- being and the other involving a patient experiencing joint stiffness, fatigue, and pain. Students determine the appropriate oil for each case, considering factors such as dosha imbalances and therapeutic goals. They also discuss suitable techniques and strokes tailored to each individual's needs, along with the indications and contraindications for Abhyanga in these scenarios. After thorough analysis, groups present their conclusions, detailing the treatment approach for each case.
NLHT 2.10	Massaging Techniques	Video Demonstration Students watch video demonstrations or practice on mannequins, covering various massage techniques. These include Swedish Massage for relaxation, Deep Tissue Massage for muscle tension, Shiatsu for acupressure and energy flow, Hot Stone Massage for warmth and muscle relaxation, Aromatherapy Massage for emotional well-being, Sports Massage for injury prevention, Myofascial

		Release for fascia tension, and Reflexology for pressure points on the feet and hands. This exposure enhances students' understanding of diverse massage techniques and their benefits.
NLHT 2.11	Clinical application of Murdhni Taila	Case Based Learning Students are to be divided into small groups to discuss clinical cases where Murdhni Taila could be beneficial, such as chronic headaches, insomnia, or hair loss. Each group assesses the specific condition, evaluate the patient's Avastha ,and select the most suitable Murdhni Taila for their case. During their presentations, groups explain why Murdhni Taila is an effective treatment for the discussed condition, highlighting its therapeutic benefits such as enhancing brain function, promoting relaxation, and managing stress.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 2.1	Procedure of Udwartana.	Demonstration The instructor demonstrates Udwartana, covering preparation, herbal powder selection, and application techniques. Emphasizing strokes, pressure, and direction, students observe its effects on circulation and lymphatic drainage. Post-procedure care, including skin cleaning, follow-ups, and lifestyle advice, is explained. Students take notes to refine their understanding for future practice.
NLHP 2.2	Procedure of Udgharshana and Utsadana.	Demonstration (Same as Udwartana)
		<ul> <li>The instructor demonstrates the procedure, including:</li> <li>Preparation of medicated pastes.</li> <li>Patient positioning and sequence of application.</li> <li>Duration of paste retention and removal techniques</li> </ul>

NLHP 2.3	Shodhanartha Snehapana procedure.	Case Based Learning Students present real or hypothetical cases of Shodhanartha Snehapana, analyzing the procedure, including Sneha selection, dosage, and observed outcomes. They evaluate Purva Karma, Sambhara Sangraha, and Atura Pariksha, focusing on Snehapana Matra Nirnaya, Snehapana Kala, and Sneha Anupana. The analysis includes Jeeryamana, Jeerna, and Ajeerna Lakshana, and oleation characteristics (Samyak, Asnigdha, and Ati Snigdha). Students discuss treatment for Asnigdha and Atisnigdha conditions and dietary considerations. The session concludes with a discussion on effectiveness and challenges in Snehapana.
NLHP 2.4	Shodhanartha Snehapana in Kushta and Vatarakta	Roleplay Students simulate consultations for Kushta or Vatarakta patients, focusing on dietary restrictions, lifestyle modifications, and Agni/Koshta assessment to determine the appropriate Sneha dose. They practice Sneha administration in pairs and design diet plans tailored to these conditions. A discussion on Samyak Snigdha Lakshana enhances their understanding of effective Ayurvedic treatment strategies. This activity equips students with the skills to manage these conditions effectively.
NLHP 2.5	Shamanartha Snehapana procedure.	CBL Students explore Shamanartha Snehapana through a clinical scenario, focusing on conditions like Vatarakta or Kushta. They begin with Purva Karma and Sambhara Sangraha, selecting appropriate medicated oils. During Atura Pariksha, they assess readiness with Atura Sidhata, determine Snehapana Matra , Snehapana Kala. Students practice administering the Sneha, observing oleation signs and potential adverse reactions. Post-procedure care includes dietary guidelines, lifestyle modifications, and identifying avoidances (Parihara Vishaya) to ensure effective treatment

NLHP 2.6	Shamanartha Snehapana in Kushta and Vatarakta.	Debate Students are divided into two teams to debate whether Ghrita or Taila is more effective in treating Vatarakta. One team supports Ghrita for its nourishing properties and suitability for Pitta-dominant individuals, while the other favours Taila for its lubricating qualities and better absorption for Vata imbalances. The discussion covers properties, Dosha specificity, and patient tolerance. Similarly, the effectiveness of Shamanartha Snehapana in Kushta is also discussed.
NLHP 2.7	Sneha Vyapat and Chikitsa.	Symposium In this symposium on Sneha Vyapat, students analyze clinical case studies, such as nausea from excess Shamanartha Snehapana dosage and diarrhoea after Ghrita administration. Speakers highlight symptoms, errors in dosage, Sneha selection, and pre-procedure assessments. An interactive discussion follows, with students proposing treatment adjustments, dietary modifications, and corrective measures. Other Sneha Vyapat scenarios are also discussed, fostering critical thinking and emphasizing individualized treatment in Ayurveda
NLHP 2.8	Brumhana Snehapana and Sadya Snehana	Problem Based Learning Students are divided into groups to discuss Brumhana Snehapana with Ghrita or Taila, focusing on key steps like Purvakarma, Sambhara Sangraha, and Atura Pariksha to assess suitability. They determine appropriate dosage (Snehapana Matra Nirnaya), timing (Snehapana Kala), and Sneha Anupana for absorption. The Pradhanakarma involves careful administration, followed by Paschat Karma and dietary recommendations. Students also explore Sadya Snehana, discussing its types, dose, duration, and dietary guidelines, while assessing Samyak Snigdha Lakshana.
NLHP 2.9	Shiro Abhyanga Procedure	Demonstration Using illustrated charts and flipbooks, the instructor demonstrates Shiro Abhyanga without a live patient. Visual aids show step-by-step oil application, massage techniques, pressure points, and procedure duration. Labeled diagrams on a whiteboard or screen help students visualize the movements, while flipbooks guide them through each stage. Interactive discussions encourage students to analyze and explain key steps. This method enhances concept retention and understanding of Shiro

		Abhyanga fundamentals.
NLHP 2.10	Procedure of Shirodhara with Taila.	Demonstration The instructor guides students through the Taila Shirodhara procedure on a volunteer or mannequin. The session begins with Purva Karma, preparing the patient, recording vital signs, and performing a brief Abhyanga on the head, neck, and shoulders. During Pradhana Karma, the instructor demonstrates setting up the dhara pot and pouring warm medicated oil in a continuous stream over the forehead. In Paschat Karma, students learn to remove excess oil, apply Rasnadichurna, and advise the patient to rest post-treatment. This demonstration enhances understanding of Taila Shirodhara's therapeutic techniques.
NLHP 2.11	Shiropichu demonstration.	Demonstration The instructor guides students through the Shiropichu procedure on a volunteer or mannequin. The session begins with Purva Karma, preparing the patient, explaining the procedure, obtaining consent, and gathering materials like medicated oil and sterile cotton pads. During Pradhana Karma, the instructor demonstrates soaking the cotton pad in warm oil and placing it securely on the crown of the head. In Paschat Karma, students learn to remove the Pichu after 30-60 minutes and gently clean the scalp, providing post-treatment care instructions. The procedure may also be demonstrated using a pre- recorded video or 3D animation.
NLHP 2.12	Shirobasti demonstration	Demonstration The instructor guide students through the step-by-step procedure of Shirobasti. The session begins with Purva Karma, which involves patient preparation. During Pradhana Karma, the instructor demonstrates how to securely fit a leather cap on the patient's head, fill it with warm medicated oil, and maintain the temperature throughout the treatment. Finally, in the Paschat Karma phase, students observe how to properly remove the oil, conduct a gentle massage on the neck and shoulders, and advise the patient on post-treatment care.
NLHP 2.13	Sthanika Basti demonstration.	Demonstration

			The in The sec includ instruct duration proceed residu	The instructor illustrate the step-by-step procedure of Sthanika Basti on a volunteer or mannequin. The session begins with Purva Karma, which involves preparing the patient and the environment, including preparation of moulds and warming the medicated oil. During the Pradhana Karma, the instructor demonstrates the application of the warm medicated oil ensuring proper placement and duration for optimal therapeutic effects. Finally, in the Paschat Karma phase, students learn about pos procedure care, including observing the patient for any reactions and ensuring proper removal of any residual oil.						innequin. onment, ma, the ent and n about post- oval of any		
NLHP 2.14       Procedure of Abhyanga		Demo The ir sessio Karma circula absort unders	Demonstration The instructor guides students through the Abhyanga procedure using a volunteer or mannequin. The session begins with Purva Karma, preparing the environment and warming the oil. During Pradhana Karma, the instructor demonstrates the massage technique, emphasizing long strokes on limbs and circular motions on joints. In Paschat Karma, students learn post-massage care, allowing the oil to absorb before taking a warm shower. This approach enhances students' practical skills and understanding of therapeutic effects of Abhyanga									
Topic	3 Swed	ana Karma (LH :9 NLHT: 4 NLHP: 1	.0)									
A3		<b>B</b> 3		C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3
CO1	Describ of Swee	e definition of Sweda,Swedana karma and lana karma with its Guna.	classsification	СК	MK	K	TBL,L &PPT	CL-PR,S- LAQ	F&S	Ι	-	LH
CO1	O1 Describe Guna and Karma of Sweda and Swedopaga Dravya.		СК	МК	K	L&PPT ,ML	CL-PR,QZ ,S-LAQ	F&S	Ι	-	LH	
CO2, CO3	CO2, Explain indications and contraindications of Swedana Karma.		CC	МК	KH	CBL,BL ,BS,L& PPT	CL-PR,S- LAQ	F&S	Ι	-	LH	

CO3	Explain indications, contraindications and method of application of Chaturvidha Sweda.	CC	МК	КН	L&PPT ,PER,DI S	COM,S-LA Q,CL- PR,QZ	F&S	Ι	-	LH
CO3	Distinguish the method of application of Sankara Sweda and Nadi Sweda procedure.	CC	МК	KH	PER,L_ VC,TB L	COM,CL- PR	F&S	Ι	-	LH
CO2	Interpret the Samyak Swedana Lakshana, Ayoga Lakshana and Atiyoga Lakshana.	CC	МК	КН	L&PPT ,PBL,T BL,PER	CL-PR,S- LAQ	F&S	Ι	-	LH
CO3	Analyze the principles of practice of Swedana Karma in the clinical conditions of Sandhigata Vata, Vatarakta, Pakshaghata, Ardita, Gridhrasi and Amavata.	CAN	МК	КН	PER,TB L,CBL	S-LAQ,M- POS,QZ	F&S	Ι	-	LH
CO2, CO3, CO4	Analyze the fitness of Sweda in a patient posted for the procedure.	CAN	МК	КН	D-BED, PER,L& GD,RP	CHK,CL- PR	F&S	Ι	-	LH
CO1, CO4	Explain Swedana Karmukata.	CC	МК	КН	L&PPT ,PER,F C	S-LAQ	F&S	Ι	-	LH
CO4, CO7	Explain the Mechanism of Sweating and Thermoregulation in the context of Swedana	CC	МК	KH	L_VC,D IS,FC	CL-PR,S- LAQ	F	Ι	-	NLHT3.1
CO1, CO3	Discuss the indications of Sweda Karma .	CC	МК	KH	DIS,CB L	CL-PR	F&S	Ι	-	NLHT3.2
CO1, CO3	Discuss the contraindications of Sweda Karma	CC	MK	KH	BS,CBL	CBA,PRN	F&S	Ι	-	NLHT3.3
CO3, CO4,	Demonstrate Tapa Sweda.	PSY- GUD	МК	SH	KL,SIM ,D-	DOPS,DOP S,CBA	F&S	Ι	-	NLHP3.1

CO5							M,TBL					
CO3, CO4, CO5	Demonstrate Upanaha Sweda.		PSY- GUD	МК	КН	D-M,SI M,KL	DOPS,PP- Practical	F&S	Ι	-	NLHP3.2	
CO3, CO4, CO5	<ul> <li>Demonstrate Parisheka Sweda.</li> <li>D5</li> </ul>			PSY- GUD	МК	SH	D,D- M,KL	DOAP,DO PS,CBA	F&S	Ι	-	NLHP3.3
CO3, CO4, CO5	, Demonstrate Avagaha Sweda.		PSY- GUD	МК	SH	D,PT	P-PRF,DO AP,DOPS	F&S	Ι	-	NLHP3.4	
CO3, CO4, CO5	, Demonstrate Nadi Sweda.		PSY- GUD	МК	SH	PT,D,K L	DOPS,OSP E	F&S	I	-	NLHP3.5	
CO3, CO4, CO5	<ul> <li>CO3, Demonstrate practice of Swedana Karma in Sandhigata Vata,</li> <li>CO4, Pakshaghata, Ardita,Gridhrasi and Amavata.</li> <li>CO5</li> </ul>			PSY- GUD	МК	SH	TBL,D, CBL,PE R,KL	P-CASE,C BA,DOPS	F&S	Ι	-	NLHP3.6
Non L	ecture E	lour Theory					•					
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
NLHT	3.1	Mechanism of sweating	Discu In thi discu relatio Kaph their physi	Discussion (Concept Mapping) In this activity, students create a concept map on sweating and thermoregulation in small groups. Th discuss key concepts like the role of sweat glands, neurotransmitters in thermoregulation, and the relationship between sweating and dosha balance in Ayurveda. Students explore how Swedana affec Kapha by generating heat and Vata by mobilizing toxins. After completing their maps, groups prese their findings, fostering a collaborative learning environment that enhances understanding of both physiological and Ayurvedic perspectives.				groups. They and the edana affects oups present of both				

NLHT 3.2	Indications of Sweda Karma	Case Based Learning Students engage in a collaborative activity where they are presented with clinical case scenarios, such as patients with obesity, joint pain, or skin disorders like eczema. In pairs or small groups, they discuss whether Sweda Karma would be appropriate for these conditions and the rationale behind their decisions. Students link each condition to specific dosha imbalances, exploring how Swedana can promote detoxification and balance the doshas. This discussion fosters critical thinking about applying Ayurvedic principles in clinical practice. By the end of the session, students gain a deeper understanding of how Sweda Karma can be effectively integrated into treatment plans for various health issues.
NLHT 3.3	Contraindications of Sweda Karma	Brainstorming Students are divided into small groups to brainstorm the contraindications for Swedana based on prior knowledge. Each group discusses conditions or situations where Swedana would be inappropriate, such as fever, dehydration, pregnancy, weakness, acute infections, skin disorders, and heart conditions. Afterward, each group shares their findings with the class, fostering collaboration and exploring the reasons behind these contraindications. This activity aims to enhance understanding of patient safety in Ayurvedic practices and the importance of careful assessment before administering therapeutic interventions.
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 3.1	Tapa Sweda procedure.	Team Based Learning Students work in groups to practice the procedure with a volunteer, mannequin, or patient under the instructor's guidance. In the Purva Karma phase, teams prepare the patient and gather materials, discussing pre-treatment assessments. During Pradhana Karma, they apply heated materials like hot sand or stones to induce sweating, explaining how it alleviates conditions like Ama Vata. In Paschat Karma, teams discuss post-treatment care, including hydration and dietary recommendations. This activity promotes teamwork and practical understanding therapeutic applications of Tapa Sweda.

NLHP 3.2	Upanaha Sweda procedure	Simulation Students simulate the procedure using a volunteer, mannequin, or model limb under the instructor's guidance. They prepare a Vatahara herbal paste and ensure the skin is clean during Purva Karma. In Pradhana Karma, students apply the paste to the affected area, cover it with leaves, and secure it with a bandage to retain heat. During Paschat Karma, they remove the paste after the recommended duration, clean the area with lukewarm water, and discuss post-treatment care. This simulation enhances procedural skills and clinical understanding for real-world application.
NLHP 3.3	Parisheka Sweda procedure.	Kinaesthetic learning In the Parisheka Sweda activity, students participate in the procedure under the instructor's guidance. They assist in the Purva Karma phase by preparing the patient with Abhyanga. During Pradhana Karma, students take turns pouring warm medicated liquids to induce sweating, ensuring proper technique and temperature. In the Paschat Karma phase, they practice post-treatment care, including advice for bathing, hydration, and rest. This hands-on experience enhances students' understanding of Parisheka Sweda's therapeutic applications in Ayurveda.
NLHP 3.4	Avagaha Sweda procedure.	Demonstration The instructor demonstrates the Avagaha Sweda procedure using a volunteer, mannequin, or patient. In the Purva Karma phase, the patient undergoes Abhyanga to relax and warm the body. During Pradhana Karma, the patient is immersed in a tub filled with warm medicated liquid, ensuring comfort and effective sweating. The instructor monitors the temperature to maintain optimal conditions. In the Paschat Karma phase, the instructor guides post-treatment care, including skin cleansing and recommendations for hydration and rest. This demonstration provides students with practical insights into therapeutic applications of Avagaha Sweda.
NLHP 3.5	Nadi Sweda procedure.	Demonstration The instructor demonstrates the Nadi Sweda procedure using a volunteer, mannequin, or patient. In the

		Purva Karma phase, the patient undergoes Abhyanga to warm and relax the body. During Pradhana Karma, steam infused with therapeutic herbs is directed towards the affected body part using the Nadi Sweda Yantra, promoting sweating. In the Paschat Karma phase, the instructor guides the patient through post-treatment care, focusing on hydration and rest for recovery
NLHP 3.6	Clinical application of Sweda	Case Based Learning Students engage in an interactive session on Swedana Karma for conditions like Sandhigata Vata, Pakshaghata, Ardita, Gridhrasi, and Amavata. Divided into small groups, they discuss the pathophysiology of assigned conditions. The instructor then delivers a brief lecture on Swedana Karma's mechanism and therapeutic effects. Case studies provide practical context, followed by a live demonstration where the instructor explains procedural modifications for each condition. The session concludes with feedback emphasizing the importance of personalized Ayurvedic therapies.

Topic 4 Special Procedures: Sankara Sweda, Ksheeradhooma, Pizhichil, Dhanyamladhara, Takradhara, Thalam and Thalapothichil and Annalepa (LH :7 NLHT: 9 NLHP: 19)

A3	B3	С3	D3	E3	F3	G3	Н3	I3	К3	L3
CO2, CO3	Explain the definition, types, procedure and benefits of Sankara Sweda	CC	МК	КН	L&PPT	S-LAQ,CO M,QZ	F	II	-	LH
CO2, CO3	Explain the definition, types, procedure and benefits of Ksheeradhooma	CC	МК	КН	L&PPT ,CBL	QZ ,S-LAQ	F	II	-	LH
CO2, CO3	Explain the definition, types, procedure and benefits of Pizhichil	CC	МК	КН	L_VC,L &PPT	CL-PR,S- LAQ	F	II	-	LH
CO2, CO3	Comprehend the definition, types, procedure and benefits of Dhanyamladhara	CC	МК	КН	L_VC,L &PPT	PRN	F	II	-	LH

CO2, CO3	Explain the definition, types, procedure and benefits of Takradhara	CC	MK	KH	L&PPT ,L_VC	CL-PR	F	Π	-	LH
CO2, CO3	Explain the definition, types, procedure and benefits of Thalam and Thalapothichil	CC	MK	KH	L&PPT	CBA	F	II	-	LH
CO2, CO3	Interpret the definition, types, procedure and benefits of Annalepa	CC	МК	КН	L&PPT	DOPS,S- LAQ,DOPS	F	II	-	LH
CO3	Demonstrate the preparation, procedure of various Sankara Sweda with their therapeutic indications.	PSY- GUD	МК	SH	W,D-M, TPW,K L	DOPS,OSP E,P-PRF	F&S	II	-	NLHP4.1
CO3	Demonstrate the procedure of Ksheeradhooma with therapeutic indications .	PSY- GUD	MK	SH	D,SIM, PT,KL	DOPS,P- PRF	F&S	Π	-	NLHP4.2
CO3	Demonstrate the procedure of Pizhichil with therapeutic indications	PSY- GUD	MK	SH	KL,D	P-PRF,OSP E,DOPS	F&S	II	-	NLHP4.3
CO3	Demonstrate the procedure and preparation of Dhanyamladhara with its therapeutic indications.	PSY- GUD	MK	SH	D	OSPE,DOP S,P-PRF	F&S	II	-	NLHP4.4
CO3, CO5	Demonstrate the procedure and preparation of Takradhara with its therapeutic indications.	PSY- GUD	MK	SH	D	DOPS,OSP E,P-PRF	F&S	II	-	NLHP4.5
CO3, CO5	Demonstrate the procedure and preparation of Thalam and Thalapothichil with their therapeutic indications.	PSY- GUD	MK	SH	D,KL,SI M	OSPE,DOP S	F&S	II	-	NLHP4.6
CO3, CO4, CO5	Demonstrate the procedure and preparation of Annalepa with its therapeutic indications .	PSY- GUD	MK	SH	KL,D- M	RK,DOPS, OSPE	F&S	II	-	NLHP4.7
CO1	Discriminate regional variations in practice of Pizhichil	CAN	MK	KH	LS,PL,I BL,PER	DEB,COM	F	Π	-	NLHT4.1
CO1	Comprehend the concept of Sankara Sweda	CC	MK	KH	PL,TBL	CL-PR,INT	F	II	-	NLHT4.2

						,DIS	,COM				
CO1	Identify Thalapo	y and categorise various drugs used for Thalam and othichil	CAN	MK	КН	PrBL,DI S,LS	COM,T- OBT,QZ	F	II	-	NLHT4.3
CO1, CO3	Compre	ehend the utility of Thalapothichil	CC	МК	КН	PBL,CB L	SP,P-PS	F	II	-	NLHT4.4
CO1, CO4	Comprehend the procedure of Takradhara		CC	MK	КН	PL,TBL ,BL	M-POS,CO M,PRN	F	II	-	NLHT4.5
CO1, CO3	Identify variations in practice of Takradhara		CAP	MK	КН	DIS,LS, TBL	CL- PR,COM	F	II	-	NLHT4.6
CO1, CO3	Infer th	e clinical utility of Dhanyamla	CAP	MK	КН	IBL,CB L,DIS	COM,DEB, CL-PR	F	II	-	NLHT4.7
Non L	ecture H	Hour Theory									
		S.No Name of Activity D									
S.No		Name of Activity	Description of	Theory A	Activity						
S.No	4.1	Name of Activity     Interactive learning on regional variations in practice of Pizhichil	Description of Group Discussion Students discuss selection, therap conditions treated effectiveness of challenges of ea their clinical sig	Theory A on regional v ist involve ed. They pu the therapy ch approac nificance,	Activity variations ement, oil resent thei y. A classic th. The fac helping st	in the pract application r findings, o room discus culty conclu udents appr	ice of Pizhichil methods, patie comparing how ssion follows, v ides by summa reciate the adap	Each group ent position these van vhere stud rizing key tability o	oup exp ning, du riations dents an y differe f Pizhic	lores diffe tration, an influence alyze the ences and hil in diffe	erences in oil ad specific the benefits and explaining erent regions.

		all aspects.
NLHT 4.3	Compilation of drugs used for Thalam and Thalapothichil	Team Based Learning Students form small groups and classify the drugs used for Thalam and Thalapothichil based on their type (herbs, oils, pastes, liquids, etc.), dosha specificity, and conditions treated (neurological, psychiatric, dermatological, etc.). Each group discusses their classification and prepares a summary. They then present their findings to the class, followed by a faculty-led discussion that clarifies doubts and highlights the clinical significance of different materials.
NLHT 4.4	Utilty of Thalapothichil	Case Based Learning Divide students into small groups.Each group receives a unique patient scenario, such as a patient with insomnia, migraine, or scalp disorders, and engages in a discussion to analyze the condition based on Ayurvedic principles. They identify the predominant dosha imbalance and determine whether Thalam or Thalapothichil is the most suitable therapy. Using their knowledge of medicinal herbs, oils, and pastes, they carefully select the appropriate materials, considering their therapeutic properties and mode of action. Groups then justify their choices by explaining the rationale behind ingredient selection, expected benefits, and potential modifications based on patient-specific factors. This process encourages critical thinking and a deeper understanding of formulation selection in clinical practice.
NLHT 4.5	Interactive discussion on the procedure of Takradhara	Peer learning The class divides into four groups, each focusing on a specific aspect of Takradhara: preparation of Takra , patient preparation and positioning, procedure and technique, and post-procedure care with indications and contraindications. Each group discusses their assigned topic, compiles key points, and prepares a summary. Afterward, the groups reorganize into mixed teams, where each student teaches their assigned aspect to their peers. This process ensures collective learning, allowing every student to gain a comprehensive understanding of the entire procedure through peer interaction and discussion.
NLHT 4.6	Variations in practice of Takradhara	Team Project work Students compare and contrast classical and regional variations of Takradhara, analyzing differences in

		formulations, procedural techniques, and therapeutic applications across Ayurvedic traditions. Keraleeya Panchakarma practices, application in different wings of Ayurveda like Kayachikitsa, Manas Roga, Shalakya Tantra , Koumarabhritya and Prassoti Tantra. By engaging in case-based discussions and analyzing real-world applications, students learn to adapt and apply these variations in clinical practice, ensuring optimal patient care based on individual needs.
NLHT 4.7	Clinical utility of Dhanyamla	Case Based Learning Divide students into small groups.Each group receives a patient case scenario, such as a patient with rheumatoid arthritis, psoriasis, or diabetic neuropathy, and analyzes the condition based on Ayurvedic principles. They determine the appropriateness of Dhanyamla for the given case and discuss the mode of application of Dhanyamla, selecting suitable mode of use based on the patient's dosha imbalance and pathology. The group explores necessary procedure modifications for Dhanyamladhara including temperature adjustments, duration, and method of application, to ensure patient safety and maximize therapeutic effectiveness. They also identify the expected benefits, potential contraindications, and necessary precautions during and after the therapy. Each group then presents their treatment approach to the class, followed by peer feedback and faculty insights, ensuring a deeper understanding of clinical decision-making and personalized patient care.

## Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 4.1	Procedure of Sankara Sweda	Demonstration The instructor begins the demonstration by providing a brief overview of the Sankara Sweda procedure. The practical session follows a step-by-step approach, starting with material collection, where necessary herbs and ingredients are gathered. Next, the preparation of the patient is essential to ensure comfort and readiness for treatment. The teacher then demonstrates the preparation of materials, showcasing how to create different types of Pottali, including Choorna Pinda Sweda, Jambeera Pinda Sweda, Patrapotala Sweda, and Shahtika Sali Pinda Sweda. Following this, the application of the procedure is illustrated, emphasizing the correct techniques for administering the boluses. Finally, Paschat Karma instructions are provided to guide participants on post-treatment care
		and recommendations, ensuring a comprehensive understanding of the Sankara Sweda process.
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NLHP 4.2	Demonstration of procedure of Ksheeradhooma	Kinaesthetic learning The instructor gives a brief overview of the Ksheeradhooma procedure. In the practical session, participants start by gathering the essential ingredients: milk and a suitable herbal decoction. They then prepare the patient, ensuring comfort and readiness. The instructor demonstrates how to make Ksheera, mixing milk with the herbal decoction to create a therapeutic infusion. Participants practice applying the procedure, following standard operating procedures to master the techniques for effective Ksheeradhooma. The session wraps up with Paschat Karma instructions, guiding participants on post- treatment care to enhance the benefits and ensure a complete understanding of the procedure.
NLHP 4.3	Demonstration of the procedure of Pizhichil	Kinaesthetic learning The instructor starts with a brief overview of Pizhichil. In the practical session, participants first collect the materials, including oil for Seka and Thalam, Rasnadi Choorna, muslin cloth, and vessels for heating the oil. They then prepare the patient, ensuring comfort and readiness. The instructor demonstrates how to heat the oil to the right temperature for optimal therapeutic effect. Participants practice applying the procedure according to standard operating procedures, learning the correct techniques for effective Pizhichil application. The session ends with Paschat Karma instructions, guiding participants on post-treatment care to maximize the benefits of this rejuvenating therapy.
NLHP 4.4	Demonstration of Dhanyamladhara procedure	Simulation The instructor begins with a brief introduction to the Dhanyamladhara procedure. In the simulation practical, participants first collect the materials, including Dhanyamla, Varshulika (pots), and Rasnadi Choorna. They then prepare the patient for comfort and readiness. The instructor demonstrates how to heat the Dhanyamla to the correct temperature for effective application. Participants practice applying the procedure following standard operating procedures, ensuring they learn the proper techniques. The session concludes with the instructor providing Paschat Karma instructions, guiding participants on post-treatment care and recommendations to maximize therapeutic benefits.

NLHP 4.5	Demonstration of Takradhara procedure	Demonstration The instructor provides a concise overview of the Takradhara procedure. The practical session begins with material collection, which includes essential items such as Ksheera , herbs for preparing Kashaya, and appropriate Dhara vessels. Following this, the preparation of the patient is emphasized to ensure comfort and readiness for the therapy. The teacher then demonstrates the preparation of Takra. The application of the procedure is conducted ensuring proper technique and effectiveness in delivering the treatment. Finally, the teacher provides Paschat Karma instructions, offering guidance on post- treatment care and recommendations to enhance the benefits of Takradhara, thus ensuring participants gain a comprehensive understanding of this therapeutic practice.
NLHP 4.6	Demonstration of Thalam and Thalapothichil procedure	Kinaesthetic Learning The instructor starts by providing a brief overview of the Thalam and Thalapothichil procedures. In the practical session, participants first collect the materials, including herbal powders, herbal decoction, and oil. They then prepare the patient for comfort and readiness. The instructor demonstrates how to prepare the herbal paste for both procedures. Participants follow along, learning to apply the paste to the scalp using the correct techniques. Finally, the instructor explains Paschat Karma, guiding participants on post-treatment care and recommendations for optimal benefits,
NLHP 4.7	Demonstration of Annalepa procedure	Demonstration The instructor begins with a brief overview of the Annalepa procedure. The practical session commences with material collection, which includes essential ingredients such as Shashtikashali , milk, and a suitable herbal decoction. Following this, the preparation of the patient is to be emphasized to ensure their comfort and readiness for the treatment. The teacher then demonstrates the preparation of the material, illustrating the process of making Annalepa, which involves combining the rice, milk, and herbal decoction to create a paste for application. The application of the procedure is to be conducted according to standard operating procedures , ensuring participants learn the correct techniques for administering Annalepa effectively. Finally, Paschat Karma instructions are to be provided, offering guidance on post-treatment care and recommendations to enhance the therapeutic effects of this nourishing treatment, thus ensuring a comprehensive understanding of the Annalepa procedure.

Topic :	5 Physiotherapy (LH :6 NLHT: 1 NLHP: 7)									
A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO7	Define Physiotherapy and describe the scope and importance of Physiotherapy in practice.	СК	МК	K	L&PPT	S-LAQ	F&S	II	-	LH
CO7	Explain the physiological benefits of Static exercises	CC	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO7	Explain the physiological benefits of Isotonic exercises.	CC	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO7	Distinguish the physiological effects of deep heating modalities & Superficial heating modalities	CC	МК	КН	L&PPT	S-LAQ	F&S	II	-	LH
CO7	Explain the clinical indications & physiological effects of Electrotherapy	CC	МК	КН	L&PPT	S-LAQ	F&S	Π	-	LH
CO7	Interpret the specific applications & physiological effects of Manual therapy	CC	МК	KH	L&PPT ,BL	S-LAQ	F&S	II	-	LH
CO7	Demonstrate the Isotonic exercises, benefits and proper techniques to perform.	PSY- GUD	МК	KH	D-M,C BL,KL	OSPE,DOA P,P- PRF,CBA	F&S	II	-	NLHP5.1
CO7	Demonstrate Superficial heating modalities and Deep heating modalities.	PSY- GUD	DK	SH	KL,CB L	DOAP,OS CE,DOPS	F&S	II	-	NLHP5.2
CO7	Demonstrate Interferential Therapy (IFT), Transcutaneous Electrical Nerve Stimulation (TENS) and Muscle Stimulation Therapy (MST)	PSY- GUD	DK	SH	KL,CB L	OSCE,DO AP	F&S	II	-	NLHP5.3
CO7	Demonstrate Manipulation techniques for Shoulder joint, Knee joint and Spine disorders	PSY- GUD	DK	SH	PT,KL, D	P-PRF,OSC E,DOPS	F&S	II	-	NLHP5.4
CO1, CO7	Relate the integration of Physiotherapy and Ayurvedic approaches	CAP	МК	КН	DIS,BS, CBL	Log book,PM	F&S	Π	-	NLHT5.1

Non Lecture	Hour Theory		
S.No	Name of Activity	Description of Theory Activity	
NLHT 5.1	Discussion on Integration of Physiotherapy and Ayurvedic approaches	Brainstorming The class divides into small groups, each brainstorming on Ayurvedic and Physiotherapy approaches for musculoskeletal and neurological conditions. They explore common principles shared between the two disciplines, such as Marma therapy and trigger point therapy, or Kati Basti and lumbar traction, while also identifying differences in therapeutic goals and techniques. Each group compiles key insights and presents their findings, followed by a faculty-led discussion to refine understanding and highlight the integrative potential of both systems in patient care.	
Non Lecture	Hour Practical		
S.No	Name of Practical	Description of Practical Activity	
NLHP 5.1	Procedure of Isometric and Isotonic Exercise	Kinaesthetic learning The instructor chooses a spacious area and assumes the correct stance, ensuring proper alignment. They guide a volunteer through each movement, demonstrating the postures while explaining the benefits and techniques. The volunteer actively follows along, feeling the stretch and engagement of each muscle. After completing the exercises, they take a brief resting period to recover and reflect. The instructor then sets the number of repetitions, encouraging a gradual increase in intensity. This interactive approach allows participants to experience the exercises firsthand, enhancing their understanding through movement.	
NLHP 5.2	Procedure of Superficial heating modalities and Deep Heating Modalities.	Simulation In a simulated session, a volunteer performs exercises as the instructor demonstrates movements, explaining posture and benefits. Participants observe, analyze form, provide feedback, and discuss corrections. After a brief rest, the instructor assigns repetitions, encouraging coaching practice. This structured approach integrates observation, analysis, and hands-on learning.	

NLHP :	5.3	Procedure of Interferential Therapy (IFT) , Transcutaneous Electrical Nerve Stimulation (TENS) and Muscle Stimulation Therapy (MST)	Demo The ins review machir electric distribu electro conclu exercis	nstration structor de ing medic nes, are ga cal curren ution, adm de placen des with p ses for opt	emonstrate cal history athered bef ts for 20–3 ninistering nent for mo post-treatm imal resul	es IFT, TE for safety fore setup. 30 minutes impulses uscle cont nent care i ts.	ENS, and Ma . Essential 1 . For IFT, el s to stimulat for about 2 raction, aid nstructions,	ST procedures naterials, inclu- lectrodes are p the nerves and r 0 minutes to re- ing rehabilitation emphasizing	, beginnin uding elec laced near nuscles. In elieve disc ion and str recovery,	g with p trodes a the pai TENS comfort. rength. H hydratic	oatient ass nd respect n area, de , electrode MST inve Each demo on, and fol	essment and ive livering mild es target pain plves onstration low-up
NLHP :	5.4	Procedure of Manual therapy	Demo The ins relaxat to redu mobiliz Empha particij	onstration structor de ion and c ice tension zation for asizing pro- pants with	emonstrate irculation, n. Techniq knee and oper technin a practica	es manual joint mob ues such a spinal joir ique, patie al understa	therapies of vilization for as scapular ats are show ent comfort, anding of ef	n a volunteer, the shoulder, manipulation f cased to enha and therapeut fective manua	including knee, and for shouldence flexibitic benefits l therapy a	basic m spine, a er disloc lity and s, the ses applicati	assage tec and myofa ations and relieve st ssion prov ons.	hniques for scial release 1 iffness. ides
Topic	6 Vama	nna Karma (LH :13 NLHT: 7 NLHP: 15)										
A3		<b>B</b> 3		C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO1, CO3	Define of Vam	Vamana and describe the indications and contraind ana Karma	ications	СК	МК	К	L&PPT ,REC,D IS	S-LAQ,P- REC	F&S	II	-	LH
CO1, CO3	Explain	the indications and contraindications of Vamana K	Karma	CC	MK	КН	CBL,L &GD	PRN,QZ	F&S	II	-	NLHT6.1
CO2, CO4	Explain & Atur	n the Purva Karma of Vamana with Sambhara San ra Pariksha.	graha	CC	МК	КН	CBL,L_ VC,L&	S-LAQ	F&S	II	-	LH

					PPT					
CO2, CO4	Explain Atura Siddhata including Abhyantara Snehapana, Vishrama Kala procedures and Vamaka Yoga preparation with anupana and dose	CC	MK	KH	L&PPT ,L_VC	S-LAQ,CL- PR	F&S	II	-	LH
CO2, CO4	Explain Pradhana Karma with administration of Vamana Yoga, analysis of Lakshana indicating Doshagati, management during Vamana Karma and observation of Vega	CC	MK	KH	L_VC	CBA,S- LAQ	F&S	II	-	LH
CO2, CO4	Explain the symptoms of Samyak, Ayoga, Atiyoga with Chikitsa of Ayoga and Atiyoga	CC	МК	KH	L_VC	S-LAQ,M- CHT	F&S	II	-	LH
CO2, CO4	Explain Paschat Karma including assessment of Shuddhi, Dhoomapana & Kavala, Samsarjana Krama and Parihara Vishaya of Vamana	CC	МК	KH	CBL,L &PPT ,PBL	CBA,S- LAQ	F&S	II	-	LH
CO4, CO6	Explain Vamana Vyapat and Chikitsa	CC	МК	КН	L&PPT	S-LAQ	F&S	II	-	LH
CO3	Explain the concept of Sadyo Vamana	CC	MK	КН	CBL,L &PPT ,L_VC	S-LAQ	F&S	II	-	LH
CO1, CO3	Explain Vamana Karmukata	CC	МК	KH	L&PPT ,L_VC	S-LAQ	F&S	II	-	LH
CO1, CO3	Analyze the principles of practice of Vamana in Kushta	CAN	МК	КН	CBL,PB L	PRN	F	II	-	LH
CO1, CO3	Analyze the principles of practice of Vamana in Shwasa	CAN	MK	КН	CBL,RP ,PBL	PRN	F	II	-	LH
CO1, CO3	Analyze the principles of practice of Vamana in Yuvanapidaka	CAN	МК	KH	PBL,CB L	PRN	F	Π	-	LH

CO1, CO3	Analyze the principles of practice of Vamana in Amlapitta	CAN	MK	KH	CBL,M L,PBL	PRN	F	II	-	LH
CO2	Enlist and Identify Vamana and Vamanopaga dravya and describe the properties of Vamana drugs	СК	MK	KH	L&PPT ,DG	P-ID	F&S	II	V-DG	NLHT6.2
CO3	Prepare a disease wise Vamana Purva Karma chart	CAP	MK	KH	CBL	PRN	F	II	-	NLHT6.3
CO4, CO8	Illustrating patient counselling for Vamana karma	CAN	MK	KH	RP,DL	CL-PR	F	II	-	NLHT6.4
CO4	Show comprehensive knowledge of Vamana Paschat Karma	CAP	МК	KH	PL,CBL ,RP,DIS	PRN	F	II	-	NLHT6.5
CO3	Comprehend the concept of Sadyo Vamana	CC	MK	KH	PL,DIS	T-OBT,M- CHT	F	II	-	NLHT6.6
CO5	Demonstrate Purva Karma of Vamana	PSY- GUD	MK	SH	D	OSPE,DOP S	F&S	II	-	NLHP6.1
CO5	Demonstrate Pradhana Karma of Vamana	PSY- GUD	MK	SH	D,W,K L	OSPE	F&S	II	-	NLHP6.2
CO5	Demonstrate Paschat Karma of Vamana	PSY- GUD	MK	SH	D	OSPE	F&S	II	-	NLHP6.3
CO5	Demonstrate Sadyo Vamana	PSY- GUD	MK	SH	CBL,D	CBA,OSPE	F&S	II	-	NLHP6.4
CO5	Demonstrate Vamana Karma in Shwasa	PSY- GUD	МК	KH	D,CBL, L&PPT ,PBL	DOPS,OSC E,CBA	F&S	II	-	NLHP6.5
CO5	Demonstrate Vamana Karma in Amlapitta	PSY- GUD	МК	SH	TBL,CB L,PBL, D	CBA,DOPS ,OSCE	F&S	II	-	NLHP6.6

CO5	Demon	strate Vamana Karma in Kushta		PSY- GUD	МК	SH	D,CBL	DOPS,OSC E,CBA	F&S	II	-	NLHP6.7		
Non Le	ecture H	Iour Theory					•		I					
S.No		Name of Activity	Description of Theory Activity											
NLHT (	6.1	Indications and contraindications of Vamana Karma	na Case-Based Learning Students analyze clinical cases involving Kapha disorders and Medoroga, determining whether Vamana is indicated or contraindicated. Each group evaluates symptoms and medical history, justifying their conclusions. The instructor facilitates discussions, encouraging critical thinking. Groups present their findings, reinforcing clinical decision-making and the therapeutic applications of Vamana in practice.											
NLHT (	6.2	Identification of Vamana and Vamanopaga Dravya	Group Discussion Students work in small groups, each assigned a specific task. One group classifies Vamana Dravya, another explores Vamanopaga Dravya, and a third conducts a detailed study of Madanaphala, analyzing its Rasa, Guna, Veerya, Vipaka, and Prabhava. Groups organize findings using charts or digital tools and present their insights. The session concludes with a guided visit to the herbal garde or Dravyaguna museum for direct observation, reinforcing theoretical concepts through practical exposure.									a Dravya, nala, charts or rbal garden ractical		
NLHT (	NLHT 6.3 Preparation of disease wise Vamana Purva Karma chart			<sup>1</sup> Making of Charts The Vamana Purvakarma chart outlines key preparatory steps for effective therapeutic emesis. It begins with Deepana-Pachana to enhance digestion, followed by Abhyantara Snehana with medicated ghee or oil and BahyaSnehana, Swedana and Dietary guidelines during Sneha Sweda and on the day prior to Vamana (Utklesha diet). The chart shall also include psychological preparation which helps patients stay relaxed and informed. This structured approach optimizes Vamana therapy outcomes.										
NLHT (	6.4	Roleplay on patient communication for Vamana	Rolep	olay										

	Karma	Students role-play as Patient and Practitioner to practice patient counseling. The Practitioner establishes rapport, explains Vamana Karma—its purpose, indications (e.g., Kapha disorders), and Purva Karma preparation. They detail the procedure, expected outcomes, benefits (e.g., improved digestion, detoxification), and possible discomforts. Post-procedure care is outlined, and patient concerns are addressed with reassurance. The session concludes with obtaining written consent, reinforcing collaboration. This exercise enhances communication skills and deepens practical understanding of Vamana therapy.
NLHT 6.5	Interactive discussion on Paschat Karma	Group discussion Participants are divided into groups, each assigned specific topics: diet regimen (Samsarjana Krama), lifestyle modifications, and management of complications such as dehydration and fatigue. Each group will conduct research on their topic and then teach their findings to other participants, fostering a collaborative learning environment.
NLHT 6.6	Peer learning on the concept of Sadyo Vamana	Peer learning Participants will be assigned specific topics to prepare, including the definition and importance of Sadyo Vamana, indications and contraindications, steps of the procedure, complications and their management, and a comparison with classical Vamana. Following this, participants will be divided into small groups to discuss their topics and prepare presentations. The session will conclude with a summary of key takeaways, incorporating insights from all participants to enhance understanding of Vamana.
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 6.1	Demonstration of Vamana Purva Karma in a patient	Kinaesthetic learning Students actively participate in each step of Vamana Purva Karma. They begin by collecting and organizing all necessary tools and herbal preparations. They then assess Agni and Koshta to determine the patient's readiness for Vamana therapy. Students perform Abbyenters Spehana and Swedana

## the patient's readiness for Vamana therapy. Students perform Abhyantara Snehana and Swedana,

		applying oil and heat therapy to prepare the body. They engage in selecting an appropriate Vamaka Dravya based on the patient's condition, discussing its properties and effects. Finally, they collaborate in planning dietary guidelines to optimize patient readiness, ensuring hands-on learning and deeper understanding of Vamana Purva Karma.
NLHP 6.2	Pradhana Karma of Vamana in a patient	Kinaesthetic learning Students actively participate in gathering and organizing all necessary tools and medications. They engage in preparing the patient by explaining the procedure and obtaining informed consent. Students then set up and arrange the required medications for easy access. During the application of the procedure, they administer Vamana yoga and assist in Akanta pana to induce vomiting. They observe and assess Vega and Upavega, actively monitoring signs of Samyak, Ayoga, and Atiyoga. Throughout the process, they apply appropriate Chikitsa for any deviations, ensuring hands-on learning and a deeper understanding of the Vamana procedure .
NLHP 6.3	Demonstration of Paschat Karma of Vamana	Kinaesthetic learning Students participate by performing the assessment of Shuddhi to evaluate the purification achieved through Vamana and allied therapies, including monitoring the effectiveness of Dhoomapana and Kavala practices. They collaborate in providing dietary guidelines that support recovery. Students also engage in discussions about Parihara Vishaya, exploring lifestyle modifications to prevent disease recurrence. Finally, they actively discuss Vamana Vyapat and Chikitsa, focusing on the indications and treatment protocols for Vamana therapy, ensuring a hands-on understanding of the procedure and its impact on patient health.
NLHP 6.4	Demonstration of Sadyo Vamana in a patient	Workshop Students actively participate in a hands-on workshop on Sadyo Vamana under instructor supervision. They begin by assessing indications and contraindications, followed by material collection and patient preparation. In small groups, they administer emetic substances, observe vega and upavega, and identify samyak, ayoga, and atiyoga lakshana. Post-procedure, they practice Paschat Karma protocols, including dietary guidelines and recovery care. A debrief session follows, where students analyze outcomes, discuss complications, and refine their approach for real-world application.

NLHP (	5.5	Demonstration of Vamana Karma in a Shwasa patient	Demonstration The instructor demonstrates the Vamana procedure by first collecting and sterilizing necessary tools. They explain the procedure to the patient and obtain informed consent. The materials for Vamana are prepared, and the procedure is demonstrated with attention to technique. The instructor observes for Samyak, Ayoga, and Atiyoga lakshana. Afterward, Paschat karma instructions for post-procedure card are provided, followed by an outcome and assessment to evaluate the procedure's success and any improvements needed.									
NLHP (	5.6	Demonstration of Vamana Karma in an Amlapitta patient	Same as for Shwasa									
NLHP 6	5.7	Demonstration of Vamana Karma in a Kushta patient	Same as for Shwasa									
Topic 7 Virechana Karma (LH :13 NLHT: 7 NLHP: 15)												
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO1	Define contrair	Virechana and describe the indications and dications		СК	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO1	Describ	e the types of Virechana		СК	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO2	Apply t Trivrut Modaka	ne principles of selection of Virechana formulations Lehya. Avipathi Choorna, Abhayadi , Gandharveranda Taila	-	САР	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO2, CO4	Descrit	be the Sambhara Sangraha and Atura Pariksha	ha CK MK K L&PPT S-LAQ F&S II - LH							LH		
CO2, CO4	Explain Aatura Sidhata including Abhyantara Snehapana ,Vishrama Kala procedures and Virechana Yoga with Anupana and dose				МК	КН	CBL,L &PPT	S-LAQ	F&S	II	-	LH

CO4	Explain the administration of Virechana Yoga and observation of Vega	CC	МК	KH	CBL,L &PPT	S-LAQ	F&S	II	-	LH
CO4, CO6	Infers the symptoms of Samyak, Ayoga, Atiyoga of Virechana with Chikitsa of Ayoga and Atiyoga	CAN	МК	КН	L&PPT ,CBL	S-LAQ	F&S	II	-	LH
CO4, CO6	Explain Paschat Karma of Virechana including assessment of Shuddhi, Samsarjana Krama and Parihara Vishaya of Virechana	CC	МК	KH	L&PPT ,CBL	S-LAQ	F&S	II	-	LH
CO4, CO6	Explain Virechana Vyapat and Chikitsa	CC	МК	КН	L&PPT ,CBL	S-LAQ	F&S	II	-	LH
CO1, CO3	Explain Virechana Karmukata	CC	МК	КН	CBL,L &PPT	S-LAQ	F&S	II	-	LH
CO3	Analyse principles of practice of Virechana Karma in Kushta	CAN	МК	КН	L&PPT ,CBL	PRN,S- LAQ	F	II	-	LH
CO3	Analyse principles of practice of Virechana Karma in Vatarakta	CAN	МК	КН	CBL,L &PPT	PRN	F	II	-	LH
CO3	Analyse principles of practice of Virechana Karma in Pakshaghata	CAN	МК	КН	CBL	PRN	F	II	-	LH
CO3	Analyse principles of practice of Virechana Karma in Prameha	CAN	MK	KH	CBL	PRN	F	II	-	LH
CO1	Explain Indications and contraindications of Virechana Karma	CC	MK	KH	L&GD	S-LAQ	F&S	II	-	NLHT7.1
CO2	Enlist and identify Virechana and Virechanopaga Dravya and describe the properties of Virechana Dravya	СК	МК	KH	L&PPT ,DG	P-ID	F&S	II	V-DG	NLHT7.2
CO3	Prepare a disease wise Virechana Purva Karma chart	CAN	MK	KH	CBL	PRN	F	II	-	NLHT7.3
CO3	Distinguish Nitya Virechana and Koshta Shodhana in patients	CC	MK	KH	CBL,TB L	СОМ	F	II	-	NLHT7.4

CO1, CO3	Analyze	e the principles of selection of formulations for Virec	hana	CAN	МК	KH	PBL,CB L	PRN	F	Π	-	NLHT7.5
CO5	Demonstrate Purva Karma of Virechana			PSY- GUD	МК	SH	D	DOPS,OSP E	F&S	Π	-	NLHP7.1
CO5	Demonstrate Pradhana Karma of Virechana			PSY- GUD	МК	SH	D	DOPS,OSP E	F&S	Π	-	NLHP7.2
CO5	5 Demonstrate Paschat Karma of Virechana		PSY- GUD	MK	SH	D	CHK,DOP S,OSPE	F&S	Π	-	NLHP7.3	
CO5	CO5 Demonstrate Virechana Karma in Kushta		PSY- GUD	MK	SH	D,CBL	СВА	F&S	Π	-	NLHP7.4	
CO5	O5 Demonstrate Virechana Karma in Vatarakta			PSY- GUD	МК	SH	CBL,D	СВА	F&S	II	-	NLHP7.5
CO5	Demonstrate Virechana Karma in Pakshaghata			PSY- GUD	МК	SH	CBL,D	СВА	F&S	II	-	NLHP7.6
CO5	Demons	strate Virechana Karma in Prameha		PSY- GUD	МК	SH	CBL,D	СВА	F&S	II	-	NLHP7.7
Non Lo	ecture H	lour Theory										
S.No		Name of Activity	Descri	iption of	Theory A	Activity						
NLHT 7.1 Indications and contraindications of Virechana Karma		Group Studen factors groups explore safety	Discussion its are divi influencing evaluate potential and therap	on ded into sing patient whether V risks of ig peutic effic	mall group selection. irechana is gnoring co acy. Key t	os, each ass Using clini s indicated ntraindicat cakeaways	igned topics li cal cases repre- and discuss th ions and the in are summarize	ke indicati esenting va e rationale nportance d at the en	ons, co rrious d behind of patie d to rei	ntraindicat oshic imba l their deci nt assessm nforce the	tions, and alances, sions. They aent for se concepts.	

NLHT 7.2	Enlist and identify Virechana and Virechanopaga Dravya	Garden visit Students are divided into groups for an interactive session on Virechana and Virechanopaga Dravya. Each group focuses on classifying Virechana Dravya, Virechanopaga Dravya, and detailed study of Trivrit, including its properties and mode of action. Groups discuss the Rasa, Guna, Virya, Vipaka, and Prabhava of their assigned drugs using charts or digital tools. Students also explore Virechana and Virechanopaga drugs in the herbal garden or Dravyaguna museum. This activity enhances understanding of Ayurvedic pharmacology and its therapeutic applications.
NLHT 7.3	Preparation of a disease wise Virechana Purva Karma chart	Making of Charts Students create a comprehensive chart detailing Virechana Purva Karma, including Deepana and Pachana, Snehana (internal and external), Swedana, dietary guidelines, and psychological preparation. Each section outlines the definition, indications, formulations, procedures, and benefits of these practices. This activity enhances understanding of Ayurvedic principles and the importance of preparatory therapies for promoting health and well-being.
NLHT 7.4	Compilation on Nitya Virechana and Koshta Shodhana	Team-Based Learning Students are divided into groups to compile information on Nitya Virechana and Koshta Shodhana, focusing on their definitions, indications, formulations, procedures, and benefits. They explore formulations like Trivrut for Nitya Virechana and specific herbs for Koshta Shodhana. The discussion compares the two therapies, highlighting Nitya Virechana for routine detoxification and Koshta Shodhana for deeper cleansing, along with differences in intensity, frequency, drug choice, and outcomes.
NLHT 7.5	Analysis of selection of formulations for Virechana	PBL Students analyze the selection of Virechana drugs based on various factors, including the Dosha involved, Rogibala, Agnibala, Vaya, Vyadhi Avastha, and seasonal considerations (Rutu). They evaluate the Guna and Kalpana of each formulation to ensure compatibility with the patient's constitution. The discussion focuses on Trivrut Lehya, Avipathi Choorna, Abhayadi Modaka, and Gandharveranda Taila, tailoring each formulation to the patient's specific constitution and health

		status for effective detoxification through Virechana therapy.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 7.1	Demonstration of Virechana Purva Karma	Kinaesthetic Learning In this hands-on demonstration of Virechana Purva Karma, students actively participate in preparing the patient for the procedure. They start by collecting all necessary tools and purgative substances. Next, they assess the patient's overall health and readiness for treatment, including evaluating Agni and Koshta to determine fitness for Virechana. Students then provide specific dietary guidelines, recommending a light diet before the procedure. Once the patient is adequately prepared, students select the appropriate Virechana Dravya based on individual needs. This interactive approach helps students engage with the steps of Virechana Purva Karma, reinforcing their understanding of the preparation required for effective detoxification.
NLHP 7.2	Demonstration of Pradhana karma of Virechana	Kinaesthetic Learning The procedure begins overnight to prepare for purgation. In the morning, students administer Virechana Yoga by giving carefully selected purgative drugs to induce controlled bowel movements. They closely monitor the patient for signs of Vega and Upavega, ensuring the process is proceeding as expected. Throughout the procedure, students make observations for Lakshana of Samyak, Ayoga, and Atiyoga, providing appropriate Chikitsa for any complications arising from Ayoga or Atiyoga. This hands-on approach allows students to engage directly in the detoxification process while prioritizing patient safety and comfort during Virechana.
NLHP 7.3	Demonstration of Paschat Karma of Virechana	Demonstration Paschat Karma instructions guide the patient on post-treatment care, emphasizing recovery. An assessment of Shuddhi evaluates the effectiveness of the purgation process. The instructor outlines dietary guidelines, recommending a light, easily digestible diet to support digestion. Pariharya Vishaya are discussed to prevent symptom recurrence and promote health. Finally, Virechana vyapat and

			Chikitsa are addressed, focusing on potential complications and their management . This approach ensures optimal care after Virechana therapy.													
NLHP 7.4 Demonstration of Virechana in a Kushta patient				Demonstration Material collection gathers all necessary tools and purgative substances. Patient preparation includes assessing their condition and ensuring readiness. The material preparation involves selecting appropriate purgatives based on the patient's needs. During the procedure, the instructor administers the purgative while monitoring the patient for Samyak, Ayoga, and Atiyoga lakshana. After Virechana, Paschat karma instructions guide post-treatment care, including diet and lifestyle adjustments. Finally, a post-treatment assessment evaluates the patient's response and recovery.												
NLHP 7.5         Demonstration of Virechana in a Vatarakta patient         Same as				as for Kus	hta											
NLHP 7	7.6	Demonstration of Virechana in a Pakshaghata patient	Same	as for Kus	hta											
NLHP 7	7.7	Demonstration of Virechana in a Prameha patient	Same as for Kushta													
Topic	8 Basti	Karma (LH :18 NLHT: 10 NLHP: 25)														
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3				
CO1	Describ accordin	e the definition, synonyms and the classification of E ng to Matra, Adhishtana and Krama	Basti	СК	МК	K	L&PPT	S-LAQ	F&S	III	-	LH				
CO2	CO2 Describe the traditional and currently used instruments with the specifications for Niruha and Anuvasana Basti		their	СК	МК	К	L_VC,L &PPT	S-LAQ	F&S	III	-	LH				
CO2	Enlist A Asthapa	Anuvasana, Asthapana, Anuvasanopaga and anopaga Dravya		СК	DK	KH	FC	S-LAQ,QZ ,CL-PR	F	III	-	LH				

Describe the indications and contraindications of Anuvasana Basti	СК	МК	КН	CBL,L &PPT ,EDU	S-LAQ	F&S	III	-	LH
Explain the Purva Karma of Anuvasana Basti including dose, diet and time of administration of Anuvasana Basti	CC	МК	КН	L_VC,L &PPT ,D	S-LAQ	F&S	III	-	LH
Explain the Pradhana Karma of Anuvasana Basti comprising of steps of administration, retention time,Apratyagamana of Sneha,Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga	CC	МК	КН	L&PPT ,CBL	S-LAQ	F&S	III	-	LH
Explain the Paschat karma of Anuvasana Basti comprising of diet and regimen after Anuvasana basti,Vyapat and Chikitsa	CC	МК	KH	L&PPT ,CBL,Pr BL	S-LAQ	F&S	III	-	LH
Describe the indications and contra indications of Niruha Basti	СК	МК	К	L&PPT ,CBL,P BL	S-LAQ	F&S	III	-	LH
Explain the Purva Karma of Niruha basti	CC	МК	КН	KL,L& PPT ,L_VC	S-LAQ	F&S	III	-	LH
Explain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga	CC	МК	КН	L&PPT ,L_VC	S-LAQ	F&S	III	-	LH
Explain the Paschat Karma of Niruha Basti comprising of the diet and regimen after Niruha Basti, Vyapat and Chikitsa	CC	МК	КН	CBL,PB L,L&PP T	S-LAQ	F&S	III	-	LH
	Describe the indications and contraindications of Anuvasana         Basti         Explain the Purva Karma of Anuvasana Basti including dose, diet and time of administration of Anuvasana Basti         Explain the Pradhana Karma of Anuvasana Basti comprising of steps of administration, retention time, Apratyagamana of Sneha, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga         Explain the Paschat karma of Anuvasana Basti comprising of diet and regimen after Anuvasana basti, Vyapat and Chikitsa         Describe the indications and contra indications of Niruha Basti         Explain the Purva Karma of Niruha basti         Explain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga         Explain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga         Explain the Paschat Karma of Niruha Basti comprising of the diet and regimen after Niruha Basti, Vyapat and Chikitsa	Describe the indications and contraindications of Anuvasana BastiCKExplain the Purva Karma of Anuvasana Basti including dose, diet and time of administration of Anuvasana BastiCCExplain the Pradhana Karma of Anuvasana Basti comprising of steps of administration, retention time, Apratyagamana of Sneha, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and AtiyogaCCExplain the Paschat karma of Anuvasana Basti comprising of diet and regimen after Anuvasana basti, Vyapat and ChikitsaCCDescribe the indications and contra indications of Niruha BastiCKExplain the Pradhana Karma of Niruha bastiCCExplain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and AtiyogaCCExplain the Pradhana 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CO1, CO3	Explain the mode of action of Niruha Basti and Anuvasana Basti	CC	MK	КН	L_VC,L &PPT	PRN	F&S	III	-	LH
CO2, CO3, CO6	Describe the ingredients, method of preparation and clinical application of Madhutailika Basti, Vaitarana Basti, Mustadi Yapana Basti, Ksheera Basti, Lekhana Basti, Eranda mooladi Basti, Pippalyadi Anuvasana Basti, Madhuyashtyadi Anuvasana Basti	СК	МК	SH	L&PPT ,BL	S-LAQ	F&S	Ш	-	LH
CO2, CO3, CO6	Analyse the principles of selection of Niruha Basti in Gridhrasi, Amavata and Anuvasana basti in Kateegraha	CAN	MK	KH	CBL,PB L	PRN	F	III	-	LH
CO2, CO7	Identify and compare traditional and conventional Basti Yantra, their components and applications	CAN	МК	SH	KL	RK,PP- Practical	F&S	III	-	NLHP8.1
CO2	Apply to calculate and customize the Matra of Niruha Basti and Anuvasana Basti according to age.	CAP	МК	КН	DIS	M-CHT	F&S	III	-	NLHT8.1
CO2	Enlist and identify Anuvasana and Anuvasanopaga, Asthapana and Asthapanopaga Dravya	СК	МК	KH	DG,L& PPT ,FV	P-ID	F&S	III	V-DG	NLHT8.2
CO3	Identify indications and contraindications of Anuvasana Basti	СК	МК	KH	PBL,CB L	PRN	F&S	III	-	NLHT8.3
CO5, CO8	Demonstrate Purva Karma of Anuvasana Basti	PSY- GUD	МК	SH	D	DOPS,OSP E	F&S	III	-	NLHP8.2
CO4, CO5	Demonstrate Pradhana Karma of Anuvasana Basti	PSY- GUD	МК	SH	D,KL	OSPE,DOP S	F&S	III	-	NLHP8.3
CO4, CO5, CO6	Demonstrate Paschat Karma of Anuvasana Basti	PSY- GUD	МК	KH	D	DOPS,CBA ,OSPE	F&S	III	-	NLHP8.4

CO3	Identify the therapeutic benefits of Niruha Basti	СК	МК	КН	CBL,DI S	PRN	F&S	III	-	NLHT8.4
CO1, CO3	Identify indications and contraindications for Niruha Basti	СК	МК	KH	FC,CBL	CL-PR	F&S	III	-	NLHT8.5
CO5, CO8	Demonstrate Purva Karma of Niruha Basti	PSY- GUD	МК	КН	DIS	OSPE,DOP S	F&S	III	-	NLHP8.5
CO4, CO5	Demonstrate Pradhana Karma of Niruha Basti	PSY- GUD	МК	SH	D	DOPS	F&S	III	-	NLHP8.6
CO4, CO5, CO6	Demonstrate Paschat Karma of Niruha Basti	PSY- GUD	MK	KH	D	OSPE,SBA, DOPS,PP- Practical	F&S	III	-	NLHP8.7
CO1, CO3	Analyse Karmukata of Niruha Basti and Anuvasana Basti	CAN	MK	КН	L_VC,T UT,L& GD	S-LAQ	F&S	III	-	NLHT8.6
CO2	Demonstrate the preparation , indications and application of Basti formulations in clinical scenario	PSY- GUD	МК	SH	D,CBL	P- PRF,DOAP	F&S	III	-	NLHP8.8
CO3	Analyse the role of Basti in Gridhrasi, Amavata and Kateegraha	CAN	МК	КН	CBL,L &GD	P- CASE,CBA	F&S	III	-	NLHT8.7
CO2, CO5	Explain the preparation of Basti Dravya	CC	МК	КН	IBL,L_ VC	PRN,S- LAQ	F&S	III	-	LH
CO1	Describe the importance of Basti	СК	MK	K	L&PPT	S-LAQ	F&S	III	-	LH
CO1	Describe Niruha and Anuvasana Basti Matra according to age	СК	МК	K	L&GD	S-LAQ,VV- Viva	F&S	III	-	LH
Non L	ecture Hour Theory									

S.No	Name of Activity	Description of Theory Activity
NLHT 8.1	Niruha and Anuvasana Basti Matra	Discussion In this activity, students discuss and prepare a chart outlining standard dosages for Niruha and Anuvasana Basti based on age. The facilitator introduces the importance of dosage customization in Ayurvedic practice. Students are divided into small groups to analyze age-specific dosages, calculating the appropriate Matra for each type of Basti. Each group presents their findings, explaining their reasoning and considerations. After presentations, the class engages in a discussion, allowing for questions and insights. The session concludes with a reflection on the importance of dosage customization in clinical practice.
NLHT 8.2	Anuvasana and Anuvasanopaga, Asthapana and Asthapanopaga Dravya	Field visit In this activity, students visit a herbal garden or museum to identify Anuvasana, Anuvasanopaga, Asthapana, and Asthapanopaga Dravya. A guided tour by an expert provides insights into the dravyas. Students explore and analyze the properties of each Dravya, including Rasa, Guna, Veerya, and Vipaka. They document their observations and complete a worksheet detailing each substance's characteristics and uses. Groups then present their findings to the class, highlighting one or two (Madanaphala and Satahwa)identified Dravya and discuss their significance in Basti therapy.
NLHT 8.3	Indications and contra indications of Anuvasana Basti	Interactive learning and case discussion Students analyze the indications and contraindications of Anuvasana Basti through case discussions. The session begins with an overview of Anuvasana Basti's purpose and benefits. Students are divided into groups, each receiving a case study with patient details. Groups identify indications and contraindications based on the case, then present their findings to the class. After each presentation, a discussion facilitates further insights. The activity concludes with a reflection session on the clinical applications of Anuvasana Basti and the importance of patient assessment in Ayurvedic practice.
NLHT 8.4	Benefits of Niruha Basti	Case Based Learning In this activity, students discuss cases who have undergone Basti therapy. Each group reviews symptoms before and after treatment, assessing changes and therapeutic benefits. The activity

		promotes critical thinking as students identify patterns and outcomes. The instructor summarizes key findings, addresses common themes, and encourages deeper analysis of Basti's mechanisms and individualized treatment plans.
NLHT 8.5	Indications and contra indications of Niruha Basti	Case Based Learning In this Niruha Basti activity, students engage in case discussions to analyze its indications and contraindications. The instructor explains Niruha Basti's benefits for detoxification and treating Vata- related disorders. Students are divided into small groups, each reviewing a case study card detailing patient symptoms and health history. They identify indications and contraindications for Niruha Basti based on the case. After discussions, each group presents their case, followed by a class discussion to address questions and insights. The session concludes with a reflection on the clinical applications of Niruha Basti and the importance of thorough patient assessment. This activity promotes critical thinking, teamwork, and practical knowledge.
NLHT 8.6	Niruha Basti and Anuvasana Basti Karmukata	Group Discussion The session begins with a brief lecture on Anuvasana Basti and Niruha Basti, explaining their roles in detoxification and nourishment. Students then work in groups to analyze how each type functions and its therapeutic effects. A class discussion follows, comparing their modes of action and addressing practical challenges. The session concludes with a summary of key insights, reinforcing the clinical relevance of Basti therapy in Panchakarma
NLHT 8.7	Principles of practice of Basti	Discussion Students analyze Basti therapy for Gridhrasi, Amavata, and Kateegraha . After a brief discussion on each condition's pathophysiology, groups explore suitable Basti formulations. Each group presents their findings, explaining how formulation selection aligns with the Sameekshya Bhava.
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity

NLHP 8.1	Demonstration of Basti Yantra	Kinaesthetic learning This demonstration introduces students to the Basti Yantra, covering both traditional and modern versions. Students learn about its components and applications. The activity involves preparing materials, filling the Basti Putaka, lubricating the nozzle, positioning the mannequin, inserting the nozzle, administering the liquid, and ensuring proper aftercare. Students engage with questions throughout to deepen their understanding. The session concludes by emphasizing the evolution of Basti Yantra and its significance in both Ayurvedic therapies and modern healthcare.
NLHP 8.2	Purva Karma of Anuvasana Basti	Demonstration The demonstration of Purva Karma for Anuvasana Basti begins with Sambhara Sangraha. Atura Pariksha is conducted to assess the patient's fitness, followed by an explanation of the Anuvasana Basti kala(time of administration). Abhyanga and Swedana are performed to prepare the body, enhancing absorption. The dose fixation is calculated based on individual needs, and dietary recommendations are provided to optimize the therapeutic effects before administering the Basti.
NLHP 8.3	Pradhana Karma of Anuvasana Basti	Kinaesthetic learning In this activity, students practice administering Anuvasana Basti on a model or simulated patient. They observe and note the patient's response, including any Vega and monitor the evacuation of the Basti Dravya. Students learn to identify Ayoga, Samyakyoga, and Atiyoga Lakshana. They also track the Anuvasana Pratyagamana Kala and apply interventions for Apratyagamana, Ayoga, or Atiyoga as needed. This hands-on experience helps students integrate theoretical knowledge with practical skills for effective Anuvasana Basti administration.
NLHP 8.4	Paschat Karma of Anuvasana Basti	Demonstration In the Paschat Karma demonstration for Anuvasana Basti, the focus is on post-treatment care and dietary recommendations. After treatment, the patient's buttocks are lightly patted, and they are encouraged to relax in a supine position with a raised foot end and a pillow under the head for comfort. Patients remain in this position for a specified duration and are advised to avoid activities or foods that could hinder recovery. The instructor discusses potential complications and management strategies.

		This demonstration highlights the importance of Paschat Karma in optimizing the therapeutic benefits of Anuvasana Basti.
NLHP 8.5	Purva Karma of Niruha Basti	Demonstration The instructor guides students through the preparatory steps for Niruha . The session starts with a discussion on Sambhara Sangraha, covering required materials, including Kashaya, Kalka and food after Basti. Atura Pariksha is emphasized to assess the patient's fitness. Students learn about Niruha Basti Kala for optimal timing and the preparation of the patient with Abhyanga and Swedana. Dietary considerations highlight the need for an empty stomach. Dose Fixation is covered to determine the correct volume of Basti dravya. Finally, students learn about Basti Samyojana Vidhi and how to prepare the Basti Dravya. This demonstration ensures students understand the Purva Karma process in Niruha Basti.
NLHP 8.6	Pradhana Karma of Niruha Basti	Kinaesthetic learning Students actively participate in the positioning of the patient and administration of the Basti using sterile Basti Yantra. They monitor the Basti Daata Dosha , ensure proper dosage, observe the evacuation process for signs of Vega, and note the Niruha Pratyagamana Kala. In case of Apratyagamana, students apply necessary measures for evacuation of Basti Dravya. They also assess Ayoga, Samyakyoga, and Atiyoga Lakshana, practicing interventions based on the therapy's effectiveness. This hands-on approach ensures students understand the key steps in performing Niruha Basti safely and effectively.
NLHP 8.7	Paschat Karma of Niruha Basti	Group Discussion Students engage in group discussions on post-treatment care, diet, and complications of Niruha. Groups explore:
		<ul> <li>Dietary Guidelines: Emphasizing light, digestible foods.</li> <li>Parihara Vishaya: Avoiding strenuous activities, cold exposure, and incompatible foods.</li> </ul>

		• Vyapat & Chikitsa: Identifying complications and their management.												
NLHP 3	8.8 Clinical application of Basti formulations	Case Based Lea Students analyz Basti therapy. E suitable Basti for properties, and o including prepar clinical reasonin The discussion	arning e clinical c ach group ormulation. expected th ration, adn ng and prac should foc	eases of Gr receives a They just herapeutic hinistratior etical appli eus on the	idhrasi, An patient sce ify their ch effects. Aft n, and post- cation of B following b	navata, and Ka nario, assesses oices based on er discussion, care protocols. asti therapy. asti formulatic	teegraha to Dosha inv pathophys groups pre This inter ons	o determine the appropriate volvement, and selects a siology, formulation sent their treatment plans, active approach enhances						
<ul> <li>Madhutailika Basti</li> <li>Vaitarana Basti</li> <li>Vaitarana Basti</li> <li>Mustadi Yapana Basti</li> <li>Ksheera Basti</li> <li>Lekhana Basti</li> <li>Lekhana Basti</li> <li>Eranda mooladi Basti</li> <li>Pippalyadi Anuvasana Basti</li> <li>Madhuyashtyadi Anuvasana Basti</li> </ul>														
Topic	9 Nasya Karma (LH :10 NLHT: 6 NLHP: 12)					~								
A3	B3	C3	D3	E3	F3	G3	H3	13	K3	L3				
CO1	Define Nasya Karma and describe the Indications, contraindications and classification of Nasya based on Karm	a CK	MK	K	L&PPT ,REC	S-LAQ,M- CHT	F&S	III	-	LH				
CO2	CO2 Enlist Shirovirechana Gana and describe currently practiced Shirovirechana Dravya		NK	K	L&PPT ,D	S-LAQ,QZ	F	III	V-DG	LH				
CO2, CO4, CO5	<ul> <li>D2, Explain Purva Karma of Nasya comprising of Sambhara</li> <li>D4, Sangraha, Atura Pariksha, Oushadha Nirnaya, Nasya Kala</li> <li>O5 and Atura sidhata</li> </ul>		МК	КН	L&PPT	S-LAQ	F&S	III	-	LH				

CO2, CO4, CO5	Infer Pradhana Karma of Nasya including administration of Nasya Dravya, Samyakyoga, Ayoga and Atiyoga Lakshana and Chikitsa		МК	КН	L&PPT ,REC	S-LAQ	F&S	III	-	LH
CO4	Explain Paschat Karma of Nasya comprising of Padatala Hastadi Mardana, Dhumapana, Kavala, Diet, Parihara Vishaya, Nasya Vyapat and Chikitsa	CC	MK	КН	REC,L &PPT	S-LAQ	F&S	III	-	LH
CO2, CO3	<ul> <li>Distinguish the ingredients and clinical application of Nasya</li> <li>formulations - Anutaila, Ksheerabala Taila, Karpasastyadi Taila,</li> <li>Shadbindu Taila, Kumkumadi Taila, Brahmi Ghrita, Rasnadi</li> <li>Churna and Tulasi Swarasa</li> </ul>		МК	КН	L&GD, L&PPT	S-LAQ	F&S	III	-	LH
CO1, CO3	Comprehend the mode of action of Nasya Karma	CC	МК	KH	L_VC,L &PPT	PRN,S- LAQ	F&S	III	-	LH
CO1, CO3	Explain and analyze the principles and practice of Nasya Karma in Pakshaghata, Apabahuka, Manyastambha and Ardita.	CAN	МК	КН	L&GD, PBL,CB L,L&PP T	S- LAQ,PRN	F&S	Ш	-	LH
CO2	Enlist and identify Shirovirechana Gana Dravya and describe their properties	CAP	МК	KH	DG,FV, L&PPT	P-ID	F&S	III	V-DG	NLHT9.1
CO3	Prepare Chart for Purva Karma of Nasya	PSY- GUD	МК	SH	LS,TBL ,DIS	CL-PR,PR N,M-CHT	F	III	-	NLHT9.2
CO4	Illustrate Pradhana Karma of Nasya	CAN	МК	KH	L&GD, FC,PER	PRN,CL- PR	F	III	-	NLHT9.3
CO5	Demonstrate Purva Karma of Nasya	PSY- GUD	MK	SH	D-M,D, KL,PT	OSPE,DOP S	F&S	III	-	NLHP9.1
CO5	Demonstrate Pradhana Karma of Nasya	PSY- GUD	МК	SH	KL,D,P T,SIM	P-RP,OSPE ,DOPS	F&S	III	-	NLHP9.2

CO5	Demonstrate Paschat Karma of Nasya		PSY- GUD	МК	SH	D,KL	DOPS,OSP E,P-PRF	F&S	III	-	NLHP9.3	
CO1, CO3	Analyze	the principles of selection of formulations for Nasy	ya	CAN	MK	KH	PBL,LS ,CBL	PRN,SBA	F&S	III	-	NLHP9.4
CO5	Demons	strate Nasya Karma in Pakshaghata		PSY- GUD	MK	SH	CBL	СВА	F&S	III	-	NLHP9.5
CO5	Demons	strate Nasya Karma in Apabahuka and Manyastamb	oha,	PSY- GUD	MK	SH	D,CBL	СВА	F&S	III	-	NLHP9.6
CO5	Demonstrate Nasya karma in Ardita.			PSY- GUD	MK	SH	CBL,D	СВА	F&S	III	-	NLHP9.7
CO1, CO3	, Discuss the pharmacodynamics of Nasya Karma				DK	KH	LS,PER ,DIS	O-QZ,T-O BT,M-POS	F	III	-	NLHT9.4
Non L	ecture H	lour Theory			-							
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT	9.1	Identification of Shirovirechana Gana	Field visit Students are divided into teams to explore the classifications of Shirovirechana Gana. Each group analyzes assigned formulations, discussing attributes like Rasa, Guna, Virya, Vipaka, and Prabhava. Using charts or digital tools, they organize their findings for clarity. They also observe Shirovirechana and Shirovirechanopaga drugs in the herbal garden or Dravyaguna museum to enhance practical knowledge.									
NLHT 9.2 Preparation of Chart for Purva Karma of Nasya		Team Based Learning Students are divided into groups of 2-4 to create a comprehensive checklist for the Purva Karma phase of Nasya. One group prepares a checklist for Sambhara Sangraha, detailing necessary materials like medicated oils, tools, and supportive items. Another group creates a checklist for Patient Preparation, covering hygiene, positioning, and obtaining consent. This activity enhances understanding of Nasya's										

		preparatory processes while fostering teamwork and critical thinking skills.
NLHT 9.3	Discussion on Pradhana Karma of Nasya	Class presentation In this class presentation activity on the Pradhana Karma of Nasya, students are divided into groups, with one student from each group responsible for presenting. Each group focuses on different aspects of the Pradhana Karma phase, including techniques for instilling medication, patient positioning, and therapeutic benefits. After the presentations, the instructor summarizes key points, reinforcing Nasya's significance in Ayurvedic practice and its role in treating head and neck conditions. This collaborative approach enhances understanding and encourages student engagement.
NLHT 9.4	Nasya Karmukata	Discussion Students are introduced to the importance of Nasya Karma. They then break into small groups to discuss how nasal drugs affect doshas by engaging olfactory receptors and influencing brain functions, focusing on conditions above the clavicle like headaches and sinus issues. Each group summarizes key points, emphasizing insights into Nasya Karma's therapeutic potential and its clinical implications. This activity deepens understanding of Nasya Karma in Ayurvedic medicine.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 9.1	Demonstration of Purva Karma of Nasya	Demonstration The instructor guides students through the essential preparations for Nasya Karma, demonstrating on a volunteer or mannequin. The process begins with Sambhara Sangraha, collecting all necessary materials, including medicated oils and tools. The instructor emphasizes assessing the patient's fitness for Nasya Karma and preparing the patient by performing Mukha Abhyanga and Swedana to enhance therapeutic effectiveness. Students are also instructed on selecting appropriate Nasya Oushadha Dravya based on the patient's Dosha and health conditions. This approach ensures that students

		understand the critical preparatory steps for a successful Nasya therapy session.
NLHP 9.2	Demonstration of Pradhana Karma of Nasya in a patient	Demonstration The instructor guides students through the essential steps of Nasya Karma, focusing on the Pradhana Karma phase. The session begins with proper patient positioning in a supine position with the head tilted back and limbs apart. The instructor demonstrates the administration of Nasya Dravya, instilling it in a continuous stream into each nostril while closing the other. Students learn effective management techniques, including instructing the patient to avoid movements, speech, or disturbances. The instructor covers Samyak, Ayoga, and Atiyoga Lakshana, helping students recognize signs of effective treatment and complications. Strategies for managing Ayoga and Atiyoga are also discussed, equipping students with practical skills for Nasya Karma in clinical practice
NLHP 9.3	Demonstration of Paschat Karma of Nasya	Demonstration The instructor demonstrates the Paschat Karma phase of Nasya in a volunteer or Mannequin . After the administration of Nasya Dravya, gentle massage of head, cheeks, and neck to enhance circulation and relieve tension are shown. Additionally, practices such as Dhumapana and Kavala are demonstrated. Dietary restrictions and lifestyle modifications to be advised are also discussed. This comprehensive approach in Paschat Karma is crucial for optimizing the outcomes of Nasya therapy.
NLHP 9.4	Principles of selection of formulations for Nasya	PBL / Discussion Students analyze the selection criteria for Nasya Karma formulations, focusing on factors like Dosha, Rogibala, Vaidhi Avastha, Vayah, and Agnibala, as well as the Guna and Kalpana of medicinal substances. The session covers adjusting Matra based on patient characteristics and health status. Students examine specific formulations such as Anu Taila, Ksheerabala Taila, Karpasastyadi Taila, Shadbindu Taila, Kumkumadi Taila, Brahmi Ghrita, Rasnadi Churna, and Tulasi Swarasa. The discussion enhances their understanding of personalized Ayurvedic treatments and clinical application.
NLHP 9.5	Demonstration of Nasya in a Pakshaghata patient	Demonstration The instructor outlines a stepwise procedure starting with material collection, including medicated oils

		or powders, cotton pads, and towels. The patient is positioned comfortably, supine with the head tilter back, and informed consent is obtained. The Nasya dravya is warmed to a lukewarm temperature. During application, drops are administered into each nostril, with the patient instructed to inhale gently. In the Paschat Karma phase, post-care instructions are given.						e head tilted perature. inhale				
NLHP 9	9.6 Demonstration of Nasya in Apabahuka and Manyastambha,	Bedsi Same	Bedside case discussion Same as for Pakshaghata and Ardita									
NLHP 9	9.7 Demonstration of Nasya in an Ardita patient	Bed si The in focusi approp formu of Nas Ayurv	Bed side case discussion The instructor discusses a case of Ardita at the bedside. First, the patient's condition is assessed, focusing on symptoms and the underlying Samprapti. The discussion then covers the selection of appropriate Nasya, including suitable Nasya dravya and Matra. Participants evaluate which formulations best address the dosha imbalances and symptoms. This approach enhances understanding of Nasya Karma's clinical application, helping formulate effective treatment strategies based on Ayurvedic principles.									
<b>Topic</b>	10 Emergency management and Research updates in	n Panch	akarma a	and Upak	arma (L	H :2 NLH	T: 2 NLHP:	5)				
A3	B3		C3	D3	E3	F3	G3	H3	I3	К3	L3	
CO6, CO7	Describe common causes and symptoms of Water and Electrolyte imbalance , Hematemesis, Epistaxis and their management.			DK	K	L&PPT	S-LAQ	F&S	III	-	LH	
CO7	7 Explain and Integrate the recent advancements in Panchakarma			DK	КН	L&PPT	QZ ,DEB	F&S	III	-	LH	
CO7	Identify the signs and symptoms of Water and Electrolyte imbalance, Haematemesis, and Epistaxis, assess the severity, and select appropriate emergency interventions			NK	KH	GBL,C BL,RP	SBA, C- VC,QZ	F	III	H-SH	NLHT10.1	

CO7	Evaluate recent advancements and scientific evidence supporting Snehana, Swedana and Upakarma			CE	DK	KH	LS,IBL, ML,DIS	M-CHT,CO M,DEB	S	III	-	NLHP10.1
CO3, CO7	Evaluat Vaman	e recent advancements and scientific evidence suppo a Karma	orting	CE	DK	KH	W,LS,D IS	CL- PR,DEB	F	III	-	NLHP10.2
CO3, CO7	Evaluate recent advancements and scientific evidence supporting Virechana Karma			CE	DK	KH	GBL,PL ,LS,PE R,DIS	DEB,CL- PR	S	III	-	NLHP10.3
CO3, CO7	Evaluate recent advancements and scientific evidence supporting Basti Karma			CE	DK	KH	GBL,E DU,TB L,LS	QZ ,CL- PR,DEB	S	III	-	NLHP10.4
CO3, CO7	Evaluate recent advancements and scientific evidence supporting Nasya Karma			CE	DK	KH	BL,LS, PL,DIS	PRN,DEB, M-POS	S	III	-	NLHP10.5
Non L	ecture H	Iour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	Activity						
NLHT	10.1	Emergency Management of Water and Electrolyte imbalance,Haematemesis and Epistaxis	Diagnose and Treat Students identify and manage signs and symptoms of water and electrolyte imbalances, hematemesis, and epistaxis. Each participant matches symptoms from cards to corresponding imbalances and selects appropriate management strategies from provided cards. This hands-on approach improves diagnostic skills and equips students with practical treatment strategies for these critical conditions.						ematemesis, es and selects es diagnostic			
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Descr	ription of	Practical	Activity						
NLHP	10.1	Review of research updates on Snehana, Swedana and Upakarma	lana Panchakarma Research Review Participants analyze recent research on Snehana, Swedana and Upakrma in small groups, each assigned a specific paper or article. Groups summarize key findings and discuss their impact or				each					

		clinical practice or future research. This collaborative effort deepens their understanding of Panchakarma, improving their ability to critically evaluate research and apply insights to enhance Snehana, Swedana and Upakarma in clinical settings.
NLHP 10.2	Review of research updates on Vamana Karma	Group Discussion Participants engage in a comprehensive analysis of recent research updates related to Vamana Karma. Divided into small groups, each team is assigned a specific research paper or article that focuses on various aspects of Vamana Karma. Groups review their assigned material, summarize key findings, and discuss how these insights influence clinical practice or guide future research initiatives.
NLHP 10.3	Review of research updates on Virechana Karma	Game based learning Students are divided into teams and assigned a research paper on topics like efficacy, safety, or clinical applications. The game has three rounds: Abstract Scramble, where teams reorder a mixed-up research abstract; Fact vs. Fiction, where they defend or challenge study claims; and Peer Review Panel, where teams act as journal reviewers, identifying flaws and suggesting improvements. Points are awarded for analytical accuracy. This interactive format promotes active learning, teamwork, and real-world research evaluation skills.
NLHP 10.4	Review of research updates on Basti Karma	Library session Students engage in self-directed learning by exploring Ayurvedic texts like Charaka Samhita, Sushruta Samhita, and Ashtanga Hridaya. They focus on the etymology, types, indications, contraindications, and procedural aspects of Basti Karma, while also reviewing modern research. Activities such as guided reading, group discussions, literature reviews, and case analysis enhance engagement. Faculty guide students with references and prompts, encouraging critical evaluation of therapeutic mechanisms, formulations, and clinical applications, fostering independent research and evidence-based practice.
NLHP 10.5	Review of Research updates on Nasya Karma	Peer learning Students analyze recent studies in groups, focusing on aspects like pharmacology, clinical efficacy,

	and safety. They engage in discussions using methods such as journal clubs, jigsaw learning, fishbowl discussions, and case-based approaches to critically evaluate research and compare Ayurvedic concepts with modern findings. Structured frameworks like PICO and CONSORT guide their analysis,
	while peer feedback and group reflections enhance understanding. Through application tasks and
	documentation, students synthesize key insights, build a research repository, and strengthen their
	ability to integrate evidence-based knowledge with traditional wisdom

Activity No*	CO No	Activity details
1.1	CO1,CO3	Utility of Raktamokshana in diseases
1.2	C01,C03	Project work on Rutu Shodhana
2.1	CO1	Importance of Snehana Karma
2.2	CO2	Selection of Bahya Sneha
2.3	CO2	Selection of Abhyantara Sneha
2.4	CO7	Fat metabolism
2.5	CO7	Snehana Pharmacodynamics
2.6	CO3,CO4	Udwartana and its benefits.
2.7	CO3,CO4	Diet and Parihara Vishaya during Snehapana
2.8	CO3,CO4	Discussion on Accha sneha and Pravicharana sneha.
2.9	CO3,CO4,CO5	Abhyanga in Swastha and Atura
2.10	CO3,CO4,CO5	Massaging Techniques
2.11	CO2,CO3,CO5	Clinical application of Murdhni Taila
3.1	CO4,CO7	Mechanism of sweating
3.2	C01,C03	Indications of Sweda Karma
3.3	C01,C03	Contraindications of Sweda Karma
4.1	C01	Interactive learning on Sankara Sweda
	l	

4.2	CO1	Compilation of drugs used for Thalam and Thalapothichil
4.3	CO1	Interactive learning on regional variations in practice of Pizhichil
4.4	C01,C03	Utilty of Thalapothichil
4.5	C01,C04	Interactive discussion on the procedure of Takradhara
4.6	C01,C03	Variations in practice of Takradhara
4.7	CO1,CO3	Clinical utility of Dhanyamla
5.1	C01,C07	Discussion on Integration of Physiotherapy and Ayurvedic approaches
6.1	C01,C03	Indications and contraindications of Vamana Karma
6.2	CO2	Identification of Vamana and Vamanopaga Dravya
6.3	CO3	Preparation of disease wise Vamana Purva Karma chart
6.4	CO4	Interactive discussion on Paschat Karma
6.5	CO3	Peer learning on the concept of Sadyo Vamana
6.6	CO4,CO8	Roleplay on patient communication for Vamana Karma
7.1	CO1	Indications and contraindications of Virechana Karma
7.2	CO3	Preparation of a disease wise Virechana Purva Karma chart
7.3	CO2	Enlist and identify Virechana and Virechanopaga Dravya
7.4	CO3	Compilation on Nitya Virechana and Koshta Shodhana
7.5	CO1,CO3	Analysis of selection of formulations for Virechana
8.1	CO3	Benefits of Niruha Basti

8.2	CO2	Niruha and Anuvasana Basti Matra
8.3	C01,C03	Niruha Basti and Anuvasana Basti Karmukata
8.4	CO2	Anuvasana and Anuvasanopaga, Asthapana and Asthapanopaga Dravya
8.5	CO3	Indications and contra indications of Anuvasana Basti
8.6	C01,C03	Indications and contra indications of Niruha Basti
8.7	CO3	Principles of practice of Basti
9.1	CO2	Identification of Shirovirechana Gana
9.2	CO3	Preparation of Chart for Purva Karma of Nasya
9.3	CO4	Discussion on Pradhana Karma of Nasya
9.4	C01,C03	Nasya Karmukata
10.1	CO7	Emergency Management of Water and Electrolyte imbalance, Haematemesis and Epistaxis

(*Refer table 1	3 of similar	activity number)
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Practica l No*	CO No	Practical Activity details
1.1	C01,C03	Koshta and Agni Pariksha in Panchakarma
1.2	CO1	Panchakarma theatre requirements
1.3	C01,C07	Advancement in instrumentation in Panchakarma and Upakarma
2.1	CO3,CO4,CO5	Procedure of Udwartana.
2.2	CO3,CO4,CO5	Procedure of Udgharshana and Utsadana.
2.3	CO3,CO4	Shodhanartha Snehapana in Kushta and Vatarakta
2.4	CO3,CO4	Shodhanartha Snehapana procedure.
2.5	CO3,CO4	Shamanartha Snehapana procedure.
2.6	CO3,CO4	Shamanartha Snehapana in Kushta and Vatarakta.
2.7	CO3,CO4	Sneha Vyapat and Chikitsa.
2.8	CO3,CO4	Brumhana Snehapana and Sadya Snehana
2.9	CO3,CO4,CO5	Shiro Abhyanga Procedure
2.10	CO3,CO4,CO5	Procedure of Shirodhara with Taila.
2.11	CO3,CO4	Shiropichu demonstration.
2.12	CO3,CO4	Procedure of Abhyanga
2.13	CO3,CO4	Shirobasti demonstration
2.14	CO3,CO4	Sthanika Basti demonstration.
3.1	CO3,CO4,CO5	Nadi Sweda procedure.
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3.2	CO3,CO4,CO5	Tapa Sweda procedure.
3.3	CO3,CO4,CO5	Upanaha Sweda procedure
3.4	CO3,CO4,CO5	Parisheka Sweda procedure.
3.5	CO3,CO4,CO5	Avagaha Sweda procedure.
3.6	CO3,CO4,CO5	Clinical application of Sweda
4.1	CO3	Procedure of Sankara Sweda
4.2	CO3	Demonstration of procedure of Ksheeradhooma
4.3	CO3	Demonstration of the procedure of Pizhichil
4.4	CO3	Demonstration of Dhanyamladhara procedure
4.5	CO3,CO5	Demonstration of Takradhara procedure
4.6	CO3,CO5	Demonstration of Thalam and Thalapothichil procedure
4.7	CO3,CO4,CO5	Demonstration of Annalepa procedure
5.1	C07	Procedure of Superficial heating modalities and Deep Heating Modalities.
5.2	C07	Procedure of Isometric and Isotonic Exercise
5.3	CO7	Procedure of Interferential Therapy (IFT), Transcutaneous Electrical Nerve Stimulation (TENS) and Muscle Stimulation Therapy (MST)
5.4	C07	Procedure of Manual therapy
6.1	CO5	Demonstration of Vamana Purva Karma in a patient
6.2	CO5	Pradhana Karma of Vamana in a patient
6.3	CO5	Demonstration of Paschat Karma of Vamana

6.4	CO5	Demonstration of Sadyo Vamana in a patient
6.5	CO5	Demonstration of Vamana Karma in a Shwasa patient
6.6	CO5	Demonstration of Vamana Karma in an Amlapitta patient
6.7	CO5	Demonstration of Vamana Karma in a Kushta patient
7.1	CO5	Demonstration of Paschat Karma of Virechana
7.2	CO5	Demonstration of Virechana in a Vatarakta patient
7.3	CO5	Demonstration of Virechana in a Pakshaghata patient
7.4	CO5	Demonstration of Virechana Purva Karma
7.5	CO5	Demonstration of Pradhana karma of Virechana
7.6	CO5	Demonstration of Virechana in a Prameha patient
7.7	CO5	Demonstration of Virechana in a Kushta patient
8.1	CO2,CO7	Demonstration of Basti Yantra
8.2	CO5,CO8	Purva Karma of Anuvasana Basti
8.3	CO4,CO5	Pradhana Karma of Anuvasana Basti
8.4	CO4,CO5,CO6	Paschat Karma of Anuvasana Basti
8.5	CO5,CO8	Purva Karma of Niruha Basti
8.6	CO4,CO5	Pradhana Karma of Niruha Basti
8.7	CO4,CO5,CO6	Paschat Karma of Niruha Basti
8.8	CO2	Clinical application of Basti formulations
9.1	CO5	Demonstration of Paschat Karma of Nasya
	1	

9.2	CO5	Demonstration of Nasya in a Pakshaghata patient
9.3	CO5	Demonstration of Nasya in Apabahuka and Manyastambha,
9.4	CO5	Demonstration of Purva Karma of Nasya
9.5	CO5	Demonstration of Nasya in an Ardita patient
9.6	CO5	Demonstration of Pradhana Karma of Nasya in a patient
9.7	CO1,CO3	Principles of selection of formulations for Nasya
10.1	CO7	Review of research updates on Snehana, Swedana and Upakarma
10.2	CO3,CO7	Review of research updates on Vamana Karma
10.3	CO3,CO7	Review of research updates on Virechana Karma
10.4	CO3,CO7	Review of research updates on Basti Karma
10.5	CO3,CO7	Review of Research updates on Nasya Karma

Subject	Papers	Theory	]	Practical/Cl	inical Asses	sment (200)		Grand
Code			Practical	Viva	Elective	IA	Sub Total	Total
AyUG-PK	1	100	100	70	-	30	200	300

### 6 A : Number of Papers and Marks Distribution

#### 6 B : Scheme of Assessment (Formative and Summative)

PROFESSIONAL	FOR	SUMMATIVE		
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	3 PA & First TT	3 PA & Second TT	3 PA	UE**

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

#### 6 C : Calculation Method for Internal assessment Marks

	PERIODICAL ASSESSMENT*					TERM TEST**	TERM ASSESSMENT	
	A 2	В	С	D	E	F	G	Н
TERM	1 (15 Marks)	2 (15 Marks)	3 (15 Marks)	Average (A+B+C/3 )	Converted to 30 Marks (D/15*30)	Term Test (Marks converted to 30)	Sub Total _/60 Marks	Term Assessmen t (/30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		Е
Final IA	Average of Three Term Assessment Marks as Shown in 'H' Column.							
	Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks.							

### 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
б.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

## **Topics for Periodic Assessments**

РА	Paper 1
PA 1	Topic 1.1 to 1.6
PA 2	Topic 2.1 to 2.6
PA 3	Topic 3.1 to 3.6
Term Test 1	Entire Syllabus of Term 1
PA 4	Topic 4.1 to 4.7
PA 5	Topic 5.1 to 6.5
PA 6	Topic 6.6 to 7.7
Term Test 2	Entire Syllabus of Term 2
PA 7	Topic 8.1 to 8.12
PA 8	Topic 8.13 to 9.8
PA 9	Topic 8.1 to 10.2

### III PROFESSIONAL BAMS EXAMINATIONS AyUG-PK PAPER-I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

# 6 F : Distribution of theory examination

Pape	Paper 1 (Panchakarma and Upakarma)				
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ
1	Fundamentals of Panchakarma	8	Yes	Yes	No
2	Snehana Karma	12	Yes	Yes	Yes
3	Swedana Karma	12	Yes	Yes	Yes
4	Special Procedures: Sankara Sweda, Ksheeradhooma, Pizhichil, Dhanyamladhara, Takradhara, Thalam and Thalapothichil and Annalepa	10	Yes	Yes	Yes
5	Physiotherapy	5	No	Yes	No
6	Vamana Karma	10	Yes	Yes	Yes
7	Virechana Karma	10	Yes	Yes	Yes
8	Basti Karma	18	Yes	Yes	Yes
9	Nasya Karma	10	Yes	Yes	Yes
10	Emergency management and Research updates in Panchakarma and Upakarma	5	No	Yes	No
Tota	Fotal Marks 100				

#### 6 G : Instructions for UG Paper Setting & Blue print

- 1. All questions shall be compulsory.
- 2. Questions shall be drawn based on Table 6F, which provides the topic name, types of questions (MCQ(Multiple Choice Question), SAQ(Short Answer Question), LAQ(Long Answer Question)).
- 3. The marks assigned in Table 6F for each topic/group of topics shall be considered as the maximum allowable marks for that topic/group of topics.
- 4. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
- 5. Refer to Table 6F before setting the questions. Questions shall be framed only from topics where the type is marked as "YES", and avoided if marked as "NO".
- 6. Each 100-mark question paper shall contain:
  - 20 MCQs
  - 8 SAQs
  - 4 LAQs
- 7. MCQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 3.
  - Questions from the Nice to Know part of syllabus shall not exceed 2.
- 8. SAQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 1.
  - No questions shall be drawn from the Nice to Know part of syllabus.
  - SAQs shall assess understanding, application, and analysis, rather than simple recall.
- 9. LAQs:
  - All LAQs shall be drawn exclusively from the Must to Know part of the syllabus.
  - No questions shall be taken from the Desirable to Know or Nice to Know part of the syllabus.
  - Number of LAQs should not exceed one per topic unless maximum marks exceed 20 for the topic.
- 10. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
- 11. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

#### 6 H : Distribution of Practical Exam

S.No	Heads	Marks
1	Short case with Panchakarma protocol writing	30
2	Procedure skill assessment (4 procedures on mannequins or simulated patients in OSPE format)	40
3	Viva (2 examiners: 35marks/each examiner)	70
4	Logbook (Activity record)	10
5	Practical/Clinical Record	20
6	Internal Assesment	30
Total Ma	rks	200

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<b>Subjects:</b> H (PG), Rasay	<b>Subjects:</b> Kayachikitsa (UG) including atyaika chikitsa, Kayachikitsa (PG) including atyaika chikitsa, Manasaroga (PG), Rasayana & Vajikarana (PG), Kaumarabhritya (UG & PG), Panchakarma (UG & PG)							
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2.	Member: Vd. Kiran Nimbalkar, Professor, Ayurved & Unani Tibbia College and Hospital, New Delhi,							
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### Abbreviations

Domain		T L Method		Level		Asse	Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
CC	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
САР	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	H-KC	Н КС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	H-PK	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	Н-КВ	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

	W	Workshops		C-INT	Conducting interview	
	GBL	Game-Based Learning		INT	Interactions	
	LS	Library Session		CR- RED	Critical reading papers	
	PL	Peer Learning		CR-W	Creativity Writing	
	RLE	Real-Life Experience		C-VC	Clinical video cases	
	PER	Presentations		SP	Simulated patients	
	D-M	Demonstration on Model		РМ	Patient management problems	
	РТ	Practical		СНК	Checklists	
	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
	CD	Case Diagnosis		DOPS	DOPS	
	LRI	Lab Report Interpretation		CWS	CWS	
	DA	Drug Analysis		RS	Rating scales	
	D	Demonstration		RK	Record keeping	
	D- BED	Demonstration Bedside		СОМ	Compilations	
	DL	Demonstration Lab		Portfol ios	Portfolios	
	DG	Demonstration Garden		Log book	Log book	
	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				CBA	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	

# COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



# Panchakarma & Upakarma (Therapeutic Procedural Management)

# (SUBJECT CODE : AyUG-PK)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



# NCISM III Professional Ayurvedacharya (BAMS) Subject Code : AyUG-PK

Panchakarma & Upakarma (Therapeutic Procedural Management)

## Summary

Total number of Teaching hours: 300										
Lecture (LH) - Theory										
Paper I	100	100	100(LH)							
Non-Lecture (NLHT)										
Paper I	60	60	200(NLH)							
Non-Lecture (NLHP)										
Paper I	140	140								

Examination (Papers & Mark Distribution)										
Item	Theory Component Marks		Practical Com	ponent Marks						
		Practical	Viva	Elective	IA					
Paper I	100	100	70	-	30					
Sub-Total	100	200								
Total marks		300								

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

# **PREFACE**

Panchakarma, a cornerstone of Ayurveda, embodies holistic healing through detoxification, rejuvenation, and restoration of balance in body and mind. This syllabus is designed to provide students with a profound understanding of its principles, therapeutic applications, and integration into modern healthcare.

Structured into ten sections, the curriculum covers foundational and advanced concepts, emphasizing detoxification, rejuvenation, and the clinical implementation of various Panchakarma procedures. Special attention is given to Keraleeya Kriyakrama therapies such as Takradhara, Thalapothichil, Annalepa, and Pizhichil, broadening students' knowledge of region-specific treatments. Additionally, the syllabus explores the selection and application of formulations used in Snehana, Vamana, Virechana, Basti, and Nasya, ensuring students can provide personalized and effective care based on Prakriti, Vikriti, and individual health conditions.

To enhance practical skills, the syllabus incorporates hands-on training, case studies, mannequin-based simulations, and interactive learning methods. These approaches foster competency, teamwork, and communication skills—essential qualities for effective clinical practice. The curriculum also integrates contemporary research and modern technological advancements in Panchakarma, ensuring relevance in today's healthcare landscape. Additionally, the inclusion of physiotherapy principles enhances students' ability to combine Panchakarma with other therapeutic modalities.

This revised syllabus represents a significant advancement, removing outdated content while incorporating contemporary insights. Beyond technical proficiency, it fosters essential qualities such as empathy, patient-centered care, and professional communication. Through this comprehensive and innovative approach, students will emerge as skilled practitioners, capable of promoting and integrating Ayurveda within modern medical practice, contributing to its global acceptance and continued relevance.

Furthermore, the curriculum aims to inspire critical thinking and research-oriented learning, encouraging students to explore evidence-based applications of Panchakarma. By integrating traditional knowledge with scientific advancements, the syllabus prepares students to to make meaningful contributions to the continued relevance and efficacy of Panchakarma in contemporary medical practice.

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### **Course Code and Name of Course**

Course code	Name of Course
AyUG-PK	Panchakarma & Upakarma

# Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-PK At the end of the course AyUG-PK, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.			
CO1	Describe the fundamental concepts of Panchakarma	PO1			
CO2	Identify and describe drugs, dose, instruments and their method of application in Panchakarma procedures	PO3			
CO3	Analyze the clinical applications of each procedure based on fundamental principles	PO2			
CO4	Illustrate comprehensive knowledge of Panchakarma procedures with appropriate and sequential Purva Karma, Pradhana Karma and Paschat Karma	PO2			
CO5	Demonstrate skills in performing procedures in various situations	PO4,PO5			
CO6	Assess the therapeutic efficiency and manage complications	PO2,PO7			
CO7	Utilize technological advancements and allied therapeutic interventions	PO2,PO7			
CO8	Possess qualities of a good Communicator and ethical Clinician & Researcher	PO6,PO7,PO8,PO9			

Pape	Paper 1 (Panchakarma and Upakarma)									
Sr. No	A2 List of Topics	B2     C2     D2     E2       Term     Marks     Lecture     Non-       hours     Lecture     Lecture       hours     I       1     8     6     2		E2 Non- Lecture hours Practica l						
1	<ul> <li>Fundamentals of Panchakarma</li> <li>1. Introduction to Panchakarma</li> <li>2. Panchakarma in Swastha and Atura</li> <li>3. Indications and contraindications of Shodhana</li> <li>4. Agni and Koshta Pariksha in Panchakarma</li> <li>5. Principles in Shodhana</li> <li>6. Requirements of Panchakarma theatre</li> </ul>	1	8	6	2	4				
2	Snehana Karma 1. Introduction 2. Sneha Dravya 3. Lipids 4. Rookshana 5. Abhyantara Snehana 6. Bahya Snehana	1	12	16	12	28				
3	<ul> <li>Swedana Karma</li> <li>1. Introduction</li> <li>2. Swedana Dravya</li> <li>3. Indications and Contraindications of Swedana</li> <li>4. Sagni Sweda</li> <li>5. Niragni Sweda</li> <li>6. Procedure of Saagni Swedana Karma</li> <li>7. Principles of practice of Swedana Karma in Sandhigata Vata, Vatarakta, Pakshaghata, Ardita, Gridhrasi, Amavata</li> <li>8. Swedana Karmukata</li> </ul>	1	12	9	4	10				
4	Special Procedures: Sankara Sweda, Ksheeradhooma, Pizhichil, Dhanyamladhara, Takradhara, Thalam and Thalapothichil and Annalepa Definition, Types, Procedure and Benefits of: 1. Sankara Sweda	2	10	7	9	19				

	<ol> <li>2. Ksheeradhooma</li> <li>3. Pizhichil</li> <li>4. Dhanyamladhara</li> <li>5. Takradhara</li> <li>6. Thalam and Thalapothichil</li> <li>7. Annalepa</li> </ol>					
5	Physiotherapy 1. Introduction 2. Static exercise 3. Isotonic Exercise 4. Deep Heating Modalities 5. Superficial Heating Modalities 6. Electro Therapy 7. Manual Therapy	2	5	6	1	7
6	<ul> <li>Vamana Karma</li> <li>1. Introduction</li> <li>2. Indications and Contraindications of Vamana Karma</li> <li>3. Purva Karma of Vamana</li> <li>4. Pradhana Karma of Vamana</li> <li>5. Paschat Karma of Vamana</li> <li>6. Sadyo Vamana</li> <li>7. Vamana Karmukata</li> <li>8. Principles of practice of Vamana Karma in Shwasa, Amlapitta, Kushta and Yuvanapidaka</li> </ul>	2	10	13	7	15
7	<ul> <li>Virechana Karma <ol> <li>Introduction</li> <li>Classification of Virechana</li> <li>Principles of selection of Virechana formulations</li> <li>Indications and Containdications of Virechana Karma</li> <li>Purva Karma of Virechana</li> <li>Pradhana Karma of Virechana</li> <li>Prachat Karma of Virechana</li> <li>Virechana Karmukata</li> <li>Principles of practice of Virechana Karma in Kushta, Vatarakta, Pakshaghata and Prameha</li> </ol> </li> </ul>	2	10	13	7	15
8	Basti Karma 1. Introduction 2. Basti Yantra and Matra	3	18	18	10	25

	<ol> <li>Anuvasana and Anuvasanopaga, Asthapana and Asthapanopaga Dravya</li> <li>Indications and Contra indications of Anuvasana Basti</li> <li>Purva Karma of Anuvasana Basti</li> <li>Pradhana Karma of Anuvasana Basti</li> <li>Pradhana Karma of Anuvasana Basti</li> <li>Indications and Contra indications of Niruha Basti</li> <li>Indications and Contra indications of Niruha Basti</li> <li>Purva Karma of Niruha Basti</li> <li>Preparation of Basti Dravya</li> <li>Pradhana Karma of Niruha Basti</li> <li>Paschat Karma of Niruha Basti</li> <li>Pincipa Basti Karmukata</li> <li>Anuvasana Basti Karmukata</li> <li>Basti Formulations</li> <li>Principles of practice of Basti a) Niruha in Gridhrasi and Amavata b) Anuvasana in Kateegraha</li> </ol>					
9	<ul> <li>Nasya Karma</li> <li>1. Introduction</li> <li>2. Shirovirechana Gana</li> <li>3. Purva Karma of Nasya</li> <li>4. Pradhana Karma of Nasya</li> <li>5. Paschat Karma of Nasya</li> <li>6. Nasya formulations</li> <li>7. Nasya Karmukata</li> <li>8. Principles of practice of Nasya in Pakshaghata, Apabahuka, Manyastambha and Ardita</li> </ul>	3	10	10	6	12
10	Emergency management and Research updates in Panchakarma and Upakarma 1. Emergency management 2. Research updates in Snehana, Swedana, Vamana, Virechana, Basti, Nasya and Upakarma	3	5	2	2	5
Tota	Total Marks		100	100	60	140

Paper 1	Paper 1 (Panchakarma and Upakarma)											
A3 Cour se out come	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type		
Topic 1	Topic 1 Fundamentals of Panchakarma (LH :6 NLHT: 2 NLHP: 4)											
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3		
CO1	Define Panchakarma, Panchashodhana and describe the importance of Shodhana and its benefits .	СК	МК	K	L&PPT ,CBL	S-LAQ	F&S	Ι	-	LH		
CO1, CO3	Enlist the types of Raktamokshana and explain its utility in diseases like Kushta, Vatarakta, Siragranthi and Gridhrasi .	CC	NK	KH	CBL,L_ VC	CBA,QZ	F	Ι	-	NLHT1.1		
CO1, CO3	Explain the concept of Panchakarma in Swastha and Atura.	CC	МК	KH	L_VC,P ER	S-LAQ	F&S	Ι	-	LH		
CO1, CO3	Explain Rutu Shodhana.	CC	МК	KH	TPW	M- POS,PRN	F&S	Ι	-	NLHT1.2		
CO1, CO3	Explain the general indications and contraindications of Shodhana Karma	CC	MK	KH	CBL,DI S,L&PP T	CBA,S- LAQ	F&S	Ι	-	LH		
CO1	Explain Agni and Koshta Pariksha in Panchakarma	CC	MK	KH	REC,L &PPT ,PrBL	CL-PR,S- LAQ,SBA	F&S	Ι	-	LH		
CO1, CO3	Apply the assessment of Koshta and Agni Pariksha in Panchakarma clinically	САР	МК	KH	CBL,BS	PP-Practica l,CBA,T- OBT	F&S	Ι	-	NLHP1.1		

CO1, CO3	Explain	Doshagati and Upasthitha Dosha in Panchakarma		CC	MK	K	BL,L&P PT	S-LAQ	F&S	I	-	LH
CO1	Describ Ashtam	e Prakruthi Praptha Purusha Lakshana and ahadoshakarabhava.		СК	DK	К	L&PPT ,REC	M-POS,VV- Viva	F	Ι	-	LH
CO1 Reproduce the requirements of Panchakarma theatre.				PSY- GUD	DK	D	RP,L_V C,RLE, SIM,FV	CHK,M- CHT	F&S	Ι	-	NLHP1.2
CO1, CO7	Demons of Panc	strate recent developments in instrumentation in prac hakarma and Upakarma	in practice CAP DK KH L_VC,D P-ID,M-PO F I - NI ,FV S,P-MOD F I - NI						NLHP1.3			
Non Lo	Non Lecture Hour Theory											
S.No		Name of Activity	Description of Theory Activity									
NLHT	1.1	Utility of Raktamokshana in diseases	Group Discussion Students are divided into groups, each assigned a condition (Kushta, Vatarakta, Siragranthi, or Gridhrasi) with detailed case scenarios. Groups discuss symptoms, diagnostic criteria, Raktamoksha modalities, management challenges, and propose solutions. After 20-30 minutes, each group presents their findings, followed by a class discussion. The session concludes by emphasizing the importance of Raktamokshana, with assessments based on engagement and solution quality.									
NLHT	1.2	Project work on Rutu Shodhana	Team Project Work Divide the students into six teams, assigning each team a specific season (Vasanta, Grishma, Varsha, Sharad, Hemanta, and Shishira). Instruct them to create a comprehensive plan for Rutu Shodhana tailored to their assigned season. Each project should include a title, clear objectives, detailed methodology, a timeline for implementation, necessary resources, and a risk management strategy to address potential challenges. Encourage creativity and thoroughness in their presentations to foster a deeper understanding of seasonal Ayurvedic practices.									

Non Lo	ecture Hour Practical										
S.No	Name of Practical	De	scription of	f Practica	l Activity	y					
NLHP	1.1 Koshta and Agni Pariksha i	n Panchakarma Cas Intr syr det ass dis Par	Case Based Learning Introduce a case that necessitates Agni / Koshta Pariksha , focusing on patient presenting with symptoms of digestive discomfort, like bloating, irregular bowel movements, and fatigue. Provide details about their diet, lifestyle, and medical history. Participants analyze the case in small groups, assessing Agni and Koshta imbalances. Each group presents findings, followed by an instructor-led discussion. The session concludes with key takeaways on the clinical importance of Agni/Koshta Pariksha in Ayurveda.								with Provide Ill groups, ructor-led /Koshta
NLHP 1	1.2 Panchakarma theatre requir	ements Sin Stu and and ma wo	Simulation Students simulate a Panchakarma theatre setup, identifying infrastructure needs, organizing equipment, and ensuring sterilization. They role-play as therapists and patients, practicing positioning, draping, and procedures while maintaining hygiene. Emergency scenarios are simulated to enhance crisis management skills. Through hands-on participation, students internalize spatial arrangements, workflow, and safety protocols for practical learning.								
NLHP 1	1.3 Advancement in instrument and Upakarma	ld visit e instructor g upment and f challenges. T ocedures and	guides stude recent adva They summ instrument	ents throu incements arize key ation.	gh a Pancha s. Students e points, enha	karma theatrong ngage throug ancing their p	e or video o h observati practical un	demonst ion, que derstanc	trations, ex stions, and ding of Par	cplaining 1 discussions nchakarma	
Topic 2	2 Snehana Karma (LH :16 NLH	T: 12 NLHP: 28)			1	-	i				-
A3	B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1	Define Sneha and Snehana and deso	ribe the classification of	CK	MK	K	ML,L&	S-LAQ	F&S	I	-	LH

	Snehana Karma				PPT					
CO1	Explain the importance of Snehana Karma	CC	MK	KH	DIS,BS	T- OBT,PRN	F&S	Ι	-	NLHT2.1
CO1	Describe Guna of Sneha Dravya.	СК	MK	K	EDU,B L,L&PP T	T-OBT,M- CHT,QZ	F&S	Ι	-	LH
CO2	Describe the Indications of Ghrita.	СК	MK	K	TUT,RE C,L&PP T	WP	F&S	Ι	V-RS,V- RS	LH
CO2	Describe the Indications of Taila.	СК	МК	K	L&PPT ,PrBL,D A	T-OBT,QZ	F&S	Ι	V-RS,V- RS	LH
CO2	Demonstrate principles of selection of Sneha in Bahya Snehana according to Dosha, Satmya, Avastha and Vyadhi.	САР	MK	KH	CBL,T UT	SBA,CBA	F&S	Ι	V-RS,V- RS	NLHT2.2
CO2	Demonstrate principles of selection of Sneha in Abhyantara Snehana according to Dosha, Satmya, Vyadhi and Avastha.	CAP	MK	KH	RP,CBL	CL-PR,P- EXAM	F&S	Ι	-	NLHT2.3
CO7	Describe classification of Lipids, Digestion, Absorption and Metabolism of Fat	СК	МК	К	L_VC,P ER,L& GD,CB L	PRN,O-QZ	F	Ι	V-KS	LH
CO7	Comprehend metabolism of fat in the context of Abhyantara Snehana	CC	DK	KH	L&GD, TPW	CL-PR,QZ ,SBA,CR- W	F	Ι	-	NLHT2.4
CO7	Distinguish Pharmacodynamics of Snehana through Oral, Rectal and Topical methods	CC	DK	KH	L&GD, CBL,BS	CL-PR,M- CHT,M- POS	F	Ι	-	NLHT2.5

CO1, CO2	Describe the importance and method of Deepana, Pachana and Rookshana in Snehana	СК	MK	К	PER,RL E,L&PP T	COM,CL- PR	F&S	Ι	-	LH
CO1, CO2	Describe the Guna of Rookshana dravya- Ushnodaka,Dhanyamla, Takra and Samyak Rookshana Lakshana	СК	МК	K	L&PPT ,TPW,L &GD	QZ ,PRN	F&S	Ι	V-DG	LH
CO3, CO4	Explain Udwartana, types and its benefits .	CC	МК	КН	FC	PP-Practica 1,DOAP,P- REC,CL- PR	F&S	Ι	-	NLHT2.6
CO3, CO4, CO5	Demonstrate the procedure of Udwartana	PSY- GUD	МК	SH	KL,PT, D-M,D	P- PRF,DOPS	F&S	Ι	-	NLHP2.1
CO3, CO4, CO5	Demonstrate the procedure of Udgharshana and Utsadana.	PSY- GUD	МК	SH	CBL,D- M	DOPS	F&S	Ι	-	NLHP2.2
CO3, CO4	Describe Indications and contra indications of Abhyantara Snehana	СК	MK	K	L,L&PP T ,PER	CL-PR,P- REC	F&S	Ι	-	LH
CO3, CO4	Explain Shodhanartha Snehapana, time of administration, Matra, Kala and Anupana.	CC	MK	KH	L&PPT ,L	S-LAQ,P- REC	F&S	Ι	-	LH
CO3, CO4	Explain Shamanartha Snehapana, Kala, Matra and Anupana.	CC	MK	KH	L&PPT	S- LAQ,PRN	F&S	Ι	-	LH
CO3, CO4	Comprehend Brumhana Sneha Kala, Matra and Anupana.	CC	MK	KH	L&PPT	S-LAQ	F&S	Ι	-	LH
CO3, CO4	Explain the Diet and Parihara Vishaya during Snehapana.	CC	МК	КН	L&GD, BL,TP	CL-PR	F&S	Ι	-	NLHT2.7

					W					
CO3, CO4	Distinguish Accha Sneha and Pravicharana Sneha.	CC	MK	KH	PER,BL ,L&GD	CBA,PRN, P-PRF	F&S	Ι	-	NLHT2.8
CO3, CO4	Demonstrate the procedure of Shodhanartha Snehapana.	CAP	MK	KH	CBL,D- BED	CBA,SP	F&S	Ι	-	NLHP2.3
CO3, CO4	Demonstrate Shodhanartha Snehapana in Kushta and Vatarakta	CAP	MK	KH	CBL,RP ,DIS	СВА	F&S	Ι	-	NLHP2.4
CO3, CO4	Demonstrate the procedure of Shamanartha Snehapana.	CAP	MK	SH	DIS,CB L	РМ,СВА	F&S	Ι	-	NLHP2.5
CO3, CO4	Outline Shamanartha Snehapana in Kushta and Vatarakta	CAN	МК	KH	DIS,CB L,PBL	CBA,SBA	F&S	Ι	-	NLHP2.6
CO3, CO4	Identify Sneha Vyapat and discuss the Chikitsa	CAP	МК	KH	SY,PBL ,CBL	CBA,P- CASE	F&S	Ι	-	NLHP2.7
CO3, CO4	Distinguish Brumhana Snehapana and Sadyasnehana.	CAP	MK	KH	PBL,CB L	SBA	F&S	Ι	-	NLHP2.8
CO3, CO4	Describe definition, indications, contra indications and the benefits of Abhyanga.	СК	MK	KH	FC,L&P PT ,PL	CL-PR,P- REC	F&S	Ι	-	LH
CO3, CO4	Explain types of Massage and various Massage Techniques.	CC	МК	KH	L&PPT ,L_VC,I BL	COM,QZ	F&S	Ι	-	LH
CO3, CO4	Comprehend the concept of Murdha Taila and specific Indications.	CC	MK	KH	BS,L_V C,PER	M-POS,CL- PR,S-LAQ	F&S	Ι	-	LH
CO3, CO4	Interpret Shiropichu and Shirobasti.	CC	MK	KH	TBL,L &PPT ,DIS	S- LAQ,PRN	F&S	Ι	-	LH

CO3, CO4, CO5	Compar	e Abhyanga in Swastha and Atura.	CAN	МК	SH	BS,DIS	CL-PR	F&S	Ι	-	NLHT2.9
CO3, CO4, CO5	Demons	trate different Massaging Techniques	PSY- GUD	МК	SH	D-M,L_ VC,D	P- RP,DOPS	F	Ι	-	NLHT2.10
CO2, CO3, CO5	Identify	the clinical application of Murdhni Taila in Vatavyadhi .	CAN	DK	KH	CBL,BS ,PBL	T-OBT,CL- PR	F&S	Ι	-	NLHT2.11
CO3, CO4, CO5	Demons	trate the procedure of Shiro Abhyanga	PSY- GUD	MK	SH	D-M	OSPE,DOP S	F&S	Ι	-	NLHP2.9
CO3, CO4, CO5	Demons	trate the procedure of Shirodhara with Taila	PSY- GUD	MK	SH	D-M	OSPE,P- PRF,DOPS	F&S	Ι	-	NLHP2.10
CO3, CO4	<ul><li>3, Demonstrate the procedure of Shiropichu .</li></ul>		PSY- GUD	MK	SH	D,D-M	DOPS	F&S	Ι	-	NLHP2.11
CO3, CO4	, Demonstrate the procedure of Shirobasti.		PSY- GUD	MK	SH	D-M	DOPS,P- PRF	F&S	Ι	-	NLHP2.12
CO3, CO4	<ul> <li>3, Demonstrate Kati Basti , Greeva Basti and Janu Basti.</li> <li>04</li> </ul>		PSY- GUD	MK	SH	D-M	DOPS,P- PRF,OSPE	F&S	Ι	-	NLHP2.13
CO3, Demonstrate Abhyanga . CO4		PSY- GUD	МК	SH	D-M	OSPE,DOP S,P-PRF	F&S	Ι	-	NLHP2.14	
Non Lecture Hour Theory											
S.No Name of Activity Description of Theory Activity											

NLHT 2.1	Importance of Snehana Karma	Brainstorming Students are divided into groups to explore the utility of different types of Snehana in Ayurveda, with a particular focus on the roles of both Bahya Snehana and Abhyantara Snehana. Each group discusses the contribution of Snehana to the effectiveness of Panchakarma therapies, emphasizing how proper oleation enhances detoxification, improves circulation, and prepares the body for subsequent procedures. By brainstorming these key aspects, students deepen their understanding of how Snehana plays a critical role in achieving optimal therapeutic outcomes during Panchakarma treatments, ensuring a holistic approach to healing and rejuvenation.
NLHT 2.2	Selection of Bahya Sneha	Case Based Learning In this activity, students are divided into groups and presented with 3-4 patient scenarios, such as a Vata-dominant disorder, a Pitta-related skin condition, and Kapha-related obesity. Each scenario includes details on the patient's prakriti, vikriti, and clinical symptoms. Groups discuss and select an appropriate Taila for each case, justifying their choices based on the involved dosha, the disease nature, and the properties of the selected Taila. This approach aims to deepen understanding of Bahya Sneha and its applications in Ayurveda. Focus discussion on Dhanvantara Taila, Sahacharadi Taila, Pinda Taila, Ksheerabala Taila, Kottamchukkadi Taila,Mahanarayana Taila & Murivenna
NLHT 2.3	Selection of Abhyantara Sneha	CBL / Role play In this activity, students analyze 3-4 patient scenarios: a Vata-predominant patient with arthritis, a Pitta- predominant patient with acidity, and a Kapha-predominant patient with obesity. They determine the appropriate type of Sneha (e.g., Ghrita or Taila), dose, Anupana, and administration schedule for each case. A role play follows, where one student acts as the physician explaining Snehapana, another as the patient asking questions, and observers evaluate communication and content accuracy. The discussion also focuses on specific types of Ghrita and Taila, such as Dadimadi Ghrita, Indukanta Ghrita, Kalyanaka Ghrita, Guggulutiktaka Ghrita, Moorchita Tila Taila, and Moorchita Ghrita, to deepen understanding of Abhyantara Snehana in Ayurvedic practice.

NLHT 2.4	Fat metabolism	Group Discussion In this group discussion, participants explore changes in fat metabolism under conditions like fasting, exercise, hyperlipidemia, a ketogenic diet, and Chatussneha practices. Afterward, groups present their findings, with feedback and additional insights from the facilitator. Students also engage in a concept mapping activity, linking key aspects of fat metabolism, including digestion, transport mechanisms, storage, utilization, and hormonal regulation. This approach enhances understanding of the complex processes in fat metabolism.
NLHT 2.5	Snehana Pharmacodynamics	PBL In this activity, groups analyze clinical scenarios involving different applications of Snehana in Ayurveda. One group examines a patient with chronic constipation prescribed Sneha Basti, focusing on absorption and systemic effects. Another group discusses oral Snehapana for a patient with osteoarthritis, exploring how medicated ghee promotes joint lubrication. The third group evaluates a patient with dry skin conditions treated with topical Snehana, assessing local effects. Each group presents their findings, enhancing understanding therapeutic roles of Snehana in various conditions.
NLHT 2.6	Udwartana and its benefits.	Flipped Class room Students review learning materials on Udwartana, including textbook chapters, videos, and infographics before class. Guided questions prompt exploration of its types, benefits, indications, contraindications, and effects on conditions like obesity and skin health. In-class, a quick recap allows students to share insights before breaking into groups to discuss specific Udwartana types, key ingredients, dosha imbalances, and present their findings. This approach deepens understanding of Udwartana's applications in Ayurvedic practice
NLHT 2.7	Diet and Parihara Vishaya during Snehapana	Group Discussion In this group discussion activity, the class is divided into smaller groups, each assigned specific topics related to Snehapana. Topics include foods to avoid during Snehapana, such as heavy, cold, or spicy

		foods, along with the rationale behind each restriction. Another group focus on lifestyle modifications during Snehapana, discussing the importance of avoiding exertion, emotional stress, and exposure to extreme temperatures. Each group engages in thoughtful discussions and share their insights with the class. The activity concludes with a summary of key points and concluding remarks, reinforcing the significance of dietary and lifestyle considerations in optimizing the benefits of Snehapana therapy in Ayurvedic practice.					
NLHT 2.8	Discussion on Accha sneha and Pravicharana sneha.	CBL / Group Discussion In this activity, students analyze case scenarios involving the use of different types of Sneha. For instance, one scenario features a patient requiring Accha Sneha for detoxification, while another involves a patient needing Pravicharana Sneha to address arthritis . Students identify the appropriate type of Sneha for each case, justifying their choices based on therapeutic principles, and outlining the method of administration. This exercise aims to deepen their understanding of the clinical applications and benefits of Sneha therapies in promoting health and wellness.					
NLHT 2.9	Abhyanga in Swastha and Atura	Group Discussion Students are to be divided into teams to discuss the practice of Abhyanga as part of Dinacharya, focusing on its benefits for both healthy individuals and those with specific health concerns. Each group analyzes two case studies: one involving a healthy individual seeking Abhyanga for general well- being and the other involving a patient experiencing joint stiffness, fatigue, and pain. Students determine the appropriate oil for each case, considering factors such as dosha imbalances and therapeutic goals. They also discuss suitable techniques and strokes tailored to each individual's needs, along with the indications and contraindications for Abhyanga in these scenarios. After thorough analysis, groups present their conclusions, detailing the treatment approach for each case.					
NLHT 2.10	Massaging Techniques	Video Demonstration Students watch video demonstrations or practice on mannequins, covering various massage techniques. These include Swedish Massage for relaxation, Deep Tissue Massage for muscle tension, Shiatsu for acupressure and energy flow, Hot Stone Massage for warmth and muscle relaxation, Aromatherapy Massage for emotional well-being, Sports Massage for injury prevention, Myofascial					
		Release for fascia tension, and Reflexology for pressure points on the feet and hands. This exposure enhances students' understanding of diverse massage techniques and their benefits.					
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NLHT 2.11	Clinical application of Murdhni Taila	Case Based Learning Students are to be divided into small groups to discuss clinical cases where Murdhni Taila could be beneficial, such as chronic headaches, insomnia, or hair loss. Each group assesses the specific condition, evaluate the patient's Avastha ,and select the most suitable Murdhni Taila for their case. During their presentations, groups explain why Murdhni Taila is an effective treatment for the discussed condition, highlighting its therapeutic benefits such as enhancing brain function, promoting relaxation, and managing stress.					
Non Lecture Hour Practical							
S.No	Name of Practical	Description of Practical Activity					
NLHP 2.1	Procedure of Udwartana.	Demonstration The instructor demonstrates Udwartana, covering preparation, herbal powder selection, and application techniques. Emphasizing strokes, pressure, and direction, students observe its effects on circulation and lymphatic drainage. Post-procedure care, including skin cleaning, follow-ups, and lifestyle advice, is explained. Students take notes to refine their understanding for future practice.					
NLHP 2.2	Procedure of Udgharshana and Utsadana.	Demonstration (Same as Udwartana)					
		<ul> <li>The instructor demonstrates the procedure, including:</li> <li>Preparation of medicated pastes.</li> <li>Patient positioning and sequence of application.</li> <li>Duration of paste retention and removal techniques</li> </ul>					

NLHP 2.3	Shodhanartha Snehapana procedure.	Case Based Learning Students present real or hypothetical cases of Shodhanartha Snehapana, analyzing the procedure, including Sneha selection, dosage, and observed outcomes. They evaluate Purva Karma, Sambhara Sangraha, and Atura Pariksha, focusing on Snehapana Matra Nirnaya, Snehapana Kala, and Sneha Anupana. The analysis includes Jeeryamana, Jeerna, and Ajeerna Lakshana, and oleation characteristics (Samyak, Asnigdha, and Ati Snigdha). Students discuss treatment for Asnigdha and Atisnigdha conditions and dietary considerations. The session concludes with a discussion on effectiveness and challenges in Snehapana.
NLHP 2.4	Shodhanartha Snehapana in Kushta and Vatarakta	Roleplay Students simulate consultations for Kushta or Vatarakta patients, focusing on dietary restrictions, lifestyle modifications, and Agni/Koshta assessment to determine the appropriate Sneha dose. They practice Sneha administration in pairs and design diet plans tailored to these conditions. A discussion on Samyak Snigdha Lakshana enhances their understanding of effective Ayurvedic treatment strategies. This activity equips students with the skills to manage these conditions effectively.
NLHP 2.5	Shamanartha Snehapana procedure.	CBL Students explore Shamanartha Snehapana through a clinical scenario, focusing on conditions like Vatarakta or Kushta. They begin with Purva Karma and Sambhara Sangraha, selecting appropriate medicated oils. During Atura Pariksha, they assess readiness with Atura Sidhata, determine Snehapana Matra , Snehapana Kala. Students practice administering the Sneha, observing oleation signs and potential adverse reactions. Post-procedure care includes dietary guidelines, lifestyle modifications, and identifying avoidances (Parihara Vishaya) to ensure effective treatment

NLHP 2.6	Shamanartha Snehapana in Kushta and Vatarakta.	Debate Students are divided into two teams to debate whether Ghrita or Taila is more effective in treating Vatarakta. One team supports Ghrita for its nourishing properties and suitability for Pitta-dominant individuals, while the other favours Taila for its lubricating qualities and better absorption for Vata imbalances. The discussion covers properties, Dosha specificity, and patient tolerance. Similarly, the effectiveness of Shamanartha Snehapana in Kushta is also discussed.
NLHP 2.7	Sneha Vyapat and Chikitsa.	Symposium In this symposium on Sneha Vyapat, students analyze clinical case studies, such as nausea from excess Shamanartha Snehapana dosage and diarrhoea after Ghrita administration. Speakers highlight symptoms, errors in dosage, Sneha selection, and pre-procedure assessments. An interactive discussion follows, with students proposing treatment adjustments, dietary modifications, and corrective measures. Other Sneha Vyapat scenarios are also discussed, fostering critical thinking and emphasizing individualized treatment in Ayurveda
NLHP 2.8	Brumhana Snehapana and Sadya Snehana	Problem Based Learning Students are divided into groups to discuss Brumhana Snehapana with Ghrita or Taila, focusing on key steps like Purvakarma, Sambhara Sangraha, and Atura Pariksha to assess suitability. They determine appropriate dosage (Snehapana Matra Nirnaya), timing (Snehapana Kala), and Sneha Anupana for absorption. The Pradhanakarma involves careful administration, followed by Paschat Karma and dietary recommendations. Students also explore Sadya Snehana, discussing its types, dose, duration, and dietary guidelines, while assessing Samyak Snigdha Lakshana.
NLHP 2.9	Shiro Abhyanga Procedure	Demonstration Using illustrated charts and flipbooks, the instructor demonstrates Shiro Abhyanga without a live patient. Visual aids show step-by-step oil application, massage techniques, pressure points, and procedure duration. Labeled diagrams on a whiteboard or screen help students visualize the movements, while flipbooks guide them through each stage. Interactive discussions encourage students to analyze and explain key steps. This method enhances concept retention and understanding of Shiro

		Abhyanga fundamentals.
NLHP 2.10	Procedure of Shirodhara with Taila.	Demonstration The instructor guides students through the Taila Shirodhara procedure on a volunteer or mannequin. The session begins with Purva Karma, preparing the patient, recording vital signs, and performing a brief Abhyanga on the head, neck, and shoulders. During Pradhana Karma, the instructor demonstrates setting up the dhara pot and pouring warm medicated oil in a continuous stream over the forehead. In Paschat Karma, students learn to remove excess oil, apply Rasnadichurna, and advise the patient to rest post-treatment. This demonstration enhances understanding of Taila Shirodhara's therapeutic techniques.
NLHP 2.11	Shiropichu demonstration.	Demonstration The instructor guides students through the Shiropichu procedure on a volunteer or mannequin. The session begins with Purva Karma, preparing the patient, explaining the procedure, obtaining consent, and gathering materials like medicated oil and sterile cotton pads. During Pradhana Karma, the instructor demonstrates soaking the cotton pad in warm oil and placing it securely on the crown of the head. In Paschat Karma, students learn to remove the Pichu after 30-60 minutes and gently clean the scalp, providing post-treatment care instructions. The procedure may also be demonstrated using a pre- recorded video or 3D animation.
NLHP 2.12	Shirobasti demonstration	Demonstration The instructor guide students through the step-by-step procedure of Shirobasti. The session begins with Purva Karma, which involves patient preparation. During Pradhana Karma, the instructor demonstrates how to securely fit a leather cap on the patient's head, fill it with warm medicated oil, and maintain the temperature throughout the treatment. Finally, in the Paschat Karma phase, students observe how to properly remove the oil, conduct a gentle massage on the neck and shoulders, and advise the patient on post-treatment care.
NLHP 2.13	Sthanika Basti demonstration.	Demonstration

			The in The sec includ instruct duration proceed residu	The instructor illustrate the step-by-step procedure of Sthanika Basti on a volunteer or mannequin. The session begins with Purva Karma, which involves preparing the patient and the environment, including preparation of moulds and warming the medicated oil. During the Pradhana Karma, the instructor demonstrates the application of the warm medicated oil ensuring proper placement and duration for optimal therapeutic effects. Finally, in the Paschat Karma phase, students learn about post- procedure care, including observing the patient for any reactions and ensuring proper removal of any residual oil.									
NLHP	2.14	Procedure of Abhyanga	Demo The ir sessio Karma circula absort unders	Demonstration The instructor guides students through the Abhyanga procedure using a volunteer or mannequin. The session begins with Purva Karma, preparing the environment and warming the oil. During Pradhana Karma, the instructor demonstrates the massage technique, emphasizing long strokes on limbs and circular motions on joints. In Paschat Karma, students learn post-massage care, allowing the oil to absorb before taking a warm shower. This approach enhances students' practical skills and understanding of therapeutic effects of Abhyanga									
Topic	3 Swed	ana Karma (LH :9 NLHT: 4 NLHP: 1	.0)										
A3		<b>B</b> 3		C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3	
CO1	Describ of Swee	e definition of Sweda,Swedana karma and lana karma with its Guna.	classsification	СК	MK	K	TBL,L &PPT	CL-PR,S- LAQ	F&S	Ι	-	LH	
CO1	Describ	e Guna and Karma of Sweda and Swedopag	ga Dravya.	СК	МК	K	L&PPT ,ML	CL-PR,QZ ,S-LAQ	F&S	Ι	-	LH	
CO2, CO3	Explain	indications and contraindications of Sweda	nna Karma.	CC	МК	KH	CBL,BL ,BS,L& PPT	CL-PR,S- LAQ	F&S	Ι	-	LH	

CO3	Explain indications, contraindications and method of application of Chaturvidha Sweda.	CC	МК	КН	L&PPT ,PER,DI S	COM,S-LA Q,CL- PR,QZ	F&S	Ι	-	LH
CO3	Distinguish the method of application of Sankara Sweda and Nadi Sweda procedure.	CC	МК	KH	PER,L_ VC,TB L	COM,CL- PR	F&S	Ι	-	LH
CO2	Interpret the Samyak Swedana Lakshana, Ayoga Lakshana and Atiyoga Lakshana.	CC	МК	КН	L&PPT ,PBL,T BL,PER	CL-PR,S- LAQ	F&S	Ι	-	LH
CO3	Analyze the principles of practice of Swedana Karma in the clinical conditions of Sandhigata Vata, Vatarakta, Pakshaghata, Ardita, Gridhrasi and Amavata.	CAN	МК	КН	PER,TB L,CBL	S-LAQ,M- POS,QZ	F&S	Ι	-	LH
CO2, CO3, CO4	Analyze the fitness of Sweda in a patient posted for the procedure.	CAN	МК	КН	D-BED, PER,L& GD,RP	CHK,CL- PR	F&S	Ι	-	LH
CO1, CO4	Explain Swedana Karmukata.	CC	МК	КН	L&PPT ,PER,F C	S-LAQ	F&S	Ι	-	LH
CO4, CO7	Explain the Mechanism of Sweating and Thermoregulation in the context of Swedana	CC	МК	KH	L_VC,D IS,FC	CL-PR,S- LAQ	F	Ι	-	NLHT3.1
CO1, CO3	Discuss the indications of Sweda Karma .	CC	МК	KH	DIS,CB L	CL-PR	F&S	Ι	-	NLHT3.2
CO1, CO3	Discuss the contraindications of Sweda Karma	CC	MK	KH	BS,CBL	CBA,PRN	F&S	Ι	-	NLHT3.3
CO3, CO4,	Demonstrate Tapa Sweda.	PSY- GUD	МК	SH	KL,SIM ,D-	DOPS,DOP S,CBA	F&S	Ι	-	NLHP3.1

CO5							M,TBL					
CO3, CO4, CO5	Demon	strate Upanaha Sweda.		PSY- GUD	МК	КН	D-M,SI M,KL	DOPS,PP- Practical	F&S	Ι	-	NLHP3.2
CO3, CO4, CO5	Demon	strate Parisheka Sweda.		PSY- GUD	МК	SH	D,D- M,KL	DOAP,DO PS,CBA	F&S	Ι	-	NLHP3.3
CO3, CO4, CO5	Demon	strate Avagaha Sweda.		PSY- GUD	МК	SH	D,PT	P-PRF,DO AP,DOPS	F&S	Ι	-	NLHP3.4
CO3, CO4, CO5	Demonstrate Nadi Sweda.		PSY- GUD	МК	SH	PT,D,K L	DOPS,OSP E	F&S	I	-	NLHP3.5	
<ul> <li>CO3, Demonstrate practice of Swedana Karma in Sandhigata Vata,</li> <li>CO4, Pakshaghata, Ardita,Gridhrasi and Amavata.</li> <li>CO5</li> </ul>		PSY- GUD	МК	SH	TBL,D, CBL,PE R,KL	P-CASE,C BA,DOPS	F&S	Ι	-	NLHP3.6		
Non L	ecture E	lour Theory					•					
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
NLHT	3.1	Mechanism of sweating	Discu In thi discu relatio Kaph their physi	Discussion (Concept Mapping) In this activity, students create a concept map on sweating and thermoregulation in small groups. They discuss key concepts like the role of sweat glands, neurotransmitters in thermoregulation, and the relationship between sweating and dosha balance in Ayurveda. Students explore how Swedana affects Kapha by generating heat and Vata by mobilizing toxins. After completing their maps, groups present their findings, fostering a collaborative learning environment that enhances understanding of both physiological and Ayurvedic perspectives.								

NLHT 3.2	Indications of Sweda Karma	Case Based Learning Students engage in a collaborative activity where they are presented with clinical case scenarios, such as patients with obesity, joint pain, or skin disorders like eczema. In pairs or small groups, they discuss whether Sweda Karma would be appropriate for these conditions and the rationale behind their decisions. Students link each condition to specific dosha imbalances, exploring how Swedana can promote detoxification and balance the doshas. This discussion fosters critical thinking about applying Ayurvedic principles in clinical practice. By the end of the session, students gain a deeper understanding of how Sweda Karma can be effectively integrated into treatment plans for various health issues.
NLHT 3.3	Contraindications of Sweda Karma	Brainstorming Students are divided into small groups to brainstorm the contraindications for Swedana based on prior knowledge. Each group discusses conditions or situations where Swedana would be inappropriate, such as fever, dehydration, pregnancy, weakness, acute infections, skin disorders, and heart conditions. Afterward, each group shares their findings with the class, fostering collaboration and exploring the reasons behind these contraindications. This activity aims to enhance understanding of patient safety in Ayurvedic practices and the importance of careful assessment before administering therapeutic interventions.
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 3.1	Tapa Sweda procedure.	Team Based Learning Students work in groups to practice the procedure with a volunteer, mannequin, or patient under the instructor's guidance. In the Purva Karma phase, teams prepare the patient and gather materials, discussing pre-treatment assessments. During Pradhana Karma, they apply heated materials like hot sand or stones to induce sweating, explaining how it alleviates conditions like Ama Vata. In Paschat Karma, teams discuss post-treatment care, including hydration and dietary recommendations. This activity promotes teamwork and practical understanding therapeutic applications of Tapa Sweda.

NLHP 3.2	Upanaha Sweda procedure	Simulation Students simulate the procedure using a volunteer, mannequin, or model limb under the instructor's guidance. They prepare a Vatahara herbal paste and ensure the skin is clean during Purva Karma. In Pradhana Karma, students apply the paste to the affected area, cover it with leaves, and secure it with a bandage to retain heat. During Paschat Karma, they remove the paste after the recommended duration, clean the area with lukewarm water, and discuss post-treatment care. This simulation enhances procedural skills and clinical understanding for real-world application.
NLHP 3.3	Parisheka Sweda procedure.	Kinaesthetic learning In the Parisheka Sweda activity, students participate in the procedure under the instructor's guidance. They assist in the Purva Karma phase by preparing the patient with Abhyanga. During Pradhana Karma, students take turns pouring warm medicated liquids to induce sweating, ensuring proper technique and temperature. In the Paschat Karma phase, they practice post-treatment care, including advice for bathing, hydration, and rest. This hands-on experience enhances students' understanding of Parisheka Sweda's therapeutic applications in Ayurveda.
NLHP 3.4	Avagaha Sweda procedure.	Demonstration The instructor demonstrates the Avagaha Sweda procedure using a volunteer, mannequin, or patient. In the Purva Karma phase, the patient undergoes Abhyanga to relax and warm the body. During Pradhana Karma, the patient is immersed in a tub filled with warm medicated liquid, ensuring comfort and effective sweating. The instructor monitors the temperature to maintain optimal conditions. In the Paschat Karma phase, the instructor guides post-treatment care, including skin cleansing and recommendations for hydration and rest. This demonstration provides students with practical insights into therapeutic applications of Avagaha Sweda.
NLHP 3.5	Nadi Sweda procedure.	Demonstration The instructor demonstrates the Nadi Sweda procedure using a volunteer, mannequin, or patient. In the

		Purva Karma phase, the patient undergoes Abhyanga to warm and relax the body. During Pradhana Karma, steam infused with therapeutic herbs is directed towards the affected body part using the Nadi Sweda Yantra, promoting sweating. In the Paschat Karma phase, the instructor guides the patient through post-treatment care, focusing on hydration and rest for recovery
NLHP 3.6	Clinical application of Sweda	Case Based Learning Students engage in an interactive session on Swedana Karma for conditions like Sandhigata Vata, Pakshaghata, Ardita, Gridhrasi, and Amavata. Divided into small groups, they discuss the pathophysiology of assigned conditions. The instructor then delivers a brief lecture on Swedana Karma's mechanism and therapeutic effects. Case studies provide practical context, followed by a live demonstration where the instructor explains procedural modifications for each condition. The session concludes with feedback emphasizing the importance of personalized Ayurvedic therapies.

Topic 4 Special Procedures: Sankara Sweda, Ksheeradhooma, Pizhichil, Dhanyamladhara, Takradhara, Thalam and Thalapothichil and Annalepa (LH :7 NLHT: 9 NLHP: 19)

A3	B3	С3	D3	E3	F3	G3	Н3	I3	К3	L3
CO2, CO3	Explain the definition, types, procedure and benefits of Sankara Sweda	CC	МК	КН	L&PPT	S-LAQ,CO M,QZ	F	II	-	LH
CO2, CO3	Explain the definition, types, procedure and benefits of Ksheeradhooma	CC	МК	КН	L&PPT ,CBL	QZ ,S-LAQ	F	II	-	LH
CO2, CO3	Explain the definition, types, procedure and benefits of Pizhichil	CC	МК	КН	L_VC,L &PPT	CL-PR,S- LAQ	F	II	-	LH
CO2, CO3	Comprehend the definition, types, procedure and benefits of Dhanyamladhara	CC	МК	КН	L_VC,L &PPT	PRN	F	II	-	LH

CO2, CO3	Explain the definition, types, procedure and benefits of Takradhara	CC	MK	KH	L&PPT ,L_VC	CL-PR	F	Π	-	LH
CO2, CO3	Explain the definition, types, procedure and benefits of Thalam and Thalapothichil	CC	MK	KH	L&PPT	CBA	F	II	-	LH
CO2, CO3	Interpret the definition, types, procedure and benefits of Annalepa	CC	MK	KH	L&PPT	DOPS,S- LAQ,DOPS	F	Π	-	LH
CO3	Demonstrate the preparation, procedure of various Sankara Sweda with their therapeutic indications.	PSY- GUD	МК	SH	W,D-M, TPW,K L	DOPS,OSP E,P-PRF	F&S	II	-	NLHP4.1
CO3	Demonstrate the procedure of Ksheeradhooma with therapeutic indications .	PSY- GUD	MK	SH	D,SIM, PT,KL	DOPS,P- PRF	F&S	Π	-	NLHP4.2
CO3	Demonstrate the procedure of Pizhichil with therapeutic indications	PSY- GUD	MK	SH	KL,D	P-PRF,OSP E,DOPS	F&S	II	-	NLHP4.3
CO3	Demonstrate the procedure and preparation of Dhanyamladhara with its therapeutic indications.	PSY- GUD	MK	SH	D	OSPE,DOP S,P-PRF	F&S	II	-	NLHP4.4
CO3, CO5	Demonstrate the procedure and preparation of Takradhara with its therapeutic indications.	PSY- GUD	MK	SH	D	DOPS,OSP E,P-PRF	F&S	II	-	NLHP4.5
CO3, CO5	Demonstrate the procedure and preparation of Thalam and Thalapothichil with their therapeutic indications.	PSY- GUD	MK	SH	D,KL,SI M	OSPE,DOP S	F&S	II	-	NLHP4.6
CO3, CO4, CO5	Demonstrate the procedure and preparation of Annalepa with its therapeutic indications .	PSY- GUD	MK	SH	KL,D- M	RK,DOPS, OSPE	F&S	II	-	NLHP4.7
CO1	Discriminate regional variations in practice of Pizhichil	CAN	MK	KH	LS,PL,I BL,PER	DEB,COM	F	Π	-	NLHT4.1
CO1	Comprehend the concept of Sankara Sweda	CC	MK	KH	PL,TBL	CL-PR,INT	F	II	-	NLHT4.2

						,DIS	,COM				
CO1	Identify and categorise various drugs used for Thal Thalapothichil	am and	CAN	MK	КН	PrBL,DI S,LS	COM,T- OBT,QZ	F	II	-	NLHT4.3
CO1, CO3	, Comprehend the utility of Thalapothichil		CC	MK	КН	PBL,CB L	SP,P-PS	F	II	-	NLHT4.4
CO1, CO4	, Comprehend the procedure of Takradhara		CC	MK	КН	PL,TBL ,BL	M-POS,CO M,PRN	F	II	-	NLHT4.5
CO1, CO3	Identify variations in practice of Takradhara		CAP	MK	КН	DIS,LS, TBL	CL- PR,COM	F	II	-	NLHT4.6
CO1, CO3	Infer the clinical utility of Dhanyamla		CAP	MK	КН	IBL,CB L,DIS	COM,DEB, CL-PR	F	II	-	NLHT4.7
Non L	ecture Hour Theory					-					
	.No Name of Activity										
S.No	Name of Activity	Desc	ription of	Theory A	Activity						
S.No	Name of Activity           4.1         Interactive learning on regional variations practice of Pizhichil	in Group Stude select condi effect challe their o	p Discussion on the second contraction of the second contraction of the second conductor of the second	Theory A on regional w ist involve ed. They pr the therapy ch approac nificance, 1	Activity variations ment, oil resent thei y. A classi th. The fac helping st	in the pract application r findings, o coom discus culty conclu udents appr	ice of Pizhichil methods, patie comparing how ssion follows, v ides by summa reciate the adap	Each group ent position these van vhere stud rizing key tability o	oup exp ning, du riations dents an y differe f Pizhicl	lores diffe tration, an influence alyze the ences and hil in diffe	erences in oil ad specific the benefits and explaining erent regions.

		all aspects.
NLHT 4.3	Compilation of drugs used for Thalam and Thalapothichil	Team Based Learning Students form small groups and classify the drugs used for Thalam and Thalapothichil based on their type (herbs, oils, pastes, liquids, etc.), dosha specificity, and conditions treated (neurological, psychiatric, dermatological, etc.). Each group discusses their classification and prepares a summary. They then present their findings to the class, followed by a faculty-led discussion that clarifies doubts and highlights the clinical significance of different materials.
NLHT 4.4	Utilty of Thalapothichil	Case Based Learning Divide students into small groups.Each group receives a unique patient scenario, such as a patient with insomnia, migraine, or scalp disorders, and engages in a discussion to analyze the condition based on Ayurvedic principles. They identify the predominant dosha imbalance and determine whether Thalam or Thalapothichil is the most suitable therapy. Using their knowledge of medicinal herbs, oils, and pastes, they carefully select the appropriate materials, considering their therapeutic properties and mode of action. Groups then justify their choices by explaining the rationale behind ingredient selection, expected benefits, and potential modifications based on patient-specific factors. This process encourages critical thinking and a deeper understanding of formulation selection in clinical practice.
NLHT 4.5	Interactive discussion on the procedure of Takradhara	Peer learning The class divides into four groups, each focusing on a specific aspect of Takradhara: preparation of Takra , patient preparation and positioning, procedure and technique, and post-procedure care with indications and contraindications. Each group discusses their assigned topic, compiles key points, and prepares a summary. Afterward, the groups reorganize into mixed teams, where each student teaches their assigned aspect to their peers. This process ensures collective learning, allowing every student to gain a comprehensive understanding of the entire procedure through peer interaction and discussion.
NLHT 4.6	Variations in practice of Takradhara	Team Project work Students compare and contrast classical and regional variations of Takradhara, analyzing differences in

		formulations, procedural techniques, and therapeutic applications across Ayurvedic traditions. Keraleeya Panchakarma practices, application in different wings of Ayurveda like Kayachikitsa, Manas Roga, Shalakya Tantra , Koumarabhritya and Prassoti Tantra. By engaging in case-based discussions and analyzing real-world applications, students learn to adapt and apply these variations in clinical practice, ensuring optimal patient care based on individual needs.
NLHT 4.7	Clinical utility of Dhanyamla	Case Based Learning Divide students into small groups.Each group receives a patient case scenario, such as a patient with rheumatoid arthritis, psoriasis, or diabetic neuropathy, and analyzes the condition based on Ayurvedic principles. They determine the appropriateness of Dhanyamla for the given case and discuss the mode of application of Dhanyamla, selecting suitable mode of use based on the patient's dosha imbalance and pathology. The group explores necessary procedure modifications for Dhanyamladhara including temperature adjustments, duration, and method of application, to ensure patient safety and maximize therapeutic effectiveness. They also identify the expected benefits, potential contraindications, and necessary precautions during and after the therapy. Each group then presents their treatment approach to the class, followed by peer feedback and faculty insights, ensuring a deeper understanding of clinical decision-making and personalized patient care.

## Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 4.1	Procedure of Sankara Sweda	Demonstration The instructor begins the demonstration by providing a brief overview of the Sankara Sweda procedure. The practical session follows a step-by-step approach, starting with material collection, where necessary herbs and ingredients are gathered. Next, the preparation of the patient is essential to ensure comfort and readiness for treatment. The teacher then demonstrates the preparation of materials, showcasing how to create different types of Pottali, including Choorna Pinda Sweda, Jambeera Pinda Sweda, Patrapotala Sweda, and Shahtika Sali Pinda Sweda. Following this, the application of the procedure is illustrated, emphasizing the correct techniques for administering the boluses. Finally, Paschat Karma instructions are provided to guide participants on post-treatment care

		and recommendations, ensuring a comprehensive understanding of the Sankara Sweda process.
NLHP 4.2	Demonstration of procedure of Ksheeradhooma	Kinaesthetic learning The instructor gives a brief overview of the Ksheeradhooma procedure. In the practical session, participants start by gathering the essential ingredients: milk and a suitable herbal decoction. They then prepare the patient, ensuring comfort and readiness. The instructor demonstrates how to make Ksheera, mixing milk with the herbal decoction to create a therapeutic infusion. Participants practice applying the procedure, following standard operating procedures to master the techniques for effective Ksheeradhooma. The session wraps up with Paschat Karma instructions, guiding participants on post- treatment care to enhance the benefits and ensure a complete understanding of the procedure.
NLHP 4.3	Demonstration of the procedure of Pizhichil	Kinaesthetic learning The instructor starts with a brief overview of Pizhichil. In the practical session, participants first collect the materials, including oil for Seka and Thalam, Rasnadi Choorna, muslin cloth, and vessels for heating the oil. They then prepare the patient, ensuring comfort and readiness. The instructor demonstrates how to heat the oil to the right temperature for optimal therapeutic effect. Participants practice applying the procedure according to standard operating procedures, learning the correct techniques for effective Pizhichil application. The session ends with Paschat Karma instructions, guiding participants on post-treatment care to maximize the benefits of this rejuvenating therapy.
NLHP 4.4	Demonstration of Dhanyamladhara procedure	Simulation The instructor begins with a brief introduction to the Dhanyamladhara procedure. In the simulation practical, participants first collect the materials, including Dhanyamla, Varshulika (pots), and Rasnadi Choorna. They then prepare the patient for comfort and readiness. The instructor demonstrates how to heat the Dhanyamla to the correct temperature for effective application. Participants practice applying the procedure following standard operating procedures, ensuring they learn the proper techniques. The session concludes with the instructor providing Paschat Karma instructions, guiding participants on post-treatment care and recommendations to maximize therapeutic benefits.

NLHP 4.5	Demonstration of Takradhara procedure	Demonstration The instructor provides a concise overview of the Takradhara procedure. The practical session begins with material collection, which includes essential items such as Ksheera , herbs for preparing Kashaya, and appropriate Dhara vessels. Following this, the preparation of the patient is emphasized to ensure comfort and readiness for the therapy. The teacher then demonstrates the preparation of Takra. The application of the procedure is conducted ensuring proper technique and effectiveness in delivering the treatment. Finally, the teacher provides Paschat Karma instructions, offering guidance on post- treatment care and recommendations to enhance the benefits of Takradhara, thus ensuring participants gain a comprehensive understanding of this therapeutic practice.
NLHP 4.6	Demonstration of Thalam and Thalapothichil procedure	Kinaesthetic Learning The instructor starts by providing a brief overview of the Thalam and Thalapothichil procedures. In the practical session, participants first collect the materials, including herbal powders, herbal decoction, and oil. They then prepare the patient for comfort and readiness. The instructor demonstrates how to prepare the herbal paste for both procedures. Participants follow along, learning to apply the paste to the scalp using the correct techniques. Finally, the instructor explains Paschat Karma, guiding participants on post-treatment care and recommendations for optimal benefits,
NLHP 4.7	Demonstration of Annalepa procedure	Demonstration The instructor begins with a brief overview of the Annalepa procedure. The practical session commences with material collection, which includes essential ingredients such as Shashtikashali , milk, and a suitable herbal decoction. Following this, the preparation of the patient is to be emphasized to ensure their comfort and readiness for the treatment. The teacher then demonstrates the preparation of the material, illustrating the process of making Annalepa, which involves combining the rice, milk, and herbal decoction to create a paste for application. The application of the procedure is to be conducted according to standard operating procedures , ensuring participants learn the correct techniques for administering Annalepa effectively. Finally, Paschat Karma instructions are to be provided, offering guidance on post-treatment care and recommendations to enhance the therapeutic effects of this nourishing treatment, thus ensuring a comprehensive understanding of the Annalepa procedure.

Topic :	5 Physiotherapy (LH :6 NLHT: 1 NLHP: 7)									
A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO7	Define Physiotherapy and describe the scope and importance of Physiotherapy in practice.	СК	МК	K	L&PPT	S-LAQ	F&S	II	-	LH
CO7	Explain the physiological benefits of Static exercises	CC	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO7	Explain the physiological benefits of Isotonic exercises.	CC	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO7	Distinguish the physiological effects of deep heating modalities & Superficial heating modalities	CC	МК	КН	L&PPT	S-LAQ	F&S	II	-	LH
CO7	Explain the clinical indications & physiological effects of Electrotherapy	CC	МК	КН	L&PPT	S-LAQ	F&S	Π	-	LH
CO7	Interpret the specific applications & physiological effects of Manual therapy	CC	МК	КН	L&PPT ,BL	S-LAQ	F&S	II	-	LH
CO7	Demonstrate the Isotonic exercises, benefits and proper techniques to perform.	PSY- GUD	МК	KH	D-M,C BL,KL	OSPE,DOA P,P- PRF,CBA	F&S	II	-	NLHP5.1
CO7	Demonstrate Superficial heating modalities and Deep heating modalities.	PSY- GUD	DK	SH	KL,CB L	DOAP,OS CE,DOPS	F&S	II	-	NLHP5.2
CO7	Demonstrate Interferential Therapy (IFT), Transcutaneous Electrical Nerve Stimulation (TENS) and Muscle Stimulation Therapy (MST)	PSY- GUD	DK	SH	KL,CB L	OSCE,DO AP	F&S	II	-	NLHP5.3
CO7	Demonstrate Manipulation techniques for Shoulder joint, Knee joint and Spine disorders	PSY- GUD	DK	SH	PT,KL, D	P-PRF,OSC E,DOPS	F&S	II	-	NLHP5.4
CO1, CO7	Relate the integration of Physiotherapy and Ayurvedic approaches	CAP	МК	КН	DIS,BS, CBL	Log book,PM	F&S	Π	-	NLHT5.1

Non Lecture	Hour Theory		
S.No	Name of Activity	Description of Theory Activity	
NLHT 5.1	Discussion on Integration of Physiotherapy and Ayurvedic approaches	Brainstorming The class divides into small groups, each brainstorming on Ayurvedic and Physiotherapy approaches for musculoskeletal and neurological conditions. They explore common principles shared between the two disciplines, such as Marma therapy and trigger point therapy, or Kati Basti and lumbar traction, while also identifying differences in therapeutic goals and techniques. Each group compiles key insights and presents their findings, followed by a faculty-led discussion to refine understanding and highlight the integrative potential of both systems in patient care.	
Non Lecture	Hour Practical		
S.No	Name of Practical	Description of Practical Activity	
NLHP 5.1	Procedure of Isometric and Isotonic Exercise	Kinaesthetic learning The instructor chooses a spacious area and assumes the correct stance, ensuring proper alignment. They guide a volunteer through each movement, demonstrating the postures while explaining the benefits and techniques. The volunteer actively follows along, feeling the stretch and engagement of each muscle. After completing the exercises, they take a brief resting period to recover and reflect. The instructor then sets the number of repetitions, encouraging a gradual increase in intensity. This interactive approach allows participants to experience the exercises firsthand, enhancing their understanding through movement.	
NLHP 5.2	Procedure of Superficial heating modalities and Deep Heating Modalities.	Simulation In a simulated session, a volunteer performs exercises as the instructor demonstrates movements, explaining posture and benefits. Participants observe, analyze form, provide feedback, and discuss corrections. After a brief rest, the instructor assigns repetitions, encouraging coaching practice. This structured approach integrates observation, analysis, and hands-on learning.	

NLHP :	5.3	Procedure of Interferential Therapy (IFT) , Transcutaneous Electrical Nerve Stimulation (TENS) and Muscle Stimulation Therapy (MST)	Demo The ins review machir electric distribu electro conclu exercis	Demonstration The instructor demonstrates IFT, TENS, and MST procedures, beginning with patient assessment and reviewing medical history for safety. Essential materials, including electrodes and respective machines, are gathered before setup. For IFT, electrodes are placed near the pain area, delivering mild electrical currents for 20–30 minutes to stimulate nerves and muscles. In TENS, electrodes target pain distribution, administering impulses for about 20 minutes to relieve discomfort. MST involves electrode placement for muscle contraction, aiding rehabilitation and strength. Each demonstration concludes with post-treatment care instructions, emphasizing recovery, hydration, and follow-up exercises for optimal results.											
NLHP :	5.4	Procedure of Manual therapy	Demonstration The instructor demonstrates manual therapies on a volunteer, including basic massage techniques for relaxation and circulation, joint mobilization for the shoulder, knee, and spine, and myofascial releas to reduce tension. Techniques such as scapular manipulation for shoulder dislocations and mobilization for knee and spinal joints are showcased to enhance flexibility and relieve stiffness. Emphasizing proper technique, patient comfort, and therapeutic benefits, the session provides participants with a practical understanding of effective manual therapy applications.												
Topic	6 Vama	nna Karma (LH :13 NLHT: 7 NLHP: 15)													
A3		<b>B</b> 3		C3	D3	E3	F3	G3	Н3	I3	К3	L3			
CO1, CO3	Define of Vam	Vamana and describe the indications and contraind ana Karma	ications	СК	МК	К	L&PPT ,REC,D IS	S-LAQ,P- REC	F&S	II	-	LH			
CO1, CO3	Explain	the indications and contraindications of Vamana K	Karma	CC	MK	КН	CBL,L &GD	PRN,QZ	F&S	II	-	NLHT6.1			
CO2, CO4	CO2, Explain the Purva Karma of Vamana with Sambhara Sangraha CO4 & Atura Pariksha.				МК	КН	CBL,L_ VC,L&	S-LAQ	F&S	II	-	LH			

					PPT					
CO2, CO4	Explain Atura Siddhata including Abhyantara Snehapana, Vishrama Kala procedures and Vamaka Yoga preparation with anupana and dose	CC	MK	KH	L&PPT ,L_VC	S-LAQ,CL- PR	F&S	II	-	LH
CO2, CO4	Explain Pradhana Karma with administration of Vamana Yoga, analysis of Lakshana indicating Doshagati, management during Vamana Karma and observation of Vega	CC	MK	KH	L_VC	CBA,S- LAQ	F&S	II	-	LH
CO2, CO4	Explain the symptoms of Samyak, Ayoga, Atiyoga with Chikitsa of Ayoga and Atiyoga	CC	МК	KH	L_VC	S-LAQ,M- CHT	F&S	II	-	LH
CO2, CO4	Explain Paschat Karma including assessment of Shuddhi, Dhoomapana & Kavala, Samsarjana Krama and Parihara Vishaya of Vamana	CC	МК	KH	CBL,L &PPT ,PBL	CBA,S- LAQ	F&S	II	-	LH
CO4, CO6	Explain Vamana Vyapat and Chikitsa	CC	МК	КН	L&PPT	S-LAQ	F&S	II	-	LH
CO3	Explain the concept of Sadyo Vamana	CC	MK	КН	CBL,L &PPT ,L_VC	S-LAQ	F&S	II	-	LH
CO1, CO3	Explain Vamana Karmukata	CC	МК	KH	L&PPT ,L_VC	S-LAQ	F&S	II	-	LH
CO1, CO3	Analyze the principles of practice of Vamana in Kushta	CAN	МК	КН	CBL,PB L	PRN	F	II	-	LH
CO1, CO3	Analyze the principles of practice of Vamana in Shwasa	CAN	MK	КН	CBL,RP ,PBL	PRN	F	II	-	LH
CO1, CO3	Analyze the principles of practice of Vamana in Yuvanapidaka	CAN	МК	KH	PBL,CB L	PRN	F	Π	-	LH

CO1, CO3	Analyze the principles of practice of Vamana in Amlapitta	CAN	MK	KH	CBL,M L,PBL	PRN	F	II	-	LH
CO2	Enlist and Identify Vamana and Vamanopaga dravya and describe the properties of Vamana drugs	СК	MK	KH	L&PPT ,DG	P-ID	F&S	II	V-DG	NLHT6.2
CO3	Prepare a disease wise Vamana Purva Karma chart	CAP	MK	KH	CBL	PRN	F	II	-	NLHT6.3
CO4, CO8	Illustrating patient counselling for Vamana karma	CAN	MK	KH	RP,DL	CL-PR	F	II	-	NLHT6.4
CO4	Show comprehensive knowledge of Vamana Paschat Karma	CAP	МК	KH	PL,CBL ,RP,DIS	PRN	F	II	-	NLHT6.5
CO3	Comprehend the concept of Sadyo Vamana	CC	MK	KH	PL,DIS	T-OBT,M- CHT	F	II	-	NLHT6.6
CO5	Demonstrate Purva Karma of Vamana	PSY- GUD	MK	SH	D	OSPE,DOP S	F&S	II	-	NLHP6.1
CO5	Demonstrate Pradhana Karma of Vamana	PSY- GUD	MK	SH	D,W,K L	OSPE	F&S	II	-	NLHP6.2
CO5	Demonstrate Paschat Karma of Vamana	PSY- GUD	MK	SH	D	OSPE	F&S	II	-	NLHP6.3
CO5	Demonstrate Sadyo Vamana	PSY- GUD	MK	SH	CBL,D	CBA,OSPE	F&S	II	-	NLHP6.4
CO5	Demonstrate Vamana Karma in Shwasa	PSY- GUD	МК	KH	D,CBL, L&PPT ,PBL	DOPS,OSC E,CBA	F&S	II	-	NLHP6.5
CO5	Demonstrate Vamana Karma in Amlapitta	PSY- GUD	МК	SH	TBL,CB L,PBL, D	CBA,DOPS ,OSCE	F&S	II	-	NLHP6.6

CO5	Demonstrate Vamana Karma in Kushta			PSY- GUD	МК	SH	D,CBL	DOPS,OSC E,CBA	F&S	II	-	NLHP6.7		
Non Le	ecture H	Iour Theory					•	•	I					
S.No		Name of Activity	Description of Theory Activity											
NLHT 6.1       Indications and contraindications of Vamana Karma       Case-Based Learning Students analyze clinical cases involving Kapha disorders and Medoroga, determining whether Vamana is indicated or contraindicated. Each group evaluates symptoms and medical history, justifying their conclusions. The instructor facilitates discussions, encouraging critical thinkin Groups present their findings, reinforcing clinical decision-making and the therapeutic applic Vamana in practice.								nether ory, nking. plications of						
NLHT (	NLHT 6.2 Identification of Vamana and Vamanopaga Dravya				Group Discussion Students work in small groups, each assigned a specific task. One group classifies Vamana Dravya, another explores Vamanopaga Dravya, and a third conducts a detailed study of Madanaphala, analyzing its Rasa, Guna, Veerya, Vipaka, and Prabhava. Groups organize findings using charts or digital tools and present their insights. The session concludes with a guided visit to the herbal garden or Dravyaguna museum for direct observation, reinforcing theoretical concepts through practical exposure.									
NLHT 6.3Preparation of disease wise Vamana Purva Karma chartMaking of Charts The Vamana Purvakarma chart outlines key preparatory steps for effective therapeutic emesis. It begins with Deepana-Pachana to enhance digestion, followed by Abhyantara Snehana with medicate ghee or oil and BahyaSnehana, Swedana and Dietary guidelines during Sneha Sweda and on the day prior to Vamana (Utklesha diet).The chart shall also include psychological preparation which helps patients stay relaxed and informed. This structured approach optimizes Vamana therapy outcomes.								nesis. It h medicated on the day hich helps butcomes.						
NLHT (	6.4	Roleplay on patient communication for Vamana	Rolep	olay										

	Karma	Students role-play as Patient and Practitioner to practice patient counseling. The Practitioner establishes rapport, explains Vamana Karma—its purpose, indications (e.g., Kapha disorders), and Purva Karma preparation. They detail the procedure, expected outcomes, benefits (e.g., improved digestion, detoxification), and possible discomforts. Post-procedure care is outlined, and patient concerns are addressed with reassurance. The session concludes with obtaining written consent, reinforcing collaboration. This exercise enhances communication skills and deepens practical understanding of Vamana therapy.
NLHT 6.5	Interactive discussion on Paschat Karma	Group discussion Participants are divided into groups, each assigned specific topics: diet regimen (Samsarjana Krama), lifestyle modifications, and management of complications such as dehydration and fatigue. Each group will conduct research on their topic and then teach their findings to other participants, fostering a collaborative learning environment.
NLHT 6.6	Peer learning on the concept of Sadyo Vamana	Peer learning Participants will be assigned specific topics to prepare, including the definition and importance of Sadyo Vamana, indications and contraindications, steps of the procedure, complications and their management, and a comparison with classical Vamana. Following this, participants will be divided into small groups to discuss their topics and prepare presentations. The session will conclude with a summary of key takeaways, incorporating insights from all participants to enhance understanding of Vamana.
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 6.1	Demonstration of Vamana Purva Karma in a patient	Kinaesthetic learning Students actively participate in each step of Vamana Purva Karma. They begin by collecting and organizing all necessary tools and herbal preparations. They then assess Agni and Koshta to determine the patient's readiness for Vamana therapy. Students perform Abbyenters Spehana and Swedana

## the patient's readiness for Vamana therapy. Students perform Abhyantara Snehana and Swedana,

		applying oil and heat therapy to prepare the body. They engage in selecting an appropriate Vamaka Dravya based on the patient's condition, discussing its properties and effects. Finally, they collaborate in planning dietary guidelines to optimize patient readiness, ensuring hands-on learning and deeper understanding of Vamana Purva Karma.
NLHP 6.2	Pradhana Karma of Vamana in a patient	Kinaesthetic learning Students actively participate in gathering and organizing all necessary tools and medications. They engage in preparing the patient by explaining the procedure and obtaining informed consent. Students then set up and arrange the required medications for easy access. During the application of the procedure, they administer Vamana yoga and assist in Akanta pana to induce vomiting. They observe and assess Vega and Upavega, actively monitoring signs of Samyak, Ayoga, and Atiyoga. Throughout the process, they apply appropriate Chikitsa for any deviations, ensuring hands-on learning and a deeper understanding of the Vamana procedure .
NLHP 6.3	Demonstration of Paschat Karma of Vamana	Kinaesthetic learning Students participate by performing the assessment of Shuddhi to evaluate the purification achieved through Vamana and allied therapies, including monitoring the effectiveness of Dhoomapana and Kavala practices. They collaborate in providing dietary guidelines that support recovery. Students also engage in discussions about Parihara Vishaya, exploring lifestyle modifications to prevent disease recurrence. Finally, they actively discuss Vamana Vyapat and Chikitsa, focusing on the indications and treatment protocols for Vamana therapy, ensuring a hands-on understanding of the procedure and its impact on patient health.
NLHP 6.4	Demonstration of Sadyo Vamana in a patient	Workshop Students actively participate in a hands-on workshop on Sadyo Vamana under instructor supervision. They begin by assessing indications and contraindications, followed by material collection and patient preparation. In small groups, they administer emetic substances, observe vega and upavega, and identify samyak, ayoga, and atiyoga lakshana. Post-procedure, they practice Paschat Karma protocols, including dietary guidelines and recovery care. A debrief session follows, where students analyze outcomes, discuss complications, and refine their approach for real-world application.

NLHP (	5.5	Demonstration of Vamana Karma in a Shwasa patient	Demonstration The instructor demonstrates the Vamana procedure by first collecting and sterilizing necessary tools They explain the procedure to the patient and obtain informed consent. The materials for Vamana and prepared, and the procedure is demonstrated with attention to technique. The instructor observes for Samyak, Ayoga, and Atiyoga lakshana. Afterward, Paschat karma instructions for post-procedure ca are provided, followed by an outcome and assessment to evaluate the procedure's success and any improvements needed.							sary tools. Vamana are serves for ocedure care and any		
NLHP (	5.6	Demonstration of Vamana Karma in an Amlapitta patient	Same	as for Shv	vasa							
NLHP 6	5.7	Demonstration of Vamana Karma in a Kushta patient	Same as for Shwasa									
Topic 7	7 Virec	nana Karma (LH :13 NLHT: 7 NLHP: 15)										
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO1	Define contrair	Virechana and describe the indications and dications		СК	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO1	Describ	e the types of Virechana		СК	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO2	Apply t Trivrut Modaka	ne principles of selection of Virechana formulations Lehya. Avipathi Choorna, Abhayadi , Gandharveranda Taila	-	САР	MK	KH	L&PPT	S-LAQ	F&S	II	-	LH
CO2, CO4	Descrit	be the Sambhara Sangraha and Atura Pariksha		СК	MK	K	L&PPT	S-LAQ	F&S	II	-	LH
CO2, CO4	Explain ,Vishran and dos	Aatura Sidhata including Abhyantara Snehapana na Kala procedures and Virechana Yoga with Anup e	ana	CC	МК	КН	CBL,L &PPT	S-LAQ	F&S	II	-	LH

CO4	Explain the administration of Virechana Yoga and observation of Vega	CC	МК	KH	CBL,L &PPT	S-LAQ	F&S	II	-	LH
CO4, CO6	Infers the symptoms of Samyak, Ayoga, Atiyoga of Virechana with Chikitsa of Ayoga and Atiyoga	CAN	МК	КН	L&PPT ,CBL	S-LAQ	F&S	II	-	LH
CO4, CO6	Explain Paschat Karma of Virechana including assessment of Shuddhi, Samsarjana Krama and Parihara Vishaya of Virechana	CC	МК	KH	L&PPT ,CBL	S-LAQ	F&S	II	-	LH
CO4, CO6	Explain Virechana Vyapat and Chikitsa	CC	МК	КН	L&PPT ,CBL	S-LAQ	F&S	II	-	LH
CO1, CO3	Explain Virechana Karmukata	CC	МК	КН	CBL,L &PPT	S-LAQ	F&S	II	-	LH
CO3	Analyse principles of practice of Virechana Karma in Kushta	CAN	МК	КН	L&PPT ,CBL	PRN,S- LAQ	F	II	-	LH
CO3	Analyse principles of practice of Virechana Karma in Vatarakta	CAN	МК	КН	CBL,L &PPT	PRN	F	II	-	LH
CO3	Analyse principles of practice of Virechana Karma in Pakshaghata	CAN	МК	КН	CBL	PRN	F	II	-	LH
CO3	Analyse principles of practice of Virechana Karma in Prameha	CAN	MK	KH	CBL	PRN	F	II	-	LH
CO1	Explain Indications and contraindications of Virechana Karma	CC	MK	KH	L&GD	S-LAQ	F&S	Π	-	NLHT7.1
CO2	Enlist and identify Virechana and Virechanopaga Dravya and describe the properties of Virechana Dravya	СК	МК	KH	L&PPT ,DG	P-ID	F&S	II	V-DG	NLHT7.2
CO3	Prepare a disease wise Virechana Purva Karma chart	CAN	MK	KH	CBL	PRN	F	II	-	NLHT7.3
CO3	Distinguish Nitya Virechana and Koshta Shodhana in patients	CC	MK	KH	CBL,TB L	СОМ	F	II	-	NLHT7.4

CO1, CO3	Analyze	e the principles of selection of formulations for Virec	hana	CAN	МК	KH	PBL,CB L	PRN	F	Π	-	NLHT7.5
CO5	Demons	strate Purva Karma of Virechana		PSY- GUD	МК	SH	D	DOPS,OSP E	F&S	Π	-	NLHP7.1
CO5	Demons	strate Pradhana Karma of Virechana		PSY- GUD	МК	SH	D	DOPS,OSP E	F&S	Π	-	NLHP7.2
CO5	Demons	strate Paschat Karma of Virechana		PSY- GUD	MK	SH	D	CHK,DOP S,OSPE	F&S	Π	-	NLHP7.3
CO5	Demons	strate Virechana Karma in Kushta		PSY- GUD	MK	SH	D,CBL	СВА	F&S	Π	-	NLHP7.4
CO5	Demons	strate Virechana Karma in Vatarakta		PSY- GUD	МК	SH	CBL,D	СВА	F&S	II	-	NLHP7.5
CO5	Demons	strate Virechana Karma in Pakshaghata		PSY- GUD	МК	SH	CBL,D	СВА	F&S	II	-	NLHP7.6
CO5	Demons	strate Virechana Karma in Prameha		PSY- GUD	МК	SH	CBL,D	СВА	F&S	II	-	NLHP7.7
Non Lo	ecture H	lour Theory										
S.No		Name of Activity	Descri	iption of	Theory A	Activity						
NLHT <sup>*</sup>	7.1	Indications and contraindications of Virechana Karma	Group Discussion Students are divided into small groups, each assigned topics like indications, contraindications, and factors influencing patient selection. Using clinical cases representing various doshic imbalances, groups evaluate whether Virechana is indicated and discuss the rationale behind their decisions. They explore potential risks of ignoring contraindications and the importance of patient assessment for safety and therapeutic efficacy. Key takeaways are summarized at the end to reinforce these concepts.									

NLHT 7.2	Enlist and identify Virechana and Virechanopaga Dravya	Garden visit Students are divided into groups for an interactive session on Virechana and Virechanopaga Dravya. Each group focuses on classifying Virechana Dravya, Virechanopaga Dravya, and detailed study of Trivrit, including its properties and mode of action. Groups discuss the Rasa, Guna, Virya, Vipaka, and Prabhava of their assigned drugs using charts or digital tools. Students also explore Virechana and Virechanopaga drugs in the herbal garden or Dravyaguna museum. This activity enhances understanding of Ayurvedic pharmacology and its therapeutic applications.
NLHT 7.3	Preparation of a disease wise Virechana Purva Karma chart	Making of Charts Students create a comprehensive chart detailing Virechana Purva Karma, including Deepana and Pachana, Snehana (internal and external), Swedana, dietary guidelines, and psychological preparation. Each section outlines the definition, indications, formulations, procedures, and benefits of these practices. This activity enhances understanding of Ayurvedic principles and the importance of preparatory therapies for promoting health and well-being.
NLHT 7.4	Compilation on Nitya Virechana and Koshta Shodhana	Team-Based Learning Students are divided into groups to compile information on Nitya Virechana and Koshta Shodhana, focusing on their definitions, indications, formulations, procedures, and benefits. They explore formulations like Trivrut for Nitya Virechana and specific herbs for Koshta Shodhana. The discussion compares the two therapies, highlighting Nitya Virechana for routine detoxification and Koshta Shodhana for deeper cleansing, along with differences in intensity, frequency, drug choice, and outcomes.
NLHT 7.5	Analysis of selection of formulations for Virechana	PBL Students analyze the selection of Virechana drugs based on various factors, including the Dosha involved, Rogibala, Agnibala, Vaya, Vyadhi Avastha, and seasonal considerations (Rutu). They evaluate the Guna and Kalpana of each formulation to ensure compatibility with the patient's constitution. The discussion focuses on Trivrut Lehya, Avipathi Choorna, Abhayadi Modaka, and Gandharveranda Taila, tailoring each formulation to the patient's specific constitution and health

		status for effective detoxification through Virechana therapy.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 7.1	Demonstration of Virechana Purva Karma	Kinaesthetic Learning In this hands-on demonstration of Virechana Purva Karma, students actively participate in preparing the patient for the procedure. They start by collecting all necessary tools and purgative substances. Next, they assess the patient's overall health and readiness for treatment, including evaluating Agni and Koshta to determine fitness for Virechana. Students then provide specific dietary guidelines, recommending a light diet before the procedure. Once the patient is adequately prepared, students select the appropriate Virechana Dravya based on individual needs. This interactive approach helps students engage with the steps of Virechana Purva Karma, reinforcing their understanding of the preparation required for effective detoxification.
NLHP 7.2	Demonstration of Pradhana karma of Virechana	Kinaesthetic Learning The procedure begins overnight to prepare for purgation. In the morning, students administer Virechana Yoga by giving carefully selected purgative drugs to induce controlled bowel movements. They closely monitor the patient for signs of Vega and Upavega, ensuring the process is proceeding as expected. Throughout the procedure, students make observations for Lakshana of Samyak, Ayoga, and Atiyoga, providing appropriate Chikitsa for any complications arising from Ayoga or Atiyoga. This hands-on approach allows students to engage directly in the detoxification process while prioritizing patient safety and comfort during Virechana.
NLHP 7.3	Demonstration of Paschat Karma of Virechana	Demonstration Paschat Karma instructions guide the patient on post-treatment care, emphasizing recovery. An assessment of Shuddhi evaluates the effectiveness of the purgation process. The instructor outlines dietary guidelines, recommending a light, easily digestible diet to support digestion. Pariharya Vishaya are discussed to prevent symptom recurrence and promote health. Finally, Virechana vyapat and

			Chikitsa are addressed, focusing on potential complications and their management . This approach ensures optimal care after Virechana therapy.							pproach		
NLHP	7.4	Demonstration of Virechana in a Kushta patient	Demo Materi assess approp the pu Pascha a post-	nstration ial collection ing their co priate purg rgative wh at karma in -treatment	on gathers ondition ar atives base ile monito astructions assessmen	all necess ad ensuring ed on the paring the par guide pos t evaluate	ary tools an g readiness patient's ne atient for S t-treatment s the patien	nd purgative su . The material eds. During the amyak, Ayoga care, includin it's response ar	ubstances. preparatio e procedur , and Atiyo g diet and nd recover	Patient on invol re, the in oga laks lifestyl y.	preparatio ves selecti nstructor a shana. Afte e adjustme	on includes ng dministers er Virechana, ents. Finally,
NLHP 7	7.5	Demonstration of Virechana in a Vatarakta patient	<sup>t</sup> Same as for Kushta									
NLHP 7	7.6	Demonstration of Virechana in a Pakshaghata patient	Same	as for Kus	hta							
NLHP 7	7.7	Demonstration of Virechana in a Prameha patient	Same	as for Kus	hta							
Topic	8 Basti	Karma (LH :18 NLHT: 10 NLHP: 25)										
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1	Describ accordin	e the definition, synonyms and the classification of E ng to Matra, Adhishtana and Krama	Basti	СК	МК	K	L&PPT	S-LAQ	F&S	III	-	LH
CO2 Describe the traditional and currently used instruments with their specifications for Niruha and Anuvasana Basti		their	СК	МК	К	L_VC,L &PPT	S-LAQ	F&S	III	-	LH	
CO2	Enlist A Asthapa	Anuvasana, Asthapana, Anuvasanopaga and anopaga Dravya	CK DK KH FC S-LAQ,QZ F III -						LH			

Describe the indications and contraindications of Anuvasana Basti	СК	МК	КН	CBL,L &PPT ,EDU	S-LAQ	F&S	III	-	LH
Explain the Purva Karma of Anuvasana Basti including dose, diet and time of administration of Anuvasana Basti	CC	МК	КН	L_VC,L &PPT ,D	S-LAQ	F&S	III	-	LH
Explain the Pradhana Karma of Anuvasana Basti comprising of steps of administration, retention time,Apratyagamana of Sneha,Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga	CC	МК	КН	L&PPT ,CBL	S-LAQ	F&S	III	-	LH
Explain the Paschat karma of Anuvasana Basti comprising of diet and regimen after Anuvasana basti,Vyapat and Chikitsa	CC	МК	KH	L&PPT ,CBL,Pr BL	S-LAQ	F&S	III	-	LH
Describe the indications and contra indications of Niruha Basti	СК	МК	К	L&PPT ,CBL,P BL	S-LAQ	F&S	III	-	LH
Explain the Purva Karma of Niruha basti	CC	МК	КН	KL,L& PPT ,L_VC	S-LAQ	F&S	III	-	LH
Explain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga	CC	МК	КН	L&PPT ,L_VC	S-LAQ	F&S	III	-	LH
Explain the Paschat Karma of Niruha Basti comprising of the diet and regimen after Niruha Basti, Vyapat and Chikitsa	CC	МК	КН	CBL,PB L,L&PP T	S-LAQ	F&S	III	-	LH
	Describe the indications and contraindications of Anuvasana         Basti         Explain the Purva Karma of Anuvasana Basti including dose, diet and time of administration of Anuvasana Basti         Explain the Pradhana Karma of Anuvasana Basti comprising of steps of administration, retention time, Apratyagamana of Sneha, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga         Explain the Paschat karma of Anuvasana Basti comprising of diet and regimen after Anuvasana basti, Vyapat and Chikitsa         Describe the indications and contra indications of Niruha Basti         Explain the Purva Karma of Niruha basti         Explain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga         Explain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and Atiyoga         Explain the Paschat Karma of Niruha Basti comprising of the diet and regimen after Niruha Basti, Vyapat and Chikitsa	Describe the indications and contraindications of Anuvasana BastiCKExplain the Purva Karma of Anuvasana Basti including dose, diet and time of administration of Anuvasana BastiCCExplain the Pradhana Karma of Anuvasana Basti comprising of steps of administration, retention time, Apratyagamana of Sneha, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and AtiyogaCCExplain the Paschat karma of Anuvasana Basti comprising of diet and regimen after Anuvasana basti, Vyapat and ChikitsaCCDescribe the indications and contra indications of Niruha BastiCKExplain the Purva Karma of Niruha bastiCCExplain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and AtiyogaCCExplain the Pradhana Karma 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,DS-LAQF&amp;SIII-Explain the Pradhana Karma of Anuvasana BastiCCMKKHL_VPT ,DS-LAQF&amp;SIII-Explain the Pradhana Karma of Anuvasana BastiCCMKKHL_&amp;PPT ,DS-LAQF&amp;SIII-Explain the Pradhana Karma of Anuvasana Basti comprising of steps of administration, retention time, Apratyagamana of Sncha, Samyak Yoga, Ayoga and AtiyogaCCMKKHL&amp;PPT ,CBLS-LAQF&amp;SIII-Explain the Paschat karma of Anuvasana Basti comprising of diet and regimen after Anuvasana basti, Vyapat and ChikitsaCCMKKHL&amp;PPT ,CBL,PS-LAQF&amp;SIII-Describe the indications and contra indications of Niruha BastiCKMKKL_&amp;PPT ,L_VCS-LAQF&amp;SIII-Explain the Purva Karma of Niruha BastiCCMKKHL&amp;PPT ,L_VCS-LAQF&amp;SIII-Explain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and AtiyogaCCMKKHL&amp;PPT ,L_VCS-LAQF&amp;SIII-Explain the Paschat Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagam</td></td<>	Describe the indications and contraindications of Anuvasana BastiCKMKKHCBL,L &PPT ,EDUS-LAQF&SIII-Explain the Purva Karma of Anuvasana BastiCCMKKHL_VC,L &PPT ,DS-LAQF&SIII-Explain the Pradhana Karma of Anuvasana BastiCCMKKHL_VPT ,DS-LAQF&SIII-Explain the Pradhana Karma of Anuvasana BastiCCMKKHL_&PPT ,DS-LAQF&SIII-Explain the Pradhana Karma of Anuvasana Basti comprising of steps of administration, retention time, Apratyagamana of Sncha, Samyak Yoga, Ayoga and AtiyogaCCMKKHL&PPT ,CBLS-LAQF&SIII-Explain the Paschat karma of Anuvasana Basti comprising of diet and regimen after Anuvasana basti, Vyapat and ChikitsaCCMKKHL&PPT ,CBL,PS-LAQF&SIII-Describe the indications and contra indications of Niruha BastiCKMKKL_&PPT ,L_VCS-LAQF&SIII-Explain the Purva Karma of Niruha BastiCCMKKHL&PPT ,L_VCS-LAQF&SIII-Explain the Pradhana Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagamana of Niruha Dravya, Samyak Yoga, Ayoga and Atiyoga and Chikitsa of Ayoga and AtiyogaCCMKKHL&PPT ,L_VCS-LAQF&SIII-Explain the Paschat Karma of Niruha Basti comprising of the steps of administration, retention time, Apratyagam

CO1, CO3	Explain the mode of action of Niruha Basti and Anuvasana Basti	CC	MK	КН	L_VC,L &PPT	PRN	F&S	III	-	LH
CO2, CO3, CO6	Describe the ingredients, method of preparation and clinical application of Madhutailika Basti, Vaitarana Basti, Mustadi Yapana Basti, Ksheera Basti, Lekhana Basti, Eranda mooladi Basti, Pippalyadi Anuvasana Basti, Madhuyashtyadi Anuvasana Basti	СК	МК	SH	L&PPT ,BL	S-LAQ	F&S	Ш	-	LH
CO2, CO3, CO6	Analyse the principles of selection of Niruha Basti in Gridhrasi, Amavata and Anuvasana basti in Kateegraha	CAN	MK	KH	CBL,PB L	PRN	F	III	-	LH
CO2, CO7	Identify and compare traditional and conventional Basti Yantra, their components and applications	CAN	МК	SH	KL	RK,PP- Practical	F&S	III	-	NLHP8.1
CO2	Apply to calculate and customize the Matra of Niruha Basti and Anuvasana Basti according to age.	CAP	МК	КН	DIS	M-CHT	F&S	III	-	NLHT8.1
CO2	Enlist and identify Anuvasana and Anuvasanopaga, Asthapana and Asthapanopaga Dravya	СК	МК	KH	DG,L& PPT ,FV	P-ID	F&S	III	V-DG	NLHT8.2
CO3	Identify indications and contraindications of Anuvasana Basti	СК	МК	KH	PBL,CB L	PRN	F&S	III	-	NLHT8.3
CO5, CO8	Demonstrate Purva Karma of Anuvasana Basti	PSY- GUD	МК	SH	D	DOPS,OSP E	F&S	III	-	NLHP8.2
CO4, CO5	Demonstrate Pradhana Karma of Anuvasana Basti	PSY- GUD	МК	SH	D,KL	OSPE,DOP S	F&S	III	-	NLHP8.3
CO4, CO5, CO6	Demonstrate Paschat Karma of Anuvasana Basti	PSY- GUD	МК	KH	D	DOPS,CBA ,OSPE	F&S	III	-	NLHP8.4

CO3	Identify the therapeutic benefits of Niruha Basti	СК	МК	КН	CBL,DI S	PRN	F&S	III	-	NLHT8.4
CO1, CO3	Identify indications and contraindications for Niruha Basti	СК	МК	KH	FC,CBL	CL-PR	F&S	III	-	NLHT8.5
CO5, CO8	Demonstrate Purva Karma of Niruha Basti	PSY- GUD	МК	КН	DIS	OSPE,DOP S	F&S	III	-	NLHP8.5
CO4, CO5	Demonstrate Pradhana Karma of Niruha Basti	PSY- GUD	МК	SH	D	DOPS	F&S	III	-	NLHP8.6
CO4, CO5, CO6	Demonstrate Paschat Karma of Niruha Basti	PSY- GUD	MK	KH	D	OSPE,SBA, DOPS,PP- Practical	F&S	III	-	NLHP8.7
CO1, CO3	Analyse Karmukata of Niruha Basti and Anuvasana Basti	CAN	MK	КН	L_VC,T UT,L& GD	S-LAQ	F&S	III	-	NLHT8.6
CO2	Demonstrate the preparation , indications and application of Basti formulations in clinical scenario	PSY- GUD	МК	SH	D,CBL	P- PRF,DOAP	F&S	III	-	NLHP8.8
CO3	Analyse the role of Basti in Gridhrasi, Amavata and Kateegraha	CAN	МК	КН	CBL,L &GD	P- CASE,CBA	F&S	III	-	NLHT8.7
CO2, CO5	Explain the preparation of Basti Dravya	CC	МК	КН	IBL,L_ VC	PRN,S- LAQ	F&S	III	-	LH
CO1	Describe the importance of Basti	СК	MK	K	L&PPT	S-LAQ	F&S	III	-	LH
CO1	Describe Niruha and Anuvasana Basti Matra according to age	СК	МК	K	L&GD	S-LAQ,VV- Viva	F&S	III	-	LH
Non L	ecture Hour Theory									

S.No	Name of Activity	Description of Theory Activity
NLHT 8.1	Niruha and Anuvasana Basti Matra	Discussion In this activity, students discuss and prepare a chart outlining standard dosages for Niruha and Anuvasana Basti based on age. The facilitator introduces the importance of dosage customization in Ayurvedic practice. Students are divided into small groups to analyze age-specific dosages, calculating the appropriate Matra for each type of Basti. Each group presents their findings, explaining their reasoning and considerations. After presentations, the class engages in a discussion, allowing for questions and insights. The session concludes with a reflection on the importance of dosage customization in clinical practice.
NLHT 8.2	Anuvasana and Anuvasanopaga, Asthapana and Asthapanopaga Dravya	Field visit In this activity, students visit a herbal garden or museum to identify Anuvasana, Anuvasanopaga, Asthapana, and Asthapanopaga Dravya. A guided tour by an expert provides insights into the dravyas. Students explore and analyze the properties of each Dravya, including Rasa, Guna, Veerya, and Vipaka. They document their observations and complete a worksheet detailing each substance's characteristics and uses. Groups then present their findings to the class, highlighting one or two (Madanaphala and Satahwa)identified Dravya and discuss their significance in Basti therapy.
NLHT 8.3	Indications and contra indications of Anuvasana Basti	Interactive learning and case discussion Students analyze the indications and contraindications of Anuvasana Basti through case discussions. The session begins with an overview of Anuvasana Basti's purpose and benefits. Students are divided into groups, each receiving a case study with patient details. Groups identify indications and contraindications based on the case, then present their findings to the class. After each presentation, a discussion facilitates further insights. The activity concludes with a reflection session on the clinical applications of Anuvasana Basti and the importance of patient assessment in Ayurvedic practice.
NLHT 8.4	Benefits of Niruha Basti	Case Based Learning In this activity, students discuss cases who have undergone Basti therapy. Each group reviews symptoms before and after treatment, assessing changes and therapeutic benefits. The activity

		promotes critical thinking as students identify patterns and outcomes. The instructor summarizes key findings, addresses common themes, and encourages deeper analysis of Basti's mechanisms and individualized treatment plans.	
NLHT 8.5	Indications and contra indications of Niruha Basti	Case Based Learning In this Niruha Basti activity, students engage in case discussions to analyze its indications and contraindications. The instructor explains Niruha Basti's benefits for detoxification and treating Vata- related disorders. Students are divided into small groups, each reviewing a case study card detailing patient symptoms and health history. They identify indications and contraindications for Niruha Basti based on the case. After discussions, each group presents their case, followed by a class discussion to address questions and insights. The session concludes with a reflection on the clinical applications of Niruha Basti and the importance of thorough patient assessment. This activity promotes critical thinking, teamwork, and practical knowledge.	
NLHT 8.6	Niruha Basti and Anuvasana Basti Karmukata	Group Discussion The session begins with a brief lecture on Anuvasana Basti and Niruha Basti, explaining their roles in detoxification and nourishment. Students then work in groups to analyze how each type functions and its therapeutic effects. A class discussion follows, comparing their modes of action and addressing practical challenges. The session concludes with a summary of key insights, reinforcing the clinical relevance of Basti therapy in Panchakarma	
NLHT 8.7	Principles of practice of Basti	Discussion Students analyze Basti therapy for Gridhrasi, Amavata, and Kateegraha . After a brief discussion on each condition's pathophysiology, groups explore suitable Basti formulations. Each group presents their findings, explaining how formulation selection aligns with the Sameekshya Bhava.	
Non Lecture Hour Practical			
S.No	Name of Practical	Description of Practical Activity	

NLHP 8.1	Demonstration of Basti Yantra	Kinaesthetic learning This demonstration introduces students to the Basti Yantra, covering both traditional and modern versions. Students learn about its components and applications. The activity involves preparing materials, filling the Basti Putaka, lubricating the nozzle, positioning the mannequin, inserting the nozzle, administering the liquid, and ensuring proper aftercare. Students engage with questions throughout to deepen their understanding. The session concludes by emphasizing the evolution of Basti Yantra and its significance in both Ayurvedic therapies and modern healthcare.
NLHP 8.2	Purva Karma of Anuvasana Basti	Demonstration The demonstration of Purva Karma for Anuvasana Basti begins with Sambhara Sangraha. Atura Pariksha is conducted to assess the patient's fitness, followed by an explanation of the Anuvasana Basti kala(time of administration). Abhyanga and Swedana are performed to prepare the body, enhancing absorption. The dose fixation is calculated based on individual needs, and dietary recommendations are provided to optimize the therapeutic effects before administering the Basti.
NLHP 8.3	Pradhana Karma of Anuvasana Basti	Kinaesthetic learning In this activity, students practice administering Anuvasana Basti on a model or simulated patient. They observe and note the patient's response, including any Vega and monitor the evacuation of the Basti Dravya. Students learn to identify Ayoga, Samyakyoga, and Atiyoga Lakshana. They also track the Anuvasana Pratyagamana Kala and apply interventions for Apratyagamana, Ayoga, or Atiyoga as needed. This hands-on experience helps students integrate theoretical knowledge with practical skills for effective Anuvasana Basti administration.
NLHP 8.4	Paschat Karma of Anuvasana Basti	Demonstration In the Paschat Karma demonstration for Anuvasana Basti, the focus is on post-treatment care and dietary recommendations. After treatment, the patient's buttocks are lightly patted, and they are encouraged to relax in a supine position with a raised foot end and a pillow under the head for comfort. Patients remain in this position for a specified duration and are advised to avoid activities or foods that could hinder recovery. The instructor discusses potential complications and management strategies.
		This demonstration highlights the importance of Paschat Karma in optimizing the therapeutic benefits of Anuvasana Basti.
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NLHP 8.5	Purva Karma of Niruha Basti	Demonstration The instructor guides students through the preparatory steps for Niruha . The session starts with a discussion on Sambhara Sangraha, covering required materials, including Kashaya, Kalka and food after Basti. Atura Pariksha is emphasized to assess the patient's fitness. Students learn about Niruha Basti Kala for optimal timing and the preparation of the patient with Abhyanga and Swedana. Dietary considerations highlight the need for an empty stomach. Dose Fixation is covered to determine the correct volume of Basti dravya. Finally, students learn about Basti Samyojana Vidhi and how to prepare the Basti Dravya. This demonstration ensures students understand the Purva Karma process in Niruha Basti.
NLHP 8.6	Pradhana Karma of Niruha Basti	Kinaesthetic learning Students actively participate in the positioning of the patient and administration of the Basti using sterile Basti Yantra. They monitor the Basti Daata Dosha , ensure proper dosage, observe the evacuation process for signs of Vega, and note the Niruha Pratyagamana Kala. In case of Apratyagamana, students apply necessary measures for evacuation of Basti Dravya. They also assess Ayoga, Samyakyoga, and Atiyoga Lakshana, practicing interventions based on the therapy's effectiveness. This hands-on approach ensures students understand the key steps in performing Niruha Basti safely and effectively.
NLHP 8.7	Paschat Karma of Niruha Basti	Group Discussion Students engage in group discussions on post-treatment care, diet, and complications of Niruha. Groups explore:
		<ul> <li>Dietary Guidelines: Emphasizing light, digestible foods.</li> <li>Parihara Vishaya: Avoiding strenuous activities, cold exposure, and incompatible foods.</li> </ul>

		• Vyapat & Chikitsa: Identifying complications and their management.								
NLHP 8.8       Clinical application of Basti formulations       Case Based Learning         Students analyze clinical cases of Gridhrasi, Amavata, and Kateegraha to determine the a Basti therapy. Each group receives a patient scenario, assesses Dosha involvement, and s suitable Basti formulation. They justify their choices based on pathophysiology, formulat properties, and expected therapeutic effects. After discussion, groups present their treatm including preparation, administration, and post-care protocols. This interactive approach clinical reasoning and practical application of Basti therapy. The discussion should focus on the following basti formulations							nine the ap ent, and sel , formulation eir treatme approach er	propriate lects a on nt plans, nhances		
		<ul> <li>Madhutailika Basti</li> <li>Vaitarana Basti</li> <li>Mustadi Yapana Basti</li> <li>Ksheera Basti</li> <li>Lekhana Basti</li> <li>Eranda mooladi Basti</li> <li>Pippalyadi Anuvasana Basti</li> <li>Madhuyashtyadi Anuvasana Basti</li> </ul>								
Topic 9	9 Nasya Karma (LH :10 NLHT: 6 NLHP: 12)					~				
A3	B3	C3	D3	E3	F3	G3	H3	13	K3	L3
CO1	Define Nasya Karma and describe the Indications, contraindications and classification of Nasya based on Karm	a CK	MK	K	L&PPT ,REC	S-LAQ,M- CHT	F&S	III	-	LH
CO2 Enlist Shirovirechana Gana and describe currently practiced Shirovirechana Dravya			NK	K	L&PPT ,D	S-LAQ,QZ	F	III	V-DG	LH
CO2, CO4, CO5	Explain Purva Karma of Nasya comprising of Sambhara Sangraha, Atura Pariksha, Oushadha Nirnaya, Nasya Kala and Atura sidhata	CC	МК	КН	L&PPT	S-LAQ	F&S	III	-	LH

CO2, CO4, CO5	Infer Pradhana Karma of Nasya including administration of Nasya Dravya, Samyakyoga, Ayoga and Atiyoga Lakshana and Chikitsa	CC	МК	КН	L&PPT ,REC	S-LAQ	F&S	III	-	LH
CO4	Explain Paschat Karma of Nasya comprising of Padatala Hastadi Mardana, Dhumapana, Kavala, Diet, Parihara Vishaya, Nasya Vyapat and Chikitsa	CC	MK	КН	REC,L &PPT	S-LAQ	F&S	III	-	LH
CO2, CO3	Distinguish the ingredients and clinical application of Nasya formulations - Anutaila, Ksheerabala Taila, Karpasastyadi Taila, Shadbindu Taila, Kumkumadi Taila, Brahmi Ghrita, Rasnadi Churna and Tulasi Swarasa	CC	МК	КН	L&GD, L&PPT	S-LAQ	F&S	III	-	LH
CO1, CO3	Comprehend the mode of action of Nasya Karma	CC	МК	KH	L_VC,L &PPT	PRN,S- LAQ	F&S	III	-	LH
CO1, CO3	Explain and analyze the principles and practice of Nasya Karma in Pakshaghata, Apabahuka, Manyastambha and Ardita.	CAN	МК	КН	L&GD, PBL,CB L,L&PP T	S- LAQ,PRN	F&S	Ш	-	LH
CO2	Enlist and identify Shirovirechana Gana Dravya and describe their properties	CAP	МК	KH	DG,FV, L&PPT	P-ID	F&S	III	V-DG	NLHT9.1
CO3	Prepare Chart for Purva Karma of Nasya	PSY- GUD	МК	SH	LS,TBL ,DIS	CL-PR,PR N,M-CHT	F	III	-	NLHT9.2
CO4	Illustrate Pradhana Karma of Nasya	CAN	МК	KH	L&GD, FC,PER	PRN,CL- PR	F	III	-	NLHT9.3
CO5	Demonstrate Purva Karma of Nasya	PSY- GUD	MK	SH	D-M,D, KL,PT	OSPE,DOP S	F&S	III	-	NLHP9.1
CO5	Demonstrate Pradhana Karma of Nasya	PSY- GUD	МК	SH	KL,D,P T,SIM	P-RP,OSPE ,DOPS	F&S	III	-	NLHP9.2

CO5	Demonstrate Paschat Karma of Nasya		PSY- GUD	МК	SH	D,KL	DOPS,OSP E,P-PRF	F&S	III	-	NLHP9.3	
CO1, CO3	Analyze	the principles of selection of formulations for Nasy	ya	CAN	MK	KH	PBL,LS ,CBL	PRN,SBA	F&S	III	-	NLHP9.4
CO5	Demons	strate Nasya Karma in Pakshaghata		PSY- GUD	MK	SH	CBL	СВА	F&S	III	-	NLHP9.5
CO5	Demons	strate Nasya Karma in Apabahuka and Manyastamb	oha,	PSY- GUD	MK	SH	D,CBL	СВА	F&S	III	-	NLHP9.6
CO5	Demonstrate Nasya karma in Ardita.		PSY- GUD	MK	SH	CBL,D	СВА	F&S	III	-	NLHP9.7	
CO1, CO3	CO1, Discuss the pharmacodynamics of Nasya Karma			CC	DK	KH	LS,PER ,DIS	O-QZ,T-O BT,M-POS	F	III	-	NLHT9.4
Non L	ecture H	lour Theory			-							
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT	9.1	Identification of Shirovirechana Gana	Field visit Students are divided into teams to explore the classifications of Shirovirechana Gana. Each group analyzes assigned formulations, discussing attributes like Rasa, Guna, Virya, Vipaka, and Prabhava. Using charts or digital tools, they organize their findings for clarity. They also observe Shirovirechana and Shirovirechanopaga drugs in the herbal garden or Dravyaguna museum to enhance practical knowledge.									
NLHT 9.2       Preparation of Chart for Purva Karma of Nasya       Team         Stude       of Na         medic       cover			Based Leants are division by a. One g ated oils, t ng hygien	rrning ided into g roup prepa ools, and s e, position	roups of 2 res a chec upportive ing, and ol	-4 to create klist for Sa items. And btaining co	e a comprehens mbhara Sangra other group cre nsent. This act	sive check aha, detail ates a che ivity enha	list for ing nec cklist fo nces un	the Purva l essary mat or Patient I derstandin	Karma phase erials like Preparation, g of Nasya's	

		preparatory processes while fostering teamwork and critical thinking skills.
NLHT 9.3	Discussion on Pradhana Karma of Nasya	Class presentation In this class presentation activity on the Pradhana Karma of Nasya, students are divided into groups, with one student from each group responsible for presenting. Each group focuses on different aspects of the Pradhana Karma phase, including techniques for instilling medication, patient positioning, and therapeutic benefits. After the presentations, the instructor summarizes key points, reinforcing Nasya's significance in Ayurvedic practice and its role in treating head and neck conditions. This collaborative approach enhances understanding and encourages student engagement.
NLHT 9.4	Nasya Karmukata	Discussion Students are introduced to the importance of Nasya Karma. They then break into small groups to discuss how nasal drugs affect doshas by engaging olfactory receptors and influencing brain functions, focusing on conditions above the clavicle like headaches and sinus issues. Each group summarizes key points, emphasizing insights into Nasya Karma's therapeutic potential and its clinical implications. This activity deepens understanding of Nasya Karma in Ayurvedic medicine.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 9.1	Demonstration of Purva Karma of Nasya	Demonstration The instructor guides students through the essential preparations for Nasya Karma, demonstrating on a volunteer or mannequin. The process begins with Sambhara Sangraha, collecting all necessary materials, including medicated oils and tools. The instructor emphasizes assessing the patient's fitness for Nasya Karma and preparing the patient by performing Mukha Abhyanga and Swedana to enhance therapeutic effectiveness. Students are also instructed on selecting appropriate Nasya Oushadha Dravya based on the patient's Dosha and health conditions. This approach ensures that students

		understand the critical preparatory steps for a successful Nasya therapy session.
NLHP 9.2	Demonstration of Pradhana Karma of Nasya in a patient	Demonstration The instructor guides students through the essential steps of Nasya Karma, focusing on the Pradhana Karma phase. The session begins with proper patient positioning in a supine position with the head tilted back and limbs apart. The instructor demonstrates the administration of Nasya Dravya, instilling it in a continuous stream into each nostril while closing the other. Students learn effective management techniques, including instructing the patient to avoid movements, speech, or disturbances. The instructor covers Samyak, Ayoga, and Atiyoga Lakshana, helping students recognize signs of effective treatment and complications. Strategies for managing Ayoga and Atiyoga are also discussed, equipping students with practical skills for Nasya Karma in clinical practice
NLHP 9.3	Demonstration of Paschat Karma of Nasya	Demonstration The instructor demonstrates the Paschat Karma phase of Nasya in a volunteer or Mannequin . After the administration of Nasya Dravya, gentle massage of head, cheeks, and neck to enhance circulation and relieve tension are shown. Additionally, practices such as Dhumapana and Kavala are demonstrated. Dietary restrictions and lifestyle modifications to be advised are also discussed. This comprehensive approach in Paschat Karma is crucial for optimizing the outcomes of Nasya therapy.
NLHP 9.4	Principles of selection of formulations for Nasya	PBL / Discussion Students analyze the selection criteria for Nasya Karma formulations, focusing on factors like Dosha, Rogibala, Vaidhi Avastha, Vayah, and Agnibala, as well as the Guna and Kalpana of medicinal substances. The session covers adjusting Matra based on patient characteristics and health status. Students examine specific formulations such as Anu Taila, Ksheerabala Taila, Karpasastyadi Taila, Shadbindu Taila, Kumkumadi Taila, Brahmi Ghrita, Rasnadi Churna, and Tulasi Swarasa. The discussion enhances their understanding of personalized Ayurvedic treatments and clinical application.
NLHP 9.5	Demonstration of Nasya in a Pakshaghata patient	Demonstration The instructor outlines a stepwise procedure starting with material collection, including medicated oils

		or powders, cotton pads, and towels. The patient is positioned comfortably, supine with the head tilted back, and informed consent is obtained. The Nasya dravya is warmed to a lukewarm temperature. During application, drops are administered into each nostril, with the patient instructed to inhale gently. In the Paschat Karma phase, post-care instructions are given.									
NLHP 9	9.6 Demonstration of Nasya in Apabahuka and Manyastambha,	Bedside case discussion Same as for Pakshaghata and Ardita									
NLHP 9	9.7 Demonstration of Nasya in an Ardita patient	Bed side case discussion The instructor discusses a case of Ardita at the bedside. First, the patient's condition is assessed, focusing on symptoms and the underlying Samprapti. The discussion then covers the selection of appropriate Nasya, including suitable Nasya dravya and Matra. Participants evaluate which formulations best address the dosha imbalances and symptoms. This approach enhances understanding of Nasya Karma's clinical application, helping formulate effective treatment strategies based on Ayurvedic principles.									
<b>Topic</b>	10 Emergency management and Research updates in	n Panch	akarma a	and Upak	arma (L	H :2 NLH	T: 2 NLHP:	5)			
A3	B3		C3	D3	E3	F3	G3	H3	I3	К3	L3
CO6, CO7	Describe common causes and symptoms of Water and Ele imbalance, Hematemesis, Epistaxis and their management	ctrolyte	СК	DK	K	L&PPT	S-LAQ	F&S	III	-	LH
CO7	CO7 Explain and Integrate the recent advancements in Panchakarma		CC	DK	КН	L&PPT	QZ ,DEB	F&S	III	-	LH
CO7 Identify the signs and symptoms of Water and Electrolyte imbalance, Haematemesis, and Epistaxis, assess the severity, and select appropriate emergency interventions		CAN	NK	KH	GBL,C BL,RP	SBA, C- VC,QZ	F	III	H-SH	NLHT10.1	

CO7	Evalua Snehan	te recent advancements and scientific evidence supp a, Swedana and Upakarma	orting	CE	DK	KH	LS,IBL, ML,DIS	M-CHT,CO M,DEB	S	III	-	NLHP10.1
CO3, CO7	Evaluat Vaman	e recent advancements and scientific evidence suppo a Karma	orting	CE	DK	KH	W,LS,D IS	CL- PR,DEB	F	III	-	NLHP10.2
CO3, CO7	<ul> <li>3, Evaluate recent advancements and scientific evidence supporting</li> <li>Virechana Karma</li> </ul>		CE	DK	KH	GBL,PL ,LS,PE R,DIS	DEB,CL- PR	S	III	-	NLHP10.3	
CO3, CO7	<ul> <li>CO3, Evaluate recent advancements and scientific evidence supporting</li> <li>CO7 Basti Karma</li> </ul>		orting	CE	DK	KH	GBL,E DU,TB L,LS	QZ ,CL- PR,DEB	S	III	-	NLHP10.4
CO3, CO7	CO3, Evaluate recent advancements and scientific evidence supporting CO7 Nasya Karma		orting	CE	DK	KH	BL,LS, PL,DIS	PRN,DEB, M-POS	S	III	-	NLHP10.5
Non L	ecture H	Iour Theory										
S.No		Name of Activity	Description of Theory Activity									
NLHT	10.1	Emergency Management of Water and Electrolyte imbalance,Haematemesis and Epistaxis	Diagnose and Treat Students identify and manage signs and symptoms of water and electrolyte imbalances, hematemesis, and epistaxis. Each participant matches symptoms from cards to corresponding imbalances and selects appropriate management strategies from provided cards. This hands-on approach improves diagnostic skills and equips students with practical treatment strategies for these critical conditions.									
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Descr	ription of	Practical	Activity						
NLHP	10.1	Review of research updates on Snehana, Swedana and Upakarma	Panchakarma Research Review Participants analyze recent research on Snehana, Swedana and Upakrma in small groups, each assigned a specific paper or article. Groups summarize key findings and discuss their impact on				each					

		clinical practice or future research. This collaborative effort deepens their understanding of Panchakarma, improving their ability to critically evaluate research and apply insights to enhance Snehana, Swedana and Upakarma in clinical settings.
NLHP 10.2	Review of research updates on Vamana Karma	Group Discussion Participants engage in a comprehensive analysis of recent research updates related to Vamana Karma. Divided into small groups, each team is assigned a specific research paper or article that focuses on various aspects of Vamana Karma. Groups review their assigned material, summarize key findings, and discuss how these insights influence clinical practice or guide future research initiatives.
NLHP 10.3	Review of research updates on Virechana Karma	Game based learning Students are divided into teams and assigned a research paper on topics like efficacy, safety, or clinical applications. The game has three rounds: Abstract Scramble, where teams reorder a mixed-up research abstract; Fact vs. Fiction, where they defend or challenge study claims; and Peer Review Panel, where teams act as journal reviewers, identifying flaws and suggesting improvements. Points are awarded for analytical accuracy. This interactive format promotes active learning, teamwork, and real-world research evaluation skills.
NLHP 10.4	Review of research updates on Basti Karma	Library session Students engage in self-directed learning by exploring Ayurvedic texts like Charaka Samhita, Sushruta Samhita, and Ashtanga Hridaya. They focus on the etymology, types, indications, contraindications, and procedural aspects of Basti Karma, while also reviewing modern research. Activities such as guided reading, group discussions, literature reviews, and case analysis enhance engagement. Faculty guide students with references and prompts, encouraging critical evaluation of therapeutic mechanisms, formulations, and clinical applications, fostering independent research and evidence-based practice.
NLHP 10.5	Review of Research updates on Nasya Karma	Peer learning Students analyze recent studies in groups, focusing on aspects like pharmacology, clinical efficacy,

	and safety. They engage in discussions using methods such as journal clubs, jigsaw learning, fishbowl discussions, and case-based approaches to critically evaluate research and compare Ayurvedic concepts with modern findings. Structured frameworks like PICO and CONSORT guide their analysis,
	while peer feedback and group reflections enhance understanding. Through application tasks and
	documentation, students synthesize key insights, build a research repository, and strengthen their
	ability to integrate evidence-based knowledge with traditional wisdom

Activity No*	CO No	Activity details
1.1	CO1,CO3	Utility of Raktamokshana in diseases
1.2	C01,C03	Project work on Rutu Shodhana
2.1	CO1	Importance of Snehana Karma
2.2	CO2	Selection of Bahya Sneha
2.3	CO2	Selection of Abhyantara Sneha
2.4	CO7	Fat metabolism
2.5	CO7	Snehana Pharmacodynamics
2.6	CO3,CO4	Udwartana and its benefits.
2.7	CO3,CO4	Diet and Parihara Vishaya during Snehapana
2.8	CO3,CO4	Discussion on Accha sneha and Pravicharana sneha.
2.9	CO3,CO4,CO5	Abhyanga in Swastha and Atura
2.10	CO3,CO4,CO5	Massaging Techniques
2.11	CO2,CO3,CO5	Clinical application of Murdhni Taila
3.1	CO4,CO7	Mechanism of sweating
3.2	C01,C03	Indications of Sweda Karma
3.3	C01,C03	Contraindications of Sweda Karma
4.1	C01	Interactive learning on Sankara Sweda
	l	

4.2	CO1	Compilation of drugs used for Thalam and Thalapothichil
4.3	CO1	Interactive learning on regional variations in practice of Pizhichil
4.4	C01,C03	Utilty of Thalapothichil
4.5	C01,C04	Interactive discussion on the procedure of Takradhara
4.6	C01,C03	Variations in practice of Takradhara
4.7	CO1,CO3	Clinical utility of Dhanyamla
5.1	C01,C07	Discussion on Integration of Physiotherapy and Ayurvedic approaches
6.1	C01,C03	Indications and contraindications of Vamana Karma
6.2	CO2	Identification of Vamana and Vamanopaga Dravya
6.3	CO3	Preparation of disease wise Vamana Purva Karma chart
6.4	CO4	Interactive discussion on Paschat Karma
6.5	CO3	Peer learning on the concept of Sadyo Vamana
6.6	CO4,CO8	Roleplay on patient communication for Vamana Karma
7.1	CO1	Indications and contraindications of Virechana Karma
7.2	CO3	Preparation of a disease wise Virechana Purva Karma chart
7.3	CO2	Enlist and identify Virechana and Virechanopaga Dravya
7.4	CO3	Compilation on Nitya Virechana and Koshta Shodhana
7.5	CO1,CO3	Analysis of selection of formulations for Virechana
8.1	CO3	Benefits of Niruha Basti

8.2	CO2	Niruha and Anuvasana Basti Matra
8.3	C01,C03	Niruha Basti and Anuvasana Basti Karmukata
8.4	CO2	Anuvasana and Anuvasanopaga, Asthapana and Asthapanopaga Dravya
8.5	CO3	Indications and contra indications of Anuvasana Basti
8.6	C01,C03	Indications and contra indications of Niruha Basti
8.7	CO3	Principles of practice of Basti
9.1	CO2	Identification of Shirovirechana Gana
9.2	CO3	Preparation of Chart for Purva Karma of Nasya
9.3	CO4	Discussion on Pradhana Karma of Nasya
9.4	C01,C03	Nasya Karmukata
10.1	CO7	Emergency Management of Water and Electrolyte imbalance, Haematemesis and Epistaxis

(*Refer table 1	3 of similar	activity number)
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Practica l No*	CO No	Practical Activity details
1.1	C01,C03	Koshta and Agni Pariksha in Panchakarma
1.2	CO1	Panchakarma theatre requirements
1.3	C01,C07	Advancement in instrumentation in Panchakarma and Upakarma
2.1	CO3,CO4,CO5	Procedure of Udwartana.
2.2	CO3,CO4,CO5	Procedure of Udgharshana and Utsadana.
2.3	CO3,CO4	Shodhanartha Snehapana in Kushta and Vatarakta
2.4	CO3,CO4	Shodhanartha Snehapana procedure.
2.5	CO3,CO4	Shamanartha Snehapana procedure.
2.6	CO3,CO4	Shamanartha Snehapana in Kushta and Vatarakta.
2.7	CO3,CO4	Sneha Vyapat and Chikitsa.
2.8	CO3,CO4	Brumhana Snehapana and Sadya Snehana
2.9	CO3,CO4,CO5	Shiro Abhyanga Procedure
2.10	CO3,CO4,CO5	Procedure of Shirodhara with Taila.
2.11	CO3,CO4	Shiropichu demonstration.
2.12	CO3,CO4	Procedure of Abhyanga
2.13	CO3,CO4	Shirobasti demonstration
2.14	CO3,CO4	Sthanika Basti demonstration.

3.1	CO3,CO4,CO5	Nadi Sweda procedure.
3.2	CO3,CO4,CO5	Tapa Sweda procedure.
3.3	CO3,CO4,CO5	Upanaha Sweda procedure
3.4	CO3,CO4,CO5	Parisheka Sweda procedure.
3.5	CO3,CO4,CO5	Avagaha Sweda procedure.
3.6	CO3,CO4,CO5	Clinical application of Sweda
4.1	CO3	Procedure of Sankara Sweda
4.2	CO3	Demonstration of procedure of Ksheeradhooma
4.3	CO3	Demonstration of the procedure of Pizhichil
4.4	CO3	Demonstration of Dhanyamladhara procedure
4.5	CO3,CO5	Demonstration of Takradhara procedure
4.6	CO3,CO5	Demonstration of Thalam and Thalapothichil procedure
4.7	CO3,CO4,CO5	Demonstration of Annalepa procedure
5.1	C07	Procedure of Superficial heating modalities and Deep Heating Modalities.
5.2	C07	Procedure of Isometric and Isotonic Exercise
5.3	CO7	Procedure of Interferential Therapy (IFT), Transcutaneous Electrical Nerve Stimulation (TENS) and Muscle Stimulation Therapy (MST)
5.4	C07	Procedure of Manual therapy
6.1	CO5	Demonstration of Vamana Purva Karma in a patient
6.2	CO5	Pradhana Karma of Vamana in a patient
6.3	CO5	Demonstration of Paschat Karma of Vamana

6.4	CO5	Demonstration of Sadyo Vamana in a patient
6.5	CO5	Demonstration of Vamana Karma in a Shwasa patient
6.6	CO5	Demonstration of Vamana Karma in an Amlapitta patient
6.7	CO5	Demonstration of Vamana Karma in a Kushta patient
7.1	CO5	Demonstration of Paschat Karma of Virechana
7.2	CO5	Demonstration of Virechana in a Vatarakta patient
7.3	CO5	Demonstration of Virechana in a Pakshaghata patient
7.4	CO5	Demonstration of Virechana Purva Karma
7.5	CO5	Demonstration of Pradhana karma of Virechana
7.6	CO5	Demonstration of Virechana in a Prameha patient
7.7	CO5	Demonstration of Virechana in a Kushta patient
8.1	CO2,CO7	Demonstration of Basti Yantra
8.2	CO5,CO8	Purva Karma of Anuvasana Basti
8.3	CO4,CO5	Pradhana Karma of Anuvasana Basti
8.4	CO4,CO5,CO6	Paschat Karma of Anuvasana Basti
8.5	CO5,CO8	Purva Karma of Niruha Basti
8.6	CO4,CO5	Pradhana Karma of Niruha Basti
8.7	CO4,CO5,CO6	Paschat Karma of Niruha Basti
8.8	CO2	Clinical application of Basti formulations
9.1	CO5	Demonstration of Paschat Karma of Nasya
	1	

9.2	CO5	Demonstration of Nasya in a Pakshaghata patient
9.3	CO5	Demonstration of Nasya in Apabahuka and Manyastambha,
9.4	CO5	Demonstration of Purva Karma of Nasya
9.5	CO5	Demonstration of Nasya in an Ardita patient
9.6	CO5	Demonstration of Pradhana Karma of Nasya in a patient
9.7	CO1,CO3	Principles of selection of formulations for Nasya
10.1	CO7	Review of research updates on Snehana, Swedana and Upakarma
10.2	CO3,CO7	Review of research updates on Vamana Karma
10.3	CO3,CO7	Review of research updates on Virechana Karma
10.4	CO3,CO7	Review of research updates on Basti Karma
10.5	CO3,CO7	Review of Research updates on Nasya Karma

Subject	Papers	Theory	ry Practical/Clinical Assessment (200)			Grand		
Code			Practical	Viva	Elective	IA	Sub Total	Total
AyUG-PK	1	100	100	70	-	30	200	300

## 6 A : Number of Papers and Marks Distribution

#### 6 B : Scheme of Assessment (Formative and Summative)

PROFESSIONAL	FOR	SUMMATIVE		
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	3 PA & First TT	3 PA & Second TT	3 PA	UE**

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

#### 6 C : Calculation Method for Internal assessment Marks

	PERIODICAL ASSESSMENT*					TERM TEST**	TEI ASSESS	RM SMENT
	A 2	В	С	D	E	F	G	Н
TERM	1 (15 Marks)	2 (15 Marks)	3 (15 Marks)	Average (A+B+C/3 )	Converted to 30 Marks (D/15*30)	Term Test (Marks converted to 30)	Sub Total _/60 Marks	Term Assessmen t (/30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		Е
Final IA	Average of Three Term Assessment Marks as Shown in 'H' Column.							
	Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks.							

## 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
б.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

## **Topics for Periodic Assessments**

РА	Paper 1
PA 1	Topic 1.1 to 1.6
PA 2	Topic 2.1 to 2.6
PA 3	Topic 3.1 to 3.6
Term Test 1	Entire Syllabus of Term 1
PA 4	Topic 4.1 to 4.7
PA 5	Topic 5.1 to 6.5
PA 6	Topic 6.6 to 7.7
Term Test 2	Entire Syllabus of Term 2
PA 7	Topic 8.1 to 8.12
PA 8	Topic 8.13 to 9.8
PA 9	Topic 8.1 to 10.2

## III PROFESSIONAL BAMS EXAMINATIONS AyUG-PK PAPER-I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

# 6 F : Distribution of theory examination

Paper 1 (Panchakarma and Upakarma)					
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ
1	Fundamentals of Panchakarma	8	Yes	Yes	No
2	Snehana Karma	12	Yes	Yes	Yes
3	Swedana Karma	12	Yes	Yes	Yes
4	Special Procedures: Sankara Sweda, Ksheeradhooma, Pizhichil, Dhanyamladhara, Takradhara, Thalam and Thalapothichil and Annalepa	10	Yes	Yes	Yes
5	Physiotherapy	5	No	Yes	No
6	Vamana Karma	10	Yes	Yes	Yes
7	Virechana Karma	10	Yes	Yes	Yes
8	Basti Karma	18	Yes	Yes	Yes
9	Nasya Karma	10	Yes	Yes	Yes
10	Emergency management and Research updates in Panchakarma and Upakarma	5	No	Yes	No
Total Marks 100		100			

### 6 G : Instructions for UG Paper Setting & Blue print

- 1. All questions shall be compulsory.
- 2. Questions shall be drawn based on Table 6F, which provides the topic name, types of questions (MCQ(Multiple Choice Question), SAQ(Short Answer Question), LAQ(Long Answer Question)).
- 3. The marks assigned in Table 6F for each topic/group of topics shall be considered as the maximum allowable marks for that topic/group of topics.
- 4. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
- 5. Refer to Table 6F before setting the questions. Questions shall be framed only from topics where the type is marked as "YES", and avoided if marked as "NO".
- 6. Each 100-mark question paper shall contain:
  - 20 MCQs
  - 8 SAQs
  - 4 LAQs
- 7. MCQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 3.
  - Questions from the Nice to Know part of syllabus shall not exceed 2.
- 8. SAQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 1.
  - No questions shall be drawn from the Nice to Know part of syllabus.
  - SAQs shall assess understanding, application, and analysis, rather than simple recall.
- 9. LAQs:
  - All LAQs shall be drawn exclusively from the Must to Know part of the syllabus.
  - No questions shall be taken from the Desirable to Know or Nice to Know part of the syllabus.
  - Number of LAQs should not exceed one per topic unless maximum marks exceed 20 for the topic.
- 10. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
- 11. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

### 6 H : Distribution of Practical Exam

S.No	Heads	Marks
1	Short case with Panchakarma protocol writing	30
2	Procedure skill assessment (4 procedures on mannequins or simulated patients in OSPE format)	40
3	Viva (2 examiners: 35marks/each examiner)	70
4	Logbook (Activity record)	10
5	Practical/Clinical Record	20
6	Internal Assesment	30
Total Marks 2		200

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## Abbreviations

Dom	ain	T L Method		Level		Asse	Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
CC	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
САР	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	H-KC	Н КС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	H-PK	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	Н-КВ	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

	W	Workshops		C-INT	Conducting interview	
	GBL	Game-Based Learning		INT	Interactions	
	LS	Library Session		CR- RED	Critical reading papers	
	PL	Peer Learning		CR-W	Creativity Writing	
	RLE	Real-Life Experience		C-VC	Clinical video cases	
	PER	Presentations		SP	Simulated patients	
	D-M	Demonstration on Model		РМ	Patient management problems	
	РТ	Practical		СНК	Checklists	
	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
	CD	Case Diagnosis		DOPS	DOPS	
	LRI	Lab Report Interpretation		CWS	CWS	
	DA	Drug Analysis		RS	Rating scales	
	D	Demonstration		RK	Record keeping	
	D- BED	Demonstration Bedside		СОМ	Compilations	
	DL	Demonstration Lab		Portfol ios	Portfolios	
	DG	Demonstration Garden		Log book	Log book	
	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				CBA	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	

# COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



# **Research Methodology and Medical-statistics**

# (SUBJECT CODE : AyUG-RM)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



# NCISM III Professional Ayurvedacharya (BAMS) Subject Code : AyUG-RM

Research Methodology and Medical-statistics

# Summary

Total number of Teaching hours: 75					
Lecture (LH) - Theory					
Paper I	25	25	25(LH)		
Non-Lecture (NLHT)					
Paper I	50	50	50(NLH)		
Non-Lecture (NLHP)					
Paper I	0	0			

Examination (Papers & Mark Distribution)							
Item	Theory Component Marks	<b>Practical Component Marks</b>					
		Practical	Viva	Elective	IA		
Paper I	50	-	-	-	-		
Sub-Total	50		-				
Total marks	50						

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

# **PREFACE**

Research is a crucial component of scientific progress, and its inclusion in the undergraduate Ayurveda curriculum strengthens the foundation of evidence-based practice. Ayurveda, as a traditional system of medicine, requires systematic validation through research to align with contemporary healthcare needs. Introducing research methodology at the undergraduate level enables students to critically evaluate classical texts, explore integrative medicine, and develop scientific reasoning. This knowledge helps in hypothesis formulation, data analysis, and meaningful interpretation, ultimately enhancing the credibility of Ayurveda in the global healthcare system.

With the advancement of new Teaching-Learning (TL) methods, such as problem-based learning (PBL), experiential learning, digital tools, and artificial intelligence, students can actively engage with research concepts. Methods like flipped classrooms, case-based discussions, and hands-on practicals allow a deeper understanding of study designs, statistical tools, and critical appraisal techniques. The application of these techniques ensures accuracy and reliability in Ayurvedic research. Furthermore, learning about intellectual property rights (IPR), ethical considerations, and research reporting guidelines prepares students to contribute to academic publications, innovation, and policy-making in Ayurveda.

In the third professional year, research training plays a transformative role by bridging theoretical knowledge with clinical application. At this stage, students are exposed to clinical trials, literary research, preclinical studies, and statistical analysis, enabling them to integrate research findings into patient care. This phase prepares students for advanced clinical decision-making, postgraduate studies, and scientific contributions. By fostering analytical thinking and innovation, research education ensures that Ayurveda remains a dynamic and evolving system of medicine, blending ancient wisdom with modern scientific advancements for holistic and evidence-based healthcare.

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## **Course Code and Name of Course**

Course code	Name of Course
AyUG-RM	Research Methodology and Medical-statistics

## Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-RM At the end of the course AyUG-RM, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.
CO 1	Explain and utilize research methods and statistical concepts.	PO1,PO2
CO 2	Distinguish, analyse and apply research types. Recognize their application in ayurveda.	PO2,PO9
CO 3	Explore and utilize various databases and guidelines.	PO2,PO8
CO 4	Distinguish, analyse and apply statistical tests. Recognize their application in ayurveda.	PO2,PO9
CO 5	Apply ethical aspect in conducting quality research.	PO6,PO9

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Pape	er 1 (RM-MS)					
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l
1	Introduction to Research 1. Objectives 2. Need and Scope 3. Concept of Evidence-Based Medicine and	2	30	1	0	0
2	Integrative Medicine Historical developments in research	2		0	1	0
	<ol> <li>Describe historical development of Contemporary research.</li> <li>Identify evidences of research in ayurveda classical literature.</li> </ol>					
3	Research Types 1. Primary and Secondary 2. Basic, Applied and Translational 3. Qualitative, Quantitative and Mixed 4. Observational and Interventional 5. Descriptive and Analytical	2		2	2	0
4	Research Ethics <ol> <li>Need and significance</li> <li>Institutional Animal Ethics Committee         <ul> <li>(IAEC) and Institutional Human Ethics</li> <li>Committee (IHEC/IEC).</li> <li>Publications ethics</li> </ul> </li> </ol>	2		1	1	0
5	Research Designs and terminologies         1. Case reports         2. Case Series         3. Cross sectional and longitudinal         4. Cohort studies         5. Case Control         6. Clinical trials (Randomised controlled trials)         7. Literary Research and reviews         8. Preclinical Methods (In-silico, In-vitro, In situ and In-vivo).	2		4	8	0

	9. Terminologies: Randomisation, matching, Blinding, and Bias.					
6	Research process	2		3	6	0
	<ol> <li>Selecting a research topic and research problem</li> <li>Reviewing of literature.</li> <li>Formulating research hypothesis and objectives</li> <li>Planning the research (materials and methods)</li> <li>Conducting the research (data collection, analysis and interpretation)</li> <li>Drawing conclusions.</li> <li>Reporting of Research (Scientific writing)</li> </ol>					
7	Different Database, portals and Artificial Intelligence.	2		1	3	0
	<ol> <li>Database like PubMed, SCOPUS etc.</li> <li>Portals like AYUSH Research Portal, NAMASTE etc.</li> <li>Artificial Intelligence.</li> </ol>					
8	Different Guidelines to report research	2		0	2	0
	Different guidelines like CARE, CONSORT, ARRIVE etc.					
9	Intellectual Property Right (IPR)/Patent/ TKDL	2		1	0	0
	Importance Intellectual Property Right (IPR)/Patent/ TKDL					
10	Research Critiquing	2		1	2	0
	Different steps involved in critiquing research works					
11	Introduction to Medical statistics	2	20	1	1	0
	<ol> <li>Objectives</li> <li>Types (Descriptive and Inferential)</li> <li>Scope and Relevance pertaining to Ayurveda</li> </ol>					
12	Data	2		1	2	0
	<ol> <li>Concept of Data in Medical Statistics</li> <li>Sources of Data.</li> </ol>					

	<ul> <li>3. Types of Data: Quantitative and Qualitative (categorical), Discrete and continuous.</li> <li>4. Types of Scales: ordinal, nominal, interval and ratio scale.</li> </ul>				
13	Basic statistical terms <ol> <li>Population</li> <li>Sample and sampling</li> <li>Variable (Dependent and Intendent)</li> <li>Attributes</li> </ol>	2	1	1	0
14	<ul> <li>Collection and Presentation of Data</li> <li>1. Types of Data Collection (Primary and Secondary)</li> <li>2. Types of Presentation of data (Textual, Tabular and Graphical)</li> </ul>	2	2	4	0
15	Measures of Central Tendency <ol> <li>Arithmetic Mean</li> <li>Median</li> <li>Mode</li> <li>Qualities of Good measure of central tendency</li> </ol>	2	1	2	0
16	Measures of Deviation/Dispersion/Variability <ol> <li>Range</li> <li>Quartile deviation</li> <li>Mean deviation</li> <li>Standard deviation</li> <li>Variance and Co-efficient of Variation.</li> <li>Standard error</li> <li>Qualities of good measure of variability</li> </ol>	2	1	4	0
17	<ul> <li>Probability</li> <li>1. Fundamental of Probability</li> <li>2. Normal Distribution Curve and its properties</li> </ul>	2	1	3	0
18	<b>Hypothesis and Test of Significance</b> Hypothesis and Test of Significance	2	1	3	0
19	<b>Parametric and non-parametric tests</b> Parametric and non-parametric tests	2	1	2	0

20	Concept of Co-relation and Regression	2		1	1	0
	Explain Co-relation and Regression					
21	Commonly used Statistically software	2		0	2	0
	Commonly used Statistically software					
Tota	ıl Marks	50	25	50	0	

Paper 2	1 (RM-MS)										
A3 Cour se out come	B3 Learning Objective (At the end of the session students should be able to)	, the	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
Topic	1 Introduction to Research (LH :1 NLHT: 0 NLH	<b>P: 0</b> )									
A3	B3		C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO 1	Define Research and Research objectivesDescribe Scope research in ayurveda. Define Evidence based and Integra medicine	e of ative	CC	МК	KH	L&PPT	T-OBT,QZ ,PUZ	S	II	-	LH
Non L	ecture Hour Theory					•					
S.No Name of Activity Description of Theory Activity											
Non L	ecture Hour Practical										
S.No	Name of Practical	Desc	ription of	Practical	Activity						
Topic	2 Historical developments in research (LH :0 NLI	HT: 1 NL	HP: 0)								
A3	B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 1,CO 5	Present historical development of Contemporary researc evidences of research in ayurveda classical literature.	h.Identify	PSY- GUD	МК	КН	BS,L& GD,IBL ,TBL,DI S	M-CHT,QZ ,CL- PR,DEB	S	Π	H- Samhita	NLHT2.1
Non L	ecture Hour Theory			1			1	1	<u>.</u>	1	
S.No	Name of Activity	Desc	ription of	Theory A	Activity						
				· · ·							

NLHT 2	NLHT 2.1 Historical developments in research			Students (5-10) are divided into groups (5-10) They are given task to collect evidences on milestones of researches conducted like Nazi camp, Thalidomide story, syphilis story and also collect evidences of research process in ayurveda classical texts. Later each group is given 5 minutes to present the collected literature and how the different issues were addressed in research methodology.								
Non Le	ecture H	our Practical										
S.No		Name of Practical	Description of Practical Activity									
Topic 3	B Resea	rch Types (LH :2 NLHT: 2 NLHP: 0)										
A3		B3	C	23	D3	E3	F3	G3	Н3	I3	К3	L3
CO 1,CO 2	CO Explain Primary and Secondary research and differentiate between them 2		C	C	MK	KH	L&GD	T-OBT	S	II	-	LH
CO 1,CO 2	Explain differen	Basic, Applied and Translational Research and tiate among them.	C	CC	МК	Κ	L&PPT	T-OBT	S	II	-	LH
CO 1,CO 2	Define ( differen	Qualitative, Quantitative and Mixed Research and tiate among them	C	C	MK	K	L&PPT	T-OBT	S	II	-	LH
CO 1,CO 2	Define ( between	Dbservational and Interventional studies and differenti them	iate C	C	МК	Κ	L&GD	T-OBT	S	II	-	LH
CO 1,CO 2	CO Describe Descriptive and Analytical studies and differentia between them		С	C	МК	K	L&PPT	T-OBT	S	II	-	LH

CO 1,CO 2	Describe and differentiate between primary, secondary, descriptive and Analytical research studies.Explain and Differentiate between Basic, Applied and Translational Re			PSY- GUD	MK	KH	CBL,BS ,PBL	PRN,S- LAQ	S	II	-	NLHT3.1		
CO 1,CO 2	Illustrat Mixed I and diff	e and differentiate between Qualitative, Quantitative ResearchDefine Observational and Interventional stu erentiate between them	e and idies	PSY- GUD	МК	KH	CBL,BS ,PBL,DI S,PER	S-LAQ,CL- PR,PRN	S	II	-	NLHT3.2		
Non Le	ecture H	lour Theory												
S.No		Name of Activity	Description of Theory Activity											
NLHT 3	3.1	Different Research types Part I	A set of ca econdary, s chived and tudents int te the cards n group to ry, descript tegorizing, er teacher to	rds or cas some desc used for l o small gr s/cases rar classify th ive, analy the group facilitates	e studies w riptive, sor NHL. oups. ndomly. re research tical, basic s explain t a discussic	with short descr ne analytical, b study given to c, applied and t heir reasoning on to clarify an	iptions of basic, appl them which ranslationa behind the y misunde	various ied, and ch may al reseau e classif rstandir	research s l translatio be either p rch. ication. ngs and to	tudies (some nal orimary, reinforce key				
NLHT 3	3.2	Research Types Part II	Requirements: A set of case studies with short description or synopsis which have Qualitative,         Quantitate, observational and interventional studies are archived and used as study material.         1 hour Activity:         1. Divide students into small groups.											
			<ol> <li>Divide students into small groups.</li> <li>Distribute the cards/cases randomly.</li> </ol>											

				<ul> <li>3. Ask each group to classify the research study given to them which may be either Qualitative, Quantitate, observational and interventional studies.</li> <li>4. After categorizing, the groups explain their reasoning behind the classification.</li> <li>5. Then later teacher facilitates a discussion to clarify any misunderstandings and to reinforce key concepts</li> </ul>								
Non L	ecture H	our Practical										
S.No		Name of Practical	Desci	ription of	Practical	Activity	7					
Topic	4 Resea	rch Ethics (LH :1 NLHT: 1 NLHP: 0)										
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3
CO 5	Explain	the need and significance of ethics in research.	e need and significance of ethics in research. AFT- VAL VAL KH L&GD, INT,CBA S II -						LH			
CO 5	Explain	the role of IHEC/IEC and IAEC in research		AFT- VAL	DK	K	FC,BS, L&PPT	T-OBT,T- CS	S	Π	-	LH
CO 5	Apprais	e the role and significance of ethics in publication		AFT- RES	MK	КН	BS,L& GD,DIS	T-CS,DEB, CL-PR	S	II	-	LH
CO 5	Explain structur	the need and significance of ethics in research alor e of Institutional Human and Animal ethical comm	ng with ittee.	AFT- VAL	DK	КН	TBL,RP ,DIS,PB L,PSM	PRN,P- MOD,SBA	S	II	-	NLHT4.1
Non L	ecture H	our Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT	4.1	Ethics Committe Functioning	1 hour Activity:         1. Present a real or hypothetical case study involving ethical dilemmas in animal or human research.									

				<ol> <li>The scenario should focus on a situation where ethical approval is needed (e.g., using animals for a new study or involving human participants).</li> <li>Divide participants into small groups (10 each group) and ask them to discuss the ethical challenges, the role of IAEC/IHEC in addressing these issues, and how they would resolve the situation.</li> <li>Each group discusses and decides whether the research should be approved, ensuring the ethical principles (such as respect for autonomy, beneficence, non-maleficence, and justice) are considered.</li> </ol>								
Non L	ecture H	lour Practical										
S.No		Name of Practical	Desci	ription of	Practical	Activity						
Topic	Topic 5 Research Designs and terminologies (LH :4 NLHT: 8 NLHP: 0)											
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO 1,CO 2	Describ	e Case Reports		CC	MK	KH	L&PPT	T-CS	S	II	-	LH
2COExplain Case seriesCCDK1,CO2000							L&PPT	T-CS,PA	S	II	-	LH
CO 1,CO 2Describe Cross sectional studyCCMKKL&PPT ,DIST-CS,QZSII-							LH					
CO 1,CO 2	Explain	COHORT study		CC	DK	K	DIS,BL, L&PPT	T-OBT,QZ	S	II	-	LH

CO 1,CO 2	Describe Case Control study	CC	DK	К	BS,L&P PT ,DIS	T-CS,PA	S	II	-	LH
CO 1,CO 2	Describe Randomized Controlled Trial	CC	МК	КН	DIS,PL, BS,L&P PT	T-CS,PA,S- LAQ	S	II	-	LH
CO 1,CO 2	Define and identify various steps of Literary research Narrative review, systematic review and meta-analysis and identify the difference among them	CC	NK	K	TBL,DI S,BS,L &PPT	PA,QZ ,CL- PR,T-CS	S	II	-	LH
CO 1,CO 2	Explain Various pre-clinical methods and their utility	CC	NK	К	D-M,BL ,L_VC, BS	QZ ,P- MOD,PA	S	II	-	LH
CO 1,CO 2	Define various terms related to research designs	CC	МК	КН	L&PPT ,DIS	PA,PUZ,Q Z ,T-CS	S	II	-	LH
CO 1,CO 2	Illustrate Literature review under peer learning.	САР	MK	КН	TBL,BS ,PL,DIS	PA,T- CS,COM	S	II	-	NLHT5.1
CO 1,CO 2	Present differences between case report and case series.Describe and differentiate between cross sectional, longitudinal, cohort and case control studies.	PSY- GUD	MK	КН	TBL,PE R,PBL, BL	S-LAQ,PR N,CL-PR	S	II	-	NLHT5.2
CO 1,CO 2	Describe Randomized clinical trial and terminologies related to it (Randomization, matching, blinding and bias)	PSY- GUD	МК	КН	PBL,TB L,BL,B S,PL	COM,CL-P R,PRN,PA, P-MOD	S	II	-	NLHT5.3
CO 1,CO	Describe preclinical research methods (In-silico, In-vitro, In situ and In-vivo).	PSY- GUD	DK	К	D-M,PE R,PL,F	P-MOD,PA ,PRN	S	II	-	NLHT5.4

2					V						
Non Lecture Hour Theory         S.No       Name of Activity         Description of Theory Activity											
S.No	Name of Activity	Description	of Theory	Activity							
NLHT 5.1	Literary research	One hour pee ayurveda.	r learning for	Literary re	esearch an	d review with	n different e	example	es related	to concepts of	
NLHT 5.2	Research designs	2-hour Grou Preparation: I "Does smokin population of Instructions: I sectional, lon Each group w Their task is t After 20 minu scenarios. Debrief: Clan direction (retu how the study incidence, ris	<b>p activity.</b> Prepare a set increase the 40-year-olds Divide the stu- gitudinal, col- ill be given a o categorize ites, ask each ify the key prospective vs design choi- k factors).	of cards or he risk of lu ?"). udents into hort, or cash a set of rese each scena group to p oints for ea prospectiv ce influenc	slips with ing cancer four-five e-control) earch scen rio into th present the ach study of ye), timefr es the type	scenarios of ?" or "What i small groups. arios (with so e correct stud ir study type lesign, empha ames, and dat e of questions	different m is the preva Assign eac me overlap y type base and rationa asizing diff ta types (ex they can a	nedical r llence of ch group oping be ed on the dle for ca cerences coosure inswer (e	esearch q f hyperter o one stud tween stu e descript ategorizir such as th vs. outcon e.g., prev	uestions (e.g., nsion in a ly type (cross- ndy types). ion. ng the research he study me). Discuss alence,	
NLHT 5.3	Randomized clinical trial and terminologies related to it	nologies2-hour group activity on Randomized control studies. Preparation: Create a list of clinical questions (e.g., effectiveness of a new drug, surgical technique, or lifestyle intervention) that could be investigated via RCT. Divide students into small groups (4-5 students per group). Each group is assigned a clinical question and tasked with designing an RCT to answer it. Steps:									

		<ul> <li>Identify the Research Question: What hypothesis are they testing? (e.g., "Does a new drug reduce blood pressure more effectively than the standard treatment?")</li> <li>Define the Population: Who is the target population (e.g., adults with hypertension)?</li> <li>Randomization Strategy: How will they randomize participants? Will it be simple randomization, block randomization, or stratified randomization?</li> <li>Intervention and Control Groups: What will be in the intervention group (e.g., new drug) and the control group (e.g., standard treatment or placebo)?</li> <li>Blinding: Will the study be single-blind, double-blind, or open-label? How will they ensure blinding to reduce bias?</li> <li>Outcome Measures: What primary and secondary outcomes will they measure (e.g., blood pressure reduction, adverse effects)?</li> <li>Sample Size and Power: How will they estimate sample size to ensure the study has adequate power?</li> <li>Ethical Considerations: How will they handle patient consent, potential harms, and ethical concerns?</li> <li>After 20 minutes of discussion, each group presents their RCT design to the class (5 minutes per group).</li> </ul>
		randomization, blinding, and potential biases.
NLHT 5.4	Preclinical methods in research	3-hour field visit to orient on Preclinical methods in research.         Visit to Research laboratory or academic research institute with preclinical research facilities.         After visiting all stations in research facility, bring the students together for a discussion led by a researcher or facilitator.         Review each preclinical method and how they complement each other in research.         Open the floor to questions about the different methods, their applications, challenges, and ethical considerations.         Discuss any real-world case studies where these methods have led to breakthroughs in drug development or disease understanding. Ask students to reflect on which method they found most interesting or challenging and why

Non Le	ecture Hour Practical									
S.No	Name of Practical	Description of	Practical	Activity						
Topic (	6 Research process (LH :3 NLHT: 6 NLHP: 0)									
A3	B3	C3	D3	E3	F3	G3	Н3	13	K3	L3
CO 1,CO 2,CO 3	Describe the process for Selection of topic	CC	МК	КН	L&PPT ,BS,DIS	T-CS,PA	S	II	-	LH
CO 3	Access and explain the Literature search in medical database	PSY- MEC	МК	КН	FC,L& GD,BL	T-CS,CL- PR,PA	S	Π	-	LH
CO 1,CO 2	Formulate the Hypothesis and Objectives	CC	МК	КН	DIS,BS, L&GD	PA,T-CS	S	II	-	LH
CO 1,CO 2	Select the appropriate materials and methodologies required research process.	in PSY- GUD	МК	КН	FC,L& GD,BL	QZ ,PA,S- LAQ,T-CS	S	II	-	LH
CO 2,CO 4	Explain collection, analysis and Interpretation of data.	CC	МК	К	BS,L& GD,DIS	T-CS,S- LAQ,QZ	S	II	-	LH
CO 2,CO 5	Justiy Research conclusions	CC	МК	К	FC,BL, L&GD	PA,T-CS	S	II	-	LH
CO 1,CO 2,CO	Discuss steps of Reporting of Research (IMRAD)	CAP	МК	КН	L&GD, DIS,BS	PA,CL-PR, S-LAQ,T- CS,QZ	S	II	-	LH

5												
CO 1,CO 2,CO 5	Identify the research topic, research problem and appraise rev of literature.Formulate research hypothesis and objectives. Select the appropriate materials and methods for research stud			PSY- GUD	DK	SH	PBL,L& GD,PE R,BS,DI S	CBA,CL-P R,S-LAQ,T- CS	S	Π	-	NLHT6.1
CO 1,CO 2	Select the appropriate materials and methods for research s Lecture Hour Theory			PSY- GUD	МК	SH	PBL,TB L,DIS,F C,L&G D	T- CS,PA,QZ , CL-PR,S- LAQ	S	Π	-	NLHT6.2
Non Le	ecture H	cture Hour Theory Name of Activity										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT (	5.1	Research process: Research question and Hypothesis	Resea	<ol> <li>Divide tl</li> <li>Each gro (Vatavya</li> <li>Guide th undergra</li> <li>Ask each</li> <li>Example nidan ah</li> <li>Give each a fictiona</li> <li>Alternati database</li> <li>Ask stud gaps or l own rese</li> </ol>	problem he students oup will br adhi, Madl he students aduate rese h group to e: If the top ara and vill ch group a al example ively, ask ively, ask lents to Ide imitations earch prob	and hypo s into four ainstorm p numeha, P to ensure arch. define a ra- bic is "pran- nara in cau sample ab e) or the studen entify key in the exi-	thesis form -five small possible res andu, Bhac their chose esearch pro meha", the using pramo ostract or a p ts to find a findings, m sting resear	groups. search topics i lirya, srotas etc n topic is relev blem based on research proble eha in urban ar portion of a res research article nethods, and co rch. Discuss ho	n a medic n a medic 2 2 2 2 2 2 2 2 2 2 2 2 2	y) al field fic, and they sel be, "Wh er (this to their from the erature r	of their ch manageat lected. hat are the can be a ro topic usin he literatur review info	oice ble for present day eal article or g online e. Assess the prms their

		9. Guide the students to frame the research question and hypothesis for respective condition chosen by them from the above activity.
NLHT 6.2	Research process: Materials and Methodology	Planning and conducting the research (3-hour activity)         Start with a brief discussion of the importance of selecting appropriate materials and methods in research.         Materials: Refers to the tools, instruments, or resources required for the study (e.g., surveys, medical equipment, software).         Methods: Refers to the overall approach to collecting and analysing data (e.g., qualitative vs. quantitative methods, observational studies, experimental designs).         Group Formation: Divide students into groups of 4–6.         Research Topic and materials: Each group selects or is assigned a general research topic (e.g., hypertension in children, antibiotic resistance in hospital settings, mental health in medical students) and Formulating a Research Problem.         Depending on their chosen topic and problem ask the groups to decide on the materials they will need         1. Surveys and Questionnaires: Tools for collecting self-reported data.         2. Medical Equipment: Devices like blood pressure cuffs, thermometers, glucose meters.         3. Software: Statistical tools (SPSS, R, Excel) or qualitative analysis software (NVivo).         4. Data Sources: Databases, medical records, or patient registries.         5. Ethical Considerations: Ensure that the materials selected are ethically sound (e.g., consent forme ordination);
		Research design: Ask each group to decide on the data collection methods that best suit their research problem. Guide the groups to choose between quantitative or qualitative methods based on their research problem and objectives. Study Population: Have the groups identify their target population and sampling method. Discuss factors like sample size, inclusion/exclusion criteria, and sampling bias. Data Analysis Approach: Ask the groups to select the statistical or qualitative analysis techniques they

			will use to interpret their data.									
Non Lo	ecture H	Iour Practical										
S.No		Name of Practical	Descr	ription of	Practical	Activity	y					
Topic '	7 Differ	ent Database, portals and Artificial Intelligence	<b>ce.</b> (L)	H :1 NLI	HT: 3 NL	HP: 0)						
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO 3	Illustrat AYUSH of Scier	e use of different Research portals, database (DHAR H Research Portal, PubMed, SCOPUS, UGC-CARE, nce, etc) and explore Artificial Intelligence in researc	A, Web h.	CC	MK	КН	L_VC,D IS	PA,S- LAQ,QZ	S	II	-	LH
CO 3	Demons AYUSH of Scier	strate use of Research portals, database (DHARA, H Research Portal, PubMed, SCOPUS, UGC-CARE, nce, etc) and Artificial intelligence in ayurveda	Web	PSY- GUD	DK	КН	TBL,FC ,L&GD, BS,W	QZ ,DOAP, PA,CL-PR	S	II	-	NLHT7.1
Non L	ecture H	lour Theory										
S.No		Name of Activity	Descr	ription of	<b>Theory</b>	Activity						
NLHT	7.1	Demonstrate use of Research portals, database and Artificial intelligence in ayurveda	Demo	<ul> <li>PubMee Heading</li> <li>Cochration</li> <li>Google research</li> <li>Clinical results.</li> </ul>	of Databa d: Introduc (s) terms, a ne Librar Scholar: (  Trials.gov	ses and I tion to se nd filters. y: Discuss Overview r: Discuss	Research Person arching for s systematic of how to see	ortals (2 hours medical literatu reviews, meta earch academic ess information	s) ure, using -analyses articles a n about on	g MeSH , and ev and set u ngoing c	(Medical idence-bas up alerts fo linical tria	Subject sed medicine. or ongoing als and their
			Demo	nstration	of AI for	Diagnost	ics (1 hour)	)				

Non Lo	ecture H	Iour Practical	Divid (e.g., studer resour	<ul> <li>Show he assisted of assisted of assisted of assisted of assisted of the student of</li></ul>	ow AI is b dermatolo as and Vir D) that pro- nts into sn e resistance are a brief ny challen	eing used gy tools fo <b>tual Assis</b> ovide prel nall group e in hospin presentati ges they e	to detect di or skin canc stants: Intro iminary dia s (3-4 stude tals", "AI in on (5-10 mi ncountered.	seases from me eer detection). oduce AI-power gnoses or healt ents per group). diagnosing car inutes) on what	edical ima red chatb h advice. Assign e ncer", "M they four	nging or ots (e.g. ach grou ental he nd, the u	patient da , <b>Babylon</b> up a resea alth in me usefulness	ata (e.g., AI- <b>Health</b> , rch topic edical of the
S.No		Name of Practical	Desci	ription of	Practical	Activity	7					
lopic	8 Differ	ent Guidelines to report research (LH :0 NL	HI:2	NLHP: 0)						1		1
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO 3	Differen PRISM	ntiate various guidelines to report researchs like CA A, ARRIVE, CONSORT, STROBE.	ARE,	CC	DK	КН	L_VC	CHK,QZ ,CL-PR,PA	S	II	-	LH
CO 3	Recom	nend specific guidlines for various research studies		PSY- GUD	DK	КН	BL,L_V C,FC,T BL,LS	S-LAQ,P-I D,CL-PR,P RN,CHK	S	II	-	NLHT8.1
Non L	ecture H	lour Theory										
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
NLHT	8.1	Different Guidelines to report research	Introd	luce the dif	ferent rep	orting gui	delines, foc	using on their p	ourposes a	and key	compone	nts (e.g.,

			<ul><li>CONSORT for clinical trials, STROBE for observational studies, PRISMA for systematic reviews, CARE for case reports).</li><li>Divide students into small groups (10-15 students per group).</li></ul>										
			1 2 3 4 5	Assign e the corre Ask the g elements Groups s After the complied Ask stud of adheri	ach group sponding g groups to r of the res hould note review, e l with the ents to ref	a specific guideline eview the earch that e their fin- ach group reporting lect on the arch repor	e research st checklist (e e study using are missing dings on a v presents th guidelines a e activity an rting guideli	udy (either rea .g., CONSOR g the reporting g or not clearly whiteboard or i eir findings, fo and where it fe ad share any in ines.	l or hypo T for clinic guideline reported n a shared ocusing of ll short. sights the	thetical) ical trial e checkli d docum n the are y gainec	and provi studies). ist, identif ent. as where t d about the	de them with ying the study e importance	
Non Le	ecture H	ur Practical											
S.No		Name of Practical	Descr	iption of	Practical	Activity	7						
Topic 9	9 Intelle	ectual Property Right (IPR)/Patent/ TKDL (L	H :1 N	LHT: 0 N	NLHP: 0)								
A3		<b>B</b> 3		C3	D3	E3	F3	G3	H3	I3	K3	L3	
CO 3,CO 5	Explain Rights/I	importance and different aspects of Intellectual prop Patents and TKDL	berty	AFT- VAL	NK	КН	BS,L& GD,DIS ,PBL	PRN,CL- PR,PA,QZ	S	Π	-	LH	
Non Le	ecture H	lour Theory				-	-						
S.No		Name of Activity	Descr	iption of	Theory A	ctivity							
Non Le	ecture H	lour Practical											
S.No		Name of Practical	Descr	iption of	Practical	Activity	7						

Topic 1	l0 Rese	arch Critiquing (LH :1 NLHT: 2 NLHP: 0)										
A3		B3		C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO 5	Explain critiquir	Research critiquing and identify various steps inv	olved in	CC	DK	K	L&PPT	CL-PR,T- CS,QZ	S	II	-	LH
CO 5	Illustrate in critiq	e Research critiquing and identify various steps in uing	volved	PSY- GUD	DK	КН	FC,TBL ,L&GD, BL,CBL	CL-PR,QZ ,PRN	S	II	-	NLHT10.1
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHI	10.1	Research Chuqung	and w Create What the stu Then of have r Assign compl After sheet f comm Repea Final discus studie	eaknesses e critique s is the main ady, what a divide part nultiple se n each gro leting the c 30 minute filled out b uents, thou at the proce Reflection as insights s? How ca	for discuss for discuss heets that in research are the wea ticipants in its of critiq up one rese critique she s, have eac by the prev ghts, or sus ess until ea (30 minut and the ov in these ins	related to sion. participan question of aknesses of to groups ue sheets earch pape eet. ch group re- ious group ggestions. uch group es): Once erall critic sights be a	the topic at its can fill o or hypothes or limitation (ideally 10 and rotate t er to start w otate to the p, read the p has reviewe the above a ques. What	ut for each stu is, what are the s of the study, -15 people per he groups. vith. They'll sp next research paper again (or ed all the paper activity is com were common iture research?	dy. Includ e key findi how coul group). If end 20-30 paper. The parts of i rs (1 hour) plete, com strengths	le questi ings, wh d the stu f the gro minute ey shoul t), and a he togeth and we	ions like: nat are the udy be im oup is larg s reading d review add any ac ner as a wi aknesses a	strengths of proved? e, you can the paper and the critique Iditional hole group to across the

Non L	ecture Hour Practical									
S.No	Name of Practical	Description of	f Practica	l Activity	y					
Topic	11 Introduction to Medical statistics (LH :1 NLHT: 1	INLHP: 0)								
A3	B3	C3	D3	E3	F3	G3	Н3	13	К3	L3
CO 1	Define Statistics	СК	MK	K	DIS,L& PPT	Log book	S	II	-	LH
CO 1	Explain Objectives of Medical Statistics	CAP	МК	K	L&GD, L&PPT	Log book	S	II	-	LH
CO 1,CO 4	Differentiate between Descriptive and Inferential Statistics	САР	МК	K	L&GD, PBL,TB L	Log book	S	II	-	LH
CO 1,CO 4	Explain Scope and Relevance of Medical Statistics in Ayur	veda CC	МК	K	L&GD, BS,L&P PT ,TBL	Log book	S	II	-	LH
CO 1,CO 4	Differentiate between Descriptive and Inferential Statistics	САР	МК	КН	FC,L&P PT	Log book	S	II	-	NLHT11.1
CO 1	Explain Evidence Based Medicine	СК	DK	K	FC,IBL, L&PPT	PRN,INT	S	II	-	LH
CO 1	Describe Integrative Medicine	СК	DK	К	FC,DIS, L&PPT	PRN	S	II	-	LH
Non L	ecture Hour Theory									
S.No	Name of Activity	Description of	f Theory	Activity						

NLHT 11.1       Differentiating descriptive and inferential statistics       Demonstration by teacher: Using a simple data set the teacher demonstrates of descriptive and inferential statistics.         Hands-on training: The students are grouped into three or four or more, with students in each group. Then, they are asked to collect basic information reg their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and weight, and record their respective groups, like name, native place, height, and record their respective groups, like name, native place, height, and record their respective groups, like name, native place, height, and record their respective groups, like name, native place, height, and record their respective groups, like name, nativ									with a r n regard record statistics lass. ects and	l clarifies naximum ing each s the details and infer provides i	the concepts of 20 tudent in in writing. from the nputs for	
Non L S.No	ecture F	Name of Practical	Desci	ription of	Practical	Activity	7					
Торіс	12 Data	a (LH :1 NLHT: 2 NLHP: 0)		- <b>P</b>								
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 1	Define	Data		СК	МК	K	PBL,DI S,L&PP T	Log book	S	II	-	LH
CO 1,CO 4	Describ Qualita	be and classify different types of Data [Quantita tive (categorical), Discrete and Continuous	tive,	САР	МК	K	TBL,L &PPT ,DIS,FC	Log book	S	II	-	LH
CO 1,CO 4	Define Interva	and classify different types of Scales: Ordinal, I l, Ratio	Nominal,	САР	МК	К	PBL,L& PPT ,DIS,IB L	Log book	S	II	-	LH
CO 1,CO	Demon	strate types and sets of Data		PSY- GUD	МК	SH	L&PPT ,PBL,T	Log book	S	II	-	NLHT12.1

4							BL,DIS					
Non L	ecture H	Iour Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT	12.1	Data types and scales	Demo scales Hands in eac are the activity Concl measu	onstration b s-on trainir h group. T en allowed ty is repeat usion and uring scales	by teacher: ng: The stu he teacher to discuss ed with tw summariza s.	Using a si dents are g then prese and detern o, three, o ttion: The	mple data s grouped int ents a data s mine the co r more data teacher the	set, the teacher o three or four set that contair prrect data type a sets. n discusses the	demonstr groups, w is different es and scal e key aspec	ates van rith a m t types o es for th ets of da	rious data aximum o of data. Th he given d ata classifi	types and f 20 students ie students ata. The cation and
Non Lo	Lecture Hour Practical											
S.No		Name of Practical	Desci	ription of	Practical	Activity						
Topic 2	13 Basi	c statistical terms (LH :1 NLHT: 1 NLHP: 0)	•									
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO 1	Define	Population with examples		CC	MK	K	L&PPT ,BS	Log book	S	Π	-	LH
CO 1,CO 4	Define samplin	Sample and basic understanding of Sampling and g methods. Differentiate between Population and sa	mple	САР	МК	K	DIS,L& PPT ,T BL,PBL	Log book	S	II	-	LH
CO 1,CO 4	<ul> <li>Define Variable and differentiate various types of variables</li> <li>O</li> </ul>				МК	K	TBL,IB L,L&PP T	Log book	S	II	-	LH
СО	Define .	Attributes and differentiate various types of attribute	s	CAP	MK	K	TBL,L	Log book	S	II	-	LH

1,CO 4							&PPT ,PBL					
CO 1,CO 4	Demon	strate Basic Statistical terms.		PSY- GUD	МК	SH	L&PPT ,D,TBL, DIS,PB L	Log book	S	Π	-	NLHT13.1
Non L	ecture I	Iour Theory										
S.No		Name of Activity	Desc	ription of	Theory A	Activity						
Non L	Var Hai in e gro arti Con add			bles and att s-on training th group. T as discuss, if a and prese dusion and onal inputs	ributes app ng: The stu he teacher identify, ar nt the find summariza s for impro	bearing in dents are gives two ad record t ings in cla ation: The visation.	the study. grouped int o or three sc he populati ass. teacher the	o three or four ientific articles on, sample, va n concludes ar	groups, v s to each g uriables, an nd summa	vith a m group. T nd attrib	aximum c The studen outes appe y aspects	of 20 students ts in the aring in each and provides
Non L	ecture I	Iour Practical	I									
S.No		Name of Practical	Desc	ription of	Practical	Activity						
Topic	14 Coll	ection and Presentation of Data (Ll	H :2 NLHT: 4 NI	LHP: 0)	-	-	-	-		-	-	
A3		B3		C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO 1,CO 4	O Differentiate types of Data [Primary, Secondary] and understand basic data collection methods.			САР	МК	К	TBL,PS M,FC,P BL	Log book	S	II	-	LH
СО	Demonstrate different types of Presentation of data (Textual,			PSY-	MK	SH	L&PPT	Log book	S	II	-	LH

1,CO 4	Tabular	and Graphical)	MEC			,PSM,T BL,PBL ,D					
CO 1,CO 4	Demon	strate Collection and Presentation of Data.	PSY- MEC	МК	SH	L&PPT ,PBL,T BL,D	Log book	S	II	-	NLHT14.1
CO 1,CO 4	Demon	strate Collection and Presentation of Data.	PSY- MEC	МК	SH	PBL,D, TBL,PS M,L&P PT	Log book	S	II	-	NLHT14.2
Non Le	ecture H	Iour Theory			•				•		
S.No		Name of Activity	Description of	Theory A	Activity						
NLHT :	14.1	Data collection	Demonstration by various patient s Hands-on training in each group. Effort 20 patients us the allocated time Conclusion and collection and the	by teacher: acenarios. ng: The stu ach group sing specifine. summariza neir applica	The teach dents are collects b ic data col ation: The ability in d	er elaborate grouped int asic demog lection met teacher the lifferent sce	es on practical to three or four raphic, anthro hods and recor- n concludes an enarios.	aspects o groups, v pometric, rds the dat	f data co vith a m and clin a with t rizes the	ollection n naximum c nical data c he teacher e key aspe	nethods using of 20 students of a minimum s's help within cts of data
NLHT	14.2	Data presentation	Demonstration b highlighting the Hands-on training then to appropri Conclusion and presentation and	by teacher: key comp ng: The stu ate graphs summariza	The teach onents. Ident grou Each gro ation: The aspects to	er demonst ps summari up then pre teacher the be conside	rates various f ize the data co sent the data to n concludes an ered while pre-	nethods o llected fro o the class nd summa senting the	f data p m activ rizes the e data.	resentation ity 4.1 into e key aspe	n, o tables and cts of data

Non Lo	ecture Hour Practical									
S.No	Name of Practical	Description of	Practica	l Activity	7					
Topic 1	15 Measures of Central Tendency (LH :1 NLHT: 2 N	NLHP: 0)								
A3	B3	C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO 1,CO 4	Define Measures of Central Tendency and Arithmetic Meas	n. CC	МК	КН	TBL,L &PPT, PBL,FC ,PSM	Log book	S	Π	-	LH
CO 1,CO 4	Define Mean	CC	МК	КН	DIS,PB L,L&PP T	Log book	S	II	-	LH
CO 1,CO 4	Define Median	CC	МК	КН	L&PPT ,PSM,P BL	Log book	S	II	-	LH
CO 1,CO 4	Define Mode	CC	МК	КН	L&PPT ,PBL,PS M	Log book	S	II	-	LH
CO 1,CO 4	Explain the Qualities of Good measure of tendency	CC	МК	КН	L&GD, L&PPT ,TBL	Log book	S	II	-	LH
CO 1,CO 4	Calculate Measures of Central Tendency.	PSY- GUD	МК	SH	L&PPT ,DIS,PS M,TBL, PBL	Log book	S	II	-	NLHT15.1
Non Lo	ecture Hour Theory	•	•		•			•		

S.No		Name of Activity	Description of Theory Activity									
NLHT	15.1	Calculating measures of central tendency	Demon median Hands-( central and app tendenc	stration by and mode on trainin tendency blicability cy.	y teacher: e from the g: The stud from the d of various	Using spe given data dents are g lata. Conci measures	cific data so a. given three lusion and s of central	ets the teacher or four data se summarization tendency and o	demonstra ets to calcu a: The teac describes a	ates hov late dif her disc a good 1	w to calcula ferent mea cusses the i neasure of	ate mean, sures of mportance central
Non Le	ecture H	our Practical										
S.No		Name of Practical	Descri	ption of	Practical	Activity						
Topic 1	l6 Meas	sures of Deviation/Dispersion/Variability (LH	:1 NLH	HT: 4 NL	.HP: 0)							
A3		B3		C3	D3	<b>E3</b>	F3	G3	H3	<b>I</b> 3	K3	L3
CO 1,CO 4	Define I Range.	Measures of Deviation/ Dispersion / Variability and		CC	МК	КН	TBL,L &PPT, PSM,DI S,PBL	Log book	S	II	-	LH
CO 1,CO 4	Define	Quartile deviation.		CC	МК	КН	L&PPT ,DIS,TB L,PBL, PSM	Log book	S	II	-	LH
CO 1,CO 4	Define I	Mean deviation.		CC	МК	КН	DIS,PB L,TBL, PSM,L &PPT	Log book	S	II	-	LH
CO 1,CO	Define S	Standard deviation.		CC	МК	КН	PBL,DI S,L&PP	Log book	S	II	-	LH

4					T ,TBL, PSM					
CO 1,CO 4	Define Variance and Co-efficient of Variation.	CC	МК	КН	TBL,L &PPT, DIS,PB L	Log book	S	Π	-	LH
CO 1,CO 4	Define Standard Error	CC	NK	КН	PBL,L& PPT ,PS M,TBL	Log book	S	Π	-	LH
CO 1,CO 4	Explain the Qualities of Good measure of variability	CC	МК	КН	TBL,L &PPT, PSM,PB L,DIS	Log book	S	Π	-	LH
CO 1,CO 4	Calculate Measures of Deviation / Dispersion / Variability.	PSY- GUD	МК	SH	D,TBL, L&PPT ,BS,PB L	Log book	S	II	-	NLHT16.1
CO 1,CO 4	Calculate Measures of Deviation / Dispersion / Variability.	PSY- GUD	МК	SH	L&PPT ,D,PSM, PBL,TB L	Log book	S	Π	-	NLHT16.2
Non Lo	ecture Hour Theory				•			-		
S.No	Name of Activity	Description of	Theory A	Activity						
NLHT	16.1 Calculating measures of central tendency - 01	Demonstration b mean deviation Hands-on trainin Deviation, and s	by teacher: and standa ng: The stu tandard de	Using spe rd deviation dents are viation fro	ecific data so on from the given three om the data.	ets the teacher given data. or four data se Conclusion a	demonstr ets to calcu nd summa	ates how	w to calcul e Range, N 1: The teac	ate range, Iean her discusses

			the d	ata sets and	explains t	he differe	ence between	n range, mean	deviation	, and sta	ndard dev	viation.
NLHT :	16.2	Calculating measures of central tendency - 02	Demo calcu Hand coeff and e elabo	onstration b late varianc ls-on trainir ficient varia explains var orates on go	by teacher: the and coefficient of the stu- tion from the stu- tiance and od measur	Using the ficient va dents are he data. ( coefficien es of disp	e same data ariation from then given t Conclusion a at of variation persion.	sets from active the given dat three or four d and summariza on and their ap	vity 6.1 th a. ata sets to ation: The plicability	e teache calculat teacher . Furthe	r demons te varianc discusses r, the tead	trates how to e and s the data sets cher
Non Le	ecture H	lour Practical										
S.No		Name of Practical	Desc	ription of	Practical	Activity	y					
<b>Topic</b>	ic 17 Probability (LH :1 NLHT: 3 NLHP: 0)											
A3		B3		C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO 1	Explain	Probability		CC	МК	K	D-M,PL ,L&PPT ,IBL	Log book	S	Π	-	LH
CO 1,CO 4	Define	Normal Distribution Curve and understand its vari	ations	CC	МК	КН	PL,L&P PT ,DIS ,BS,ML	Log book	S	Π	-	LH
CO 1,CO 4	Calcula	te Probability and Normal Distribution.		PSY- GUD	МК	SH	DIS,D,L &PPT ,I BL,PBL	Log book	S	II	-	NLHT17.1
Non Lecture Hour Theory												
S.No		Name of Activity	Desc	cription of	Theory A	Activity						
NLHT	T 17.1 Normal distribution and probability Demonstration by teacher: The teacher demonstrates the normal distribution curve and its variations,											

			r Practical									
Non Le	ecture H	our Practical										
S.No		Name of Practical	Desc	ription of	Practical	Activity	7					
<b>Topic</b>	18 Hype	othesis and Test of Significance (LH :1 NI	.HT: 3 N	L <b>HP: 0</b> )								
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 1,CO 4	Explain	Hypothesis		CC	МК	К	L&PPT ,DIS	Log book	S	Π	-	LH
CO 1,CO 4	Explain	Test of significance		CC	МК	КН	BS,DIS, L&GD	Log book	S	II	-	LH
CO 1,CO 4	Discuss	Hypothesis and Test of Significance.		САР	МК	SH	L&PPT ,PSM,T BL,PBL ,D	Log book	S	II	-	NLHT18.1
CO 1,CO 4	CO ADiscuss Hypothesis and Test of Significance.CAPMKSHD,L&PP T,TBL, DISLog bookSII-NLHT18						NLHT18.2					
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Desc	ription of	Theory A	Activity						

NLHT	18.1	Hypothesis	Demonstration by teacher: The teacher demonstrates systematic development of a hypothesis from a research problem. Hands-on training: The students are grouped into three or four groups, with a maximum of 20 student in each group. Each group develop hypotheses from three or four given research problems. Then, they present the hypotheses in class. Conclusion and summarization: The teacher discusses various hypotheses developed by the groups ar summarizes the critical aspects.							esis from a of 20 students s. Then, they he groups and		
NLHT	18.2	Testing of significance	Dem data Hand steps Con- the h	onstration b from differed ds-on training of hypothe clusion and hypothesis.	by teacher: ent scientif ng: The stu sis testing summariza	The teach fic articles idents' gro in them. 7 ation: The	her demonst s. oups are the Then, they w teacher cor	rates the steps n given three of vill present the acludes with si	involved or four art e data in c gnificant	in testin icles to i lass. points re	g a hypot identify ar	hesis using nd record the he testing of
S No		Name of Practical	Des	crintion of	Practica	L Activity	Ţ					
Topic	19 Para	ametric and non-parametric tests (LH :1	NLHT: 2	NLHP: 0)	Tructicu							
A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO 1,CO 4	Explain with ex	a and differentiate Parametric and Non-paramet amples	tric tests	CC	МК	КН	L&GD, L&PPT ,BS	Log book	S	II	-	LH
CO 1,CO 4	CO Discuss Parametric and Non-parametric tests				МК	КН	D,PBL, L&PPT ,DIS	Log book	S	Π	-	NLHT19.1
Non Lecture Hour Theory				-			-	1				·

S.No		Name of Activity	Description of Theory Activity									
NLHT 1	19.1	Understanding Parametric and Non-parametric tests	Demonstration by teacher: The teacher demonstrates the difference between parametric and nonparametric tests and introduces various parametric and nonparametric tests. Hands-on training: The teacher provides three or four scientific articles to the students in groups. The students discuss and understand the application of parametric or nonparametric tests, and they record their findings. Conclusion and summarization: The teacher concludes with major points regarding the applicability of parametric and nonparametric tests.								nd groups. The they record oplicability of	
Non Le	ecture H	lour Practical										
S.No		Name of Practical	Descri	iption of	Practical	Activity	,					
Topic 2	20 Conc	oncept of Co-relation and Regression (LH :1 NLHT: 1 NLHP: 0)										
A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO 1,CO 4	Explain	Correlation and Regression		CC	МК	КН	L&PPT ,D,PBL	Log book	S	II	-	LH
CO 1,CO 4	Correlat	tion and regression		CC	DK	КН	TBL,L &PPT ,D	Log book	S	II	-	NLHT20.1
Non Le	ecture H	lour Theory										
S.No		Name of Activity     Description of Theory Activity										
NLHT 2	20.1	Undersanding correlation and regression	Demon using d Hands- underst	stration b lata from on trainir tand vario	relation and regression Demonstration by teacher: The teacher demonstrates various features of correlation and regression using data from scientific literature. Hands-on training: Students are given three data sets that utilize correlation and regression, and they understand various scenarios for their application.					egression n, and they		

			Concl regres	usion and sion and th	summariza neir applica	tion: The bility.	teacher con	cludes with m	ajor point	s regard	ling correl	ation and
Non Le	ecture H	our Practical	•									
S.No		Name of Practical	Descr	ription of	Practical	Activity						
Topic 2	21 Com	monly used Statistically software (LH :0 NL	<b>HT: 2</b>	NLHP: 0)	)							
A3		B3		С3	D3	E3	F3	G3	Н3	I3	K3	L3
CO 1,CO 4	Demonstrate different Software used for Statistical Analysis			CC	NK	KH	D,DIS,T UT,L& PPT	Log book	S	Π	-	NLHT21.1
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT 2	NLHT 21.1       Statistical software       Demonstration by teacher: The teacher introduces various statistical software and its features and demonstrates any of them by performing some simple statistical tests.         Hands-on training: Students are allowed to review various statistical software, understand its feat and prepare a note.       Conclusion and summarization: The teacher concludes with major points regarding statistical soft and their applicability.						ires and its features, ical software					
Non Le	ecture H	our Practical	-									
S.No	No Name of Practical Description of Practical Activity											

(*Refer table	3	of similar	activity	number)
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Activity No*	CO No	Activity details
2.1	CO 1,CO 5	Historical developments in research
3.1	CO 1,CO 2	Different Research types Part I
3.2	CO 1,CO 2	Research Types Part II
4.1	CO 5	Ethics Committe Functioning
5.1	CO 1,CO 2	Literary research
5.2	CO 1,CO 2	Research designs
5.3	CO 1,CO 2	Randomized clinical trial and terminologies related to it
5.4	CO 1,CO 2	Preclinical methods in research
6.1	CO 1,CO 2,CO 5	Research process: Research question and Hypothesis
6.2	CO 1,CO 2	Research process: Materials and Methodology
7.1	CO 3	Demonstrate use of Research portals, database and Artificial intelligence in ayurveda
8.1	CO 3	Different Guidelines to report research
10.1	CO 5	Research Critiquing
11.1	CO 1,CO 4	Differentiating descriptive and inferential statistics
12.1	CO 1,CO 4	Data types and scales
13.1	CO 1,CO 4	Statistical terms
14.1	CO 1,CO 4	Data presentation

14.2	CO 1,CO 4	Data collection
15.1	CO 1,CO 4	Calculating measures of central tendency
16.1	CO 1,CO 4	Calculating measures of central tendency - 01
16.2	CO 1,CO 4	Calculating measures of central tendency - 02
17.1	CO 1,CO 4	Normal distribution and probability
18.1	CO 1,CO 4	Hypothesis
18.2	CO 1,CO 4	Testing of significance
19.1	CO 1,CO 4	Understanding Parametric and Non-parametric tests
20.1	CO 1,CO 4	Undersanding correlation and regression
21.1	CO 1,CO 4	Statistical software

**Table 5 : List of Practicals** 

Not Applicable
#### Table 6 : Assessment Summary: Assessment is subdivided in A to H points

Subject	Papers	Theory		Grand					
Code			Practical	Viva	Elective	IA	Sub Total	Total	
AyUG-RM	1	50	-	-	-	-	-	50	

### 6 A : Number of Papers and Marks Distribution

#### 6 B : Scheme of Assessment (Formative and Summative)

PROFESSIONAL	FOR	SUMMATIVE		
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	NA	NA	NA	<b>UE</b> **

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

#### 6 C : Calculation Method for Internal assessment Marks

Not applicable

### 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

### III PROFESSIONAL BAMS EXAMINATIONS AyUG-RM PAPER-I

Time: 1.5 Hours Maximum Marks: 50 INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	10	1	10
Q 2	SHORT ANSWER QUESTIONS (SAQ)	4	5	20
Q 3	LONG ANSWER QUESTIONS (LAQ)	2	10	20
				50

## 6 F : Distribution of theory examination

Sr	Δ	R			
No	List of Topics	Marks	MCQ	SAQ	LAQ
1	Introduction to Research	30	No	Yes	No
2	Historical developments in research		No	Yes	No
3	Research Types		Yes	Yes	Yes
4	Research Ethics		Yes	Yes	No
5	Research Designs and terminologies		Yes	No	Yes
6	Research process		Yes	No	Yes
7	Different Database, portals and Artificial Intelligence.		Yes	Yes	No
8	Different Guidelines to report research		Yes	Yes	No
9	Intellectual Property Right (IPR)/Patent/ TKDL		Yes	No	No
10	Research Critiquing		Yes	No	No
11	Introduction to Medical statistics	20	Yes	No	No
12	Data		Yes	No	No
13	Basic statistical terms		Yes	No	No
14	Collection and Presentation of Data		Yes	Yes	Yes
15	Measures of Central Tendency		No	No	Yes
16	Measures of Deviation/Dispersion/Variability		No	No	Yes
17	Probability		No	Yes	No
18	Hypothesis and Test of Significance		Yes	No	No
19	Parametric and non-parametric tests		Yes	Yes	No
20	Concept of Co-relation and Regression		Yes	No	No
21	Commonly used Statistically software		Yes	No	No
Tota	l Marks	50			

#### 6 G : Instructions for UG Paper Setting & Blue print

- 1. All questions shall be compulsory.
- 2. Questions shall be drawn based on Table 6F, which provides the topic name, types of questions (MCQ(Multiple Choice Question), SAQ(Short Answer Question), LAQ(Long Answer Question)).
- 3. The marks assigned in Table 6F for each topic/group of topics shall be considered as the maximum allowable marks for that topic/group of topics.
- 4. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
- 5. Refer to Table 6F before setting the questions. Questions shall be framed only from topics where the type is marked as "YES", and avoided if marked as "NO".
- 6. Each 50-mark question paper of AyUG-RM shall contain:
  - 10 MCQs (5 Research Methodology + 5 Statistics)
  - 4 SAQs (3 Research Methodology + 1 Statistics)
  - 2 LAQs (1 Research Methodology + 1 Statistics)
- 7. MCQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 2 for AyUG-RM.
  - Questions from the Nice to Know part of syllabus shall not exceed 1 for AyUG-RM.
- 8. SAQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 1.
  - No questions shall be drawn from the Nice to Know part of syllabus.
  - SAQs shall assess understanding, application, and analysis, rather than simple recall.
- 9. LAQs:
  - All LAQs shall be drawn exclusively from the Must to Know part of the syllabus.
  - No questions shall be taken from the Desirable to Know or Nice to Know part of the syllabus.
- 10. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
- 11. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

### 6 H : Distribution of Practical Exam

Not Applicable

### **References Books/ Resources**

S.No	Resources
1	Gupta S P. Statictical methods. 46 th. Sultan Chand and sons; 2021
2	Itrat M, Khan TN, Radhika K. Research methodology and biostatistics. 2023.
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8	Aslam M, Singh S. Research methodology & biostatistics in pharmacology. 1st ed. New Delhi: Academa Publishers; 2006.
9	Naseema C, Jibin VK. Research methodology in education and application of statistics. Delhi: Shipra Publications; 2011.
10	Chawla D, Sondhi N. Research methodology: concepts and cases. New Delhi: Vikas Publishing House; 2011.
11	Kothari CR. Research Methodology: Methods and Techniques. 2nd ed. Daryaganj: New Age International; 2004. 1 p.
12	Reporting guidelines   EQUATOR Network
13	AYUSH RESEARCH PORTAL
14	Official website of Intellectual Property India

### Syllabus Committee

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### Abbreviations

Dom	Domain		T L Method		Level		Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
СС	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
CAP	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	Н-КС	НКС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	Н-РК	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	н-кв	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

1	W	Workshops		C-INT	Conducting interview	
(	GBL	Game-Based Learning		INT	Interactions	
Ι	LS	Library Session		CR- RED	Critical reading papers	
I	PL	Peer Learning		CR-W	Creativity Writing	
I	RLE	Real-Life Experience		C-VC	Clinical video cases	
I	PER	Presentations		SP	Simulated patients	
I	D-M	Demonstration on Model		PM	Patient management problems	
I	PT	Practical		СНК	Checklists	
2	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
(	CD	Case Diagnosis		DOPS	DOPS	
I	LRI	Lab Report Interpretation		CWS	CWS	
I	DA	Drug Analysis		RS	Rating scales	
I	D	Demonstration		RK	Record keeping	
I	D- BED	Demonstration Bedside		СОМ	Compilations	
Ι	DL	Demonstration Lab		Portfol ios	Portfolios	
Ι	DG	Demonstration Garden		Log book	Log book	
I	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				СВА	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	

## COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



# Shalakya Tantra (Ophthalmology, Oto-Rhino- Laryngology & Oro-Dentistry)

## (SUBJECT CODE : AyUG-SL)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



# NCISM III Professional Ayurvedacharya (BAMS) Subject Code : AyUG-SL

Shalakya Tantra (Ophthalmology, Oto-Rhino- Laryngology & Oro-Dentistry)

### **Summary**

Total number of Teaching hours: 300						
Lecture (LH) - Theory						
Paper I	50	100	100(LH)			
Paper II	50					
Non-Lecture (NLHT)						
Paper I	30	60	200(NLH)			
Paper II	30					
Non-Lecture (NLHP)						
Paper I	70	140				
Paper II	70					

Examination (Papers & Mark Distribution)						
Item	Theory Component Marks		Practical Com	ponent Marks		
		Practical	Viva	Elective	IA	
Paper I	100	100	70	-	30	
Paper II	100					
Sub-Total	200	200				
Total marks		400				

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

# **PREFACE**

A dynamic and evolving curriculum is crucial in Ayurveda education to prepare future medical professionals who are adaptable, informed, and empathetic. The third professional year plays a pivotal role in bridging foundational knowledge with clinical application, shaping students into competent Vaidyas (physicians). This phase of education must be a living entity, constantly adapting to advancements in healthcare, technology, and patient needs. Shalya Tantra, the Ayurvedic science of surgery, is a critical discipline that blends traditional surgical wisdom with modern innovations, ensuring a comprehensive and holistic approach to surgical education.

This curriculum serves as more than just a framework for knowledge dissemination—it is a structured roadmap designed to foster critical thinking, ethical integrity, and a commitment to lifelong learning. By integrating traditional pedagogical methods with innovative teaching-learning strategies, including case-based learning, hands-on training on simulators, and research-oriented clinical exposure, we aim to redefine surgical education in Ayurveda. It is designed to strengthen diagnostic abilities, enhance surgical skills, and introduce students to evidence-based practice through practical demonstrations, case discussions, and group interactions.

To ensure the global relevance and applicability of Shalya Tantra, the Expert Committee on Competency-Based Dynamic Curriculum has introduced enhancements such as the integration of modern surgical techniques, clinical research updates, and evidence-based practice. This curriculum not only delves into the strengths of Ayurveda in managing lifestyle disorders and non-communicable diseases but also equips students with the necessary skills to navigate an evolving healthcare system. We hope that this curriculum serves as a strong foundation for students, enabling them to achieve clinical excellence and uphold the highest ethical standards in their surgical practice.

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### **Course Code and Name of Course**

Course code	Name of Course
AyUG-SL	Shalakya Tantra

### Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AyUG-SL At the end of the course AyUG-SL, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.
CO1	Demonstrate clincical application of anatomy and physiology of the Netra, Karna, Nasa, Mukha, Shiras.	PO1
CO2	Identify and understand Nidana-panchaka of diseases in Shalakyatantra according to Ayurveda and contemporary medical science. (Rogapareeksha)	PO1,PO2,PO3
CO3	Conduct appropriate clinical examinations using various diagnostic and imaging techniques, along with appropriate instrument usage and interpretation, as per Ayurveda and contemporary medical sciences.	PO2,PO3
CO4	Present the cases related to Shalakyatantra with clinical reasoning (Naidanika Tarka) along with prognosis (Sadhya-asadhyata) in clinical practice.	PO2,PO5
CO5	Acquire a knowledge of principles of treatment and various therapeutic measures related to Shalakyatantra, according to Samhitas and contemporary medical science.	PO2,PO3,PO4,PO7
CO6	Perform appropriate therapeutic measures related to Shalakyatantra and seek or refer for expert opinion whenever needed.	PO4,PO7
CO7	Communicate effectively with the patient, relatives and other stakeholders.	PO7,PO8
CO8	Demonstrate ethics (Sadvritta), compassion (Karuna) and possess qualities of a clinician (Vaidyaguna).	PO6,PO7,PO9

### Table 2 : Contents of Course

Pape	er 1 (Netraroga (Ophthalmology))					
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l
1	Shareera, Nidaana Panchaka of Netraroga.	1	30	2	2	6
	A) Paribhasha of Shalakya Tantra.					
	B) Netra Rachanashareera (Anatomy of Eye).					
	C) Netra Kriyashareera (Physiology of Eye).					
	D) Samanya Hetu (Nija and Agantuja) of Netraroga.					
	E) Purvarupa of Netraroga.					
	F) Samprapti of Netraroga.					
	G) Saama and Niraama Lakshanas of Netraroga.					
	H) Classification of Netraroga.					
2	Samanya Chikitsa and Kriyakalpa.	1		3	3	8
	A) Samanya Chikitsa of Netraroga.					
	B) Enumeration of Kriyakalpa.					
	C) Seka.					
	D) Pindi.					
	E) Vidalaka.					
	F) Aschyotana.					
	G) Tarpana					
	H) Putapaka.					
	I) Anjana.					
3	Panchakarma and Netraroga.	1		0	1	0

	Arhata and Importance of Panchakarma in Netraroga Chikitsa.					
4	Sanjnaharana in Netraroga.	1		0	1	0
	Types and drugs used in Sanjnaharana in Netraroga (Anesthesia in Ophthalmology).					
5	Sandhigata Roga -1	1		3	0	2
	A) Applied anatomy of Lacrimal apparatus.					
	B) Pooyalasa, Upanaha (Acute and Chronic Dacryocystitis).					
6	Sandhigata Roga -2	1		1	1	0
	A) Netrasrava (Epiphora).					
	B) Hyperlacrimation.					
7	Sandhigata Roga -3	1		2	0	0
	A) Krimigranthi (Blepharitis).					
	B) Parvani, Alaji.					
8	Vartmagata Roga-1	1	34	4	1	6
	A) Anjananamika (Hordeolum).					
	B) Utsangini, Lagana (Chalazion).					
	C) Pakshmakopa (Trichiasis, Entropion).					
	C) Pakshmakopa (Trichiasis, Entropion). D) Pakshmashata.					
	<ul><li>C) Pakshmakopa (Trichiasis, Entropion).</li><li>D) Pakshmashata.</li><li>E) Ectropion.</li></ul>					
9	<ul> <li>C) Pakshmakopa (Trichiasis, Entropion).</li> <li>D) Pakshmashata.</li> <li>E) Ectropion.</li> <li>Vartmagata Roga-2</li> </ul>	2		1	0	0
9	<ul> <li>C) Pakshmakopa (Trichiasis, Entropion).</li> <li>D) Pakshmashata.</li> <li>E) Ectropion.</li> <li>Vartmagata Roga-2</li> <li>A) Pothaki (Trachoma).</li> </ul>	2		1	0	0
9	<ul> <li>C) Pakshmakopa (Trichiasis, Entropion).</li> <li>D) Pakshmashata.</li> <li>E) Ectropion.</li> <li>Vartmagata Roga-2</li> <li>A) Pothaki (Trachoma).</li> <li>B) Sikatavartma.</li> </ul>	2		1	0	0
9	<ul> <li>C) Pakshmakopa (Trichiasis, Entropion).</li> <li>D) Pakshmashata.</li> <li>E) Ectropion.</li> <li>Vartmagata Roga-2</li> <li>A) Pothaki (Trachoma).</li> <li>B) Sikatavartma.</li> <li>Vartmagata Roga -3</li> </ul>	2		1	0	0
9	<ul> <li>C) Pakshmakopa (Trichiasis, Entropion).</li> <li>D) Pakshmashata.</li> <li>E) Ectropion.</li> <li>Vartmagata Roga-2</li> <li>A) Pothaki (Trachoma).</li> <li>B) Sikatavartma.</li> <li>Vartmagata Roga -3</li> <li>A) Vatahatavartma (Ptosis).</li> </ul>	2		1	0	0
9	<ul> <li>C) Pakshmakopa (Trichiasis, Entropion).</li> <li>D) Pakshmashata.</li> <li>E) Ectropion.</li> <li>Vartmagata Roga-2</li> <li>A) Pothaki (Trachoma).</li> <li>B) Sikatavartma.</li> <li>Vartmagata Roga -3</li> <li>A) Vatahatavartma (Ptosis).</li> <li>B) Nimesha.</li> </ul>	2		1	0	0

	D) Utklishtavartma.			
11	Bhedana Karma	2		0
	Arhata, Purvakarma, Pradhanakarma, Pashchatkarma of Bhedana in Netraroga.			
12	Lekhana Karma.	2		0
	Arhata, Purvakarma, Pradhanakarma, Pashchatkarma of Lekhana in Netraroga.			
13	Shuklagata Roga -1	2		3
	A) Arma (Pterygium).			
	B) Arjuna (Sub-Conjunctival Haemorrhage).			
	C) Shuktika.			
	D) Pishtaka.			
14	Shuklagata Roga -2	2		2
	A) Applied Anatomy of Sclera.			
	B) Sirajala, Sirajapidika (Episcleritis, Scleritis).			
15	Chhedana Karma.	2		0
	Arhata, Purvakarma, Pradhanakarma, Pashchatkarma of Chhedana in Netraroga.			
16	Agnikarma and Ksharakarma.	2		0
	Arhata, Purvakarma, Pradhanakarma, Pashchatkarma of Agnikarma and Ksharakarma in Netraroga.			
17	Krishnagata Roga -1	2		5
	A) Savrana Shukra/Shukla (Corneal Ulcer).			
	B) Avrana Shukra/Shukla (Corneal Opacity).			
	C) Ajakajata (Staphyloma).			
	D) Sirashukla.			
	E) Akshipakatyaya.			
18	Krishnagata Roga -2	2		2
I	1	I	I	I

0	1	2	
0	1	2	
3	0	6	
2	0	2	
0	1	2	
0	1	0	
5	0	4	
2	0	4	

	A) Uveitis.					
	B) Acute Iridocyclitis.(Tarakamandala-shotha.)					
19	Dravyas Used In Netrachikitsa-1	2		0	4	0
	Dravyas used in Netrachikitsa [Anti-inflammatory drugs, Immunosuppressive drugs, Anti-infective drugs (Topical- Antibiotics/ Antiviral/ Antifungal agents), Lubricating agents and Artificial tears, Dyes used in Ophthalmology].					
20	Eye Donation	2		0	4	0
	A) Basic knowledge of Eye bank.					
	B) Eye Donation.					
	C) Corneal Transplantation.					
21	Sarvagata Roga -1	2	18	4	1	2
	A) Abhishyanda (Conjunctivitis).					
	B) Adhimantha.					
	C) Hatadhimantha.					
22	Sarvagata Roga -2	3		3	1	2
	A) Shushkakshipaka (Dry Eye Syndrome, Computer Vision Syndrome).					
	B) Sashophapaka.					
	C) Ashophapaka.					
	D) Amloshita.					
	E) Sirotpaata.					
	F) Siraharshha.					
	G) Vaataparyaya.					
	H) Pillaroga.					
23	Glaucoma	3		1	1	2
	Dynamics of Aqueous Humour; Classification of Glaucoma and Description of Primary Open Angle					

	Glaucoma and Primary Angle Closure Glaucoma.					
24	Drishtigata Roga-1	3	18	7	1	4
	A) Timira (Errors of Refraction, Presbyopia).					
	B) Amblyopia.					
	C) Kacha.					
	D) Linganasha.					
	E) Kaphaja Linganasha Shastrakarma.					
	F) Pitta-vidagdha Drishti.					
	G) Kapha-vidagdha Drishti.					
	H) Dhumadarshi.					
	I) Ushna-vidagdha Drishti.					
	J) Abhighataja Linganasha.					
	K) Sanimittaja Linganasha.					
	L) Animittaja Linganasha.					
	M) Gambhirika .					
	N) Hraswajadya.					
	O) Nakulandhya.					
25	Nayanabhighata	3		1	0	2
	A) Nayanabhighata (Ocular trauma and management).					
	B) Agantuja Shalya (Foreign body in eye).					
26	Drishtigata Roga-2	3		1	1	2
	Classification of Cataract and description of Senle Cataract (Kaphaja Linganasha).					
27	Drishtigata Roga- 3	3		2	0	0
	A) Madhumehajanya Drishtiroga (Diabetic Retinopathy).					

	B) Jarajanya Pitabindu Upaghata (Age related macular degeneration).					
	C) Drishti-nadi Shosha (Optic atrophy).					
28	Dravyas used in Netra Chikitsa-2	3		0	1	0
	Mydriatics, Cycloplegic agents.					
29	Dravyas used in Netra Chikitsa-3, Swasthavritta, Kuposhanajanya Netravikara (Malnutritional Eye Disorders), Community Ophthalmology.	3		1	3	8
	• A) Dravyas in Netrachikitsa.					
	- Prayoga of Samanya Chakshushya Dravyas.					
	- Prayoga of Samanya Chakshushya Yogas					
	• B) Swasthavritta in Netraroga.					
	- Netra and Chakshu Swasthyahitakara Dinacharya.					
	- Netra and Chakshu Swasthyahitakara Aahara evam Vihara.					
	<ul> <li>C) Kuposhanajanya Netravikara (Malnutritional Eye Disorders)</li> </ul>					
	- Naktandhya (Night Blindness).					
	-Jeevanasatwa-kshayajanya Netra roga(Vitamin deficiency Eye disorders).					
	- Xerophthalmia.					
	- Xerosis.					
	• D) Community and Preventive Ophthalmology.					
Tota	ll Marks		100	50	30	70

Pape	Paper 2 (Shiro-Karna-Nasa-Mukharoga (Oto-rhino-laryngology and Oro-dentistry))						
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture	E2 Non- Lecture	

					hours Theory	hours Practica l
30	Enumeration, Nidana Panchaka and Sadhya- asadhyata of Shiroroga	1	10	2	1	4
	A) Enumeration, Samanya Nidana, Samprapti, Samanya Lakshanas, Sadhya-asadhyata of Shiroroga.					
	B) Vataja, Pittaja, Kaphaja, Sannipataja Shirahshoola.					
	C) Classification of Headache as per ICHD 3.					
31	Samanya Chikitsa of Shiroroga	1		0	2	4
	A) Suryavarta, Anantavata, Ardhavabhedaka ( Detailed study and differential diagnosis of Migraine headache).					
	B) Shiraso Uttamangatwam, Pathyapathya and Samanya Chikitsa of Shiroroga.					
32	Karna Rachana Shareera, Nidana Panchaka and Samanya Chikitsa of Karnaroga	1	25	2	2	4
	A) Rachana of Karna (Anatomy of Ear)					
	B) Enumeration, Nidana Panchaka, Classification, Sadhya-asadhyata, Pathyapathya, Samanya Chikitsa of Karnaroga.					
33	Karnaroga 1	1		2	0	2
	A) Karnashoola (Otalgia).					
	B) Karna Shopha.					
34	Nasa Shareera, Ghranendriya and Nidana Panchaka of Nasaroga	1		2	1	2
	A) Nasa and Ghranendriya Shareera(Anatomy of Nose & Paranasal sinuses and physiology of Olfaction).					
	B) Enumeration, Samanya Hetu, Samanya Chikitsa, Pathya-apathya, Prognosis of Nasaroga.					
35	Pratishyaya	1		3	1	0

	Pratishyaya, Dushtapratishyaya ,Puyarakta, Nasapaka, Nasashopha.					
36	Mukha Shareera and Nidana Panchaka of Mukharoga	1		1	1	4
	A) Paribhasha of Mukha.					
	B) Mukha-Shareera.					
	C) Nidana Panchaka,(Common etiological, pathological factors of diseases of Oral cavity as per Contemporary Medical Science); Enumeration, Classification, Sadhya-asadhyata, Pathya-apathya and Samanya Chikitsa of Mukharoga.					
37	Oshtharoga	1	10	1	0	0
	A) Oshtharoga - Vataja, Pittaja, Kaphaja Oshtha Prakopa (Cheilitis, Herpes labialis).					
	B) Khandoushtha (Cleft lip).					
	C) Jalarbuda (Lip Mucocele).					
38	Sarvasara Mukharoga	1		2	0	0
	Sarvasara Mukharoga (Stomatitis, Oral Submucous Fibrosis, Oral Candidiasis, Tumours of Oral cavity).					
39	National Oral Health Programme	1		0	1	0
	National Oral Health Programme including prevention of malignancy of Oral cavity, Dantaraksha Vidhi.					
40	Kapalagata Roga	2	10	1	0	4
	Enumeration, Samanya Nidana, Samprapti, Lakshana and Chikitsa of Kapalagata Roga - Arumshika, Darunaka, Indralupta, Khalitya, Palitya.					
41	Karna Kriya Shareera and Shravanendriya	2		0	1	0
	Kriya Shareera of Karna and Shravanendriya (Physiology of Hearing and Equilibrium)					
42	Karna Badhirya, Karna Naada and Kshweda	2		3	1	12
	A) Karna Badhirya (Hearing loss, Otosclerosis).					
	B) National Programme for Prevention & Control					

	of Deafness.					
	C) Noise pollution.					
	D) Karna Naada and Kshweda (Tinnitus).					
43	Karna Srava and Putikarna	2	05	4	2	4
	Karna Srava (Otorrhea).					
	Putikarna (Otitis Media, Mastoiditis).					
44	Karnakandu, Karnaguthaka, Karnapratinaha, Krumikarna, Karnavidradhi, Karnapaka.	2		2	0	4
	A) Karnakandu, Karnaguthaka (Ear wax), Karnapratinaha.					
	B) Krumikarna (Maggots in Ear), Karnavidradhi, Karnapaka (Otitis Externa), Otomycosis.					
45	Rhinitis	2		1	2	0
	Rhinitis.					
46	Deeptadi Nasaroga.	2		3	1	2
	Deepta,Putaka, Nasaparishosha, Bhramshathu, Nasanaha, Kshavathu, Peenasa, Apeenasa, Putinasa (Sinusitis).					
47	Nasavamsha-kutilatwa (Deviated Nasal Septum).	2	10	1	1	0
	Nasavamsha-kutilatwa (Deviated Nasal Septum).					
48	Dantamulagata roga	2		2	1	0
	A) Sheetada, Dantaveshtaka, Paridara, Upakusha (Gingivitis, Periodontitis).					
	B) Adhimaamsa (Impacted wisdom tooth).					
	C) Dantanaadi.					
	D) Dantavidradhi (Apical abscess).					
49	Jihvagata Roga	2		1	1	0
	A) Jihvakantaka (Glossitis).					

	B) Alaasa.					
	C) Ankyloglossia (Tongue tie).					
50	Krimidantaka and Dantaharsha	2		1	1	0
	A) Krimidantaka (Dental Caries).					
	B) Dantaharsha (Dentin Hypersensitivity).					
51	Dravyas used in Karna Nasa Mukha Roga Chikitsa-1	2		1	0	2
	A) Common Pharmacological agents in Oto-Rhino- Laryngology (Antibiotics, Anti-histamines, PPIs, Steroids, Nasal Decongestants).					
	B) Sammohan Dravyas in Karna Nasa Mukha Roga (Anaesthesia in Oto-Rhino-Laryngology).					
52	Karnarsha and Karnarbuda	3	10	1	0	0
	Karnarsha (Aural Polyps).					
	Karnarbuda.					
53	Karnasandhana	3		1	1	0
	Karnasandhana (Auroplasty)					
54	Bhraamara (Vertigo)	3		1	1	2
	Bhraamara (Vertigo- Benign Paroxysmal Positional Vertigo, Meniere's disease, Labyrinthitis).					
55	Agantuja Shalya in Karna	3	10	0	1	2
	Agantuja Shalya in Karna (Foreign Body in Ear).					
56	Nasarsha	3		1	1	2
	Nidan Panchaka and Chikitsa of Nasarsha (Nasal polyps).					
57	Nasagata Raktasrava	3		1	1	2
	Nidana Panchaka and Chikitsa of Nasagata Raktasrava (Epistaxis).					
58	Nasarbuda	3		1	1	2
	Nasarbuda (Tumors of nose and paranasal sinuses).					

59	Agantuja Shalya in Nasa	3	10	1	0	2
	Agantuja Shalya in Nasa (Foreign Body In nose).					
60	Nasa-abhighata, Nasasandhana	3		1	0	2
	Nasa-abhighata (Nasal trauma). Nasasandhana.					
61	Talugata Roga	3		2	1	0
	A) Galashundika (Uvulitis)					
	B) Tundikeri					
	C) Kacchapa (Tumours of hard palate)					
	D) Gilayushotha (Tonsillitis)					
	E) Arbuda					
	F)Talushosha					
	G) Talupaaka					
62	Kantharoga	3		4	2	6
	A) Rohini					
	B) Kanthashaluka					
	C) Ekavrunda, Vrunda (Pharyngitis)					
	D) Svaraghna (Laryngitis, Ca Larynx)					
	E) Maamsatana					
	F) Vidaari					
	G) Gilayu, Galavidradhi, ( Peritonsillar abscess, Para & Retro-pharyngeal abscess)					
	H) Parotitis					
	I) Agantuja Shalya in Kantha (Foreign Body in throat)					
63	Dravyas used in Karna Nasa Mukha Roga Chikitsa-2	3		1	1	2
	Samanya Yogas used in Shiro, Karna, Nasa and Mukha Roga.					

Total Marks         100         50         30         70
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Paper 1	er 1 (Netraroga (Ophthalmology))									
A3 Cour se out come	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
Topic 1	Shareera, Nidaana Panchaka of Netraroga. (LH :2 NLHT	: 2 NLHI	<b>P: 6</b> )		-					
A3	B3	C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1	Define Paribhasha of Shalakya Tantra.Explain Netra Rachana Shareera (Anatomy of Eye).	CC	МК	KH	L	QZ ,VV-Vi va,PUZ,M- POS	F&S	Ι	V-RS,V- RS	LH
CO1	Explain Kriya Shareera of Netra (Physiology of vision).	CC	МК	KH	D-M,PE R,L&PP T ,TPW	CL- PR,COM	F&S	Ι	V-KS	NLHT1.1
CO1, CO2	Explain Classification of Netraroga according to treatment principles, prognosis, and Doshadhikya and Explain Saama- Nirama Lakshana.	CC	MK	KH	L&GD, DIS	P-POS,QZ , T- OBT,COM	F&S	Ι	V-RN	NLHT1.2
CO2	Describe Samanya Hetus (Nija and Agantuja), Purvarupa, and Samprapti of Netraroga.	CC	МК	KH	BS,L&P PT	M-CHT,V V-Viva,P- EXAM	F&S	Ι	-	LH
CO3, CO7	Perform History taking in cases of Netraroga.	CAN	МК	SH	PBL,ED U,PT,T UT,D- BED	Mini-CEX, P-PRF,P-E XAM,P- VIVA	F&S	Ι	-	NLHP1.1
CO3, CO7	Follow the steps in performing the structural examination of Netra.	PSY- GUD	МК	SH	TUT,PT ,D-BED ,D,CBL	Mini-CEX	F&S	Ι	-	NLHP1.2

CO3, CO7	Follow Distant ocular r	the steps in performing the visual acuity assessment vision, near vision, colour vision, field of vision, and notility.	for 1	PSY- GUD	МК	SH	D,RP,P T,PBL	Mini-CEX, PP-Practica 1,P-PRF	F&S	Ι	-	NLHP1.3
Non Lo	Non Lecture Hour Theory								-			
S.No	Name of Activity         Description of Theory Activity					Activity						
NLHT	1.1	Discussion on Netra Kriya Shareera in its Applied aspect.	<ul> <li>A) The teacher will provide the link of the material needed or the physical material.</li> <li>Ask the Students to study, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness.</li> <li>Ask the student to connect the knowledge gained in previous classes into applicable clinical framework.</li> <li>B)Make small groups, subdivides subject into smaller topics and asks student to make power point presentations in the class.</li> <li>PowerPoint presentations should be assessed on following criteria- content, focus, clarity and coherence, in-depth analysis, grammar and spelling, delivery of the material, audience engagement, handling nerves, effective use of visual aids.</li> <li>OR</li> <li>C) Learning on eye models can be done for better understanding. Ask the students to compile information and conclusion of discussions. Compilations can be assessed on criteria like Content Accuracy, Completeness, Organization, Clarity of language and explanation of technical terms, Consistency, Uniform presentation of citations and references.</li> <li>D) Guidance from faculty of Kriya Shareera can be taken if needed.</li> </ul>									
NLHT	1.2	Classification and Saama Nirama Lakshana of Netraroga.	<ul> <li>A)Make three groups for classification of Netraroga. The presentation on the topic should be prepared and uploaded on a website created for the stuffree cross-platform messaging services like Whatsapp or Telegram or Learning platforms like classroom. They should be also instructed to go through the textbooks and read this topic. They should make posters and present in classroom, try to find Mnemonics to remember</li> </ul>				e students or like google					

	<ul> <li>classifications.</li> <li>B) Make two groups to understand Saama Niraama Lakshanas.</li> <li>Ask the students to go to library and ask for Librarian's help. They should be asked to subdivide subtopics amongst themselves and split time between different activities like searching for articles, reading and taking notes.</li> <li>Ask the Students to have a group discussion on the topic and prepare a compilation.</li> <li>Encourage open sharing by stating that all ideas are welcome without judgment. Encourage participants to expand on each other's suggestions. Emphasize the importance of listening attentively to all contributions.</li> <li>C) Help from Faculty of Roga Nidana can be taken for better understanding of concepts.</li> <li>D) An open book test or quiz can be conducted to assess the students learning. Evaluation of compilation can be done on criteria like Content Accuracy, Completeness, Organization, Clarity of language and explanation of technical terms, Consistency, Uniform presentation of citations and references.</li> </ul>

## Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 1.1	History taking in cases of Netraroga.	<ul> <li>A) Encourage students to teach each other history taking techniques, which reinforces their learning and builds confidence.</li> <li>Have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions</li> <li>Make Student introduce himself to patients.</li> <li>Ask Student to make patients comfortable.</li> <li>Ask Student to take general history and history related to eye diseases.</li> <li>Make student Understand Ocular diseases with diminution of vision and normal vision.</li> <li>OR</li> <li>B) Utilize advanced simulation technology to create realistic patient scenarios.</li> <li>Engage students with virtual patient software that simulates real-life scenarios, helping them practice history taking and clinical reasoning skills.</li> </ul>

		<ul> <li>OR</li> <li>C) Recommend apps like geekymedics, wikimeds that offer virtual practice and conduct quizzes on history-taking skills.</li> <li>D) Conduct OSCEs where students rotate through stations to practice history taking and communication skills. The assessor should use checklists to evaluate students' performance in a reliable and consistent way.</li> <li>E) Communication skills can be assessed by Kalamazoo essential elements communication checklist.</li> <li>OR</li> <li>F) Use MINI-CEX As an evaluation method. The format can be downloaded from https://www.ranzcr.com/images/20211015_RO_Mini-CEX_Assessment_Form.pdf. A similar format can be developed.</li> </ul>
NLHP 1.2	Structural Examination of Netra.	<ul> <li>A) Prepare the students for examination of all Mandalas, Patalas and Sandhis.</li> <li>Explain parts of Mandalas, Patalas and Sandhis.</li> <li>Explain why examination is crucial for diagnosis.</li> <li>B) Conduct live demonstrations with real or simulated patients to model effective case taking.</li> <li>OR</li> <li>Use videos of experienced clinicians.</li> <li>OR</li> <li>C) Use standardised patients (actors trained to simulate real patient cases) to perform a step-by-step demonstration in a controlled environment.</li> <li>Emphasize key points like technique, safety and anatomical landmarks.</li> <li>D) Teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>Use Mini-CEX. for assessment</li> <li>o Observe a Student's interaction with a patient in a real-world clinical setting</li> <li>o Rate the performance of student using a 9-point scale: 1 through 3 is unsatisfactory, 4 through 6 is satisfactory, 7 through 9 is superior.</li> <li>o The student receives immediate feedback from the expert</li> <li>E) Provide constructive feedback on their performance, highlighting areas of improvement and</li> </ul>

		excellence.						
NLHP 1.3	Functional examination of Netra.	<ul> <li>A) Present a clinical case of diminution of Vision and have students work in groups to gather history, discuss differential diagnosis, and plan management.</li> <li>Encourage the students for Assessment of visual acuity with the help of Snellen's chart, Assessment of colour vision with Ishihara's chart, Pin hole examination and Assessment of near vision, The finger tip method to assess intraocular pressure and Testing of Ocular motility.</li> <li>OR</li> <li>B)Assign roles to students, such as the patient, the primary care provider, and an observer. Rotate roles to ensure each student gets to practice different aspects of management.</li> <li>Give clear instructions and guidelines for the role-play scenarios.</li> <li>C) Break students into small groups for more focused practice and individualised feedback.</li> <li>Highlight the role of active listening.</li> <li>D) Use Mini-CEX for assessment of students</li> <li>o Observe a Student's interaction with a patient in a real-world clinical setting</li> <li>o Rate the performance in areas like history taking, physical examination, and counselling skills</li> <li>o The student receives immediate feedback regarding performance and suggestions for improvement</li> </ul>						
Topic 2 Samanya Chikitsa and Kriyakalpa. (LH :3 NLHT: 3 NLHP: 8)								

A3	B3	C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO6	Enumerate Kriyakalpa, Define and Describe types and dose, Indications and contraindications, Poorva, Pradhana and Pashchat Karma, Kala, Ayoga, Samyak yoga and Atiyoga lakshanas of Seka.Define and Detail Indications and contraindications, Poorva, Pradhana and Pashchat Karma of Pindi and Vidalaka.	CC	МК	КН	L&PPT ,L	QZ ,T-OBT	F&S	Ι	-	LH
CO5	Define, Describe types and dose, Indications and contra indications, Poorva, Pradhana and Pashchat Karma, Kala, Ayoga,	СК	NK	КН	PER,FC ,L&GD	PA,CR-RE D,T-CS,PR	F	Ι	-	NLHT2.1

	Samyak and Atiyoga lakshanas of Aschyotana.List the key findings of current research on Aschyotana, Seka, Pindi and Vidalaka.					N,O-QZ				
CO6	Demonstrate Seka and Pindi. Take informed consent and counsel patients for Kriyakalpas in a simulated environment.	PSY- MEC	МК	SH	D,D-M, TUT,RP ,TBL	P-PRF,DO PS,DOPS,P -EXAM,D OAP	F&S	Ι	-	NLHP2.1
CO5	Define and Discuss Types and dose, indications and contra indications, Poorva, Pradhana and Pashchat karma, Kala, Ayoga, Samyakyoga and Atiyoga Lakshanas, complications and management of Tarpana and Putapaka.	CC	МК	КН	L&PPT ,L	PRN,M-CH T,COM,QZ ,VV-Viva	F&S	Ι	-	LH
CO5	List the key findings of current research on Tarpana and Putapaka.	СК	NK	K	DIS,TB L,LS	CR-RED,M- POS	F	Ι	-	NLHT2.2
CO6, CO7	Demonstrate Vidalaka and Aschyotana.	PSY- MEC	МК	SH	D-M,T UT,SIM ,D,PT	DOPS,P-P RF,DOPS,P P-Practical, Log book	F&S	Ι	-	NLHP2.2
CO5	Summarise the steps involved in Tarpana and Putapaka.	CC	МК	КН	D-M,SI M,TUT, PT,D	VV-Viva,P- VIVA,O- QZ	F&S	Ι	-	NLHP2.3
CO5	Define and Explain Types and Dosage, Indications and contraindications, Poorva- Pradhana and Paschat karma, Kala, Heena, Samyaka and Atiyoga lakshanas, Complications of Anjana.Describe Anjana Shalaka.	CC	МК	КН	L&PPT ,L	T-CS,M-P OS,PRN,V V-Viva,QZ	F&S	Ι	-	LH
CO5	List the key findings of current research on Anjana.	СК	NK	K	DIS,L& GD,LS	SA,CR- RED	F	Ι	-	NLHT2.3
CO5,	Summarise the steps involved in Anjana.	CC	МК	КН	ML,SI	VV-Viva,P	F&S	Ι	-	NLHP2.4
CO6, CO7		M,PT,D P-Practical, Log book,P -VIVA,O- QZ								
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Non Lecture	e Hour Theory									
S.No	Name of Activity	Description of Theory Activity								
NLHT 2.1	Details of Aschyotana and Researches studies on Aschyotana, Seka, Pindi and Vidalaka.	<ul> <li>A) Aschyotana (25 minutes) Teacher will form study groups to discuss and share information regarding Aschyotana. Ask the students to study themselves, discuss with peers, review each other's notes and finally make short notes and record what they have learnt. At the end of session, make students to have group discussions in the class, which will be summed up by the teacher. Utilize pre-class online quizzes or short assignments to gauge students' prior knowledge and preparation for the in-class activities; During class discussions, assessment of engagement can be done by criteria like student participation, level of curiosity, and willingness to ask questions. </li> <li>B) Researches on Aschyotana, Seka, Pindi and Vidalaka.(25 minutes)</li> <li>Ask the students to form four groups and collect relevant research papers and articles, on the topic. Ask them to go to library and ask for Librarian's help.(Pre-class) Make them subdivide subtopics amongst themselves and split time between different activities like searching for articles, reading and taking notes. Ask them to familiarise themselves with tools like EndNote, Zotero, or Mendeley to collect information about primary and secondary sources, such as journal articles, and books. At the end of session, have group discussions in the class, each group 04 minutes; which will be summed up by the teacher. To evaluate the performance, Peer assessment can be done.</li></ul>								
NLHT 2.2	Review of Research studies on Tarpana and Putapaka.	A)Teacher will form four study groups to discuss and share information- Two each for Tarpana and Putapaka. Teacher can subdivide subtopics amongst the students and split time between different activities like searching for articles, reading and taking notes. Students will study themselves, discuss with peers, review each other's notes.(Pre-class) OR B)Teacher will ask the students to go to library and ask for Librarian's help, Students can be asked to								

		familiarise themselves with tools like EndNote, Zotero, or Mendeley and collect information from primary and secondary sources, such as journal articles, books etc.(Pre-class) C) At the end of session students must be asked to summarize and record what they have learned.They should make posters and present in the class. A time of 10 minutes should be alloted to each group. Evaluation of posters- To evaluate Consider criteria like Overall impression, Blank Spaces, Balance, Relation between text and graphs, Text size, Structure and reading fluency, Contents.
NLHT 2.3	Discussion on Research studies on Anjana.	<ul> <li>A) Teacher will form study groups to discuss and share information, Students will study themselves, discuss with peers, review each other's notes.(Pre-class)</li> <li>Students will be asked to go to library and ask Librarian's help, Teacher can subdivide subtopics amongst them and split time between different activities like searching for articles, reading and taking notes. Students will be asked to familiarise themselves with tools like Zotero, to collect information about primary and secondary sources, such as journal articles, books. (30 min. of the class time.)</li> <li>At the end of session, they should summarize what they have learned. Choose randomly two students from each group to present (05- 10 min. each)</li> <li>B) Students should be encouraged to reflect on their own performance and identify areas for improvement. Self-assessment can be done on parameters like:- Team work and collegiality, empathy and openness, ethical awareness, work planning, scientific method of working, structuring, coping with mistakes, and priorities.</li> </ul>
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 2.1	<ul><li>A) Procedures of Seka and Pindi.</li><li>B) Method of taking Informed consent from patients.</li></ul>	<ul> <li>A) Ask the Students to observe and perform the procedures under supervision.</li> <li>OR</li> <li>B)Teacher may show recorded procedures to give students a realistic view of the process. Pause at key moments to explain important steps. Explain each step thoroughly, including the rationale behind each action.</li> <li>OR</li> </ul>

		<ul> <li>C) Use anatomical models, diagrams, and 3D animations to illustrate.</li> <li>D) Provide students with procedural checklists to help them remember the steps and ensure nothing is missed.</li> <li>E) Promote teamwork and collaboration among students, encouraging them to learn from each other's experiences.Stress the importance of maintaining professionalism, confidentiality, and empathy towards patients.</li> <li>Evaluation can be done by Direct Observation of Procedural Skills (DOPS)</li> </ul>
		• The trainee receives constructive feedback that focuses on essential skills.
		<ul> <li>An assessor observes a trainee performing a procedure.</li> <li>The assessor records their observations on a structured form.</li> <li>The assessor provides immediate feedback to the trainee.</li> <li>Proforma for DOPS can be found at https://www.iscp.ac.uk/static/public/DOPSJul2015.pdf.</li> </ul>
		<ul><li>F) Ask the Students to learn to take informed consent for Kriyakalpas by role play.</li><li>G)Assign roles to students, such as the patient, the primary care provider, a nurse, and an observer.</li><li>Rotate roles to ensure each student gets to practice different aspects of management.</li></ul>
NLHP 2.2	Demonstration on Vidalaka and Aschyotana.	<ul> <li>A) Ask the students to observe and perform the procedures under supervision.</li> <li>B) Teacher may show recorded procedures to give students a realistic view of the process. Pause at key moments to explain important steps. Explain each step thoroughly, including the rationale behind each action.</li> <li>OR</li> </ul>
		<ul> <li>C) Use anatomical models, diagrams, and 3D animations to illustrate.</li> <li>D )Provide students with procedural checklists to help them remember the steps and ensure nothing is missed.</li> <li>E) Promote teamwork and collaboration among students, Stress the importance of maintaining professionalism, confidentiality, and empathy towards patients. Ask the students to maintain log book.</li> </ul>

		G)Evaluation can be done by Direct Observation of Procedural Skills (DOPS)
		• The trainee receives constructive feedback that focuses on essential skills.
		<ul> <li>An assessor observes a trainee performing a procedure.</li> <li>The assessor records their observations on a structured form.</li> <li>The assessor provides immediate feedback to the trainee.</li> </ul>
NLHP 2.3	Discussion on Tarpana and Putapaka.	<ul> <li>A) Divide students into groups of 04-06 students. Ask the students to observe the technique of preparation of Mashapali, administration of Tarpana, preparation of Putapaka Rasa and administration of Putapaka and outcomes.</li> <li>Teacher may show recorded procedures to give students a realistic view of the process. Pause at key moments to explain important steps. Explain each step thoroughly, including the rationale behind each action.</li> <li>OR</li> <li>Use anatomical models, diagrams, and 3D animations to illustrate.</li> <li>B)Provide students with procedural checklists to help them remember the steps and ensure nothing is missed.</li> <li>C) Promote teamwork and collaboration among students, encouraging them to learn from each other's experiences. Stress the importance of maintaining professionalism, confidentiality, and empathy towards patients.</li> <li>D) Conduct online quiz to evaluate students.</li> </ul>
NLHP 2.4	Procedure of Anjana.	A) Divide the students into groups of 04-06. Ask the Students to observe the procedures while being conducted in hospital, under supervision. OR

Topic 3	3 Panch	akarma and Netraroga. (LH :0 NLHT: 1 NL)	B)Teac momen action. OR C)Use a D) Prov missed. E) Pror experie towards F) To a	her may ats to exp anatomic vide stude note tean ences.Stre s patients assess, use	show record lain import al models, ents with p nwork and ess the imp s. e online qu	diagrams diagrams rocedural collabora ortance of iz or eval	edures to giv Explain eac , and 3D ani checklists to tion among a maintaining uate the log	re students a mations to ill o help them r students, enco g professiona book.	realistic vie ghly, inclu ustrate. emember t ouraging th lism, confi	ew of th iding the he steps nem to 1 dentiali	e process. e rationale and ensu earn from ty, and en	Pause at key e behind each re nothing is each other's npathy		
A3		B3		<b>C3</b>	D3	E3	F3	G3	H3	I3	K3	L3		
CO2, CO5	Enlist th (Snehar indicate	ne diseases in which Poorvakarmas of Panchakarma na / Swedana) and Panchakarmas are indicated and co d in Netraroga.	ontra-	СК	NK	К	L&GD, DIS,LS	M-POS	F&S	I	-	NLHT3.1		
Non Le	ecture H	lour Theory					· · · ·			•				
S.No		Name of Activity	Descri	ption of	Theory A	Activity								
NLHT 3.1       Indications and contraindications of Poorvakarma and Vamana, Virechana, Basti, Nasya, Raktamokshana In Netraroga.				<ul> <li>A) Teacher will divide the students into 06 groups.</li> <li>Ask the Students to visit the library and collect related references from Samhita and prepare posters on the indications and contraindications of Panchakarma related to Netraroga.(Pre-class)</li> <li>Make students present their work in the classroom (05 minutes to each group).</li> <li>Conduct a brief discussion, (15- 20 min.)encouraging students to come out with their views regarding the logic behind it. Evaluate them on criteria like Communication skills, Teamwork, Critical thinking, Body language, Interpersonal skills.</li> </ul>										

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		B) A c C) Ass and Us	constructiv sess the pose of prop	ve feedback osters on for er and relia	k with guid ollowing p able Data-:	delines for oints- Che source.	r improvements posing the right	can be gi type; Des	ven. ign for o	clarity and	l simplicity;
Non L	ecture Hour Practical	I									
S.No	Name of Practical	Descr	iption of	Practica	l Activity						
Topic	4 Sanjnaharana in Netraroga. (LH :0 NLHT: 1	1 NLHP: 0)									
A3	B3		C3 D3 E3 F3 G3 H3 I3 K3 L3								
CO5	Define Sanjnaharana (Anesthesia).Enlist types and de Anesthesia in Ophthalmology.Describe dosage, indic contraindications and untoward effects. (Topical/Sur anaesthesia - Lidocaine, Amethocaine, Proparacaine)	rugs used for cations, face ).	CC	DK	КН	FC	T-OBT,QZ	F&S	Ι	-	NLHT4.1
Non L	ecture Hour Theory										
S.NoName of ActivityDescription of Theory ActivityNLHT 4.1Sanjnaharana in Netra (Anesthesia in Ophthalmology) -A)The topic is assigned to students using the flipped method. The students will be given a link to a PowerPoint presentation on Sanjnaharana The presentation on the topic should be prepared and uploaded on a website cree free cross -platform messaging services like Whatsapp or Telegram or blended google Classroom. They should be also instructed to go through the textbooks and read this topic.(I They should be given 1 week time before the scheduled Flipped Class Room fo can be divided into 3 groups .one group can be given a job of enlisting the types eye and names of the drugs.Second group can be given a topic- dosage and indi drugs. Third group can be asked to prepare Indications and contraindications of would present in the class. (10 min. to each group.)						eated for the learning pere-class) r this topi s of anaes cations of anesthetic	ne students or blatforms like c.The class thesia used in c anaesthetic c drugs. They				

			B)Th the f to cla	ne students v form of Quiz arify concep	will be ask zzes or ope ots. (20 min	ed comple n book tes n.)	etion type, 1 st for assess	eason assertionsment.Students	n type, and will be al	d proble so enco	em-based o puraged to	questions in ask questions
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Des	cription of	Practical	Activity	<b>7</b>					
Topic	5 Sand	higata Roga -1 (LH :3 NLHT: 0 NLHP: 2)	)									
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO5	Describ and des	e clinical features and management of Pooyalas cribe types of Dacryocystitis.	a.Define	CC	МК	КН	PBL,L, L&PPT	P- VIVA,QZ ,T-OBT	F&S	Ι	-	LH
CO2, CO5	Describ manage	e etiology, clinical features, complications and a ment of acute and chronic Dacryocystitis.	medical	CC	DK	КН	L&PPT	T-OBT	F&S	Ι	-	LH
CO2, CO5	Describ - Dacry (Their i surgica manage	be surgical management of Chronic Dacryocystit ocystorhinostomy (DCR), Dacryocystectomy (I ndications, contra indications, type of anaesthes I steps, post-operative care, complications and the ement in brief).	tis DCT):- sia, major heir	CC	DK	КН	L&PPT ,L	INT, C- VC,QZ ,P- POS,T- OBT	F&S	I	-	LH
CO3	O3 Examine Netra-sandhi.Follow the steps in performing regurgitation test of the lacrimal sac and observe sac syringing.			PSY- GUD	DK	SH	D-BED, D-M,RP ,L_VC, CBL	OSCE,DOP S,P-EXAM, DOPS,CH K	F&S	I	-	NLHP5.1
Non L	ecture H	Iour Theory			1		-1		L		1	
S.No		Name of Activity	Dese	cription of	Theory A	Activity						
Non L	ecture H	Iour Practical										

S.No	Name of Practical	Description of Practical Activity										
NLHP 5	5.1 Evaluation of Netra-sandhi and Dacryocystitis.	<ul> <li>A) Examine Net Make students e Scarring.</li> <li>Explain why exa Conduct live den OR Use standard demonstration in landmarks</li> <li>Teach students t interactions.</li> <li>B) OSCE station</li> <li>The assessor sho</li> <li>C) Regurgitation</li> <li>Make students d</li> <li>Emphasize key p</li> <li>Teach students t</li> <li>interactions.</li> <li>C) Observation of Make Students c</li> <li>step wise checkl</li> <li>For assessment of</li> </ul>	ra-sandhi.( xamine all amination is monstratior dised patien a controlle he importa he importa s -Each stu ould use che a test of the emonstrate points like the importa of Lacrimal observe the ist so they checklist ca	60 min.) Sandhis in s crucial f as with rea ats (actors ed enviror nce of bui ident shou ecklists to lacrimal the techn echnique, nce of bui sac syring technique do not mis	n eye. They or diagnosi al or simula trained to s ment. Emp lding rappo ild be given evaluate st sac ( 30 min ique for the safety, ana lding rappo ging (30 min e of Lacrima ss any step each step h	will check for s. ted patients to simulate real p phasize key po ort and demons a the same mod udents' perform nutes ) e regurgitation atomical landmort and demons nutes) al sac syringin while observin naving specific	r any Redr model eff patient case ints like te strating em del or simu mance in a test of the narks. strating em g.They wi ng the proce c marks.	ective c ective c es) to pe chnique upathy d lated p lated p Lacrim upathy d ll be pro- cedure.	rowth, Defe case taking erform a ste e, safety, a luring patie atient for a e and cons nal sac. luring patie ovided wit	ormity or ep-by-step natomical ent issessment. istent way. ent h a proper		
Topic 6	5 Sandhigata Roga -2 (LH :1 NLHT: 1 NLHP: 0)	1										
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3		
CO2	Describe samprapti of Netrasrava and Clinical features of	CC	MK	KH	L,L&PP	INT,O-QZ,	F&S	Ι	-	LH		

2	Describe samprapti of Netrasrava and Clinical features of Pooyasrava, Kaphaja Srava, Raktaja Srava and Pittaja Srava.Give	CC	МК	КН	L,L&PP T ,DIS	INT,O-QZ, T-OBT,VV-	F&S	Ι	-	LH
	an account of Clinical features and Chikitsasutra of Upanana.					V1Va				

CO2	Differe	ntiate between Epiphora and Hyperlacrimation.		CC	МК	KH	LS,L& GD,DIS	T-OBT,INT ,CL-PR,DE B,VV-Viva	S	Ι	-	NLHT6.1
Non L	ecture H	Iour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT	HT 6.1       Differential Diagnosis and causes of Epiphora and Hyperlacrimation.       A) Make atleast four study groups to discuss and share information, each for Differential Diagnos and causes of Epiphora and Hyperlacrimation. Ask Students to study themselves, discuss with peers, review each other's notes and findings to en accuracy and comprehensiveness. OR B) Make students to visit library for library session (20 minutes). Divide subtopics amongst the students by making atlest 4 groups and ask them to read relevant literature about the differences between Epiphora and Hyperlacrimation, and have a group discuss which will be followed by a presentation (30 minutes - 5 min for each presentation and 10 minute 							Diagnosis ngs to ensure evant discussion, minutes for ingness to nce, in-depth nerves and				
Non L	Non Lecture Hour Practical											
S.No		Name of Practical	Descr	ription of	Practical	Activity						
Topic '	7 Sandl	higata Roga -3 (LH :2 NLHT: 0 NLHP: 0)										

A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO5	Describ Krimigi	e clinical features and management of canthi.Define and Enumerate types of Blepharitis.		CC	MK	КН	L&PPT	VV-Viva,T- OBT	F&S	Ι	-	LH
CO2, Explain etiology, clinical features, complications, and treatment of Ulcerative and Seborrhoeic blepharitis.Describe clinical features and Chikitsasutra of Parvani; and clinical features of Alaji.				CC	DK	КН	L&PPT ,L	T-OBT,QZ	F&S	Ι	-	LH
Non L	ecture H	lour Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
Non L	ecture H	lour Practical										
S.No		Name of Practical	Desci	ription of	Practica	l Activity	7					
Topic	8 Vartn	nagata Roga-1 (LH :4 NLHT: 1 NLHP: 6)										
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO2, CO5	Describ Describ and mar	e clinical features and management of Anjananamik e types of Hordeolum.Describe etiology, clinical fea nagement of External and Internal Hordeolum.	a. tures	CC	МК	КН	L&PPT	VV-Viva,T- CS	F&S	Ι	-	LH
CO2, CO5	Describ Lagana. surgical	e clinical features and management of Utsangini and Describe the etiology, clinical features, and medical management of Chalazion.	and	CC	МК	КН	L&PPT	VV-Viva,T- CS	F&S	Ι	-	LH
CO2, CO5	Describ Pakshm and prir	e clinical features and management of akopa.Describe etiology, clinical features, complica- nciple of treatment in Trichiasis and Entropion.	tions	CC	DK	КН	L&PPT	T-CS,VV- Viva	F&S	Ι	-	LH
CO2, CO5	Describ of treatr	e etiology, clinical features, complications and princ nent in Ectropion.Describe clinical features and	iple	CC	NK	КН	L&PPT	T-CS,VV- Viva	F&S	Ι	-	LH

management of Pakshmashata.												
CO3, CO5	2O3, Discuss and Diagnose, Ectropion and Entropion. 2O5			CAN	DK	KH	DIS,PB L,TBL	CL-PR,QZ	F	Ι	-	NLHT8.1
CO3	CO3 Examine of Bhru (eyebrow), Pakshma (eye lashes), Pakshmavartmasandhi (lid margin) and Vartma (eye lid).			PSY- MEC	MK	SH	TUT,PB L,L_VC ,D-BED	P-EXAM,P -VIVA,OS CE	F&S	Ι	-	NLHP8.1
CO5	CO5 Summarise the steps involved in the incision and curettage (I&C) for treating a Chalazion.			CC	DK	KH	D,CBL, L_VC	CHK,Log book,OSCE	F	Ι	-	NLHP8.2
CO3, CO4, CO7	Demons and Ectr Epilatio	strate assessment of Pakshmakopa (Trichiasis / Entro ropion.Demonstrate misdirected eyelash removal by n.	pion)	PSY- GUD	DK	SH	D-BED, L_VC,P BL,ML	SP,Mini- CEX,OSCE	F&S	Ι	-	NLHP8.3
Non Le	Non Lecture Hour Theory											
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT 8	3.1	Diagnostic Approaches to Eyelid Malposition: Entropion and Ectropion.	<ul> <li>A) Share a link about explanation of subject by free messaging services or Google classroom.(Preclass). Make four groups to discuus the subject. Encourage students to actively participate in interactive activities and apply their understanding of Entropion and Ectropion. OR</li> <li>B) Present cases of entropion and ectropion. Have students work in pairs or small groups to discuss symptoms and propose treatments, then share insights, focusing on key clinical signs and diagnostic approaches.</li> <li>C) Give 10 minutes to each group to present in the classroom.</li> <li>D) Assess students individually or in small groups using a quiz format, including multiple-choice and short-answer questions on the etiology, signs, symptoms, and management of entropion and ectropion. OR</li> <li>Assess presentation on its clarity of information, logical organization, visual appeal, scientific soundness, and whether key elements are presented clearly and concisely,</li> <li>E) Briefly diagnee the enymone to present of entropion and ectropion.</li> </ul>							om.(Pre- in o discuss diagnostic -choice and nd ectropion. tific		

Non Lecture I	Non Lecture Hour Practical									
S.No	Name of Practical	Description of Practical Activity								
NLHP 8.1	Examination of Periocular Structures - Bhru (Eyebrow), Pakshma (Eyelash), Pakshmavartmasandhi (Lid Margin), and Vartma (Eyelid).	<ul> <li>A) Ask students to carefully inspect these areas/structures for any anomalies that may compromise ocular health, comfort, and vision.</li> <li>B)Integrate clinical scenarios at the patient's bedside/OPD, allowing students to apply learned skills in a real-world context.</li> <li>C) Encourage students to formulate diagnostic hypotheses based on patient history, guiding their physical examination to focus on relevant findings.</li> <li>Emphasize key points like technique, safety, anatomical landmarks.</li> <li>Teach students to carefully observe patient appearance, skin color, swellings, and any other visible abnormalities.</li> <li>Emphasize appropriate hand placement, pressure application, and how to differentiate textures, masses, and tenderness.</li> <li>D) Teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>E) Provide constructive feedback on their performance, highlighting areas of improvement and excellence.</li> <li>F) Students can be assessed with the help of OSCE stations:</li> <li>They should be assessed on competency in communication, history taking, physical examination, clinical reasoning, and knowledge.</li> <li>OSCE stations may include:</li> <li>Clinical interactions (in-person or virtual) with standardized patients: counseling, examination, history taking</li> <li>Examination of mannequins and interpretation of findings</li> <li>Computerized cases</li> <li>Test Interpretation.</li> </ul>								
NLHP 8.2	Incision and curettage (I&C) in Chalazion	A) Instruct students to observe and learn the incision and curettage (I&C) procedure for chalazion .								

	surgery.	<ul> <li>B) Demonstrate surgical instruments and each phase of the procedure, instructing students to note the surgeon's techniques.</li> <li>C)Teach students about post-operative care, including monitoring for complications and managing patient recovery.</li> <li>OR</li> <li>D) Record surgeries (with patient consent) for educational purposes. Reviewing these videos can help students learn and improve.</li> <li>OR</li> <li>E) Provide access to online surgical tutorials, webinars, and interactive platforms for additional learning.</li> <li>F) Students should be asked to make check lists and assess them. Alternatively, they can be asked to complete log books and they can be assesed.</li> <li>OR To assess, use OSCE covering steps of procedures, focusing on evaluating student's understanding of anatomy, surgical techniques, decision-making, patient management, and appropriate response to complications.</li> </ul>
NLHP 8.3	Cases of Eyelid Malposition: Pakshmakopa (Trichiasis, Entropion)and Ectropion; Trichiatic cilia removal by Epilation.	<ul> <li>A) Guide students to learn lid examination technique accurately and thoroughly, explaining rationale and key anatomical landmarks. Use a structured approach, breaking down complex examinations into smaller, manageable steps while making them aware of the Assessment of Pakshmakopa (Trichiasis/Entropion), and Ectropion.</li> <li>B) Emphasize proper patient positioning, communication skills, and ethical considerations.</li> <li>C) Students should Observe procedures under supervision.</li> <li>D) Select appropriate patients with relevant clinical presentations.</li> <li>OR</li> <li>E) Teacher can share a video clip of these condition and Epilation process and during practical hours may explain step by step through mobile or big screen.</li> <li>F) Demonstrate the procedure of removing misdirected eyelashes. Emphasize the importance of ethical conduct, patient-centered communication, and empathy throughout clinical teaching.</li> <li>G) Use Standardized assessments like Simulated Patients OR MINI-CEX to assess assessment skills objectively. Create realistic patient scenario with properly trained simulated patients. Assess teh</li> </ul>

			studen plans.	nts on Con	nmunicatio	n skills, Pl	hysical exa	mination skills	s, History	taking,	Developin	ig treatment
Topic	9 Vartn	nagata Roga-2 (LH :1 NLHT: 0 NLHP: 0)										
A3		B3		C3	D3	E3	F3	G3	H3	I3	К3	L3
CO2, CO5	Describe Sikatava Trachor	e clinical features and treatment of Pothaki and artma.Describe etiology, clinical features and treatmena.	ent of	CC	NK	KH	L&PPT ,L	VV-Viva,T- CS	F&S	II	-	LH
Non L	ecture H	our Theory				•				•		
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
Non L	ecture H	our Practical										
S.No		Name of Practical	Descr	ription of	Practical	Activity						
Topic	10 Vart	magata Roga -3 (LH :2 NLHT: 0 NLHP: 4)	-									
A3		B3		C3	D3	E3	F3	G3	H3	I3	К3	L3
CO2, CO5	Describ Nimesh treatmen	e clinical features of Vatahatavartma and a.Describe etiology, clinical features and principle o nt of Ptosis.	f	CC	NK	КН	L,L&PP T	VV-Viva,T- CS	F&S	II	-	LH
CO3, CO4, CO6, CO7	Present Abnorm	an appropriate history in a patient with complaints of al Eyelid Mobility.	of	САР	DK	КН	PBL	Mini-CEX	F&S	П	-	NLHP10.1
CO2, CO5	Describ Utklisht	e clinical features and management of Klinnavartma avartma.	and	CC	NK	КН	L&PPT	VV-Viva,T- CS	F&S	II	-	LH
1												

CO3, CO4, CO6, CO7	<ul> <li>Present an appropriate history in a patient with complaints of</li> <li>Vartma-shopha(lid edema).</li> <li>Vartma-shopha(lid edema).</li> </ul>		CAP	DK	КН	CBL,PB L	Mini-CEX	F&S	П	-	NLHP10.2		
Non Le	ecture H	Iour Theory						·					
S.No		Name of Activity	Desci	ription of	Theory A	Activity							
Non Lecture Hour Practical													
S.No Name of Practical				ription of	Practical	Activity	7						
NLHP	10.1	History Taking and Case Presentation: Assessment of Patients with Abnormal Eyelid Mobility.	A) To group proble When should docum Elicit: associ traum Docum assess Presen B)Wh	<ul> <li>maximize</li> <li>s to explore</li> <li>em-based (a evaluating</li> <li>d ask stude</li> <li>nentation,</li> <li>Gather fore</li> <li>iated symption</li> <li>a, and constant, constant, constant, constant, constant, constant, constant, constant</li> <li>Select a</li> <li>Actively differen</li> <li>Discuss improve</li> </ul>	e exposure re various of PBL) meth g and demo ents to focu and preciso cused info toms (droo tributing m ord the gath tinuity of c explain th ng with the suitable pay observe th t criteria lift the observement,	within the cases of all nods, rathe onstrating us on a tho e diagnosi rmation or oping, twith hedication hered info care, and f e patient's e help of N atient. he student ke history ations wit	e scheduled onormal eye er than focu the assessin orough histo s and treatm n eyelid mo tching, or di s or conditi- trimation acc uture refere history, hig MINI-CEX:	time, it is desi elid mobility the sing on a sing- nent of a patien ry, a comprehe nent tailored to bility issues, i ifficulty closin ons. curately in the nce. ghlighting key -	rable to or nrough real le case. nt with abr ensive exa to the identi- ncluding of g/opening patient's r points for ient, noting tion, and c g both posi	ganize ; l patient normal l minatio ified cau onset, du ), medical diagno g their p counsell tive asp	students in t interaction lid mobilition, accuration, accuration, sevical history record for sis and man performance ing skills.	ito small ins or y, the teacher e verity, , surgeries, diagnostic inagement. ce on the reas for	

		•	Give a co	onstructive	feedback	giving gui	delines for var	ious softw	are and	l apps to in	nprove skills.
NLHP	10.2 History Taking and Case Presentation: Assessment of Patients with Vartma-shopha(lid edema).	<ul> <li>A) To maximize exposure within the scheduled time, it is desirable to organize students into small groups to explore various types of lid edema through real patient interactions or problem-based (PBL) method, rather than focusing on a single case.</li> <li>The teacher should guide students to focus on obtaining a detailed history, performing a comprehensive examination, ensuring accurate documentation, and providing a precise diagnosis and treatment based on the identified cause.</li> <li>Elicit: Gather relevant information through focused questioning, including onset, duration, severity, associated symptoms (pain, redness, itching), medical history, medications, and potential triggers. Document: Record the gathered information accurately in the patient's medical record for diagnostic assessment, continuity of care, and future reference.</li> <li>Present: Clearly present the patient's history, highlighting key points for diagnosis and management.</li> <li>B) Use MINI-CEX as an assessment tool. Identify stregths and weaknesses in students and discuss with them the ways to improve their clinical skills.</li> </ul>									
Topic	11 Bhedana Karma (LH :0 NLHT: 1 NLHP: 2)										
A3	B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO5	Discuss Bhedana in Netraroga (Indications, Contraindicati Incision Techniques and Procedures; and to recognize and manage complications).	ions,	CC	MK	КН	BS,RP, TBL,L_ VC	QZ ,VV- Viva	F&S	II	-	NLHT11.1
CO5, CO7	Participate in the team for Bhedana Karma in Netraroga.		PSY- PER	MK	SH	L_VC,C BL,D,T UT	Log book,T R,CHK	F	II	-	NLHP11.1

## Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity	
NLHT 11.1	Discussion on Bhedana in Netraroga.	A) Present a short case of a condition requiring Bhedana (incision) in Netraroga. Ask students to	

	<ul> <li>brainstorm and discuss indications and contraindications in pairs or groups. (10 minutes)</li> <li>B) Discuss preoperative steps like consent, anaesthesia. Use checklist or flowchart. Have students role- play as surgeons preparing a patient. (10 minutes)</li> <li>C) Demonstrate proper Bhedana technique using simulated skin pads, gel models, or fruits. (10 minutes)</li> <li>D) Cover key postoperative care steps, including wound dressing, pain management, and infection monitoring. (5 minutes)</li> <li>E) Students should be divided into small groups, and let them identify and discuss managing complications of Bhedana. (5 minutes)</li> <li>F) Summarize key points on indications, contraindications, procedure steps, postoperative care, and complications. (5 minutes)</li> <li>G) Review and re-solve the problems they get wrong. It is preferable to provide self-evaluation in a simple form, such as a quiz.</li> </ul>
	simple form, such as a quiz.

## Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 11.1	Collaborative Observation of Bhedana Karma in Netraroga (Incision and Drainage/ Curettage).	<ul> <li>A) Students gain insight into the surgical techniques of Bhedana, aseptic practices, review relevant anatomy, basic steps of the Bhedana procedure (Incision and drainage / curettage), operating room etiquette, and understand a flow from preoperative counseling to discharge.</li> <li>OR</li> <li>B) A teacher may use recorded procedures, pausing to explain key steps and their rationale, or opt for live demonstrations.</li> <li>C) Focus on each step of the Bhedana karma (incision process), noting the surgeon's techniques for incision, tissue handling, and any instrument use.</li> <li>D) Encourage students to ask questions about the rationale for certain steps, techniques, or instruments, focusing on gaining insight into procedural reasoning.</li> <li>E) Observe and discuss post surgical procedures with peers.</li> <li>F) Assessment can be done by observing 360 degree behaviour of the student. The format can be based upon Feedback form like - https://abpn.org/wp-content/uploads/2024/04/ABPN-360-Degree-</li> </ul>

			Evaluation-Fe	edback-Forr	n.pdf						
Topic 1	12 Lekł	nana Karma. (LH :0 NLHT: 1 NLHP: 2)									
A3		B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO5	Discuss Technic complic	Lekhana in Netraroga (Indications, Contraindication ues and Procedures; and recognize and manage rations).	ns, AFT- VAL	МК	КН	L_VC,D ,RP,TB L	QZ ,VV- Viva	F&S	II	-	NLHT12.1
CO5, CO7	Particip	ate in the team for Lekhana Karma in Netraroga.	PSY- PER	МК	SH	D,TUT, L_VC,P BL	CHK,TR,L og book	F	II	-	NLHP12.1
Non Lo	ecture H	lour Theory	·					•	•		
S.No	S.No Name of Activity Description of Theory Activity										
NLHT	12.1	Procedure of Lekhana in Netraroga.	<ul> <li>A) Integrate practical skill-building with theoretical knowledge, ensuring students develop expertise in both the technical and clinical aspects of Lekhana procedures in Netraroga, from preparation to postoperative care and complication management. (10 minutes)</li> <li>B) Begin with a brief case presentation of a condition requiring Lekhana in Netraroga. Have students work in pairs or groups to brainstorm and share insights. Summarize key indications and contraindications for Lekhana. (10 minutes)</li> <li>Discuss Preoperative Preparations like patient consent, site cleaning, and anaesthesia. Use models or peers to simulate aseptic preparation, marking, and positioning. Reinforce steps with a checklist. (10 minutes)</li> <li>C) Demonstrate how to create precise, uniform strokes or cuts for controlled Lekhana, using models like canvas ball (tennis ball). (5 minutes)</li> <li>Discuss Postoperative Care and Enlist complications and encourage groups of 4-6 students to analyze and discuss recognizing and managing potential complications of Lekhana among themselves. (5 minutes).</li> <li>D) Summarize and encourage questions and clarifications. (5 minutes)</li> </ul>						op expertise in tion to ave students e models or tecklist. (10 ing models ts to analyze elves. (5		

Non L	ecture Hour Practical										
S.No	Name of Practical	Descr	Description of Practical Activity								
NLHP Topic	<ul> <li>12.1 Collaborative Observation of Lekhana Karma in Netraroga.</li> <li>13 Shuklagata Roga -1 (LH :3 NLHT: 0 NLHP: 6)</li> </ul>	A teac demor A)Rev B) Stu instrum manag C) The D) Sun care ir E) Use assess	cher may unstrations. view the prodents shown ments (Ya gement of ey should mmarize a n outcome e log book it on the t	urpose, ind uld observe ntra or Patr complication make Focu and share K s. or trainer horoughne	d procedur ications, a e surgeon' ra) and not ons. used Obser Cey Learni s report to ss, comple	res, pausing and expecte s technique te strategie rvations and ngs connec evaluate th eteness and	g to explain ke d outcomes of es for making p s for patient co d take notes an ting theory wi ne students. OF comprehensio	y steps and Lekhana l precise inc omfort, like d prepare th practice R Ask then on.	d their n Karma. isions, d e anesth questio e, empha n to pre	controlled hesia/pain ns for disc asizing pre pare the cl	or opt for live handling of management, cussion. ecision and hecklist and
A3	B3		C3	D3	E3	F3	G3	НЗ	I3	K3	L3
CO2, CO5	Describe Etiology, Types, Clinical features, Differentials of Arma(Pterygium).	[	CC	МК	КН	L,L&PP T	QZ ,T-CS, VV-Viva	F&S	Π	-	LH
CO2, CO5	Describe Medical management and Surgical excision of Art (Pterygium).[Arma Chhedana, Conjunctival limbal autogration amniotic membrane graft with Its indications, contra-indicative type of anaesthesia, major surgical steps and post-operative	ma ft or tions, care.]	CC	МК	КН	L&PPT	VV-Viva,T- CS	F&S	П	-	LH
CO3, CO4	Examine Shuklamandala (Conjunctiva and Sclera), and lear techniques, document findings, and understand Clinical rele	n the evance.	CAP	МК	КН	D,D- BED	OSCE,P-E XAM,P- VIVA	F&S	II	-	NLHP13.1
CO3,	Present an appropriate history in patients presenting with gr	owth	AFT-	МК	SH	PBL,D-	Mini-CEX	F&S	II	-	NLHP13.2

CO4, CO6, CO7	(Arma/ Shuklar	Pterygium or Pinguecula) or lesions (Bitot's spots) ir mandala.	n	RES			BED,C BL						
CO2, Describe clinical features and management of Arjuna.Describe etiology, clinical features and management of Sub-Conjunctival Haemorrhage.Describe clinical features and management of Shuktika and Pishtaka.			ribe tival f	CC	МК	КН	L&PPT	T-CS,VV- Viva	F&S	Π	-	LH	
CO3, CO4, CO6, CO7Present an appropriate history in a patient presenting with a Raktaakshi (Red Eye) - Arjuna (Sub-Conjunctival Haemorrhag			hage).	AFT- RES	МК	SH	CBL,PB L,D- BED	Mini-CEX	F&S	П	-	NLHP13.3	
Non Lo	ecture H	Iour Theory			-				-	-			
S.No		Name of Activity	Descri	iption of	Theory A	Activity							
Non L	ecture H	Iour Practical											
S.No		Name of Practical	Descri	iption of	Practical	Activity	,						
NLHP	13.1	Examination of the Shuklamandala (Conjunctiva and Sclera).	<ul> <li>A) Instruct students to examine the Shuklamandala (Conjunctiva and Sclera) through inspection, eyelid eversion, and observation of vascular patterns.</li> <li>B) Use live or simulated patient demonstrations or video clips to emphasize technique, safety, and anatomical landmarks, aiding in the diagnosis of ocular conditions ranging from minor irritations to serious systemic diseases.</li> <li>C) Teach mnemonics like 'SHOR ya SHASTRA' (Shotha, Raktima, Shalya, Srava) to observe redness, edema, discharge, and foreign bodies.</li> <li>D) Introduce learning platforms like Picmonic for better understanding.</li> <li>E) Let them document and present.</li> <li>F) Assess them, provide them insights on importance of precision in clinical diagnosis.</li> </ul>										

NLHP 13.2	Cases of Arma, Pishtaka, and growths or discolourations on Shuklamandala.	<ul> <li>A) To maximize exposure within the scheduled time, it is desirable to organize students into small groups to explore various cases with growth or lesion in Shuklamandala through real patient interactions or problem-based (PBL)method, rather than focusing on a single case.</li> <li>B) Encourage students to ask patients relevant questions to gather a detailed history of growths or lesions in the Shuklamandala (Conjunctiva).</li> <li>C) They should document the patient's medical history and findings, differentiate growth or lesion to support diagnostic evaluation, care continuity, and future consultations.</li> <li>D) They should summarize and present the patient's history and conjunctiva examination findings in a structured and clear manner.</li> <li>E) Students should be assessed on parameters like Interview Skills, Examination, Interpersonal Skills / Professionalism and Case Presentation using Mini-CEX - (Ophthalmic Clinical Evaluation Exercise (OCEX))</li> </ul>
NLHP 13.3	Assessment of patients with Raktaakshi (Red Eye), focusing on Arjuna (Sub-Conjunctival Hemorrhage).	<ul> <li>A) Using real patient interactions or problem-based/case-based learning (PBL/CBL) methods, outline an approach for examining and evaluating a patient with Raktaakshi (Red Eye) due to Arjuna (Sub-Conjunctival Hemorrhage), focusing on history-taking, examination, documentation, and an effective diagnosis and management plan.</li> <li>B) Allow students to gather appropriate history to come to diagnosis, record the patient's responses which could assist in the evaluation.</li> <li>C) They should summarize the patient's history and conjunctiva findings in a clear, structured manner, focusing on key points for diagnosis and management and present.</li> <li>D) Identify clinical features that may need referral to a neurosurgeon, if necessary.</li> <li>E) Teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>F) Students should be assessed on parameters like Interview Skills, Examination, Interpersonal Skills / Professionalism and Case Presentation using Mini-CEX - (Ophthalmic Clinical Evaluation Exercise (OCEX))</li> </ul>
Topic 14 Shu	uklagata Roga -2 (LH :2 NLHT: 0 NLHP: 2)	

A3		B3			D3	E3	F3	G3	Н3	I3	К3	L3	
CO2, CO5	Describ Sirajapi	e clinical features and management of Sirajala and dika.		CC	MK	KH	L&PPT	VV-Viva,T- CS	F&S	II	-	LH	
CO2, CO5	Describ and Sclo	e etiology, clinical features and treatment of Episcler eritis.	itis	CC	MK	KH	L&PPT	T-CS,VV- Viva	F&S	Π	-	LH	
CO3, CO4, CO6, CO7	Present an appropriate history in a patient presenting with Raktaakshi (Red Eye) - Sirajala / Sirajapidaka (Episcleritis and Scleritis - Diffuse / Nodular); differentiate nodule at limbus.				МК	SH	CBL,D- BED	Mini-CEX	F&S	II	-	NLHP14.1	
Non Le	ecture H	lour Theory											
S.No	S.No Name of Activity Description of Theory Activity												
Non Le	ecture H	lour Practical											
S.No		Name of Practical	Description of Practical Activity										
S.No     Name of Practical     Desc       NLHP 14.1     Assessment of Patients with Raktaakshi (Red Eye) - Episcleritis / Scleritis: Differentiating Diffuse / Nodular Forms.     A) T expla Scleritis: Differentiating Diffuse / Scleritis: B) St symp syste C) T presc D) E E) Pri excel F) St				maximize e multiple is - Diffus case-based dents show oms, onse nic associa ey should ace of diffu courage the vide const ence. dents show	e exposure cases of R se/Nodular, d learning o uld gather o t and durat ations (e.g., record the use or nodu tem to sum tructive fee	within the eaktaakshi ) in the Sh (PBL/CBI detailed in ion, past o , autoimm patient's h lar forms marize an edback on ssed on pa	scheduled (Red Eye) ukla mand L) methods formation ocular or m une conditi nistory and of episcler d share key their perfo	time, students caused by Sira ala through rea , rather than fo from the patier edical history, ons). Identify a findings in a s itis or scleritis. findings with rmance, highlig ke Interview S	can be org ajala/Siraja al patient in cusing on nt's medica family his and different tructured a peers or s ghting area kills, Exar	ganized apidaka nteractio a single al histor tory, an entiate r and clea upervise as of im nination	into smal (Episcler: ons or pro e case. ry, includi id potentia nodules at ir manner, ors. nprovemer	l groups to itis and blem- ng l triggers or the limbus. noting the it and sonal Skills /	

		P ((	Professionalism and Case Presentation using Mini-CEX - (Ophthalmic Clinical Evaluation Exercise (OCEX))									
Торіс	15 Chh	edana Karma. (LH :0 NLHT: 1 NLHP: 2)										
A3		B3	C	3	D3	E3	F3	G3	Н3	I3	К3	L3
CO2, CO5	Discuss Chhedana in Netraroga (Indications and Contraindications for Excision Techniques and Procedures; and to recognize and manage complications).		id to	С	MK	КН	D,L_VC ,TBL,SI M,BS	QZ ,VV- Viva	F&S	II	-	NLHT15.1
CO5	Particip	ate in the team for Chhedana in Netraroga.	PSY- PERMKSHCBL,L_ VC,DTR,LogFII-NL							NLHP15.1		
Non L	ecture H	lour Theory				-			-	-		
S.No	.No Name of Activity Description of Theory Activity											
NLHT	15.1	Comprehnsive discussion on Chhedana in A Netraroga. E E U U C P D C C E P D C C P P D C C P P D C C P D C C P D C C P D C C P D C C P D C C C P D C C C P D C C P D C C C P D C C C C	<ul> <li>A) Begin with a brief case presentation of a condition requiring Chhedana (excision) in Netraroga. Encourage students to brainstorm and collaborate in pairs or groups to discuss the indications and contraindications for performing the procedure. (10 minutes)</li> <li>B) Discuss the steps for preoperative preparation, can use role-play as surgeons preparing a "patient," using another student or a mannequin. (10 minutes)</li> <li>C) Use simulated skin pads, gel models, fruits (like oranges), or a video of an actual or simulated procedure for demonstration of the procedure. (10 minutes)</li> <li>D) Divide students into small groups and encourage students to think critically about postoperative care, and managing complications of Chhedana. (10 minutes)</li> <li>E) Summarize the session's key points, covering the indications, contraindications, steps of the procedure, postoperative care, and complications. (5 minutes)</li> </ul>									
Non L	Non Lecture Hour Practical											
S.No		Name of Practical	Descriptio	on of ]	Practical	Activity	7					

NLHP	15.1	Observation of Chhedana(Excision) in Netraroga.	<ul> <li>A) By following a teacher-led patient journey from preoperative counseling to discharge, students gain valuable insights into the surgical techniques of Chhedana (excision), aseptic practices, and procedural reasoning. Teachers can enhance learning through recorded procedures, pausing to explain critical steps and their rationale, or by conducting live demonstrations.</li> <li>B) Prepare students with Background Knowledge and goals of the Chhedana (Excision). Familiarize them with its basic steps.</li> <li>C) They should observe key surgical steps noting techniques for incision, tissue handling, excision, hemostasis, and closure.</li> <li>D) Encourage them to make Mental or Written Notes</li> <li>E) Allow them to ask questions and strengthen comprehension of surgical concepts.</li> <li>F) Assess them through OSCE, Checklists.</li> </ul>											
Topic	Copic 16 Agnikarma and Ksharakarma. (LH :0 NLHT: 1 I			0)	1						I			
A3		B3		C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3		
CO5	Narrate Contrai manage	e Agnikarma and Ksharakarma in Netraroga (Indicati indications, Techniques and Procedures; and recogni e complications).	ons, ze and	CC	DK	КН	L_VC,D ,CBL	VV- Viva,QZ ,COM	F&S	II	-	NLHT16.1		
Non L	ecture H	Hour Theory							•			•		
S.No		Name of Activity	Descr	ription of	Theory A	Activity								
NLHT 16.1     Discussion on Agnikarma and Ksharakarma in Netraroga.				<ul> <li>A) Compile, discuss, brainstorm relevance of Agnikarma and Ksharakarma in Netraroga with its Indications and Contra-indications, Poorvakarma, Pradhanakarma, Pashchatkarma, Upadrava and management of Upadrava in brief. (10 minutes)</li> <li>B) The teacher may Use anatomical models, diagrams, and 3D animations to illustrate surgical procedures.</li> <li>OR</li> <li>Show recorded surgical procedures to give students a realistic view of the process. Pause at key moments to explain important steps. Explain each step thoroughly, including the rationale behind each</li> </ul>										

Non L	Action of the second seco	<ul> <li>action. (20 minutes)</li> <li>Provide students with procedural checklists to help them remember the steps and ensure nothing is missed.</li> <li>C) Provide access to reputable online resources and journals for further reading and research. (10 minutes)</li> <li>D) Use quizzes, written exams, and practical assessments to evaluate students' understanding and skills. (5 minutes)</li> </ul>								
S.No	Name of Practical D	escription of	Practica	l Activity	7					
Торіс	17 Krishnagata Roga -1 (LH :5 NLHT: 0 NLHP: 4)									
A3	B3	C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO1, CO2, CO5	Enumerate Krishnagata Rogas. Describe clinical features, management & Sadhya-asadhyata of Savrana Shukra (Corneal Ulcer).	CC	МК	КН	L&PPT ,L	T-CS,P- VIVA,QZ	F&S	II	-	LH
CO2, CO5	Classify Corneal Ulcers.Describe etiology, clinical features, management and complications of Bacterial,Viral and Fungal Corneal Ulcers.	CC	МК	КН	L,L&PP T	T-OBT,QZ ,VV-Viva	F&S	II	-	LH
CO2, CO5	Describe etiology, clinical features, types, prognosis and management of Avrana Shukra (Corneal Opacity)	CC	MK	КН	L,L&PP T	T-OBT,VV- Viva	F&S	II	-	LH
CO2, CO5	Describe Etiology, Clinical features and Treatment of Ajakajata.(Anterior Staphyloma)	CAN	MK	KH	L&PPT	VV-Viva,T- OBT	F&S	II	-	LH
CO2, CO5	Explain clinical features and treatment of Sirashukla and clinical features of Akshipakatyaya.	al CC	DK	KH	L&PPT ,L	T-OBT,VV- Viva,QZ	F&S	II	-	LH
CO3,	Present the method of examination of a Sashula	AFT-	MK	SH	SIM,D-	P-EXAM,O	F&S	II	-	NLHP17.1

CO4, CO7	Raktaak	shi.(Painful red eye)(Savrana Shukla/Corneal ulcer)	eal ulcer). RES BED,PB SCE,Mini- L CEX											
CO3, CO7	Summar examina	ise the steps involved in the technique of Slit lamp tion.		CC	МК	KH	ML,TU T,D,PB L,SIM	PP- Practical,SP	F&S	Π	-	NLHP17.2		
Non Le	ecture H	our Theory			-									
S.No		Name of Activity	Description of Theory Activity											
Non Le	ecture H	our Practical												
S.No		Name of Practical	Description of Practical Activity											
NLHP J	17.1	Evaluation of Savrana Shukra (Corneal Ulcer).	<ul> <li>A)Present a clinical case of Sashula Raktakshi and have students work in groups to gath discuss differential diagnoses, and plan management. Have students shadow experienced clinicians during patient history taking to observe be and techniques and facilitate post-shadowing discussions. OR</li> <li>B) Utilise advanced simulation technology to create realistic patient scenarios. Engage students with virtual patient software that simulates real-life scenarios, helping thistory taking and clinical reasoning skills.</li> <li>OR</li> <li>Use standardized patients( actors or fellow students )to role-play patients with Savrana 5</li> <li>C) Break students into small groups for more focused practice and individualised feedba</li> <li>D) Recommend apps like Geekymedics, wikimeds that offer virtual practice and quizze taking skills.</li> <li>E) Have students keep reflective journals where they document their experiences, challe learning points from taking patient histories.</li> <li>F) Assess the students with the help of MINI-CEX or OSCE.</li> <li>Mini-CEX.</li> </ul>								s to gather serve best nelping the avrana Sh d feedbac d quizzes o s, challen	em practices wkla. k. on history- ges, and		

		<ul> <li>Observe Student's interaction with a patient in a real-world clinical setting.</li> <li>Rate the performance in areas like history taking, physical examination, and counselling skills.performance is recorded on a 4 point scale where 1 is unacceptable, 2 is below expectation, 3 is met expectations, and 4 is exceeded expectations.</li> <li>The student receives immediate feedback from the teacher.</li> <li>F) Conduct OSCEs where students rotate through stations to practice history taking and receive immediate feedback.</li> <li>Encourage students to assess their own performance and identify areas for improvement.</li> </ul>
NLHP 17.2	Slit lamp examination.	<ul> <li>A) Explain why this examination is crucial for diagnosis.</li> <li>Conduct live demonstrations with real or simulated patients to model effective case taking.</li> <li>OR Use videos of experienced clinicians.</li> <li>OR Use standardized patients (actors trained to simulate real patient cases) to perform a step-by-step demonstration in a controlled environment.</li> <li>B) Introduce different parts of slit lamp, instructions, indications, contra-indications.</li> <li>C) Stress importance of Ensuring patient's comfort, his position, and proper alignment; setting up of Slitlamp ensuring hygiene.</li> <li>D)Ask them to record any findings, such as abnormalities in the cornea, lens, iris, or anterior chamber; any lesions, pigmentation, or signs of disease.</li> <li>E) A simulated patient (SP) can be used as an examination tool by acting as a standardized "patient" with a specific medical scenario, allowing students to demonstrate their clinical skills like history taking, physical examination, communication, and decision-making in a controlled environment, where they can be assessed on their ability to interact with the patient and manage the presented case, providing a consistent and reliable evaluation across different students.</li> </ul>

Topic	Topic 18 Krishnagata Roga -2 (LH :2 NLHT: 0 NLHP: 4)												
A3		B3		C3	D3	<b>E3</b>	F3	G3	Н3	<b>I</b> 3	К3	L3	
CO2, CO3, CO4, CO7	Present the case of Uveitis.			AFT- RES	МК	SH	D-BED, PBL,CD	P-CASE,O SCE,SA	F&S	П	-	NLHP18.1	
CO2, CO5	CO2, Expound Tarakamandala-shotha (Acute CO5 Iridocyclitis.)- investigations, differential diagnosis,clinical features,treatment and complications.			CC	МК	KH	L,L&PP T	VV- Viva,QZ ,T- CS	F&S	II	-	LH	
CO1, Recap Applied anatomy of Uvea.Define and narrate (Anatomica and Etiological) classification of Uveitis.			atomical	САР	МК	KH	L&PPT ,L	VV-Viva,T -OBT,M- POS	F&S	Π	-	LH	
<ul> <li>CO3, Examine the Taraka (Iris), Drishtimandala (Pupil), and Anterior</li> <li>CO6, chamber.</li> <li>CO7</li> </ul>			nterior	PSY- GUD	МК	KH	PBL,RP ,TUT,D -BED,M L	360D,P- EXAM	F&S	Π	-	NLHP18.2	
Non L	ecture H	lour Theory											
S.No		Name of Activity	Desci	ription of	Theory A	Activity							
Non L	ecture H	lour Practical											
S.No		Name of Practical	Desci	Description of Practical Activity									
NLHP 18.1       Evaluation of Uveitis.       A)Present different cases of uveitis, discussing the clinical features, differential diagnosis, and treatment options.         Encourage students to teach each other history-taking techniques, which reinforces their learning builds confidence.       Have students shadow experienced clinicians during patient history taking to observe best practices.							, and learning and t practices						

		<ul> <li>and techniques and facilitate post-shadowing discussions.</li> <li>OR</li> <li>B) Use standardized patients( actors or fellow students )to role-play patients with uveitis.</li> <li>C) Recommend apps like Geekymedics, Wikimeds that offer virtual practice and quizzes on history-taking skills.</li> <li>D) Have students keep reflective journals where they document their experiences, challenges, and learning points from taking patient histories.</li> <li>F) Discuss indications for referral to a Kayachikitsaka (rheumatologist or infectious disease specialist if systemic causes are suspected).</li> <li>G) Conduct OSCEs where students rotate through stations to practice history taking and receive immediate feedback. Rate the performance in areas like history taking, physical examination, and counselling skills. Performance is recorded on a 4 point scale where 1 is unacceptable, 2 is below expectation, 3 is met expectations, and 4 is exceeded expectations.</li> <li>OR</li> <li>Encourage students to assess their own performance and identify areas for improvement. Self-assessment can be done on following parameters:- Empathy and openness, Ethical awareness, Workplanning, Scientific method of working, Coping with mistakes, and Priorities.</li> </ul>
NLHP 18.2	Assessment of Anterior chamber.	<ul> <li>A) Divide the students into small groups and direct them to do role play. One student may act as examiner, the other as the patient and ask them to :</li> <li>Assess Drishtimandala (Pupil). Note Findings Record pupil size, shape, and any abnormal reactivity.</li> <li>Assess Taraka (Iris) and note Pathologies.</li> <li>Evaluate Depth Of Anterior Chamber.</li> <li>Evaluate contents of the Anterior chamber.</li> <li>Encourage students to rotate through each station, practicing with the slit lamp and torchlight.</li> <li>OR</li> <li>Provide a link for examination of anterior chamber through Google classroom or free messaging platforms and describe each and every step with necessary pause for detailed explanations while</li> </ul>

			<ul> <li>students are accessing the link through smart gadgets.</li> <li>B) Demonstrate the use of instruments and explain what to look for at each step.</li> <li>C) Supervisors should verify techniques and provide feedback.</li> <li>D) Teach students how to record findings systematically, including pupil size, iris abnormalities, and anterior chamber status.</li> <li>E) Clarify doubts and review the steps.</li> <li>F) Maintain standards of Safety and Ethics.</li> <li>G) Use 360 degree assessment where the peers, paramedical staff and the assessor assess the students with the help of pre-provided standard checklist.</li> </ul>								nalities, and the students	
<b>Topic</b>	Copic 19 Dravyas Used In Netrachikitsa-1 (LH :0 NLHT: 4 NLHP: 0)											
A3		B3		C3	D3	E3	<b>F3</b>	G3	Н3	<b>I</b> 3	К3	L3
CO3	CO3 Explain the indications, contraindications, dosage and untoward effects of Dyes used in Ophthalmology (Flourescien and Rose bengal stain).		ard se	CC	NK	KH	BL,FC	QZ ,VV-Vi va,CL-PR	F&S	II	-	NLHT19.1
CO5	5 Explain the indications, contraindications, dosage and untoward effects of Anti-inflammatory agents (Ketorolac,Flurbiprofen), and Steroids ( Dexamethasone and Prednisolone) used in Ophthalmology.		ard ), and	CC	NK	КН	RP,ML, PBL,BL ,FC	VV- Viva,QZ	F&S	II	-	NLHT19.2
CO5	<ul> <li>Explain the indications, contraindications, dosage and untoward effects of Antibiotics (Bacitracin, Moxifloxacin, Tobramycin, Gentamycin), antifungal agents (Amphoterecin,Natamycin,Fluconazole), and antiviral agents (Trifluridine, Acyclovir).</li> </ul>		vard n, s	CC	NK	КН	RP,DIS, LS,ML, PER	PA,VV- Viva,QZ	F&S	Π	-	NLHT19.3
CO2, CO5	Explain the i effects of lub Carbomers, l	indications, contra indications, dosage and untow bricating agents and artificial tears (CMC,HPMC Poly-vinyl Alcohol and Acetylcysteine).	vard 2,	CC	DK	КН	FC	P-EXAM,C L-PR,QZ	F&S	II	-	NLHT19.4

Non Lecture	Hour Theory	
S.No	Name of Activity	Description of Theory Activity
NLHT 19.1	Comprehension on uses of Dyes in Ophthalmology.	<ul> <li>A) The topic may be assigned using the flipped method.</li> <li>The presentation on the topic should be prepared and uploaded on a website created for the students or free cross -platform messaging services like Whatsapp or Telegram.</li> <li>The students will be given a link to a PowerPoint presentation.</li> <li>They should be also instructed to go through the textbooks and read this topic.</li> <li>Sub-divide them into four groups:- one each for indications and contraindications for Fluorescein, dosage and untoward effects of Fluorescein ; and Indications and contraindications for Bengal stain, dosage and untoward effects of Bengal stain.</li> <li>They should be given 1 week time before the scheduled Flipped Class room for this topic.</li> <li>After 1 week of self-learning, problem-based questions related to the topics may be asked and discussed with the students. Students will be also encouraged to ask questions to clarify concepts. Each group will be given 12 min. to present.</li> <li>PowerPoint presentations (Each group 10 minutes)should be assessed on following criteria- content , focus, clarity and coherence, in-depth analysis, grammar and spelling, delivery of the material, audience engagement, handling nerves, effective use of visual aids.</li> </ul>
NLHT 19.2	Discussion on Anti inflammatory agents and steroids used in ophthalmology.	<ul> <li>The students will be explained role of anti-inflammatory agents and steroids essential in Netra Chikitsa ,and the risks involved by a link provided or a physical literature provided a week before.</li> <li>A) Problem-Based Learning</li> <li>Present real-life clinical scenarios and discuss them in groups:</li> <li>Example 1: A patient with anterior uveitis—which drug to prescribe; dosage, and precautions? (10 min)</li> <li>Example 2: A glaucoma patient with conjunctivitis—should steroids be used? Why or why not?( 10 min)</li> <li>Groups present findings, followed by class discussion and instructor feedback.(10 min.)</li> <li>OR</li> <li>B) Role-Play Activity- (20 min.)</li> <li>Students act as doctors explaining drug use to a patient:</li> </ul>

		<ul> <li>Indication for the prescribed drug.</li> <li>Dosage schedule (e.g., tapering for steroids).</li> <li>Possible side effects and their prevention.</li> <li>Rotate roles to ensure participation.</li> <li>Recap and Reflection.</li> <li>C) Use a quiz or rapid-fire questions to recap key points:(10 min.)</li> <li>Dosage and tapering for steroids.</li> <li>Contraindications for NSAIDs (e.g., corneal ulcers).</li> <li>Side effects like increased IOP or delayed healing.</li> <li>Facilitate a reflective discussion on the importance of proper drug use in Netra Chikitsa.</li> </ul>
NLHT 19.3	Comprehension on Antibiotics ,antifungal agents, and antiviral agents used in ophthalmology.	<ul> <li>A) Divide the class into groups to encourage teamwork during activities. Share information on topic through link a week before the class by Google classroom or free messaging services like Telegram.</li> <li>B) Group Discussion and Role Play- Assign each group a specific category (antibiotic, antifungal, or antiviral) and a corresponding ocular condition.</li> <li>Groups prepare on:</li> <li>Appropriate drug choices.</li> <li>Dosage forms specific to ophthalmology (e.g., eye drops, ointments, injections).</li> <li>Contraindications in ocular and systemic contexts.</li> <li>Common adverse effects and how to manage them.</li> <li>C) Role Play: Groups present their findings as if explaining to a patient or conducting a team discussion in a hospital setting.</li> <li>D) Each group shares its solution and reasoning, leading to peer feedback and a guided discussion by the instructor. Each group will be given 10-12 min. for disccussion and role play.</li> </ul>
NLHT 19.4	Presentation on Lubricating agents and Artificial tears.	A) The topic may be assigned using the flipped method. The presentation on the topic 'Lubricants and artificial tears in Ophthalmology' should be prepared and uploaded on a website created for the students or free cross -platform messaging services like Whatsapp or Telegram or blended learning platforms like Google classroom.

			The students are divided into five groups- one each for each drug and will be given a link to a PowerPoint presentation. They should be also instructed to go through the textbooks and read this topic. They should be given 1 week time before the scheduled Flipped Class Room for this topic. B)After 1 week of self-learning, problem-based questions related to the topics may be asked and discussed with the students. Students will present in class and duration of 10-12 min. is allotted to eac group. Students will be also encouraged to ask questions to clarify concepts. PowerPoint presentations should be assessed on following criteria- content , focus, clarity and coherence, in-depth analysis, grammar and spelling, delivery of the material, audience engagement, handling nerves, effective use of visual aids. C) Constructive feedback should be given in the form of summary and take home message.(05-10 min.)								to a ed and lotted to each and gagement, e.(05-10	
Non Lecture Hour Practical												
S.No Name of Practical De			Descri	iption of	Practical	Activity						
Topic 2	20 Eye ]	Donation (LH :0 NLHT: 4 NLHP: 0)										
A3		B3		C3	D3	E3	<b>F3</b>	G3	Н3	<b>I</b> 3	K3	L3
CO5	CO5 Describe organizational structure, purpose and need of growth of Eye Banks.		th of	CC	DK	КН	RLE,FV ,ML,L& GD	VV-Viva,C L-PR,QZ ,INT,M- POS	F&S	Π	-	NLHT20.1
CO5 Explain the Objectives, Awareness & Significance of Eye donation.			CC	NK	КН	L&GD, BS	VV-Viva,M- POS,CL- PR	F&S	II	-	NLHT20.2	
CO5 Enlist types; describe indications, techniques, risks and complications of corneal transplantation.			CC	NK	КН	DIS,L& PPT ,L_VC	QZ ,M-POS ,VV-Viva	F&S	II	-	NLHT20.3	

CO2, CO5	Explain	National Programme for Control of Blindness.		CC	DK	КН	FC,PER	QZ ,CL-PR ,PRN,M- POS	F&S	II	-	NLHT20.4
Non Lo	ecture H	Iour Theory									-	
S.No		Name of Activity	Description of Theory Activity									
S.No		Eye banking- its organization, relevance and purpose.	<ul> <li>A) Gi</li> <li>B) Dir</li> <li>such a</li> <li>C) All</li> <li>operate</li> <li>After</li> <li>area. T</li> <li>D) Ho</li> <li>compa</li> <li>Each g</li> <li>E) Co</li> <li>studer</li> <li>or bride</li> <li>F) Gro</li> <li>Body</li> </ul>	<ul> <li>Description of Theory Activity</li> <li>A) Give a brief introduction of Eye banking ,explaining its relevance and purpose.</li> <li>B) Divide the students into six groups. Each group could focus on a specific aspect of eye banking, such as its services, benefits, technology, legal considerations, ethical implications, or case studies.</li> <li>C) Allow each group to either visit an actual eye Bank or view videos that demonstrate the setup, operation, and impact of an Eye Bank.</li> <li>After the visit or video session, each group should gather detailed information based on their focus area. They can conduct research, discuss among themselves, and prepare to present their findings.</li> <li>D) Host a group discussion in the classroom where each team presents findings. Encourage students to compare and contrast different aspects of eye banking and address any questions or insights that arise.</li> <li>Each group will be given 06-08 minutes each to present.</li> <li>E) Conclude the session (15 min.) by summarizing the key takeaways, and if applicable, encourage students to reflect on how eye banking might evolve in the future. You could also have a Q&amp;A session or brief evaluations of the visit or video experience.</li> <li>F) Group Discussion should be assessed on - Communication skills, Teamwork, Critical thinking, Body language, Interpersonal skills.</li> </ul>								
NLHT 20.2		Discussion on Eye donation.	A) Clo OR Host a addres B) En partici all con	<ul> <li>A) Clearly present the scenario of Eye donation that the group will brainstorm around.</li> <li>DR</li> <li>Host a group discussion in the classroom where each team presents their aspects of eye donation, and address any questions or insights that arise.</li> <li>B) Encourage open sharing by stating that all ideas are welcome without judgment. Encourage participants to expand on each other's suggestions. Emphasize the importance of listening attentively t all contributions.</li> </ul>								onation, and trage attentively to

		<ul> <li>C) Divide students into groups of 5-8 for optimal interaction and participation. Consider assigning roles like facilitator (to guide discussion), timekeeper (to manage time), and notetaker (to record key points). Clearly introduce the topic, providing necessary background information and key questions to guide the discussion. Encourage all students to contribute their thoughts, opinions, and evidence-based reasoning, ensuring everyone has a chance to speak. Ask probing questions to challenge assumptions, evaluate different perspectives, and encourage students to justify their reasoning. Emphasize the importance of listening attentively to others' viewpoints and building on ideas respectfully.</li> <li>C) Give 08-10 minutes for each group to discuss about Objectives, Awareness and Significance of Eye donation. Evaluate them on Communication skills, Teamwork, Critical thinking, Body language, Interpersonal skills.</li> <li>D) Ask students to make posters. Judge the posters on clarity of information, logical organization, visual appeal, scientific soundness, and whether key elements like Objectives, Awareness and Significance of Eye donation are presented clearly and concisely, while also considering the visual design and readability from a distance.</li> </ul>
NLHT 20.3	Discussion on Keratoplasty.	<ul> <li>A) Begin with a brief case presentation of a condition requiring corneal transplantation. Encourage students to brainstorm and collaborate in pairs or groups to discuss:- (10 min.)</li> <li>Clinical indications for corneal transplantation.</li> <li>Types of corneal transplantation.</li> <li>Correlation of indications with the appropriate transplantation techniques.</li> <li>Risks and complications involved.</li> <li>B) Show recorded surgical procedures (40 min.)to give students a realistic view of the process. Pause at key moments to explain important steps. Explain each step thoroughly, including the rationale behind each action; emphasizing the importance of patient selection, proper surgical technique, and managing potential complications like rejection and infection.</li> <li>C) Use quizzes, Making of Posters to evaluate students' understanding and skills. Assess its clarity of information, logical organization, visual appeal, scientific soundness, and whether key elements are presented clearly and concisely, while also considering the visual design and readability from a distance.</li> </ul>

NLHT 20.4	Objectives, Organizational structure and New initiatives under National programme for Control of Blindness and Visual Impairment.	<ul> <li>Use Flipped Classroom method:</li> <li>A) Pre-Class Preparation-</li> <li>Share a concise video (10 minutes) covering the NPCB, its objectives, strategies, and key statistics. Include a short article or infographic for reference through Google Classroom or Whatsapp or telegram. (Pre-class). Ask students to watch the video and read the materials. Provide a quick online quiz (5 minutes) to ensure they understand the basics.</li> <li>B) In-Class Activities (45 minutes)</li> <li>1. Interactive Discussion (15 minutes)-Start with a quick discussion based on the pre-class materials. Ask students to share key points they found interesting or any questions they have.</li> <li>2. Case Studies (15 minutes)- Present a brief case study of a community affected by blindness. Have students work in pairs to discuss and propose strategies based on NPCB initiatives.</li> <li>3. Role-Playing (10 minutes)- Organize a role-playing activity where students act out scenarios involving healthcare providers and patients. Focus on communication and community engagement strategies.</li> <li>C) Post-Class Follow-Up (15 minutes)</li> <li>1. Reflection (5 minutes)- Ask students to write a short reflection on what they learned and how they can apply it in their future practice.</li> <li>2. Group Presentation (10 minutes)- Have students present their case study strategies to the class. Assess their understanding and provide feedback.</li> <li>D) Assessment Methods-</li> <li>1. Pre-Class Quiz- Evaluate students' understanding of the basic concepts before the class.</li> <li>2. In-Class Participation- Assess students based on their engagement and contributions during discussions and activities.</li> <li>3. Group Presentation: Evaluate the quality and depth of their proposed strategies.</li> </ul>										
Non Lecture H	lour Practical											
S.No	Name of Practical	Description of Practical Activity										
Topic 21 Sarvagata Roga -1 (LH :4 NLHT: 1 NLHP: 2)												
A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
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CO2, CO5	Enumer Compli	merate Sarvagata Rogas; Describe Lakshana, Chikitsa and plications of different types of Abhishyanda.		CC	МК	КН	L,L&PP T	QZ ,VV-Vi va,T-OBT, T-CS,M- POS	F&S	Π	-	LH
CO2	Give Et (Bacter) of Conj	Give Etiological and Clinical Classification, Clinical features (Bacterial, Viral & Allergic) and differential Diagnosis of Conjunctivitis.		CC	МК	КН	L,L&PP T	T-CS,T-OB T,VV-Viva	F&S	II	-	LH
CO2, CO5	Describe Management and complications of Conjunctivitis.		CC	MK	KH	PBL,LS ,FC,BL	CL-PR,T- OBT,QZ	F&S	II	-	NLHT21.1	
CO2, CO5	Explain Hetu, Lakshana, Chikitsa and Upadrava of different types of Adhimantha and Hatadhimantha.		CC	МК	КН	L&PPT	T-OBT,VV- Viva,QZ ,T- CS	F&S	II	-	LH	
CO3, CO4, CO7, CO8	Present (dischar	a case of Raktaakshi (red eye) presenting with Sra rge).	va	AFT- RES	МК	SH	D,PBL, TUT,RP	P-PRF,Mini -CEX,P-VI VA,OSCE	F&S	II	-	NLHP21.1
Non L	ecture H	Iour Theory		1	Ļ		1				<u> </u>	
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT	21.1	Management of Conjunctivitis.	<ul> <li>A) Divide the students into five groups, each assigned a different aspect of Conjunctivitis.</li> <li>Provide a link/ power point presentation/ document with brief overview of Conjunctivitis, explaining the causes, types (viral, bacterial, allergic), symptoms, general management principles, Hygiene measures, and complications.</li> <li>Encourage them to use textbooks, reputable websites, and journal articles.</li> <li>B) Group Assignment:</li> <li>Group 1: Viral Conjunctivitis</li> </ul>									

	<ul> <li>Group 2: Bacterial Conjunctivitis</li> <li>Group 3: Allergic Conjunctivitis</li> <li>Group 4: General Management and Prevention</li> <li>Group 5: Complications of Conjunctivitis</li> <li>C) Each group should create a PowerPoint presentation (10 min.) summarizing their findings.</li> <li>D) After the presentations, facilitate a classroom discussion. Ask questions to encourage critical thinking.</li> <li>Address the role of healthcare providers in preventing spread, particularly in school and daycare settings.</li> <li>Review patient follow-up protocols and when to refer to a specialist</li> <li>E) Conclude by summarizing the key points from each group's presentation.</li> <li>Provide feedback on the students' understanding of the topic.</li> <li>Assess each group's presentation and ability to discuss and answer questions.</li> <li>OR use pre and post quiz method to assess.</li> </ul>

#### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 21.1	Evaluation of Raktaakshi (Red eye) with Srava (Discharge).	A)Present a clinical case of Conjunctivitis and have students work in groups to gather history, discuss differential diagnoses, and plan management. OR
		Assign roles to students, such as the patient, the primary care provider, a nurse, and an observer. Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.
		OR B) Have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions.
		Examine Conjunctiva and Cornea thoroughly. C) Document the detailed history (symptom onset, type of discharge, associated symptoms). Record physical examination findings (conjunctival reaction, corneal status, lymphadenopathy,

	<ul> <li>anterior chamber clarity).</li> <li>D) One group will present the patient's history, examination findings, and differential diagnosis to the class.</li> <li>The instructor and peers will discuss possible diagnoses (bacterial vs viral vs allergic conjunctivitis, for example), and the rationale behind them.</li> <li>Discuss management options and treatment approaches based on the clinical findings.</li> <li>Allow time for students to ask questions or clarify doubts.</li> <li>E) Recap of the key learning points from the session.</li> <li>Encourage students to continue practicing the systematic approach to examining red eye conditions.</li> <li>F) Use MINI-CEX or OSCE to evaluate students.</li> </ul>					
	<ul> <li>OSCE stations to have signs of local examination, psychomotor skills, communication skills and history taking of a particular examination. Each student is exposed to the same stations and assessment. The assessor should use checklists to evaluate students' performance in a reliable and consistent way.</li> <li>Communication skills to be assessed by Kalamazoo essential elements communication</li> </ul>					
Topic 22 Sarvagata Roga -2 (LH :3 NLHT: 1 NLHP: 2)						

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO2, CO5	Describe Lakshanas and Chikitsa of Shushkaskhipaka.Explain Structure of Tear Film: Etiology, Clinical Features, and Management of Dry Eye Syndrome and Computer vision	CC	МК	КН	L,L&PP T	T-OBT,T-C S,VV- Viva,QZ	F&S	III	-	LH

	syndron	ne.										
CO2, CO5	Construe Lakshanas and Chikitsa of Sashophapaka, Ashophapaka, Amloshita, Sirotpata, Siraharsha, and Vataparyaya.		CC	DK	KH	L,L&PP T	QZ ,T-OBT ,T-CS,PUZ, VV-Viva	F&S	III	-	LH	
CO2, CO5	Enlist the diseases mentioned in Pillaroga, And describe Nidana and Chikitsa of Pillaroga.		lana	CC	NK	KH	PL,DIS, BL,TBL ,TPW	VV-Viva,C L-PR,QZ	F&S	III	-	NLHT22.1
CO3, CO4, CO7, CO8	<ul> <li>CO3, Present a case presenting with Shushkakshi (dry eyes).</li> <li>CO4,</li> <li>CO7,</li> <li>CO8</li> </ul>			AFT- RES	МК	SH	SIM,TU T,ML,P BL,CD	OSCE,Mini -CEX,P-EX AM,P-VIV A,P-CASE	F&S	III	-	NLHP22.1
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT 2	22.1	Nidana and Chikitsa of Pillaroga.	Description of Theory ActivityA) Split the class into 03 groups, ensuring each group has an equal number of students. Assign a group leader for each group to help coordinate the work.Each group will focus on a specific aspect of Pillaroga. Below are some potential topics each group can research:Group 1: Definition and enumeration of Pillarogas (understanding what makes a disease, a Pillaroga).Group 2: Symptoms and causes of different Pillarogas.Group 3: Treatment methods for Pillarogas.C) Ask each group to visit the library and refer to various texts, including classical medical texts, contemporary studies, and academic journals.(pre class: 30 min.)Each group should take detailed notes on their assigned topic and focus on finding credible sources.D) Let them organize their findings into a presentation format (like PowerPoint slides, a report, or posters).Ensure each member of the group understands the topic thoroughly and can contribute to the group discussion.									

E) A	Arrange a class-wide group discussion, where each group presents their findings to the rest of the ss.
class	oup 1: 05 min.
Grou	oup 2: 05 min.
Grou	oup 3: 15 min.
F) A	After each presentation, allow time for questions and feedback from other groups.
After	ter all presentations, facilitate an open discussion, encouraging students to explore how the
infor	formation from different groups overlaps and what new insights they have gained. Emphasize the
impo	portance of listening attentively to others' viewpoints and building on ideas respectfully. (25 min.)
Teac	acher may share his real-life experiences.
Judg	dge them on Communication skills, Teamwork, Critical thinking, Body language, Interpersonal
skills	lls. or Take a quiz.

### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 22.1	Evaluation of Shushkakshi (Dry eye evaluation).	<ul> <li>A)Present a clinical case of Shushkakshi and have students work in groups to gather history, discuss differential diagnoses, and plan management.</li> <li>Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.</li> <li>Have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions.</li> <li>Perform the Schirmer test to measure tear production .</li> <li>Conduct the tear breakup time (TBUT) test.</li> <li>Use ocular surface staining with dyes like fluorescein.</li> <li>OR</li> <li>B) Utilize advanced simulation technology to create realistic patient scenarios.</li> <li>Engage students with virtual patient software that simulates real-life scenarios, helping them practice history taking and clinical reasoning skills.</li> <li>C) Break students into small groups for more focused practice and individualized feedback.</li> </ul>

	<ul><li>D) Recommend apps like Geekymedics, wikimeds, etc that offer virtual practice and quizzes on history-taking skills.</li><li>E) Have students keep reflective journals where they document their experiences, challenges, and learning points from taking patient histories.</li><li>F) Conduct MINI-CEX or OSCEs where students rotate through stations to practice history taking and receive immediate feedback.</li></ul>
	<ul> <li>Observe a Student's interaction with a patient in a real-world clinical setting.</li> <li>Rate the performance in areas like history taking, physical examination, and counselling skills. Performance is recorded on a 4 point scale where 1 is unacceptable, 2 is below expectation, 3 is met expectations, and 4 is exceeded expectations.</li> </ul>
	• The student receives immediate feedback from the teacher. Encourage students to assess their own performance and identify areas for improvement.
	G) Distribute patient questionnaires to gather more detailed information on symptoms and environmental factors affecting eye moisture.

# Topic 23 Glaucoma (LH :1 NLHT: 1 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO1, CO2, CO5	Define Glaucoma.Explain Clinical & etiological Classification, Clinical Features,Investigative procedures and Complications of Glaucoma (Primary Open Angle Glaucoma,Primary Angle Closure Glaucoma); and various Medical Regimes for Management of Glaucoma. [Topical Beta Blockers, Carbonic Anhydrase inhibitors, Prostaglandin analogues, Adrenergic Drugs Miotics (Pilocarpine)].	CC	МК	КН	L&PPT ,L	T-CS,VV- Viva,QZ ,T- OBT	F&S	ш	-	LH
CO5	Describe fundamentals of surgical techniques for Management of	CC	NK	KH	BL,L_V	QZ ,M-	F&S	III	-	NLHT23.1

	Glaucor and cyc	ma (Peripheral Iridectomy, Trabeculectomy, lodestructive procedures).					C,ML	POS,CHK				
CO3, CO7	Summarize the steps involved in the technique of Tonometry and Perimetry.			CC	МК	КН	D-BED, PBL,TU T,D-M	QZ ,P- EXAM,SP	F&S	III	-	NLHP23.1
Non Lo	Ion Lecture Hour Theory											
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT 2	23.1	Surgical Procedures for Glaucoma.	<ul> <li>A) Interpretendendendendendendendendendendendendende</li></ul>	roduce stu leral iridec ications as uce the stu- ow recorde oments to action. le students d. mmarize k low studen tions.(10 r inforce the courage stu aucoma typ the end of ds used to equired to e quizzes, s poster by nce, and w	dents to th tomy, trab sociated w idents to vid d surgical explain im with proc ey concept ts to ask q nin.) important idents to th be and seven f the activi manage g ensure suc written ex t its clarity whether key early and c	e surgical eculectom /ith glauco arious Sur procedure portant str edural che ts, and cor uestions a ce of steril nink critica erity. ty, student laucoma, t cessful ou ams, and p of inform / elements oncisely, v	techniques by, and cycl oma surgery gical instru s to give str eps. Explai ecklists to h nplications nd clarify d e technique ally about v ts should ha their indicat tcomes. poster maki ation, logic like the pr while also c	used in the ma odestructive p (, ments; Post-op udents a realist n each step the elp them reme .(05 min.) loubts regardir es during all pr when each surg ave a solid und tions, potential ng to evaluate cal organization e-operative, op	anagement rocedures, perative m tic view of proughly, i mber the s ag the proc ocedures t gical techn erstanding complica students' n, visual ap perative an e visual des	t of Gla and to onitorir the pro- ncludin steps an eedures o minir ique is a g of the tions, a underst ppeal, s d post-o sign and	ucoma, na understan og tools. ocess. (45 g the ratio d ensure r and their nize infec appropriat different s nd the pos anding an cientific s operative j d readabili	tion risk. tion risk. te based on surgical to-operative d skills. procedures ty from a

		distance.
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 23.1	Discussion on Tonometry and Perimetry.	A) Divide Students in small groups of 4 to 6. Tonometry Practical:(45 min.)
		<ul> <li>Introduction: Explain different types of tonometer, the purpose of measuring IOP ,its importance in diagnosing glaucoma.</li> <li>Demonstrate the procedure.</li> <li>Perform the digital tonometry on different patients or among themselves</li> <li>Discussion: Review normal IOP ranges (10-21 mmHg) and their clinical significance.</li> </ul>
		Perimetry Practical:(45 min.)
		<ul> <li>Introduction: Explain the concept of visual fields and conditions affecting them (e.g., glaucoma, optic neuropathy).</li> <li>Result Interpretation: Teach students how to analyze printouts (e.g., blind spots, scotomas).</li> <li>Key Points to Emphasize- Importance of patient cooperation and fixation; Proper alignment of instruments for accurate readings; Identification of normal vs. abnormal findings in both tests.</li> <li>B) Summarize findings and their clinical implications. Answer student queries and clarify</li> </ul>
		doubts.Encourage students to reflect on challenges faced during the practical.(10 min.) C) Evaluate the students by conducting quiz or demonstrating on model as a simulated patient focusing on student's understanding of anatomy, techniques, decision-making, and appropriate response to complications.

Topic	24 Drishtigata Roga-1 (LH :7 NLHT: 1 NLHP: 4)									
A3	B3	<b>C3</b>	D3	E3	F3	G3	H3	I3	K3	L3
CO2, CO5	Describe in brief Drishti Vichara as per Susruta Samhita.Expound the clinical features of Patalagata Timira.	CC	МК	КН	L&PPT ,L	VV- Viva,QZ ,PUZ	F&S	III	-	LH
CO2, CO5	Elaborate clinical features and management of Doshaja Timira.	CC	МК	КН	L,L&PP T	T-OBT,VV- Viva	F&S	III	-	LH
CO2, CO5	Explain Clinical features and Treatment of Kacha and Linganasha.	CC	МК	КН	L&PPT ,L	T-OBT,M- POS,CL- PR	F&S	III	-	LH
CO5	Narrate Kaphaja Linganasha Shastrakarma- Poorva , Pradhana, Pashchat karma; Vedhana Shalaka; Upadravas.	CC	МК	КН	L&PPT ,FC,DIS	CL-PR,QZ	F&S	III	-	NLHT24.1
CO2, CO5	Define and expound etiological and clinical classification, clinical features, complications and treatment of errors of refraction - (Myopia, Hypermetropia, Astigmatism).	CC	МК	КН	L&PPT ,L	VV-Viva,T- OBT	F&S	III	-	LH
CO2, CO5	Define, Describe etiology, clinical features and treatment of Presbyopia and Amblyopia.	CC	DK	КН	L,L&PP T	T-OBT,QZ ,VV-Viva	F&S	III	-	LH
CO2, CO5	Detail Clinical features and Treatment of Pitta-vidagdha Drishti, Kapha-vidagdha Drishti, Dhumadarshi and Ushna-vidhagdha Drishti.	CC	DK	КН	L,L&PP T	T-OBT,VV- Viva	F&S	III	-	LH
CO2, CO5	Describe the clinical features of Abhighataja Linganasha, Sanimittaja Linganasha, Animitta Linganasha, Gambhirika and Hraswajadya.Explain the clinical features and treatment of Nakulandhya.	CC	DK	КН	L,L&PP T	QZ ,VV-Vi va,T-OBT	F&S	III	-	LH
CO3,	Demonstrate the technique of Fundus examination.	PSY-	MK	SH	ML,D,P	QZ ,SA	F&S	III	-	NLHP24.1

CO7		GUD			T,PBL, D-BED					
CO3, CO4, CO6, CO7	Present an appropriate history in a patient with Timira (Dimness of vision).	AFT- RES	МК	SH	PBL,CD ,RP,D,S IM	P-EXAM,O SCE,P- VIVA	F&S	III	-	NLHP24.2

## Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 24.1	Kaphaja Linganasha Shastrakarma.	<ul> <li>A)The teacher will form five study groups to discuss and share information, each for Purva, Pradhana, Pashchat karma; Vedhana Shalaka and Upadravas of Kaphaja Linganasha.</li> <li>Teacher will instruct students to study themselves, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness. The topics should be presented by power point presentations. Each group should be given a time of 05-08 minutes.</li> <li>OR</li> <li>A)Teachers may use Flipped Classroom technique. The importance as world's first cataract removal technique should be stressed.</li> <li>B) Analyse the students on following criteria- Student participation, Level of curiosity, and Willingness to ask questions; Judge the presentation on following criteria- Content Accuracy, Completeness, Organization, Clarity of language and explanation of technical terms.Provide constructive feedback on their performance, highlighting areas of improvement and excellence.</li> <li>OR</li> <li>B) Utilize pre-class quizzes or short assignments to gauge students' prior knowledge and preparation for the in-class activities; Encourage students to reflect on their learning process and identify areas where they need further support; Review and re-solve the problems they get wrong.</li> </ul>
Non Lecture H	Iour Practical	

S.No	Name of Practical	Description of Practical Activity
NLHP 24.1	Fundus evaluation (ophthalmoscopy).	<ul> <li>A)Students will be demonstrated the parts of the ophthalmoscope and the correct technique for using the ophthalmoscope.</li> <li>Describe and distinguish the fundoscopic features in a normal condition and in abnormal retinal conditions.</li> <li>OR</li> <li>A)They will be shown pictures and videos of normal fundus and abnormal retinal conditions.</li> <li>B) Teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>Provide constructive feedback on their performance, highlighting areas of improvement and excellence.</li> <li>OR</li> <li>C)Recommend apps and online resources that offer virtual practice scenarios.</li> <li>D) It is preferable to provide self-evaluation in a simple form, such as a quiz.</li> <li>OR</li> <li>Self-assessment can be done on following parameters:- Ethical awareness, workplanning, scientific method of working, coping with mistakes.</li> </ul>
NLHP 24.2	History taking in a patient with Timira (Dimness of vision).	<ul> <li>A) Present a clinical case of Timira (Dimness of vision) and have students work in groups to gather history, discuss differential diagnoses, and plan management.</li> <li>Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.</li> <li>Have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions</li> <li>OR</li> <li>A)Utilise advanced simulation technology to create realistic patient scenarios, helping them practice history taking and clinical reasoning skills.</li> <li>OR</li> <li>A)Use standardized patients( actors or fellow students )to role-play patients with Timira (Dimness of</li> </ul>

	<ul> <li>vision).</li> <li>OR</li> <li>A) Recommend apps like Geekymedics, wikimeds that offer virtual practice and quizzes on history-taking skills.</li> <li>B)Break students into small groups for more focused practice and individualised feedback.</li> <li>C) Have students keep reflective journals where they document their experiences, challenges, and learning points from taking patient histories.</li> <li>OR</li> <li>C)Conduct OSCEs where students rotate through stations to practice history taking and receive immediate feedback.</li> <li>Encourage students to assess their own performance and identify areas for improvement.</li> <li>OSCE stations to have signs of General examination, local examination, psychomotor skills, communication skills and history taking of a particular examination . The assessor should use checklists to evaluate students' performance in a reliable and consistent way.</li> <li>Communication skills to be assessed by Kalamazoo essential elements communication checklist.</li> </ul>
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### Topic 25 Nayanabhighata (LH :1 NLHT: 0 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO5, CO6	Describe causes, prognosis, clinical features and treatment of Nayanabhighata.Explain types, clinical features and management of Ocular trauma.Narrate clinical features, methods of removal, and treatment of Agantuja Akshi Shalya (Foreign body in eyes) and when to seek an expert opinion form Netra Shalaki/ Ophthalmologist.	CC	МК	КН	L,L&PP T	C-VC,T-O BT,DEB,Q Z ,VV-Viva	F&S	Ш	-	LH
CO5, CO6, CO7, CO8	Summarize the steps involved in the technique of removal of Agantuja Shalya from the eye.	CC	МК	КН	BS,ML, SIM,D- M,DIS	P-MOD,D OPS,DOPS	F&S	III	-	NLHP25.1

Non Le	ecture Hour Theory										
S.No	Name of Activity	Desci	ription of	Theory A	Activity						
Non Le	ecture Hour Practical										
S.No	Name of Practical	Desci	ription of	f Practical	Activity	7					
NLHP 2	25.1 Evaluation of Agantuja Shalya (Foreign body in eyes).	<ul> <li>A) Stastuder</li> <li>OR</li> <li>A) Definition</li> <li>B) Difficult</li> <li>C) Teastor</li> <li>Other for the standard standar</li></ul>	art with a s nts to brain emonstrate ments; or scuss the l acher shou than the co ummarize to termine the odels: • An asse • The ass • The trai	short case p istorm and the correct a video of a cey steps in ild educate onjunctiva, he session' te level of u ssor observe essor recorre essor provi nee receive	resentation to work in t technique a real or sin Pashchate the stude to a Netra s key poin understance res a traine des their of des imme es construe	on of a cond n pairs or g e of remova imulated fo karma, such nts when ar a Shalaki (conts. ling by Dire ee performi oservations diate feedba	lition of Agant roups to discus al of foreign bo reign body ren h as pain mana ad how to refer ophthalmologis ect Observation ng a procedure on a structured ack to the train ack that focuse	e. d form. es on esser	a (Forei types of conjunc ng with and infec with a f	gn body in f foreign b tiva using topical and ction moni foreign boo cills or Der	eyes). Ask ody in eyes. suitable esthetic use. toring. ly in the eye nonstration
Topic 2	26 Drishtigata Roga-2 (LH :1 NLHT: 1 NLHP: 2)		-		-	-	_	-			
A3	B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2,	Define and enlist classification of Cataract.Discuss the etic	ology,	CC	MK	КН	L&PPT	T-OBT,QZ	F&S	III	-	LH

CO5	clinical Senile C	features, investigations, and medical management of Cataract.	f					,VV-Viva				
<ul> <li>CO2, Enlist procedures for surgical management of Senile</li> <li>CO5 Cataract.Expound Small Incision Cataract Surgery (SICS) and</li> <li>Phacoemulsification (Their indications, contraindications, type of anesthesia, major surgical steps, post-operative care, complications, and their management in brief).Summarise current research studies on Kaphaja Linganasha/Timira (Cataract).</li> </ul>		nd ype of urrent	СС	NK	K	L_VC,D IS,L&G D,ML	OSCE,QZ , VV- Viva,COM	F&S	Ш	-	NLHT26.1	
CO3, CO7	Demons Catarac	strate the technique of ocular examination in a patier t.	nt with	AFT- RES	МК	SH	D,D-BE D,ML,P BL,CD	P-VIVA,O SCE,360D, PP- Practical	F&S	III	-	NLHP26.1
Non L	ecture H	lour Theory										
S.No		Name of Activity	Desci	ription of	Theory A	ctivity						
NLHT :	26.1	Surgical management of Senile Cataract and current research studies on Kaphaja Linganasha/Timira (Cataract).	Surgio The te A)Use OR A)Sho mome action Provid missee OR A) Th contro B) En	cal Manage eacher may e anatomic ow recorde ents to expl de students d. e teacher m olled, risk-f	ement of So al models, d surgical j ain import with proce nay use Vi free enviro	enile Cata diagrams, procedure ant steps. edural che deo Recor nment. sk questio	ract (40 mi and 3D an s to give st Explain ea ecklists to h edings or su	n.) imations to ill udents a realis ch step thorou; elp them reme urgical simulat	ustrate surg tic view of ghly, inclu mber the s ors to prov	gical pr the pro ding the teps and ide han	ocedures. ocess. Paus e rationale d ensure n ds-on prac Foster a co	se at key behind each othing is ctice in a

	<ul> <li>learning environment.</li> <li>The teacher should Include scenarios where complications arise and teach students how to manage these situations.</li> <li>C) Stress the importance of patient safety, aseptic techniques, and surgical hygiene.</li> <li>Discuss ethical issues related to surgery, including informed consent, patient confidentiality, and decision-making.</li> <li>OR</li> <li>A) Provide access to reputable online resources and journals for further reading and research.</li> <li>B) To evaluate, use quizzes, written exams, and practical assessments through OSCE to evaluate students' understanding and skills.</li> <li>Provide constructive feedback on their performance, highlighting areas of improvement and excellence.</li> <li>C) Instruct students to go through various research works published in peer-reviewed journals, compile and present the data followed by a discussion. Assess them on Content, Focus, Clarity and coherence, In-depth analysis, Grammar and spelling,Effective use of visual aids.(15 min.)</li> </ul>
Non Lecture I	our Practical

#### | Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 26.1	Examination of Cataract.	<ul> <li>A) Break students into small groups for more focused practice and individualized feedback.Present a clinical case of cataract, including examination of visual acuity and iris shadow. And have students work in groups to gather history, discuss differential diagnoses, and plan management.</li> <li>Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.</li> <li>Have students shadow experienced clinicians during patient history taking to observe best practices</li> </ul>

		and techniques OR Use standardize The student wil /volunteer in a s individualized f OR Recommend aj taking skills.	and facilita ed patients( 1 take infor simulated e feedback. pps like Ge	te post-sha actors or f med conse nvironmer ekymedics	adowing di Fellow stude ent, counsel nt.Break stu and wikim	scussions. ents )to role-pl , examine, and idents into sma neds that offer	ay patients l explain s ill groups : virtual pra	s with c urgical for mor ctice ar	eataract. steps to a p e focused p nd quizzes	patient practice and on history-
		OR Make them a pa B) Have studen learning points OR Conduct OSCE immediate feed Encourage stud OSCE stations	art of surgic ts keep refl from taking s where stu back. ents to asse to have sign	al team for ective jour g patient h dents rota ss their ow as of Gene	r Cataract. rnals where istories. te through s vn perform ral examin	they document stations to prace ance and identitation, local exa	nt their exp etice histor ify areas for mination,	oerience y taking or impr psycho	es, challeng g and recei ovement. pmotor skil	ges, and ve ls,
		communication OR The students ca the nursing staf	skills and the assess f and the assess	nistory tak ed through sessor do	ing of a pa a 360 degre the evaluat	rticular examir e assessment v ion with a pre-	nation. vherein the given stan	e studer dard fo	nt himself, rmat.	the peers,
Topic	27 Drishtigata Roga- 3 (LH :2 NLHT: 0 NLHP: 0)									
A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3
CO2, CO5	Define and describe etiopathology, classification, clinical features, complications, and treatment of Madhumehajanya	CC	DK	КН	L&PPT ,L	T-OBT,CO M,VV-Viva	F&S	III	-	LH

CC

DK

KH

Drishtiroga (Diabetic Retinopathy).

CO2,

Define, describe etiopathology, clinical features, complications

\_

LH

L&PPT VV-Viva,T-

F&S

III

CO5	and trea macular	ttment of -Jarajanya Pitabindu Upaghata (Age-related degeneration) and Drishti-nadi Shosha (Optic Atrop	d phy).				,L	OBT						
CO2, CO5, CO7	<ul> <li>Present a case of Madhumehajanya Drishtiroga (Diabetic</li> <li>Retinopathy).</li> </ul>			AFT- RES	МК	КН	ML,PB L,D- BED	VV- Viva,OSCE	F&S	III	-	NLHP27.1		
Non Le	Lecture Hour Theory						•							
S.No		Name of Activity	Description of Theory Activity											
Non Le	ecture H	Iour Practical												
S.No		Name of Practical	Description of Practical Activity											
NLHP 2	27.1	Case discussion on Madhumehajanya Drishtiroga (Diabetic Retinopathy).	<ul> <li>A) Int</li> <li>Brid</li> <li>Expl</li> <li>Prov</li> <li>definit</li> <li>B) Int</li> <li>Expl</li> <li>Disc</li> <li>Disc</li> <li>Desc</li> <li>like O</li> <li>C) Ha</li> <li>Prov</li> <li>Gui</li> <li>retinop</li> <li>Prese</li> <li>Ence</li> <li>treatm</li> <li>Div</li> </ul>	roduction efly introd plain the ir ide a conc tion, preva eractive La ain the pat uss the sta cribe comm CT (Optic nds on act ide studen ide them the pathy. ent real or courage stu- ent option ride studen	(10 min.) Juce the top mportance ise overvie alence, and ecture (20 thophysiol ges of dial non sympt al Coheren ivity-(70 m ts with acco mough the simulated udents to a as.	pic and our of underst ew of Mad significan minutes) ogy of dia petic retino oms and d nee Tomog nin.) ress to reti process of case studi nalyze the all groups	tline the ob anding dia humehajar ace. betic retino pathy and iagnostic r graphy). nal images f examinin es of patier cases, ider to discuss	ojectives of the betic retinopath nya Drishtiroga opathy using di its progression nethods, includ g retinal image nts with diabeti ntify the stage o the case studie	practical s ny for futu (Diabetic agrams an ling fundo s and iden ic retinopa of retinopa s and share	session. re healtl Retinop d image scopy an atifying l athy. athy, and e their fi	hcare prop pathy), ind es. nd imagin key featur d suggest indings.	fessionals. cluding its g techniques res of diabetic possible		

Topic 2	<ul> <li>Facilitate a discussion on the challenges and management strategies for diabetic retinopathy.</li> <li>Encourage them to discuss the relative Arhata-anarhata of Kriyakalpa.</li> <li>D) Assessment and Wrap-Up (10 minutes)         <ul> <li>Administer a short quiz to assess students' understanding of the topic.</li> <li>Review the answers and provide feedback.</li> <li>Summarize the key takeaways from the session.</li> <li>Encourage students to continue their learning and stay updated on advancements in diabetic retinopathy.</li> </ul> </li> <li>pic 28 Dravyas used in Netra Chikitsa-2 (LH :0 NLHT: 1 NLHP: 0)</li> </ul>									pathy.		
A3	A3 B3			C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO5 Define Mydriatics, Describe Phenylephrine 5% and Tropical 0.5%.Define Cycloplegic agents, Explain Atropine 1%, Homatropine 2%, and Cyclopentolate 1%.			camide	САР	DK	КН	L&GD	CL-PR,VV- Viva	F&S	III	-	NLHT28.1
Non Lo	ecture H	lour Theory							•	•		
S.No		Name of Activity	Description of Theory Activity									
NLHT 2	28.1	Mydriatics and Cycloplegic agents.	A)Teacher will form five study groups to discuss and share information, through link circulated through messaging platforms or google classroom; each for phenylephrine 5% Tropicamide 0.5%, Atropine 1%, Homatropine 2%, Cyclopentolate 1%. Teacher will instruct students to study their dosage, indications, contraindications, untoward effect discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiver B) Each group will be given a duration of 10 minutes to present in Classroom. During class discussions, pay attention to student participation, level of curiosity, and willingness to ask question assess their engagement. assess the presentations on content , focus, clarity and coherence, in-dept analysis, grammar and spelling, delivery of the material, audience engagement, handling nerves, effective use of visual aids. At the end of session, summarize what they have learned.							vulated ide 0.5%, ard effects; whensiveness. uss sk questions e, in-depth nerves,		

Non L	Non Lecture Hour Practical										
S.No	Name of Practical D	escription of	<sup>•</sup> Practica	l Activity	7						
Topic (LH :1	29 Dravyas used in Netra Chikitsa-3, Swasthavritta, Ku 1 NLHT: 3 NLHP: 8)	poshanajany	a Netravi	kara (Ma	alnutritio	nal Eye Disor	ders), C	ommur	nity Oph	thalmology.	
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3	
CO5, CO6	Identify and describe Guna,Karma and Matra of Samanya Chakshushya Dravyas.	CC	MK	КН	D,DG	P-EXAM,P- ID	F&S	III	-	NLHP29.1	
CO5	Observe the communication between physician and patient regarding prescription (Matra, Anupana, Route of administratio Untoward effects) of Samanya Chakshushya Yoga.	on, CC	DK	КН		Log book	F	III	-	NLHP29.2	
CO5	Describe Netra Swasthyahitakara Dinacharya.	CC	MK	КН	DIS,LS, BL	VV-Viva,C OM,CL-PR	F&S	III	-	NLHT29.1	
CO5	Describe Netra Swasthyahitakara Aahara Evam Vihara.	CC	DK	КН	LS,DIS, PER	CL-PR,VV- Viva,QZ	F&S	III	-	NLHT29.2	
CO5	Describe causes, clinical features, prevention and treatment of Naktandhya (Night Blindness); and Jeevanasatwa-Kshayajanya Netraroga (Vitamin deficiency disorders)(Malnutritional Eye disorders)- (Deficiency of Vitamin-A, Vitamin-B1, Vitamin-B Vitamin C, Vitamin-D).	a CC 12,	DK	КН	FC,DIS	QZ ,VV- Viva,PRN	F&S	III	-	NLHT29.3	
CO4, CO7	Present an appropriate history in a patient presenting with Naktandhya (night blindness).	AFT- RES	MK	КН	SIM,RP ,PBL	OSCE,Log book,QZ	F&S	III	-	NLHP29.3	
CO2, CO5	Describe the etiology, clinical features, WHO Classification, management and prophylaxis of Xerophthalmia. Describe clini	cal	NK	КН	L&PPT ,L	VV-Viva,T- OBT	F&S	III	-	LH	

fea	features and management of Xerosis.											
Non Lectu	re Hour Theory											
S.No	Name of Activity	Desc	ription of	Theory A	Activity							
NLHT 29.1	Netra Swasthyahitakara Dinacharya.	<ul> <li>A) Teacher forms groups to compile information from classics. These groups can form subgroups to divide chapters from classics. (30 min.)</li> <li>Librarians can collaborate with teacher to incorporate medical informatics into medical education. Librarians can help students evaluate and synthesize information.</li> <li>OR</li> <li>Digital libraries can create a medical informatics program that complements this activity. After this Library session, they should come back to classroom and present information from the library and classroom lecture. (25 min.)</li> <li>Debriefing can help maximize learning by summarizing and clarifying what was learned.</li> <li>B) Provide feedback to help students identify areas for improvement. (05 min.)</li> <li>Impress upon them that presentation and contents are equally important in this topic and evaluate th accordingly. After class, ask these groups to compile the information. Each group will submit separ compilation.</li> <li>C)Evaluation of compilation can be done on criteria like Content Accuracy, Completeness, Organization, Clarity of language and explanation of technical terms, Consistency, Uniform presentation of citations and references.</li> </ul>								bgroups to lucation. Fom the evaluate them pmit separate s, fm		
NLHT 29.2	Netra Swasthyahitakara Aahara Evam Vihara.	Aahara Evam Vihara.A) The teacher will form two study groups to discuss and share information, each for Ne Swasthyahitakara Aahara Evam Vihara. (pre class) Teacher will form sub groups to discuss and share information, each for Various eye exe Sunning, Palming, Ball exercise, Bar exercise, candle light reading, pencil push-ups, and eight. (Pre-class)								ch for Net s eye exerc -ups, and t	ra cises like figure of	

		<ul> <li>Teacher will Instruct the students to study themselves, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness.</li> <li>Teacher will ask the groups to present information about Aahara in the classroom. (20 min.) Sub groups can be made according to Aahara-varga. And 30 minutes will be given to present Eye exercises.</li> <li>B) Utilize pre-class quizzes or short assignments to gauge students' prior knowledge and preparation for the in-class activities; During class discussions, pay attention to Communication skills, Teamwork, Critical thinking, Body language, Interpersonal skills to assess their engagement; Encourage students to reflect on their learning process and identify areas where they need further support; Review and resolve the problems they get wrong.</li> <li>C) At the end of session, summarize what they have learned.</li> </ul>
NLHT 29.3	Jeevanasatwa-kshayajanya Netraroga (Vitamin deficiency disorders)(Malnutritional Eye disorders).	<ul> <li>A) Teacher will form six study groups to discuss and share information, each for Naktandhya (Night Blindness), Jeevanasatwa-kshayajanya Netraroga (Vitamin deficiency disorders)(Malnutritional Eye disorders)- (Deficiency of Vitamin-A, Vitamin-B1, Vitamin- B2, Vitamin C, Vitamin-D) (causes, clinical features, prevention and treatment)</li> <li>Teacher will instruct students to study themselves, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness.(pre-class)</li> <li>The groups will present in the classroom. (06-08 min. for each group)</li> <li>B)Utilize pre-class quizzes or short assignments to gauge students' prior knowledge and preparation for the in-class activities; During class discussions, pay attention to student participation, level of curiosity, and willingness to ask questions assess their engagement; Encourage students to reflect on their learning process and identify areas where they need further support; Review and re-solve the problems they get wrong. It is preferable to provide self-evaluation in flipped classroom in a simple form, such as a quiz. At the end of session, summarize what they have learned and plan what to do next.(10-15 min.)</li> </ul>
Non Lecture	Hour Practical	

S.No	Name of Practical	Description of Practical Activity
NLHP 29.1	Use of Samanya Chakshushya Dravyas in Eye diseases	The drugs to be studied are :- Amalaki, Vibheetaki, Hareetaki, Draksha, Yashtimadhu, Punarnava, Saindhava, Shigru, Lodhra, Nimba, Manjistha, Daruharidra, Gairika. A) Prepare handouts of the pictures of the drugs and handover to students. Teacher will instruct students to learn to identify common chakshushya dravyas by specimens and pictures. OR Use knowledge of Dravyaguna (pharmacology) to provoke pharmacotherapeutic thinking and reasoning. Explain students the indications of these drugs in Netraroga OR Ask them to go through various databases like https://bsi.gov.in/page/en/medicinal-plant-database. B) Questionnaires can be used to assess a student's knowledge of drugs. The questionnaire can include questions about the drug's name, dosage, analyzing the drug's active ingredients, side effects, precautions, and more.
NLHP 29.2	Prescription of Samanya Chakshushya Yoga.	<ul> <li>A) Students will observe the communication between physician and patient regarding prescription (Dose, anupana, route of administration, anticipation of effects) of Samanya Chakshushya Yogas like - Triphala Ghrita, Jeevantyadi Ghrita, Patoladi Ghrita, Saptamruta Louha, Triphala Guggulu, Chandrodaya Varti, Ilaneer Kuzhampu and Triphala Churna.</li> <li>They will journal these points.</li> <li>B)They are encouraged to ask questions.</li> <li>C) They should be able to identify these drugs.</li> <li>D) Action of these Yogas in diseases described in Shalakyatantra is explained by the teacher.</li> <li>E) Evaluate their log books on clarity, completeness, comprehensive information. OR Students can review each other's logbooks to provide additional feedback and perspective.</li> </ul>

NLHP 29.3	Evaluation of Naktandhya (night blindness).	<ul> <li>A) Present a clinical case of night blindness and have students work in groups to gather history, discuss differential diagnoses, and plan management.</li> <li>Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.</li> <li>OR</li> <li>Engage students with virtual patient software that simulates real-life scenarios, helping them practice history-taking and clinical reasoning skills.</li> <li>OR</li> <li>Use standardized patients( actors or fellow students ) to role-play patients with night blindness</li> <li>Break students into small groups for more focused practice and individualized feedback.</li> <li>OR</li> <li>Recommend apps like Geekymedics, Wikimeds that offer virtual practice and quizzes on history-taking skills.</li> <li>B) Have students keep reflective journals where they document their experiences, challenges, and learning points from taking patient histories.</li> <li>OR</li> <li>Conduct OSCEs where students rotate through stations to practice history taking and receive immediate feedback.</li> <li>Encourage students to assess their own performance and identify areas for improvement.</li> <li>OSCE stations to have signs of General examination, local examination, psychomotor skills, communication skills and history taking of a particular examination . The assessor should use checklists to evaluate students' performance in a reliable and consistent way. Communication skills to be assessed by Kalamazoo essential elements communication checklist.</li> </ul>

Paper 2 (Shiro-Karna-Nasa-Mukharoga (Oto-rhino-laryngology and Oro-dentistry))										
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3

Cour se out come	Le	arning Objective (At the end of the session, the students should be able to)	e	Domai n/sub	MK / DK / NK	Level	T-L method	Assessmen t	Assess ment Type	Ter m	Integra tion	Туре
Topic 3	80 Enur	neration, Nidana Panchaka and Sadhya-asadh	nyata o	f Shiroro	ga (LH	:2 NLHT	: 1 NLHF	<b>P: 4</b> )				
A3		B3		C3	D3	E3	<b>F3</b>	G3	Н3	<b>I</b> 3	K3	L3
CO1, CO2, CO5	Classify Sadhya- and San Vataja S Sannipa	Shiroroga according to Sushrutha and Vagbhata.End asadhyatwa of Shiroroga.Explain the Samanya Nida aprapti of Shiroroga.Explain Hetus, Lakshana, Chikit Shiroroga, Pittaja Shiroroga, Kaphaja Shiroroga and taja Shiroroga.	list na tsa of	CC	МК	КН	L&PPT ,L	QZ ,P-VIV A,T-OBT, M-POS,S- LAQ	F&S	Ι	-	LH
CO2, CO5, CO7	Present an appropriate history in a patient presenting with Shirahshoola. Learn Differential diagnosis of Shirorogas -Vataja, Pittaja, Kaphaja, Sannipataja, Suryavartha, Anantavata, Ardhavabhedhaka.		ataja,	AFT- RES	МК	SH	CD,D,T UT,PBL ,RP	P-EXAM,P -VIVA,SA, OSCE	F&S	Ι	-	NLHP30.1
CO2, CO5	Underst and disc	and the International Classification of Headache ICF uss Samanya Yogas used in Shiroroga.	ID-3	CC	DK	КН	LS,L&P PT ,DIS,SY	M-POS,CL- PR	F&S	Ι	-	NLHT30.1
CO2, CO7	Perform Karna N	History taking and give outline of case sheet (Shira Jasa Mukha roga).		CAP	MK	SH	BL,RP, D,TUT, PBL	SP	F&S	Ι	-	NLHP30.2
Non Le	ecture H	our Theory	·									
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
NLHT 30.1Poster presentation on ICHD-3 Classification. Compiled presentation on Common Yogas used in Shiroroga.A) The Classi Studen ensure		e teacher v fication of its will stu accuracy	vill form fi ICHD-3 a dy themse and compr	ve differen nd 04 for S lves, discu ehensiven	nt study gro Samanya Y ass with peo ess.	oups to discuss ogas. ers, and review	s and share	e inforn er's not	nation. One	e group for ings to		

		<ul> <li>They would make a Poster as per ICHD-3. The presentation time will be 10 minutes. Assess on criteria like clarity of information, visual appeal, scientific soundness, and readability from a distance.</li> <li>B) To study Yogas, the students are divided into 04 groups; they can go to the library (Pre-class), ask Librarian's help, they can subdivide subtopics -usage, dosage, and outcomes. Compile the Yogas.</li> <li>Varunadi Kashaya</li> <li>Mahalakshmi Vilasa Rasa</li> <li>Laghusutashekhara Rasa</li> <li>Varanadi ksheera Ghrita.</li> </ul> They can split time between different activities like searching for articles, reading, and taking notes. They should familiarise themselves with tools like Zotero, to collect information about primary and secondary sources, such as journal articles, and books. C) At the end of the session, the teacher should ask them to summarize what they have learned and present in class. Each group is given 05 minutes to present. Judge the compiled presentation on- <ul> <li>Content Accuracy.</li> <li>Completeness.</li> <li>Presentation in a logical and coherent structure.</li> <li>Clarity of language and explanation of technical terms.</li> <li>Uniform presentation of citations and references.</li> </ul>
Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 30.1	Evaluation of Shirahshoola.	A) Present a clinical case of Shirorogas (Headaches) - Any Type of Headache (such as Suryavarta,

		<ul> <li>Ardhavabhedhaka, Anathavata) and have students work in groups to gather history, discuss differential diagnoses, and plan management.</li> <li>Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.</li> <li>Have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions.</li> <li>Encourage students to present a case in a scientific format.</li> <li>OR</li> <li>Use standardized patients(actors or fellow students )to role-play patients with Shirahshoola.</li> <li>C) Break students into small groups for more focused practice and individualized feedback.</li> <li>D) Recommend apps like Geekymedics, Wikimeds that offer virtual practice and quizzes on history-taking skills.</li> <li>E) Have students keep reflective journals where they document their experiences, challenges, and learning points from taking patient histories.</li> <li>F) Conduct OSCEs where students rotate through stations to practice history taking and receive immediate feedback.</li> <li>G) Encourage students to assess their own performance and identify areas for improvement.</li> </ul>
NLHP 30.2	Introduction of case sheet for Shiro Karna Nasa Mukha roga.	<ul> <li>A)Get familiar with the Case sheet.</li> <li>Form groups of 5-7 students each. Facilitate discussion amongst themselves regarding the topic and observe.</li> <li>The student tries to connect the knowledge gained in previous classes to applicable clinical framework.</li> <li>The teacher shows the student how to see the case sheet, the way he sees it.</li> <li>The teacher helps to bring things together in the context of Shiro-karna nasa mukha roga.</li> <li>Teacher and student come to a point of new understanding after discussion.</li> <li>B) Explain why case-taking is crucial for diagnosis and treatment planning.</li> <li>Conduct live demonstrations with real or simulated patients to model effective case-taking.</li> <li>C)Use videos of experienced clinicians.</li> <li>D)Provide a structured framework for students to follow during case taking.</li> <li>E) Teach Mnemonics like OLD CARTS (Onset, Location, duration, Character, Aggravating/relieving</li> </ul>

<ul> <li>factors, timing, severity)</li> <li>F)Engage students with virtual patient software that simulates real-life scenarios, helping them practice history-taking and clinical reasoning skills.</li> <li>G)Use standardized patients (actors or fellow students )to role-play patients.</li> <li>H)Teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>Highlight the role of active listening.</li> <li>Integrate case-taking with physical examination skills, teaching students correlations between them.</li> <li>I)Use Simulated patients as an evaluation method.</li> </ul>
<ul> <li>Create realistic patient scenarios with detailed medical histories, presenting complaints, and desired outcomes.</li> <li>Thoroughly train Simulated Patients to accurately portray patient behaviors, emotions, and physical presentations.</li> <li>Assess on criteria like Communication skills, Physical examination skills, History taking, and developing treatment plans.</li> <li>Provide constructive feedback on their performance, highlighting areas of improvement and excellence.</li> </ul>

#### Topic 31 Samanya Chikitsa of Shiroroga (LH :0 NLHT: 2 NLHP: 4)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO1	Explain Shiraso Uttamangatwam.	CC	DK	KH	BL,DIS, BS	DEB,CL- PR	F&S	Ι	-	NLHT31.1
CO5, CO6, CO7	Demonstrate under supervision Moordhni Taila.	PSY- GUD	МК	SH	RP,D,D- M	DOPS,DOP S	F&S	Ι	-	NLHP31.1
CO2, CO3,	Present an appropriate history in a patient presenting with Ardhavabhedaka.	AFT- RES	МК	SH	CD,RP, PBL,D-	SA,PP-Prac tical,OSCE	F&S	Ι	-	NLHP31.2

CO7							BED						
CO3, CO5	CO3, Discuss Ardhabhedaka, Anantavata and Suryavarta. CO5			CC	МК	КН	DIS,PE R	PP-Practica 1,INT,CL- PR	F&S	I	-	NLHT31.2	
Non Le	ecture H	lour Theory		•				•		-			
S.No		Name of Activity	Desci	Description of Theory Activity									
NLHT 3	31.1	Discussion on Shiraso Uttamangatwam.	A)Tea etc., o Teach Kriya marga B)Stu accura infere They Shiras search C) Ea presen the top partic	acher will or google c her will for related to a. dents will acy and co nces. can go to 1 s,Marma,N ning for arr ch group v ntation and pic for 10 ipation lev	share infor lassroom, a m differen Shiras; Nie study then mprehensi library, ask lervous Sy ticles, read vould be gi l then they minutes. A rels, clarity	mation thr a week bef t study gro danatmakan nselves, dis veness. The Librarian stem,etc and ing and tak iven 10 mi can have a t the end of of kowled	ough cross fore. bups to disc involvema scuss with ey can Bra 's help, the mongst the cing notes. nute to pre a debate on of session, i lge, visual	-platform mes cuss and share ent of Shiras in peers, review o instorm their s y can subdivid mselves and sp sent in the class the scientific summarize and appeal and org	saging ser this inform Indriya-v each other sub-topic F e subtopic plit time be ssroom in r nature, ob l give feed ganisation	vices lil nation, o ikaras; s notes Pre-clas s such a etween the form fectivity back ba of thous	ke Signal, each for R and Shiras and findin s and com- as Rachana different a n of Power and appli ased on the ghts.	WhatsApp achana, s as Chikitsa- ngs to ensure e to a Shareera of activities like rpoint icability of eir	
NLHT 31.2 Etiology, Clinical Features, and Management of Ardhabhedaka, Anantavata and Suryavarta.			<ul> <li>A) The teacher will form three study groups to discuss and share information, each for Ardhavabhedaka, Anantavata, and Suryavarta.</li> <li>Students will study themselves, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness.</li> <li>Encourage all students to contribute their thoughts, opinions, and evidence-based reasoning, ensuring</li> </ul>										

	<ul> <li>everyone has a chance to speak.</li> <li>Ask probing questions to challenge assumptions, evaluate different perspectives, and encourage students to justify their reasoning.</li> <li>Emphasize the importance of listening attentively to others' viewpoints and building on ideas respectfully.</li> <li>B) Provide feedback: Assessment of -Communication skills, Teamwork, Critical thinking, Body language, Interpersonal skills. At the end of the session, summarize what they have learned.</li> <li>C) Discuss the similarities and usefulness in current practice.</li> </ul>
	C) Discuss the similarities and usefulness in current practice.

#### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 31.1	Application of Shirolepa, Shiro-abhyanga, Shiroseka, and Shirobasti.	<ul> <li>A)Discuss the patient's history, diagnosis, and therapy plan in detail before entering the Therapy Hall. Emphasize the importance of hygienic techniques and the steps to maintain a hygienic environment. Ensure students understand the correct use of PPE whenever necessary.</li> <li>Walk students through the Murdhni Taila procedure step-by-step, explaining the purpose and technique of each step.</li> <li>OR</li> <li>Demonstrate on model.</li> <li>Foster an environment where students feel comfortable asking questions and seeking clarification.</li> <li>Teach students about care for Pashchat-Karma, including monitoring for complications and managing patient recovery.</li> <li>B)Record Methodologies (with patient's consent) for educational purposes. Reviewing these videos can help students learn and improve.</li> <li>C) Promote teamwork and collaboration among students, encouraging them to learn from each other's experiences.</li> <li>Stress the importance of maintaining professionalism, confidentiality, and empathy towards patients.</li> <li>D) Emphasis role of Informed consent. Use role play as an instruction method.</li> <li>E) Use Direct Observation of Procedural Skills (DOPS) as an assessment method.</li> </ul>

		• The trainee receives constructive feedback that focuses on essential skills.									
			<ul> <li>An assessor observes a trainee performing a procedure.</li> <li>The assessor records their observations in a structured form.</li> <li>The assessor provides immediate feedback to the trainee.</li> <li>The format for DOPS can be found at https://www.iscp.ac.uk/static/public/DOPSJul2015.pdf.</li> </ul>							ul2015.pdf.	
NLHP 3	31.2 Evaluation of Ardhavabhedaka.	<ul> <li>A) Prediscuss</li> <li>Encourbuilds</li> <li>Have and tee</li> <li>OR</li> <li>B) Us</li> <li>C) Haa learnin</li> <li>D) Coastaine</li> <li>Encourbases</li> <li>aware</li> </ul>	<ul> <li>A) Present a clinical case of Ardhavabhedhaka, and have students work in groups to gather history, discuss differential diagnoses, and plan management.</li> <li>Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.</li> <li>Have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions.</li> <li>OR</li> <li>B) Use standardized patients(actors or fellow students )to role-play patients with Ardhavabhedaka.</li> <li>C) Have students keep reflective journals where they document their experiences, challenges, and learning points from taking patient histories.</li> <li>D) Conduct OSCEs where students rotate through stations to practice history taking and receive immediate feedback.</li> <li>Encourage students to assess their own performance and identify areas for improvement. Self-assessment can be done on following parameters:- Team work , empathy and openness, ethical awareness, work planning, scientific method of working, structuring, and coping with mistakes</li> </ul>								
Topic 3	32 Karna Rachana Shareera, Nidana Panchaka an	d Saman	ya Chikit	tsa of Kar	naroga (	(LH :2 NI	LHT: 2 NLH	<b>P: 4</b> )			
A3	B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1,Define Karna Nirukti, Karna Shareera (Asthi, Sandhi, Peshi, Sira,CO2Marma) and Shravanendriya, Enlist Karna Rogas, Explain				МК	K	L,L&PP T	M-POS,DE B,PRN,T-O	F&S	Ι	-	LH

	Samanya Nidana, Samanya Samprapti and Chikitsa of Karna Roga.	Describe Samanya					BT,S-LAQ				
CO1	Describe the anatomy of different structure (External, Middle, and Internal) and clinic	es of Karna - Ear al application.	CC	МК	КН	L&PPT ,PER,M L,L_VC ,DIS	P-VIVA,P UZ,PRN,S- LAQ,VV- Viva	F&S	Ι	V-RS,V- RS	NLHT32.1
CO1, CO2, CO4, CO5	Elaborate Karna Roga- Samanya Nidana, S and Sadhya-asadhyata.	Samanya Samprapti	CC	МК	K	L&PPT ,LS,L& GD,DIS ,SDL	P-REC,VV- Viva,M-PO S,T-OBT,C L-PR	F&S	Ι	V-RN	NLHT32.2
CO3, CO7	<ul> <li>Examination of Karna.Demonstrate the use of a headlamp and otoscopy in the examination of Karna, Nasa and Mukha (Ear, Nose and Throat).</li> </ul>		PSY- GUD	МК	SH	PT,TUT ,TBL,R P,ML	P-ID,Log book,P- PRF	F&S	Ι	-	NLHP32.1
CO5, CO6, CO7	<ul> <li>D5, Present cases of Karnarogas.</li> <li>D6,</li> <li>D7</li> </ul>		AFT- RES	МК	SH	D-BED, PBL,TU T,SIM, RP	DOAP,OS CE	F&S	Ι	-	NLHP32.2
Non L	ecture Hour Theory			-	-				-		
S.No	Name of Activity	Desc	cription of	Theory A	Activity						
NLHT	32.1 Presentation on Anatomy of Ear.	A) T actua divid video B) Po spell aids. OR	he teacher s il class thro led into thre os and prese owerPoint p ing, deliver	should provugh variou be groups, cent in front presentation y of the ma	vide the lin s messagi each for E of the ent ns should nterial, aud	nk for audio ng services xternal, mio ire class. T be assessed lience enga	o-visual/anima or Google Cla ddle, and intern he time duratio on the follow agement, handl	tion present assroom. T nal ear; an on for each ing criteria ing nerves	ntations The stuc d they n group a- conte s, and e	s a week be lents can th will go thro will be 15 ent, gramm ffective use	efore the ten be ough those minutes. ar and e of visual

		Models can be used to assess the ability to show important landmarks of the external, middle, and internal ear on. C)The teacher should use puzzles to identify the point/s, and knowledge they have learnt during the session.
NLHT 32.2	Samanya Nidana,Samanya Samprapti,Sadhya- asadhyata of Karna Rogas.	<ul> <li>A) The teacher provides link of powerpoint presentation about the common Samanya Nidana, Samprapti and Sadhya-asadhyata of Karna Rogas. Teacher will then form three study groups to discuss and share information, each for Samanya Nidana, Samprapti and Sadhya-asadhyata.</li> <li>Students will be directed to compile Nidana, Samprapti, and Sadhya-asadhyata from various Ayurveda Classics. Teacher should encourage them to study by themselves, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness.</li> <li>They can be advised by the teacher to go to the library and ask Librarian's help.</li> <li>B) At the end of session, the students should summarize what they have learned and present it in front of the teacher. Each group will be given 10 minutes.</li> <li>C) A discussion will take place about mechanism of each nidana to karnaroga and logic behind their prognosis. (15 min.)</li> <li>D) Evaluation to be done on the basis of :</li> <li>Content Accuracy, any factual errors or inconsistencies.</li> <li>Completeness.</li> <li>Organization- presented in logical and coherent structure.</li> <li>Clarity of language and explanation of technical terms.</li> <li>Consistency, uniform presentation of citations and references.</li> </ul>
		OR Open book test can be used for assessment. OR Posters made by students are assessed. OR Recitation competition of Shlokas can be arranged.

Non Lecture H	Iour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 32.1	Identification and use of basic Ear OPD Instruments.	<ul> <li>A)The teacher should explain to students why examination is crucial for diagnosis.</li> <li>B) The teacher should conduct live demonstrations with real or simulated patients to model effective case-taking.</li> <li>OR</li> <li>The Teacher can make use of videos of experienced clinicians to make students understand the correct use of OPD Instruments.</li> <li>The teacher should then explain parts of instruments, instructions, indications, and contraindications.</li> <li>The teacher can use standardized patients (actors trained to simulate real patient cases) to perform a step-by-step demonstration in a controlled environment.</li> <li>Emphasize key points like technique, safety, and anatomical landmarks should be done.</li> <li>OR</li> <li>C) The Teacher should teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>D) Students should be provided constructive feedback on their performance, highlighting areas of improvement and excellence.</li> <li>E) The teacher should see to it that the student is able to identify instruments used in Karna, Nasa, Mukha OPD.</li> <li>The teacher should observe if the student is able to use a headlamp and do otoscopy with the help of otoscope/endoscope.</li> <li>The teacher should ensure that the student is able to use other OPD-based Ear instruments effectively on patients under the guidance of the Consultant and avamine Korna.</li> </ul>
		on patients under the guidance of the Consultant and examine Karna.
NLHP 32.2	Case taking in Karnaroga.	<ul> <li>A) The teacher should elaborate on the key points needed to keep in mind while taking a clinical case of Karnaroga. The teacher should then have students work in groups to gather history, discuss differential diagnoses, and plan management.</li> <li>After analyzing the information that the students have gathered while working in groups, the teacher should then teach students other history-taking techniques, which reinforce their learning and builds</li> </ul>

	<ul> <li>confidence.</li> <li>OR</li> <li>B) The teacher should utilize advanced simulation technology to create realistic patient scenarios. The students should then be engaged with virtual patient software that simulates real-life scenarios, helping them practice history-taking and clinical reasoning skills.</li> <li>OR</li> <li>The Teacher can use standardized patients( actors or fellow students )to role-play patients with Karnaroga.</li> <li>B) The teacher should teach students the importance of making patients comfortable and should later help the student to understand the importance of informing the patient what he/she is going to do for case-taking purposes.</li> <li>The teacher should then observe the student while he/she takes generalized history, and see to it if the student understands the relation between systemic and neighboring diseases and karnarogas.</li> <li>C) The teacher should evaluate on the basis of OSCE. The teacher at the end should provide constructive feedback on their performance, highlighting areas of improvement and excellence.</li> </ul>
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### Topic 33 Karnaroga 1 (LH :2 NLHT: 0 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO3, CO4, CO5, CO6	Describe Samprapti and Lakshanas of Karnashoola as per Acharya Sushruta.Enlist types and lakshanas of Karnashoola as per Acharya Vagbhata.Describe Chikitsa of Karnashoola.Describe Samprapti,Lakshanas and Chikitsa of Karna Shopha.	СС	МК	КН	L,L&G D	CL-PR,QZ ,T-OBT	F&S	Ι	-	LH
CO2, CO3, CO4, CO5, CO7	Present an appropriate history in a patient presenting with Karnashoola (Otalgia).	AFT- RES	МК	SH	X-Ray,P BL,CD, RP,PT	PP- Practical, C -VC,OSCE, P-RP,P- EXAM	F&S	Ι	-	NLHP33.1

Non Lecture	Hour Theory	
S.No	Name of Activity	Description of Theory Activity
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 33.1	Evaluation of Karnashoola (Otalgia).	<ul> <li>A)The teacher should explain to the students why case-taking is crucial for diagnosis and treatment planning.</li> <li>The teacher can later conduct live demonstrations with real or simulated patients to model effective case-taking.</li> <li>Videos of experienced clinicians can also be shown to the students to understand Karnashoola (Otalgia).</li> <li>The teacher should provide a structured framework for students to follow during case-taking.</li> <li>B)The teacher should teach Mnemonics like OLD CARTS (Onset, Location, duration, Character, Aggravating/relieving factors, timing, severity)</li> <li>The students can also be engaged with virtual patient software that simulates real-life scenarios, helping them practice history-taking and clinical reasoning skills.</li> <li>The teacher should teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>Students should also know the role and importance of active listening.</li> <li>The teacher can Integrate case-taking with physical examination skills, teaching students correlations between them.</li> <li>C) MINI-CEX or OSCE can be used to assess. Students should be provided constructive feedback on their performance, highlighting areas of improvement and excellence. The format can be downloaded from https://www.ranzcr.com/images/20211015_RO_Mini-CEX_Assessment_Form.pdf. A similar format can be developed.</li> </ul>
Topic 34 Na	sa Shareera. Ghranendriva and Nidana P	anchaka of Nasaroga (LH :2 NLHT: 1 NLHP: 2)

A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO1	Explain Nasa ar Ghrane	n Nasashareera (Applied Rachana and Kriyashareera of and Nasagandakutalalatasthi-kuhara).Explain Kriya of endriya and physiology of olfaction.		CC	МК	КН	L&PPT ,L	T-OBT,VV -Viva,COM ,QZ	F&S	Ι	V-RS,V -KS,V- RS	LH
CO2, CO5	<ul> <li>Enumerate Nasarogas.Describe etiological factors of</li> <li>Nasarogas.Enlist Pathya-apathya and Sadhya-asadhyatwa of</li> <li>Nasarogas; indications and contra-indications for Dhumapana</li> <li>specific to Shalakyatantra.Discuss Poorva-Pradhana-Pashchat</li> <li>Karma and complications of Dhumapana and its management.</li> </ul>		CC	МК	КН	L&PPT ,L	T-OBT,VV- Viva,QZ ,P UZ,M-POS	F&S	I	-	LH	
CO3, CO5	CO3, Describe Nasya in Diseases described in CO5 Shalakyatantra.Summarise current research studies on Nasya and Dhumapana in the diseases of Shira, Karna, Nasa, and Mukha.		CC	DK	КН	DIS,FC, TBL,LS	M-CHT,CL -PR,M- POS,QZ ,VV-Viva	F&S	Ι	Н-РК	NLHT34.1	
CO2, CO5, CO7	Present cases of Nasaroga.			AFT- RES	МК	SH	CD,PBL ,D-BED	OSCE,P-C ASE,VV- Viva,SP	F&S	Ι	-	NLHP34.1
Non L	ecture E	Iour Theory						•				
S.No		Name of Activity	Description of Theory Activity									
NLHT 34.1       Discussion on Nasya.       A) The Each g         Current research studies on Nasya and Dhumapana in diseases in Shalakyatantra.       a) Enlis         b) Desc       c) Sum         d) Sum       Studen         each gr       classro				e teacher r group is gi ist indicati scribe com nmarise cu nmarise cu nts may co group prese com. Each	nakes four ven a subte ions and co plications urrent resea urrent resea ompile the ent in class group wil	groups of opic as - ontra-indic of Nasya arch on Na arch on Dl informatic . Other gr l be given	f students. cations for I and its man asya in dise humapana r on about the oups may c 10-15 min	Vasya, in cond agement. ases described elated to Shala topics (Pre-cl ritically discus utes to present	itions in S in Shalak akyatantra ass) and o ss the topic	halakya yatantra ne, two cs, by a	atantra. a. o or three st sking ques	udents from tions, in the
	Encourage all students to contribute their thoughts, opinions, and evidence-based reasoning, ensuring everyone has a chance to speak. Ask probing questions to challenge assumptions, evaluate different perspectives, and encourage students to justify their reasoning. Emphasize the importance of listening attentively to others' viewpoints and building on ideas respectfully. Provide feedback: Assessment can be done on the following criteria:- Communication skills, Teamwork, Critical thinking, Body language, and Interpersonal skills. OR The teacher asks students to prepare Posters. Each group is given 10-12 minutes to present in the classroom. Assessment is made on the basis of clarity of information, visual appeal, scientific soundness, and whether key elements are presented clearly and concisely, while also considering the visual design and readability from a distance.											
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S.No	Name of Practical	Description of Practical Activity
NLHP 34.1	General histroy taking, Specific history taking in the cases of Nasaroga.	<ul> <li>A) The teacher makes groups of 03 students and asks them to check patients in Nasa opd.</li> <li>After initial introduction and demographic history taking they learn to gather comprehensive and relative information from the patients specific to Nasaroga.</li> <li>Students may practice taking histories with each other or with simulated patients.</li> <li>OR</li> <li>B) The teacher may choose four students to volunteer as patients, they are given a standard set of symptomatology, preferably written, about a nasal disease, which they would answer to their enquiring peers.</li> <li>Introduce mnemonics like OPQRST: Onset, Provocation / Palliation, Quality, Region/Radiation, Severity, Timing; to guide.</li> <li>Learn to understand the relation of diseases' neighboring structures and systemic diseases with nasarogas.</li> </ul>

Learn to Document in proper format. Encourage interactive sessions where students can discuss their experiences, challenges, and strategies. C)Use Observed Structured Clinical Examination OR Simulated Patients to assess.
<ul> <li>OSCE stations to have signs of General examination, local examination, psychomotor skills, communication skills and history taking of a case of Nasaroga. The assessor should use checklists to evaluate students' performance in a reliable and consistent way. Performance can recorded on a 4-point scale where 1 is unacceptable, 2 is below expectation, 3 is met expectations, and 4 is exceeded expectations.</li> <li>Communication skills to be assessed by Kalamazoo essential elements communication checklist.</li> <li>Each student is exposed to the same stations and assessment Give constructive feedback on their skills.</li> <li>Simulated patients can be as a part of OSCE or a separate assessment. Students or actors are provided with written, specific, clear-cut instructions and clinical features of a nasaroga and the students are rotated through this setup. They are assessed in the areas like history taking, physical examination, and counseling skills.</li> </ul>

## Topic 35 Pratishyaya (LH :3 NLHT: 1 NLHP: 0)

A3	B3	C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO2, CO5	Define Paribhashha of Pratishyaya.Describe the Hetus, Samprapti, Purvarupa, Lakshana, and the Importance (Significance in relation to overall health)of Pratishyaya.(Vataja, Pittaja, Kaphaja, Saanipataja, Raktaja, Ama, Pakva).	CC	МК	КН	L&PPT ,L	QZ ,T-OBT	F&S	Ι	-	LH
CO2, CO5	Explain Upadrava, Sadhyasadhyata and Chikitsa of Pratishyaya. Elaborate Nidana, Samprapti, Lakshanas and Chikitsa of Dushtapratishyaya.	CC	МК	КН	L,L&PP T	VV-Viva,T- OBT,QZ	F&S	Ι	-	LH
CO2,	Discuss Nidana, Samprapti, Lakshanas and Chikitsa of Puyarakta,	CC	МК	KH	DIS,PL,	T-OBT,P-P	F&S	Ι	-	NLHT35.1

CO5	Nasapa	ka, and Nasashopha.					L&PPT	OS,VV-Viv a,CL-PR				
Non L	ecture H	Iour Theory		1	ł	1	1		1	1	1	•
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT :	<ul> <li>ILHT 35.1 Discussion on Puyarakta, Nasapaka, Nasashopha.</li> <li>A) The teacher will form three study groups to discuss and share information, each for Puyaral Nasapaka, and Nasashopha. (Pre-class)</li> <li>They can go to the library, ask the Librarian's help, they can subdivide subtopics amongst then and split time between different activities like searching for articles, reading, and taking notes. Students will study themselves, discuss with peers, and review each other's notes and findings ensure accuracy and comprehensiveness.</li> <li>They will present the information with a PowerPoint presentation in the classroom. (15 min. er they can present posters in the classroom.</li> <li>PowerPoint presentations should be assessed on the following criteria- content, focus, clarity a coherence, in-depth analysis, grammar and spelling, delivery of the material, audience engager handling nerves, and effective use of visual aids. OR They can be subjected to an Open-book t B) At the end of the session, the teacher should summarize what they have learned and plan winext. (05 min.)</li> </ul>							yarakta, themselves, otes. lings to in. each)OR rity and gagement, pok test. an what to do				
Non Lo	ecture H	Iour Practical	-									
S.No		Name of Practical	Desci	ription of	Practical	Activity						
Topic 3	36 Muk	kha Shareera and Nidana Panchaka of Mukha	roga (	LH :1 NI	LHT: 1 N	L <b>HP: 4</b> )						
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO1	Define (lips), M Gala- T subman	Paribhasha of Mukha, Describe the anatomy of Osth Mukha-kuhara (oral cavity), Jivha(tongue), Danta (tee Yalu (Pharynx), Lalagranthi -Salivary glands (parotid, adibular) and Swarayantra (larynx).	a eth),	CC	МК	КН	LS,DIS, FC,ML	CL-PR,QZ	F	Ι	V-RS,V- RS	NLHT36.1

CO3, CO7, CO8	Present – dental	an appropriate history in a patient presenting with an complaint.	Oro	AFT- RES	МК	SH	PBL,D- BED,RP ,TUT	P-EXAM,P -CASE,OS CE,SP,C- INT	F	Ι	-	NLHP36.1
CO3, CO7, CO8	Demons	strate Kavala , Gandusha, Pratisarana.		PSY- MEC	МК	D	RP,D-B ED,TU T,PBL	DOAP	F	Ι	-	NLHP36.2
CO2, CO5	Describ asadhya – Their Pathya-a	e Classification (based on Adhishthana and Sadhya- ta), Samanya Chikitsa (Kavala, Gandusha and Pratisa indications, contraindications, types and procedure) a apathya of Mukha Roga along with Nidana Panchaka	arana and 1.	CC	МК	КН	L	PRN,P-VIV A,SP,T- CS,T-OBT	F&S	Ι	-	LH
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Description of Theory Activity									
NLHT 3	36.1	Elaboration on Mukha- Shareera.	<ul> <li>A) Make 08 teams and give them subtopics as Paribhasha of Mukha, Anatomy of Oshtha (I kuhara (oral cavity), Jivha(tongue), Danta (teeth), Gala- Talu (Pharynx), Lalagranthi -Saliva (parotid, submandibular) and Swarayantra (larynx).</li> <li>The students will be given a link to a PowerPoint presentation on these topics.</li> <li>The presentation on the topic should be prepared and uploaded on a website created for the free cross-platform messaging services like WhatsApp, Telegram or learning platforms like Classroom.</li> <li>They should be also instructed to go through the textbooks and read this topic.</li> <li>They should be given 01 week time before the scheduled Flipped ClassRoom for this topic.</li> <li>After 01 week of self-learning, problem-based questions related to the topics may be asked discussed with the students. Students will be also encouraged to ask questions to clarify cor Present in the classroom.</li> <li>B) Utilize pre-class quizzes or short assignments to gauge students' prior knowledge and pr for the in-class activities; During class discussions, pay attention to student participation, le</li> </ul>					(lips), Mukha- vary glands e students or te Google c. d and oncepts. preparation level of ts to reflect				

	on their learning process and identify areas where they need further support; Review and re-solve the
	problems they get wrong. It is preferable to provide self-evaluation in the flipped classroom in a
	simple form, such as a quiz. Give constructive feedback.

S.No	Name of Practical	Description of Practical Activity
NLHP 36.1	Oro - Dental case taking and examination.	A) Conduct live demonstrations with real or simulated patients to model effective case-taking.
		Use videos of experienced clinicians.
		Provide a structured framework for students to follow during case taking.
		Preparation and Review of Available Records
		B) Self-Introduction and Rapport Building
		Recording the Chief Complaint
		Collecting Past Medical History, Medications, Allergies, and Family History
		Gathering Social History
		Review of Systems (ROS)
		C) Patient Positioning and Instructions
		Inspection of the Lips and Perioral Area
		Examination of the Buccal Mucosa and Gingiva
		Examination of the Hard and Soft Palate
		Inspection of the Tongue
		Examination of the Floor of the Mouth and Sublingual Area
		Examination of the Oropharynx
		Pay special attention to changes in color, ulcers, bleeding, growths and other variations in concerned
		areas.
		Differentiate Lecoplakia, and Erythroplakia.
		Palpation of the Oral Cavity.
		D) Closing (Thanking the patient).
		E) Use the Simulated Patient technique or OSCE to evaluate the students.

NLHP 36.2	Poorva, Pradhana and Pashchat Karma of Kavala, Gandusha and Mukhapratisarana.	<ul> <li>A)Discuss the patient's history, diagnosis, and therapy plan, its preparation, Sambhara-samgraha, preparation of the patient, Pradhanakarma, and Pashchat karma, in detail before entering the therapy room.</li> <li>B)Emphasize the importance of a hygeinic environment.</li> <li>Ensure students understand the correct use of PPE if needed.</li> <li>C) Walk students through the procedure step-by-step, explaining the purpose and technique of each step.</li> <li>D) Foster an environment where students feel comfortable asking questions and seeking clarification.</li> <li>E)Teach students about post-operative care, including monitoring for complications and managing patient recovery.</li> <li>F)Record procedures (with patient consent) for educational purposes. Reviewing these videos can help students learn and improve.</li> <li>G)Promote teamwork and collaboration among students, encouraging them to learn from each other's experiences.</li> <li>Stress the importance of maintaining professionalism, confidentiality, and empathy towards patients.</li> <li>H) Assess the students on the basis of DOAP.</li> </ul>
Topic 37 Osht	haroga (LH :1 NLHT: 0 NLHP: 0)	

#### Topic 37 Oshtharoga (LH :1 NLHT: 0 NLHP: 0)

A3	B3		C3	D3	<b>E</b> 3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO5	Elaborate clinical features and treatment of Vataja, Pittaja Kaphaja Oshthakopa (Chelitis) Khandoushtha (Cleft lip), Jalarbuda, Herpes labialis and Lip Mucocele.		CC	MK	KH	L,L&PP T	T-OBT,QZ ,T-CS	F&S	Ι	-	LH
Non Le	ecture Hour Theory		-			-		-	-		
S.No	Name of Activity	Desci	Description of Theory Activity								
Non Le	ecture Hour Practical										
S.No	Name of Practical	Desci	ription of	Practical	Activity						

Topic	38 Sarv	asara Mukharoga (LH :2 NLHT: 0 NLHP: 0	)									
A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO2, CO5	Describ Kaphaja and Ora	e the clinical features and treatment of Vatika, Pitta a, Raktaja, Sannipatika Sarvasara along with Stomat al candidiasis.	a, itis,	CC	МК	КН	L&PPT	T-CS,VV- Viva,P-VIV A,T- OBT,QZ	F&S	Ι	-	LH
CO2, CO5	Explain submuc adenom	the etiology, clinical features and treatment of Oral cous fibrosis, and Tumours of the oral cavity, (Pleom a, Malignancies of tongue, palate and oral mucosa).	orphic	CC	NK	КН	L&PPT	T-OBT,QZ ,T-CS,INT, M-CHT	F&S	Ι	-	LH
Non L	ecture H	Iour Theory			-		-					
S.No	No Name of Activity Description of Theory Activity											
Non L	ecture H	Iour Practical	•									
S.No		Name of Practical	Desci	ription of	Practica	l Activity	7					
Topic	39 Nati	onal Oral Health Programme (LH :0 NLHT:	1 NLH	( <b>P: 0</b> )								
A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO2, CO5	Describ the prev of oral of	e National Oral Health Programme.Explain methods vention of oral malignancy.Present methods of preve diseases mentioned in Ayurvedic classics.	s for ntion	CC	DK	КН	ML,PS M,BL,B S,DIS	P-RP,DEB, QZ ,PRN, M-POS	F	Ι	-	NLHT39.1
Non L	ecture H	Iour Theory				·	•					·
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
NLHT	39.1	Brainstorming session on National Oral Health Programme and Dantarakshavidhi.	1. Intr	oduction	& Group A	llocation	(5 minutes)	)				

	<ul> <li>Divide students into three groups:</li> <li>Group 1: National Oral Health Programme (NOHP)</li> <li>Group 2: Prevention of Oral Malignancy</li> <li>Group 3: Prevention According to Ayurveda Classics</li> </ul>
2. Gro	up Discussions & Brainstorming (15 minutes)
	• Group 1 (NOHP):
	<ul> <li>Presentation on key components of the National Oral Health Programme (prepared in advance).</li> </ul>
	<ul> <li>Stress the scientific nature of Dantaraksha Vidhi and its role in modern dentistry.</li> <li>Identify gaps in implementation and suggest improvements.</li> </ul>
	• Groups 2 & 3:
	• Prevention of Oral Malignancy:
	<ul><li>Brainstorm common etiologies (tobacco, betel nut, alcohol, infections).</li><li>Discuss public awareness strategies for prevention.</li></ul>
	• Ayurveda-Based Prevention:
	<ul> <li>Discuss Ayurveda's perspective on oral nearth maintenance (Dantaraksna Vidhi, Dinacharva, Rasayana therapy, dietary habits, and herbal formulations)</li> </ul>
	• Encourage open sharing with no judgment.
	• Utilize whiteboards/digital tools to map ideas visually.
3 (	up Procontations (15 minutes)
5. GfC	up riesemations (15 minutes)

<ul><li>Each group gets 5 minutes to present key takeaways.</li><li>Others can ask questions and add inputs.</li></ul>
4. Idea Refinement & Action Plan (10 minutes)
<ul> <li>Evaluate the strengths and weaknesses of each group's ideas.</li> <li>Develop an action plan: <ul> <li>Steps for public awareness campaigns.</li> <li>Community-based interventions.</li> <li>Ayurveda-based preventive strategies in clinical practice.</li> </ul> </li> <li>5. Conclusion &amp; Takeaways (5 minutes)</li> </ul>
<ul> <li>Reinforce the importance of public awareness in preventing oral malignancies.</li> <li>Summarize key learnings.</li> <li>Encourage students to implement their ideas in clinical practice and community health initiatives.</li> </ul>

S.No	Name of Practical	Description of Practical Activity								
Topic 40 Kapalagata Roga (LH :1 NLHT: 0 NLHP: 4)										
A3	B3	C3	D3	E3	<b>F3</b>	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO5	Explain Samprapti, Lakshana, Chikitsa of Darunaka, Indralupt Khalitya and Palitya.	tha, CC	DK	KH	L&PPT ,L	CL-PR,PR N,T-CS,P- ID	F&S	II	-	LH
CO3, CO7	Decipher the steps involved in Prachchhana, and Jalaukavacharana.	CC	DK	КН	D,PT	CHK,VV-V iva,M-POS	F&S	Π	-	NLHP40.1

CO3, CO7	<ul> <li>CO3, Summarise the steps involved in performing Agnikarma in</li> <li>CO7 Shiroroga/Kapalagata Roga.</li> </ul>				DK	KH	PT,D,P ER	DOPS,P-VI VA,DOPS, CL-PR	F&S	II	-	NLHP40.2		
Non Le	ecture H	lour Theory				•			•	•		•		
S.No		Name of Activity	Desci	Description of Theory Activity										
Non Le	ecture H	lour Practical												
S.No		Name of Practical	Desci	ription of	on of Practical Activity									
NLHP 4	40.1	Purva- Pradhana and Pashchat Karma related to the procedures of Prachchhanna and Jalaukavacharana.	<ul> <li>A) The teacher may- Use anatomical models, diagrams, and 3D animations to illustrate the procedures. OR Show recorded these procedures to give students a realistic view of the process. Pause a moments to explain important steps. Explain each step thoroughly, including the rationale b action.</li> <li>Provide students with procedural checklists to help them remember the steps and ensure not missed.</li> <li>B) The student may be a part of a team that does these procedures.</li> <li>C)Stress the importance of patient safety, aseptic techniques, and surgical hygiene.</li> <li>D) Discuss ethical issues related to surgical or Para surgical aspects, including informed cor patient confidentiality, and decision-making</li> <li>E) Encourage students to ask questions and discuss the procedure as it unfolds. Foster a coll learning environment.</li> <li>F) The teacher should Include scenarios where complications arise and teach students how t these situations.</li> <li>G) Use Poster making and checklists to evaluate students' understanding and skills.</li> <li>H) Provide constructive feedback on their performance, highlighting areas of improvement excellence</li> </ul>						e at key behind each othing is onsent, ollaborative v to manage nt and					
NLHP 4	40.2	Discussion on Agnikarma in Shiroroga.	iroroga. A) The teacher may-							1				

			Use an OR Show r to expl Provide missed OR B) The C)Stres D) Dise E) Enc C) Stres C) Use sernin F) The these s: G) Use skills. J) Prov	atomical i recorded ti lain impor e students l. e student n ss the imp cuss ethic courage stu g environ e teacher sl ituations. e quizzes, vide constr ence.	models, dia hese proce tant steps. with proce hay be a pa ortance of al issues in idents to as ment. hould Inclu written exa	agrams, and dure to giv Explain ea edural check and of a tean patient saf cluding in sk question ade scenari atms, and pa aback on th	d 3D anima ve students ach step that cklists to he m that does fety, aseption formed com as and discu- tos where c ractical ass heir perform	ations to illust a realistic view proughly, inclue elp them reme s these procedu c techniques, a nsent, patient of uss the proced complications a essments to ev mance, highlig	rate the pro- w of the pro- uding the ra- mber the s ures. and surgical confidential ure as it ur arise and to valuate stud- thing areas	ocedure ocess. I ationale teps an I hygie lity, an nfolds. each stu dents' u s of im	es. Pause at ke e behind ea d ensure no ene. d decision Foster a co udents how understand provement	ey moments ach action. othing is -making ollaborative v to manage ing and and
Topic 4	11 Karr	a Kriya Shareera and Shravanendriya (LH :0	) NLH	IT: 1 NL	HP: 0)		1					
A3	A3 B3				D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3

110	66		00	00		10	05	115	10	<b>III</b>	10	
CO1	Describe Kriya Shareera of Karna and Shravanendriya.Expla the Physiology of Equilibrium.	ain	CC	МК	КН	L&GD, FC,RP, DIS,D- M	QZ ,S-LAQ ,PA,T-OBT ,CL-PR	F&S	II	-	NLHT41.1	
Non L	ecture Hour Theory											
S.No	Name of Activity	Descri	ption of	Theory A	Activity							

NLHT 4	41.1	Discussion on Shareer Kriya of Karna and Shravanendriya, and Physiology of Equilibrium.	A) The Pratya and im Divide Consid noteta Clearly the dis Encou everyo Ask pristuden Empha respec B) Pro Body 2 OR Use po	<ul> <li>Pratyaksha, Conductive Apparatus, Perceiving Apparatus and Auditory Pathway; balance mechanism and importance of the inner ear in maintaining balance of human body.</li> <li>Divide students into groups of 5-8 for optimal interaction and participation.</li> <li>Consider assigning roles like facilitator (to guide discussion), timekeeper (to manage time), and notetaker (to record key points).</li> <li>Clearly introduce the topic, providing necessary background information and key questions to guide the discussion.</li> <li>Encourage all students to contribute their thoughts, opinions, and evidence-based reasoning, ensuring everyone has a chance to speak.</li> <li>Ask probing questions to challenge assumptions, evaluate different perspectives, and encourage students to justify their reasoning.</li> <li>Emphasize the importance of listening attentively to others' viewpoints and building on ideas respectfully.</li> <li>B) Provide feedback: evaluate on the criteria like Communication skills, Teamwork, Critical thinking, Body language, and Interpersonal skills and give constructive feedback.</li> <li>OR</li> <li>Use poster presentations or theory open-book test as assessment methods.</li> </ul>						f Srotra- mechanism ), and as to guide g, ensuring urage eas cal thinking,		
Non Le	ecture H	lour Practical										
S.No		Name of Practical	Descr	ription of	Practical	Activity						
Topic 4	42 Kar	na Badhirya, Karna Naada and Kshweda (LH	veda (LH :3 NLHT: 1 NLHP: 12)									
A3		B3	C3 D3 E3 F3 G3 H3 I3 K3 L3									
CO2, CO3, CO5	<ul> <li>CO2, Describe Hetu, Samprapti, Lakshanas and Chikitsa of Karna</li> <li>CO3, Badhirya.Explain types of Hearing Loss (Conductive,</li> <li>CO5 Sensorineural and Mixed) and its investigations (Tunning Fork</li> <li>Test, Audiometry, Impedance Audiometry).Summarise Etiology,</li> <li>Pathology, Differential Diagnosis of Otosclerosis, Medical and</li> </ul>			CC	МК	КН	BL,L&P PT ,L,PER	T-OBT,CL- PR,DEB,P- EXAM,PP- Practical	F&S	II	-	LH

	Surgical Management of Otosclerosis.									
CO2, CO3, CO5	Explain Hetus, Lakshanas, Samprapti and Chikitsa of Karna Naada, Karna Kshweda.Describe types and Causes, Investigation and Treatment of Tinnitus.	CC	МК	КН	L,L&PP T	QZ ,S-LAQ ,PP-Practic al,CL-PR,P- VIVA	F&S	II	-	LH
C07	Describe the National Program for Prevention and Control of Deafness.Elaborate Causes and ill effects of Noise Pollution.	CC	DK	K	RP,BL	P-RP,M-PO S,VV-Viva	F&S	II	-	NLHT42.1
CO2, CO3, CO4	Present an appropriate history in a patient presenting with Badhirya (Deafness).	AFT- RES	МК	SH	L_VC,R P,PBL, D-BED, TUT	P-CASE,V V-Viva,OS CE,Mini- CEX	F&S	II	-	NLHP42.1
CO3, CO4, CO5	Demonstrate the technique of Tuning fork Tests.	PSY- MEC	МК	SH	TUT,C D,RP,D, PBL	DOPS,VV- Viva,CL-P R,PP-Practi cal,DOPS	F&S	II	-	NLHP42.2
CO3, CO5	Summarise the technique of Audiometry and interpret reports of Audiogram.	CC	DK	SH	D-M,PT ,D,RP, ML	Log book,P -RP,OSPE, P-EXAM,P- PRF	F&S	II	-	NLHP42.3
CO2, CO3, CO4	Present an appropriate history in a patient presenting with Karna Kshweda- Naada (Tinnitus)-	AFT- RES	МК	SH	PT,D-B ED,CD, PBL,TU T	QZ ,P-CAS E,P-PRF,P- VIVA,S- LAQ	F&S	II	-	NLHP42.4
CO5, CO6, CO7	Perform a procedure of Karnapoorana.	PSY- GUD	МК	SH	PT,PBL ,D-BED ,SDL	VV-Viva,P- PRF,SA,D OPS,P- EXAM	F&S	II	-	NLHP42.5

CO5, CO6	Summarise the steps involved in performing Karna Pramarjana, Karna Prakshalana and Karna Dhoopana.			CC	МК	KH	L_VC,D -BED,P BL	P-EXAM,P -MOD,CH K,Log book	F&S	Π	-	NLHP42.6			
Non Le	ecture H	Iour Theory													
S.No		Name of Activity	Description of Theory Activity												
NLHT 4	42.1	Group discussion on National Programme for Prevention and Control of Deafness and Noise Pollution.	A) Di NPPC class) Show Progr B)Rc - Ass them - Ha the N Role D Scena Scena Scena Scena Scena Contect (intera - Enc their of Rotate Give of noise - Ask	vide the cl CD. Ask ea a short via am for Pre- ole-Playing sign roles with role-p ve student PPCD init PPCD init Play Scena urio 1: A fe urio 2: Eme urio 3: Cara urage stude ctions. courage stu- courage stu- coura	ass into sr ach group t deo or pres vention ar g (30 minu to students play scripts s act out so iatives. arios: estival ergency ro- e and Follo ents to act idents to u idents to sl es. ensure each actions and hierarchic is to ask qu o write a sl	nall groups o discuss the sentation his d Control of tes): (e.g., heal s. cenarios whe com with ca ow-Up educe out their root se the broch hare their the n student get al arrangent testions and hort reflect	and provide he key messing ighlighting of Deafness theore proves here they end se of sudde cation to see bles as realise hures and period hures and hures and hure	de each group ssages and stra key points abo s(NPPCD).(05 viders, commu ducate commu ducate commu en hearing loss ociety. stically as pos posters to supp how they can ice different as le-play scenar, ational Program heir actions du at they learned	with printe tegies press out hearing 5-08 minut nity memb anity me	ed brock sented in g health es). Ders, pat Ders abo Ders	hures and j n the mate and the N tients) and but hearing priate term c. ring health nent. causes and and Contro and how the	posters about rials. (Pre- ational provide thealth and awareness in awareness in control of of Deafness hey can			

<ul> <li>apply this knowledge in real-life situations.</li> <li>B) Provide feedback on their participation and understanding of the NPPCD.(10 min.) <ul> <li>Assess students based on their engagement and contributions during the group discussion play.</li> <li>Evaluate the quality and clarity of their role-play presentations.</li> <li>Review their written reflections to gauge their understanding and personal takeaways from activity.</li> <li>Group Discussion- After each scenario, conduct a debriefing session where students can di experiences, challenges, and what they learned.</li> </ul> </li> </ul>	and role- the scuss their
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S.No	Name of Practical	Description of Practical Activity
NLHP 42.1	Case Taking and Differential Diagnosis of Badhirya.	<ul> <li>A)Teacher should teach students the basic way of case taking which starts with the student introducing himself/herself to patient.</li> <li>Student should then make patients comfortable and then inform patient what he/she is going to do for case-taking purpose.</li> <li>Student should take proper history of the patient and present differential diagnosis of Karna Badhirya (Deafness) in front of the class.</li> <li>Student should then be encouraged to come to proper diagnosis by performing various tuning fork tests.</li> <li>B) Teacher should see that students conduct live demonstrations with real or simulated patients to model effective case-taking.</li> <li>OR</li> <li>Use videos of experienced clinicians can be done by the teacher to demonstrate ways of diagnosing Karna Badhirya.</li> <li>C) Students should be provided a structured framework to follow during case taking.</li> <li>Integrate case-taking with physical examination skills, teaching students correlations between them.</li> <li>E) Observed Structured Clinical Examination:</li> </ul>

		<ul> <li>OSCE stations to have signs of General examination, local examination, psychomotor skills, communication skills and history taking of a particular examination. The assessor should use checklists to evaluate students' performance in a reliable and consistent way.</li> <li>Communication skills to be assessed by Kalamazoo essential elements communication checklist.</li> <li>Each student is exposed to the same stations and assessment. Teacher should discuss the areas for improvement with students.</li> </ul>
NLHP 42.2	Tuning Fork Test (Rinne's, Weber) and their interpretation.	<ul> <li>Teacher should teach students various frequencies of Tuning forks used in OPD.</li> <li>Students should be taught basics of tuning fork tests.</li> <li>A) Students will be divided in various groups and demonstrate on patients basic tunning fork tests under the Guidance of the Consultant.</li> <li>OR</li> <li>A)Teacher should assign roles to students, such as the patient, the primary care provider, a nurse, and an observer. Rotate roles to ensure each student gets to practice.</li> <li>Teacher should give clear instructions and guidelines for the role-play scenarios, including the symptoms and history of the patient.</li> <li>C) Students should be encouraged to reflect on their own performance and identify areas for improvement. Self-assessment can be done on the following parameters:- Teamwork and collegiality, empathy and openness, ethical awareness, scientific method of working, coping with mistakes, and priorities.</li> </ul>
NLHP 42.3	Audiometry and its interpretation.	<ul> <li>A) The teacher should teach students the basic concepts of Audiometry.</li> <li>The student will observe the correct way of positioning the patient while doing Audiometry in a soundproof room.</li> <li>Students will learn how to use an Audiometry machine and the basics of how to switch between Air and Bone conduction in the Audiometry Machine.</li> <li>Student should be taught basics of masking and how it is shown on Audiogram.</li> </ul>

		<ul> <li>Student should also be taught the technique of reading audiogram.</li> <li>B)The teacher should conduct live demonstrations with real or simulated patients to model effective performance.</li> <li>OR</li> <li>C)The teacher can show videos of experienced clinicians demonstrating the correct technique of doing Audiometry.</li> <li>Student should be able to explain parts of instruments, instructions, indications, and contraindications. OR</li> <li>D)Teacher can use standardized patients (actors trained to simulate real patient cases) to perform a step-by-step demonstration in a controlled environment.</li> <li>E)Teacher should teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>F)Evaluate students by Objective Structured Practical Examination. Analyse student's performance on criteria like knowledge of parts of instruments, indications, contra-indications, reading and analysing audiometry reports, building rapport and demonstrating empathy during patient interactions.</li> <li>Provide constructive feedback on their performance.</li> </ul>
NLHP 42.4	Assessment of Karna Kshweda-Naada (Tinnitus).	<ul> <li>A) The teacher should teach students about Tinnitus, its types and various etiological factors and causes associated with it.</li> <li>1. Introduction (15 minutes)</li> <li>Welcome and Introduction (5 minutes): Briefly introduce yourself and the topic.</li> <li>Objective of the Session (5 minutes): Explain the importance of case-taking in diagnosing and managing tinnitus.</li> <li>Overview of Tinnitus (5 minutes): Provide a brief overview of what tinnitus is, its prevalence, and its impact on patients.</li> <li>Case History Taking (45 minutes)</li> <li>Introduction to Case History (10 minutes): Explain the components of a comprehensive case history for tinnitus patients.</li> <li>Interactive Case Study (30 minutes): Present a sample case study and guide students through the process of taking a detailed case history. Encourage students to ask questions and participate in the</li> </ul>

		<ul> <li>discussion.</li> <li>Review and Discussion (5 minutes): Review the case study and discuss the key points that were covered.</li> <li>3. Diagnostic Tools and Assessments (30 minutes)</li> <li>Introduction to Diagnostic Tools (10 minutes): Explain the various diagnostic tools and assessments used in evaluating tinnitus (e.g., audiometry, tinnitus matching, questionnaires).</li> <li>Hands-On Demonstration (15 minutes): Demonstrate how to use these tools and assessments on a volunteer or simulated patient.</li> <li>Q&amp;A Session (5 minutes): Allow students to ask questions and clarify any doubts.</li> <li>Management and Treatment Options (30 minutes)</li> <li>Overview of Management Options (10 minutes): Discuss the different management and treatment options available for tinnitus (e.g., hearing aids, sound therapy, cognitive-behavioral therapy).</li> <li>Case-Based Discussion (15 minutes): Present another case study and discuss the appropriate management and treatment options for the patient.</li> <li>Q&amp;A Session (5 minutes): Allow students to ask questions and share their thoughts.</li> <li>S. Conclusion and Wrap-Up (10 minutes)**</li> <li>Summary of Key Points (5 minutes): Summarize the key points covered in the session.</li> <li>Feedback and Evaluation (5 minutes): Collect feedback from students and evaluate the effectiveness of the session.</li> </ul>
NLHP 42.5	Procedure of Karnapoorana.	<ul> <li>A)Students should be taught about Karnapoorana.</li> <li>Students should also be taught about the Indications, Contraindications, Vyapadas and their Management.</li> <li>Student will observe the correct positioning of the patient, materials used and technique of Karnapoorana.</li> <li>B)The student will observe the process of Karnapoorana.</li> <li>After observing everything, students should be divided in groups and should be able to demonstrate Poorvakarma, Pradhanakarma and Pashchatkarma of Karnapoorana under the Guidance of the physician.</li> <li>Teacher should teach students about post-operative care, including monitoring for complications.</li> </ul>

		<ul><li>C)- Direct Observation of Procedural Skills- The assessor actively watches the student perform the procedure, noting their technique, decision-making, communication with the patient, and adherence to safety protocols.</li><li>Students should be provided constructive feedback on their performance.</li><li>Teacher should encourage students to reflect on their own performance and identify areas for improvement.</li></ul>									
NLHP 4	42.6 Procedures of Karna Pramarjana, Karna Prakshalana, and Karna Dhoopana.	<ul> <li>A)The students should be taught Karna Pramarjana, Karna Prakshalana and Karna Dhoopana procedures.</li> <li>The teacher should teach students Indications, Contraindications and Vyapadas along with its management related to these procedures.</li> <li>The teacher should observe students do pre-procedural examinations and take care of post-therapy management.</li> <li>B) The student should observe the main process of Karna Pramajana, Karna prakshalana and Karna Dhoopana under the supervision of the Consultant.</li> <li>OR</li> <li>C) The teacher should show recorded procedures to give students a realistic view of the process. Pause at key moments to explain important steps. Explain each step thoroughly, including the rationale behind each action.</li> <li>D) Students should be provided with procedural checklists to help them remember the steps and ensure nothing is missed.</li> <li>E)Teacher should emphasize on patient safety, aseptic techniques, and hygiene to students.</li> <li>F) The teacher should assess students' log books OR the students can be assessed by the checklist method.</li> </ul>							its its therapy nd Karna ocess. Pause ionale os and ensure necklist		
Topic 4	43 Karna Srava and Putikarna (LH :4 NLHT: 2 NLI	HP: 4)									
A3	B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO2,	Describe Hetu, Lakshana, Samprapti and Chikitsa of Karna	Srava.	CC	МК	KH	L,L&PP	P-VIVA,PP	F&S	II	-	LH

CO3, CO4, CO5					Т	-Practical,T -CS,P-CAS E,P-EXAM				
CO2, CO3, CO4, CO5	Present appropriate history in a patient presenting with Karna Srava (Otorrrhoea)	AFT- RES	МК	SH	RP,D-B ED,ML, LS,CD	Log book,P -RP,P-VIV A,P-EXAM ,VV-Viva	F&S	II	-	NLHP43.1
CO2, CO3, CO5	Explain Samprapti, Lakshanas and Chikitsa of Putikarna.	CC	МК	KH	LS,PBL ,ML,L& GD	T-OBT,P-E XAM,CL-P R,P-VIVA, VV-Viva	F&S	II	-	NLHT43.1
CO1, CO2, CO3, CO4, CO5, CO6	Elucidate Etiology, Pathology, Clinical Features and Management of Acute Suppurative Otitis Media (ASOM)Expound Etiology, Pathology, Clinical Features and Medical Management of Safe Chronic Suppurative Otitis Media (Safe CSOM), Unsafe Chronic Suppurative Otitis Media (Unsafe CSOM) and Serous Otitis Media (SOM).Enumerate Complications of Otitis Media.Summarise the Etiology, Pathology, Clinical Features, and Medical Management of Mastoiditis.	СС	МК	КН	L,L&PP T	COM,P-EX AM,CL-PR ,S-LAQ,T- CS	F&S	Π	-	LH
CO2, CO3, CO4, CO5	Summarise types and Surgical Steps in Mastoidectomy.Explain Indication, Contra-Indication and Surgical Steps in Myringotomy.	CC	DK	SH	D-BED, PBL,L_ VC,ML, X-Ray	P-EXAM,O SCE,P- VIVA	F&S	II	-	NLHP43.2
CO1, CO2, CO3, CO4, CO5	Explain Indications, Contra-Indications, Types and Basic Surgical Steps in Tympanoplasty.	CC	МК	КН	L_VC,D -M,BL, RP,PBL	P- EXAM,QZ ,VV- Viva,OSCE	F&S	Π	-	NLHT43.2

Non Lecture	Non Lecture Hour Theory										
S.No	Name of Activity	Description of Theory Activity									
NLHT 43.1	Presentation on Putikarna.	<ul> <li>Putikarna (60 mins)</li> <li>A) Students should be encouraged to compile Samprapti, Lakshsanas and Chikitsa of Putikarna from Ayurveda Classics and Present.</li> <li>Students should then be directed to study themselves, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness.</li> <li>Students can be guided to go to the library (pre-class), and ask Librarian's help. They can subdivide subtopics amongst themselves and split time between different activities like searching for articles, reading, and taking notes. The students will then be divided into groups and will present their findings in front of the class (7-8 mins per group). The teacher at the end of the session will summarise everything and explain to the class. The students will be assessed by the teacher based on the detailed contents of the topic, presentation skills and answering to questions asked in the class.</li> <li>B)At the end of the session, the teacher should see to it that students should summarize what they have learned and plan what to do next.</li> </ul>									
NLHT 43.2	Surgical steps in Tympanoplasty.	<ul> <li>Tympanoplasty (60 mins)</li> <li>A) The teacher may-</li> <li>Use anatomical models, diagrams, and 3D animations to illustrate surgical procedures (5mins).</li> <li>OR</li> <li>Show recorded surgical procedures to give students a realistic view of the process. Pause at key moments to explain important steps. Explain each step thoroughly, including the rationale behind each action. (20 mins)</li> <li>Provide students with procedural checklists to help them remember the steps and ensure nothing is missed. (5 mins)</li> <li>OR</li> <li>B) The teacher may use Virtual Reality or surgical simulators to provide hands-on practice in a controlled, risk-free environment.</li> <li>C) Have students role-play as surgeons, assistants, or scrub nurses to practice different aspects of the</li> </ul>									

	<ul> <li>procedure. (10 mins)</li> <li>D) Encourage students to ask questions and discuss the procedure as it unfolds. Foster a collaborative learning environment.</li> <li>E) The teacher should Include scenarios where complications arise and teach students how to manage these situations.</li> <li>F) Provide access to reputable online resources and journals for further reading and research.</li> <li>G) Use quizzes, written exams, OSCE, and practical assessments to evaluate students' understanding and skills. (10 mins)</li> <li>H) Provide constructive feedback on their performance, highlighting areas of improvement and excellence.</li> <li>I) Stress the importance of patient safety, aseptic techniques, and surgical hygiene.(5mins)</li> <li>J) Discuss ethical issues related to surgery, including informed consent, patient confidentiality, and decision-making. (5mins)</li> </ul>
	decision-making. (Smins)

S.No	Name of Practical	Description of Practical Activity
NLHP 43.1	Etiology, Clinical Features and Medical Management of Karna Srava (Otorrhea).	<ul> <li>A)Student should be taught to find out the etiology, clinical features of Karna Srava (Otorrhea)</li> <li>B) For Case taking, the teacher should teach students the basics of case taking which starts with the student introducing himself/herself to patients.</li> <li>Students should then make patients comfortable and inform patient what he/she is going to do for case-taking purposes.</li> <li>The student should then be able to take generalized history of Karna Srava (Otorrhea).</li> <li>Students should also be able to do differential diagnosis, document the case in proper format, present the case and describe the Medical management of Karna Srava (Otorrhea).</li> <li>OR</li> <li>C) Teacher should engage students with virtual patient software that simulates real-life scenarios, helping them practice history-taking and clinical reasoning skills.</li> <li>OR</li> <li>D) The teacher can use standardized patients (actors or fellow students )to role-play patients with</li> </ul>

		<ul><li>Karna Srava.</li><li>Teachers should teach students the importance of building rapport and demonstrating empathy during patient interactions.</li><li>Students should highlight the role of active listening.</li><li>E) The teacher should assess students and provide constructive feedback.</li></ul>
NLHP 43.2	Surgical procedures of Mastoidectomy and Myringotomy.	<ul> <li>A)Teacher should teach students indications and contra-indications of Mastoidectomy and Myringotomy.</li> <li>Students, with the help of various audio-visual aids and observation under the guidance of consultants, must be able to explain pre-operative and post-operative management and basic surgical steps involved in the surgery.</li> <li>OR</li> <li>B)Student can be encouraged by the teacher to be a part of the surgical team.</li> <li>C)Teacher should teach students about post-operative care, including monitoring for complications and managing patient recovery.</li> <li>D)Teachers/consultants can record surgeries (with patient consent) for educational purposes.</li> <li>Reviewing these videos can help students learn and improve.</li> <li>E)Teacher should provide access to online surgical tutorials, webinars, and interactive platforms for additional learning.</li> <li>F) Teacher should promote teamwork and collaboration among students, encouraging them to learn from each other's experiences.</li> <li>Teacher should stress the importance of maintaining professionalism, confidentiality, and empathy towards patients to students.</li> <li>G) To Assess students' progress OSCE can be adopted which will cover:</li> <li>a. Understanding Surgical Anatomy</li> <li>b. Surgical Steps and its technique</li> <li>c. Patient Management</li> <li>d. Complications of Surgery and its Management.</li> </ul>

Topic 44 Karnakandu, Karnaguthaka, Karnapratinaha, Krumikarna, Karnavidradhi, Karnapaka. (LH :2 NLHT: 0 NLHP: 4)												
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO5	Describ Kandu.I Manage	e Samprapti Lakshanas and Chikitsa of Karna Describe the Etiology, Pathology, Clinical Features ment of Otomycosis.	and	CC	MK	KH	L&PPT ,L	DEB,T- OBT,QZ	F&S	II	-	LH
CO2, CO3, CO4, CO5	<ul> <li>Present an appropriate history in a patient presenting with Karna</li> <li>Kandu.</li> <li>Kandu.</li> </ul>		AFT- RES	МК	КН	PBL,TU T,ML,D- BED	P-CASE,P- EXAM,P-P RF,Mini- CEX	F&S	II	-	NLHP44.1	
CO1, CO2, CO3, CO4, CO5, CO6	<ul> <li>D1, Describe Samprapti, Lakshanas, Upadravas and Chikitsa of Karn</li> <li>D2, Guthaka (Ear Wax).Explain Samprapti, Lakshanas and Chikitsa</li> <li>D3, of Karna Pratinaha and Krimikarna (Maggots in Ear).Decipher</li> <li>D4, Hetu, Lakshanas, Samprapti and Chikitsa of Karna Vidradhi,</li> <li>D5, Karnapaaka (Otitis Externa).</li> </ul>		Karna citsa her i,	СС	МК	КН	L&PPT ,L	PP-Practica 1,T-OBT,V V-Viva,CL- PR,QZ	F&S	II	_	LH
CO1, CO3, CO5, CO6	<ul> <li>CO1, Summarise the technique for removal of Karnaguthaka (ear wax)</li> <li>CO3, from the ear.</li> <li>CO5, CO6</li> </ul>		wax)	CC	МК	КН	TUT,PB L,D- BED	Log book,P -CASE,P- VIVA	F&S	II	-	NLHP44.2
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
Non Le	ecture H	lour Practical										
S.No		Name of Practical	Descr	Description of Practical Activity								
NLHP 44.1     Assessment of Karna Kandu.     A)T       hima		A)Tea himse	A)Teacher should teach students the proper way of case taking which starts with students introducing himself/herself to patient.									

		<ul> <li>Student should then make patients comfortable and inform patient what he/she is going to do for case-taking purpose.</li> <li>Student should then take proper history of patient and present differential diagnosis of Karna Kandu in front of the class.</li> <li>Student should finally come to proper diagnosis and should be able to describe its Management and prognosis.</li> <li>B) Teacher should teach students the importance of building rapport and demonstrating empathy during patient interactions.</li> <li>Students should be highlighted the role of active listening.</li> <li>C) Students should Integrate case-taking with physical examination skills, teaching students correlations between them.</li> <li>D)Evaluate their performance with Mini-CEX.</li> <li>Observe a Student's interaction with a patient in a real-world clinical setting</li> <li>Rate the performance in areas like history taking, physical examination, and counseling skills</li> <li>Teacher should provide constructive feedback on their performance, highlighting areas of improvement and excellence.</li> <li>performance is recorded on a 4-point scale where 1 is unacceptable, 2 is below expectation, 3 is met expectations, and 4 is exceeded expectations.</li> </ul>
NLHP 44.2	Removal of Ear Wax.	<ul><li>A) Teacher should teach student the signs and symptoms of Karnaguthaka (Ear Wax).</li><li>B)Teacher should emphasize students the importance of aseptic techniques and the steps to maintain a sterile environment.</li><li>C) Teacher should walk students through the procedure step-by-step, explaining the purpose and technique of each step.</li></ul>

			D)Teac and ma E) Stud for add	cher shoul maging pa lents shou itional lea	ld teach stu atient reco ild be prov arning.	idents abo very. ided acce	out post-ope ss to online	rative care, ind surgical tutori	cluding m als, webir	onitorin nars, and	g for com 1 interacti	plications
Topic 4	Fopic 45 Rhinitis (LH :1 NLHT: 2 NLHP: 0)											
A3		B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO2	Define and Cli commo and Atr	and Enlist types of Rhinitis.Describe Etiology, Pathonical Features of Acute Non-specific Rhinitis (The n cold), Allergic Rhinitis, Chronic Hypertrophic Rhiophic Rhinitis.	ology nitis	CC	МК	КН	L,L&PP T	T-OBT,VV- Viva,QZ	F&S	Π	-	LH
CO2, CO5	<ul> <li>CO2, Describe Differential Diagnosis, Investigations, Complications, and Treatment of Acute Non-specific Rhinitis (The common cold).Explain Differential Diagnosis and Treatment of Chronic Hypertrophic Rhinitis.</li> </ul>		ons, n nic	CC	МК	КН	LS,L& GD,DIS ,FC	QZ ,INT,V V- Viva,PRN	F&S	II	-	NLHT45.1
CO2, CO5	CO2, Describe Differential Diagnosis, investigations, complications, CO5 and medical treatment of Atrophic rhinitis and Allergic rhinitis.Summarize current research studies on Allergic rhinitis.		ons, itis.	CC	МК	КН	L&PPT ,FC,DIS	CL-PR,PR N,Mini- CEX	F&S	II	-	NLHT45.2
Non L	ecture H	Iour Theory				•						-
S.No		Name of Activity	Descri	iption of	Theory A	Activity						
NLHT 45.1     Diagnosis and Treatment of Rhinitis.     A) Te       Diagnosis and Treatment of Rhinitis.     A) Te       Stude     Stude			A) Tea Diagno cold).; given 1 Student accurac	A) Teacher will form six study groups to discuss and share information, each for Differential Diagnosis, Investigations, Complications, and Treatment of Acute Non-specific rhinitis (The common cold).; and Differential Diagnosis and Treatment of Chronic Hypertrophic Rhinitis. They should be given 1 week time before the scheduled presentation for this topic. Students will study themselves, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness.								

		<ul> <li>OR</li> <li>They can go to library, ask Librarian's help, they can subdivide subtopics amongst themselves and split time between different activities like searching for articles, reading and taking notes.</li> <li>Let them summarize what they have learned and present in the classroom. Each group will be given a time of 06-08 minutes.</li> <li>OR</li> <li>B) They can use Flipped Classroom to illustrate different types of rhinitis and their management. Each group will be given a time of 06-08 minutes. Utilize pre-class quizzes or short assignments to gauge students' prior knowledge and preparation for the in-class activities; During class discussions, pay attention to student participation, level of curiosity, and willingness to ask questions to assess their engagement; Encourage students to reflect on their learning process and identify areas where they need further support; Review and re-solve the problems they get wrong. It is preferable to provide self-evaluation in flipped classroom in a simple form, such as a quiz.</li> <li>C) Assessing presentations involves evaluating a speaker's performance, clarity of voice, communication skills, content, time management, use of visual aids, and spelling and grammar.</li> </ul>
NLHT 45.2	Diagnosis and treatment of Atrophic and Allergic Rhinitis; Summary of Research studies on Allergic Rhinitis.	<ul> <li>Teacher will form Ten study groups to discuss and share information, each for</li> <li>A) Differential Diagnosis, B)Investigations, C) Complications, and D) Medical Treatment of Atrophic Rhinitis;</li> <li>E) Differential Diagnosis, F) Investigations, G)Complications, H) Prevention and I) Medical Treatment of Allergic Rhinitis;</li> <li>J) Current Research studies on Allergic Rhinitis.</li> <li>Teacher sends them to the Library, they can subdivide subtopics amongst themselves and split time between different activities like searching for articles, reading and taking notes. Students will study themselves, discuss with peers, review each others notes and findings to ensure accuracy and comprehensiveness.</li> <li>Librarian can familiarise them with tools like Zotero, to organise and present the research works.</li> <li>Powerpoint presentation or Flipped classroom method will be used to discuss in class.</li> </ul>

NonL	osture Hour Prostical	Each g At the Assess analys effecti	group will end of the sment show is, gramm ive use of	be given 0 e session, t uld be don ar and spe visual aids	5 minutes he teacher e on the fo lling, deliv	to present will summ ollowing po very of the	their topic. aarize what the ints- content, f material, audie	y have lea ocus, clar nce engag	rned. ity and o gement,	coherence handling 1	, in-depth nerves, and
S.No	Name of Practical	Descr	ription of	Practical	Activity	,					
Topic 46 Deeptadi Nasaroga. (LH :3 NLHT: 1 NLHP: 2)											
A3	B3		C3	D3	E3	F3	G3	H3	I3	K3	L3
CO2, CO3, CO5, CO6	<ul> <li>CO2, Describe Samprapti, Lakshana and Chikitsa of Peenasa,</li> <li>CO3, Apeenasa, Putinasa (Sinusitis).Define Sinusitis and its</li> <li>CO5, types.Describe etiology, pathology, clinical features, differential</li> <li>diagnosis, radiological and laboratory investigations,</li> <li>complications and medical treatment of Sinusitis (Frontal and</li> <li>Maxillary).Describe Surgical Treatment of Sinusitis- Functional</li> <li>endoscopic sinus surgery. (Its indications, contraindications, type</li> <li>of anesthesia, major surgical steps, post-operative care,</li> <li>complications and their management in brief).Describe when to</li> <li>seek an expert opinion, and when to refer for surgery.</li> </ul>		CC	МК	КН	L&PPT ,L	QZ ,VV-Vi va,CL-PR,S- LAQ	F&S	Π	-	LH
CO3, CO4, CO7	Present an appropriate history in a patient presenting with Nasasrava (Rhinorrhoea), Sinusitis.		AFT- RES	МК	SH	D-BED, CD,PBL	OSCE,Mini -CEX,P- VIVA,CBA	F&S	II	-	NLHP46.1
CO2, CO5	Describe Samprapti, Lakshana and Chikitsa of Deepta, Pu Nasaparishosha, Bhramshathu, Nasanaha, Kshavathu.	taka,	CC	МК	КН	L&PPT ,RP,FC, ML,DIS	COM,PRN, SA,P-VIV A,VV-Viva	F&S	II	-	NLHT46.1

S.No	Name of Activity	Description of Theory Activity
NLHT 46.1	Diagnosis and treatment of Deepta, Putaka, Nasaparishosha, Bhramshathu, Nasanaha, Kshavathu.	<ul> <li>A) Teacher will form six study groups to discuss and share information, each for Deepta, Putaka, Nasaparishosha, Bhramshathu, Nasanaha, and Kshavathu (Samprapti, Lakshana and Chikitsa). Use platforms like Google Classroom or messaging services like WhatsApp and telegram to share information on these topics.</li> <li>Students will study themselves, discuss with peers, review each other's notes and findings to ensure accuracy and comprehensiveness.</li> <li>They will do PowerPoint presentation in class.</li> <li>OR</li> <li>The teacher will assign roles to the students such as the patient, the primary care provider, a nurse, and an observer. Rotate roles to ensure each student gets to practice different aspects of management. Give clear instructions and guidelines for the role-play scenarios, including the symptoms and history of the patient.</li> <li>B) At the end of the session, summarize what they have learned and plan what to do next.</li> <li>C) Encourage students to reflect on their own performance and identify areas for improvement. Self-assessment can be done on the following parameters:- Teamwork and collegiality, empathy and openness, ethical awareness, work planning, scientific method of working, structuring, coping with mistakes, and priorities. Presentations can be assessed with the following parameters:- content, focus, clarity and coherence, in-depth analysis, grammar and spelling, delivery of the material, audience engagement, effective use of visual aids.</li> </ul>

S.No	Name of Practical	Description of Practical Activity
NLHP 46.1	Examination of Nasa and Nasagandakutalalatasthi- kuhara (Nose and Paranasal sinuses). Evaluation of Nasa srava (Rhinorrhoea).	A)Sub-divide students in groups of 4-6. Use problem based learning method. (PBL). Use one patient each for teaching Nasasrava and Sinusitis and as the case unfolds, the teacher should

	Evaluation of Sinusitis.	show l kuhara Show Discus Later, case o Assess	how to exa a.(Paranasa how to per ss Differen , The stude f patients I s the perfor	amine Nasa al sinuses). rform Ante atial Diagno ent will take presenting rmance of	vamsha (S rior and Pe osis of Nas e a history with Nasa students by	Septum), N osterior rhi sasrava. c, examine Srava and y MINI-CE	asasrotas (Nas noscopy. with proper ins Sinusitis. EX method:-	al Cavity) struments,	, Nasag docum	andakutala	llatasthi- esent the
		<ul> <li>Observe a Student's interaction with a patient.</li> <li>Rate the performance in areas like history taking, physical examination, and counselling skills.</li> <li>The student receives immediate feedback from the teacher.</li> </ul>									
		OR It can	<ul> <li>OSCE st commun checklist</li> </ul>	d by Obser ations to h lication ski ts to evalua	ved Struct ave signs o lls and his ite student	tural Clinic of General tory taking s' performa	al Examination examination, l of a particular ince in a reliab	n (OSCE). ocal exam examinat le and con	ination ion . Th	, psychomo ne assessor way.	otor skills, should use
			Communication Communication	nication ski t.	ills to be a	ssessed by	Kalamazoo es	sential ele	ments c	communica	ation
Topic 4	47 Nasavamsha-kutilatwa (Deviated Nasal Septum). (J	LH :1	NLHT: 1	I NLHP:	0)						
A3	B3		C3	D3	E3	<b>F</b> 3	G3	H3	<b>I</b> 3	K3	L3
CO2, CO3, CO5	Define and Enlist types of Nasavamsha-kutilatwa (Deviated I Septum).Explain Etio-pathology, Clinical Features, Different Diagnosis, investigations, complications, and medical mananagement of Nasavamsha-kutilatwa (Deviated Nasal	Nasal tial	CC	МК	КН	L,L&PP T	QZ ,CL-PR ,T-OBT,VV- Viva	F&S	Π	-	LH

	Septum	).										
<ul> <li>CO5, Describe surgical Management of Nasavamsha-kutilatwa</li> <li>CO6 (Deviated Nasal Septum) Sub mucous resection (SMR), Septoplasty. (Their indications, contraindications, type of anesthesia, major surgical steps, post-operative care, complications and their management in brief).Describe wher seek an expert opinion, and when to refer for surgery.</li> </ul>				СС	DK	К	PER,M L,L_VC ,DIS	T-OBT,CH K,VV-Viva ,P- EXAM,QZ	F&S	Π	-	NLHT47.1
Non L	ecture H	Iour Theory										
S.No		Name of Activity										
NLHT 4	47.1	Surgical management of Nasavamsha-kutilatwa (Deviated Nasal Septum).	<ul> <li>A) The Use a</li> <li>OR</li> <li>B)He key m</li> <li>each a</li> <li>Provid</li> <li>misse</li> <li>OR</li> <li>C) En</li> <li>learni</li> <li>D) Ti:</li> <li>E) Th</li> <li>these</li> <li>F) Pro</li> <li>G) Us</li> <li>under</li> <li>H) Str</li> <li>J) Dis</li> </ul>	natomical may show noments to action. de students d. courage st ng environ me Duratio e teacher s situations. ovide access access accurage st ng environ me Duratio e teacher s situations.	may- models, di recorded a explain in s with proc udents to a unent. on- SMR- hould Incl ss to reputa , Open boo nd skills. U portance o al issues re	agrams, an surgical pr aportant st cedural che ask questic 40 min. Se ude scenar able online ok theory t Jse platfor of patient s clated to su	nd 3D anim rocedures to eps. Explai ecklists to h ons and disc eptoplasty- rios where e resources ests, Check ms like Ka afety, asept urgery, inclu	ations to illust o give students n each step the elp them reme cuss the procee 15 min. complications and journals fe lists and Class hoot!, Mentim cic techniques, uding informed	a realistic proughly, a ember the a dure as it u arise and a pr further to presentat teter to gen and surging d consent,	cal proc view o includin steps an anfolds. teach str reading ions to o herate qui cal hygi patient	edures. of the proceeding the rational densure in densure in Foster a contract of the second udents how and researed valuate stuizzes. ene. confidenti	ess. Pause at onale behind nothing is ollaborative w to manage rch. sudents'

			decision H) Desc	decision-making. H) Describe when to seek an expert opinion, and when to refer for surgery.								
Non L	ecture H	lour Practical										
S.No		Name of Practical	Descri	ption of	Practical	Activity	7					
Topic	48 Dan	amulagata roga (LH :2 NLHT: 1 NLHP: 0)										
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	I3	К3	L3
CO2, CO5	<ul> <li>CO2, Describe the aetiopathogenesis, clinical features, prevention and treatment of Gingivitis and Periodontitis.Explain the indication for referral in Dantamoolagata Roga</li> </ul>		n and ations	CC	MK	КН	L,L&PP T	T-OBT,QZ ,PUZ	F&S	II	-	LH
CO2, CO5	<ul> <li>CO2, Describe the clinical features and treatment of Paridara,</li> <li>CO5 Adhimamsa (Impacted wisdom tooth), and Describe the Nidana Samprapti, clinical features, classification and treatment of DantaNaadi.</li> </ul>		idana,	CC	МК	КН	L&PPT	T-OBT,PU Z,M- POS,QZ	F&S	Π	-	LH
CO2, CO5	<ul> <li>CO2, Describe the clinical features and treatment of Sheetada,</li> <li>CO5 Upakusha, Dantaveshtaka and Dantavidradhi(Apical abscess).</li> </ul>		ss).	CC	МК	КН	ML,FC, PBL,L& GD,PL	P-VIVA,M- POS,CL- PR,QZ	F&S	II	-	NLHT48.1
Non L	ecture H	lour Theory				-						
S.No		Name of Activity	Descri	ption of	Theory A	Activity						
NLHT 48.1Laxanas and Chikitsa of Sheetada, Upakusha, Dantaveshtaka and Dantavidradhi.Pre-			Pre-Cla	uss (Onlin	ne Learning	g) – Befor	e the Sessio	on				
			•	Student: °	s access dig Etiology, ( 1. Sh	gital resou Clinical Fe eetada	urces (video eatures, Diff	s, articles, or F ferential Diagr	PDFs) shan losis, Con	red by tl	he teacher ons, and T	on: reatment of:

	<ul><li>2. Upakusha</li><li>3. Dantaveshtaka</li><li>4. Dantavidradhi (Apical Abscess)</li></ul>
• They stud	dy at their own pace, take notes, and prepare for classroom discussions.
In-Class (Face-to	-Face Learning) – 55 Minutes
1. Introduction &	: Group Formation (5 minutes)
• Teacher	gives a brief overview and clarifies learning objectives.
• Students	are divided into four groups, each assigned one disease.
2. Group Discuss	tions & Peer Learning (15 minutes)
<ul><li>Each gro</li><li>They refi</li><li>The teach</li></ul>	up collaborates, discussing key aspects from their pre-class study. ne their understanding, compare notes, and identify key points for presentat ner acts as a facilitator, clarifying doubts and ensuring accuracy.
3. Group Present	ations (20 minutes) – 5 minutes per group
• Each gro	up presents their findings in 5 minutes using:
• V • I	Vhiteboards Digital slides
• (	Charts or models
• Other stu	dents ask questions, ensuring peer engagement.

				<ul> <li>The teac learning</li> </ul>	cher provid points.	es feedbac	ek on prese	ntations, correc	cts miscon	ception	is, and hig	hlights key		
				Class discussion on Ayurvedic relevance and modern perspectives.										
			5. Ass	5. Assessment & Reflection (5 minutes)										
				<ul> <li>Students are evaluated on presentation skills based on: <ul> <li>Content accuracy and depth</li> <li>Clarity and coherence</li> <li>Audience engagement</li> <li>Delivery and confidence</li> <li>Use of visual aids</li> </ul> </li> <li>The session concludes with a brief reflection and discussion on next steps for learning.</li> </ul>										
S.No		Name of Practical	Desci	ription of	Practical	Activity								
Topic 4	49 Jihva	agata Roga (LH :1 NLHT: 1 NLHP: 0)												
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3		
CO2, CO5	CO2, Describe the clinical features and treatment of Vatika, Paittika CO5 Kaphaja Jihvakantaka and Alasa.		tika and	CC	МК	KH	L,L&PP T	QZ ,PUZ,S P,T-CS,VV- Viva	F&S	II	-	LH		
CO2, CO5	Describ and glos Glossiti	e the clinical features and management of ankylogl ssitis (Hairy tongue, Geographic tongue, Migratory s).	ossia	CC	МК	KH	FC,PL, ML,DIS ,LS	VV-Viva,P- VIVA,QZ , M-POS,CL-	F&S	II	-	NLHT49.1		

PR

Non Lecture	Hour Theory		
S.No	Name of Activity	Description of Theory Activity	
NLHT 49.1	Clinical features and management of ankyloglossia and glossitis (Hairy tongue, Geographic tongue, Migratory Glossitis).	Symposium Structure & Time Distribution: 1. Introduction & Overview by the Moderator (5 minutes)	
		<ul> <li>The teacher (or a designated student) introduces the theme of the symposium.</li> <li>Brief explanation of importance, etiology, and general approach to tongue disorders.</li> <li>Groups are introduced, and the session format is explained.</li> </ul>	
		2. Group Presentations (30 minutes) – 10 minutes per group	
		Each group presents a specific topic, covering:	
		<ul> <li>Definition &amp; Etiology</li> <li>Clinical Features</li> <li>Complications</li> <li>Management &amp; Treatment (Modern &amp; Ayurvedic Approaches)</li> </ul>	
		Group 1: Ankyloglossia (Tongue-Tie)	
		Group 2: Hairy Tongue (Lingua Villosa)	
		Group 3: Geographic Tongue (Benign Migratory Glossitis) and Migratory Glossitis	
		3. Open Discussion & Q&A (10 minutes)	
		<ul><li>Each group asks questions to other groups, fostering peer learning.</li><li>The teacher clarifies doubts and emphasizes key differentiating features.</li></ul>	
		4. Summary & Takeaways (5 minutes)	

ecture H	Iour Practical	•	The tead Discuss Assign f	ther or moo the clinica follow-up t	lerator su l relevanc asks like	mmarizes tl e and impo writing a sh	ne main points rtance in Ayur ort reflective r	veda and a eport on v	modern vhat the	medicine y learned.	
	Name of Practical	Descrij	ption of	Practical	Activity	7					
50 Krin	nidantaka and Dantaharsha (LH :1 NLHT: 1	NLHP:	0)								
	B3 C3 D3 E3 F3 G3 H3 I3 K3 L3										
Describ Krimida hyperse	be the Samprapti, clinical features and treatment of antaka (Dental carries), and Dantaharsha (Dentin ensitivity).		CC	МК	КН	L&PPT	QZ ,VV-Vi va,M-POS, SP,T-OBT	F&S	II	-	LH
Explain	root canal treatment.		CC	DK	КН	L_VC, ML,FC, BL	QZ ,CL- PR,M-POS	F	II	-	NLHT50.1
ecture H	Iour Theory										
	Name of Activity	Descri	ption of	Theory A	ctivity						
NLHT 50.1       Explanation of Root Canal Treatment.       1. Introduction & Visual Learning (10 min) Method: Flipped Classroom         • Share pre-session materials (videos, diagrams, articles) on RCT before class.       • Share pre-session materials (videos, diagrams, articles) on RCT before class.         • In-class: Use 3D animations, models, or a video demonstration of the RCT procedure.       • Discuss the importance of RCT, indications, and contraindications.							dure.				
	ecture F 50 Krim Describ Krimida hyperse Explain ecture F 50.1	ecture Hour Practical Name of Practical 50 Krimidantaka and Dantaharsha (LH :1 NLHT: 1 B3 Describe the Samprapti, clinical features and treatment of Krimidantaka (Dental carries), and Dantaharsha (Dentin hypersensitivity). Explain root canal treatment. ecture Hour Theory 50.1 Explanation of Root Canal Treatment.	ecture Hour Practical         Name of Practical       Description         50 Krimidantaka and Dantaharsha (LH :1 NLHT: 1 NLHP:       B3         Describe the Samprapti, clinical features and treatment of Krimidantaka (Dental carries), and Dantaharsha (Dentin hypersensitivity).       Explain root canal treatment.         Explain root canal treatment.       Explain root canal treatment.       Description         50.1       Explanation of Root Canal Treatment.       1. Introm Method         0.1       Explanation of Root Canal Treatment.       0.1         0.1       Explanation of Root Canal Treatment.       0.1	• The tead         • The tead         • Discuss         • Assign f         • ecture Hour Practical         • Name of Practical         • Description of         50 Krimidantaka and Dantaharsha (LH :1 NLHT: 1 NLHP: 0)         • Describe the Samprapti, clinical features and treatment of Krimidantaka (Dental carries), and Dantaharsha (Dentin hypersensitivity).         • Explain root canal treatment.       CC         • CC         • CC         • CC         • CC         • Description of Activity         • Description of Root Canal Treatment.         • Share pn         • In-class:         • Of Son Canal Treatment.         • Share pn         • In-class:         • Discuss         • Discuss         • Of Son Canal Treatment.	<ul> <li>The teacher or model is the clinical isotropy of the clini</li></ul>	• The teacher or moderator su         • Discuss the clinical relevance         • Assign follow-up tasks like         ecture Hour Practical         Description of Practical Activity         50 Krimidantaka and Dantaharsha (LH :1 NLHT: 1 NLHP: 0)         B3       C3       D3       E3         Description of Practical Carries), and Dantaharsha (Dentin hypersensitivity).       CC       MK       KH         Explain root canal treatment.       CC       DK       KH         ecture Hour Theory       Explanation of Root Canal Treatment.       1. Introduction & Visual Learning (Method: Flipped Classroom         50.1       Explanation of Root Canal Treatment.       Share pre-session materials in the flipped Classroom       9. Share pre-session materials in the class: Use 3D animations in Discuss the importance of R         0.1       Case-Based Discussion (15 min)       1. Share pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pre-session materials in the class: Use 3D animations in the pro-session materials in the class: Use 3D animations in the class: Use 3D animations in the pre-s	• The teacher or moderator summarizes th         • Discuss the clinical relevance and impo         • Assign follow-up tasks like writing a sh         ecture Hour Practical         Description of Practical Activity         50 Krimidantaka and Dantaharsha (LH :1 NLHT: 1 NLHP: 0)         Image: State of the Samprapti, clinical features and treatment of Krimidantaka (Dental carries), and Dantaharsha (Dentin hypersensitivity).       CC       MK       KH       L&PPT         Explain root canal treatment.       CC       DK       KH       L_VC, ML,FC, BL         Eeture Hour Theory         50.1       Explanation of Root Canal Treatment.       I. Introduction & Visual Learning (10 min) Method: Flipped Classroom         Sol.1       Explanation of Root Canal Treatment.       Share pre-session materials (videos, dia 1 m-class: Use 3D animations, models, or 0 Discuss the importance of RCT, indicat 2. Case-Based Discussion (15 min)	• The teacher or moderator summarizes the main points         • Discuss the clinical relevance and importance in Ayur         • Assign follow-up tasks like writing a short reflective r         ecture Hour Practical         Name of Practical         Description of Practical Activity         50 Krimidantaka and Dantaharsha (LH :1 NLHT: 1 NLHP: 0)         Escripte the Samprapti, clinical features and treatment of Krimidantaka (Dental carries), and Dantaharsha (Dentin hypersensitivity).       CC       MK       KH       L&PT       QZ, VV-Vi va.M-POS, SP,T-OBT         Explain root canal treatment.       CC       DK       KH       L,VC, QZ, CL-MI,FC, PR,M-POS       BL         ecture Hour Theory       Explanation of Root Canal Treatment.       I. Introduction & Visual Learning (10 min) Method: Flipped Classroom         50.1       Explanation of Root Canal Treatment.       Share pre-session materials (videos, diagrams, articles en In-class: Use 3D animations, models, or a video demo e Discuss the importance of RCT, indications, and contrul 2. Case-Based Discussion (15 min)	<ul> <li> <ul> <li>The teacher or moderator summarizes the main points.</li> <li>Discuss the clinical relevance and importance in Ayurveda and Assign follow-up tasks like writing a short reflective report on vision of the clinical relevance and importance in Ayurveda and Assign follow-up tasks like writing a short reflective report on vision vision of the clinical relevance and importance in Ayurveda and Assign follow-up tasks like writing a short reflective report on vision vision vision vision vision of the clinical relevance and importance in Ayurveda and Assign follow-up tasks like writing a short reflective report on vision v</li></ul></li></ul>	<ul> <li>The teacher or moderator summarizes the main points.</li> <li>Discuss the clinical relevance and importance in Ayurveda and modern e Assign follow-up tasks like writing a short reflective report on what the ecture Hour Practical</li> <li>Name of Practical</li> <li>Description of Practical Activity</li> <li>SO Krimidantaka and Dantaharsha (LH :1 NLHT: 1 NLHP: 0)</li> <li>Isomory and Dantaharsha (LH :1 NLHT: 1 NLHP: 0)</li> <li>C3 D3 E3 F3 G3 H3 I3</li> <li>Description of Practical Activity</li> <li>CC MK KH L&amp;PPT QZ, V-Vi F&amp;S II van. Prop. Prop</li></ul>	<ul> <li> <ul> <li></li></ul></li></ul>
Method: Problem-Based Learning (PBL)

• Present a realistic clinical case:

"A patient complains of severe pain in a molar with deep caries. The tooth is tender on percussion, and X-ray shows periapical pathology."

- Divide students into three groups to discuss:
  - Group 1: Diagnosis (Symptoms, Pulp Testing, X-ray interpretation).
  - Group 2: Step-by-Step RCT Procedure (Access, Cleaning, Shaping, Obturation).
  - Group 3: Post-Treatment Care & Ayurveda-Based Healing Approaches.
- Each group presents findings, followed by discussion.

3. Simulation & Demonstration (15 min) Method: DIY Simulation

- Use readily available models to simulate RCT steps:
  - Soap Carving Method: Students carve access cavities on soap bars or wax blocks to understand instrument handling.
  - Clay Model Demonstration: Representing root canal anatomy.
  - Use tooth models with X-ray images for visualization.
- If possible, invite a guest dentist or use a virtual demonstration.

4. Interactive Q&A & Quiz (10 min)

Method: Peer Teaching & Gamification

- Conduct a quiz (MCQs or case-based questions).
- Encourage students to explain concepts to peers.
- Address common doubts.

			5. Con Metho	od: Summa • Teacher • Ask stud	Reflection ry Discuss reinforces lents: "How	n (5 min) ion key conce w will you	epts. 1 explain R(	CT to a patient	?"			
Non Le	ecture H	our Practical	<u> </u>									
S.No		Name of Practical	Description of Practical Activity									
Topic 5	51 Drav	Dravyas used in Karna Nasa Mukha Roga Chikitsa-1 (LH :1 NLHT: 0 NLHP: 2)										
A3	B3         C3         D3         E3         F3         G3         H3         I3         K3         L3											
CO5	Elucidat Roga- A Decong	te Common Dravyas used in Karna Nasa Mukha Antibiotics, PPIs, Steroids, Antihistamines, Nasal estants, and Anesthetic drugs.		CC	DK	КН	L	INT,O-QZ, P-EXAM,V V- Viva,PUZ	F&S	Π	-	LH
CO5, CO7Describe Samanya Yoga (Drugs) used in Karna Nasa Mukha Roga.CCDKKHD,DA,LCOM,CBA, Log book,I IS,CBLF&S				II	V-DG	NLHP51.1						
Non Le	ecture H	ture Hour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
Non Le	ecture H	our Practical										
S.No	No Name of Practical Description of Practical Activity											

NLHP 51.1	Contemporary Pharmaceutical Agents Used in Karna Nasa Mukha Roga.	1. Introduction (10 min)
		<ul> <li>Brief overview of pharmacological agents used in Karna Nasa Mukha Roga (ENT disorders).</li> <li>Explain classification &amp; mode of action of: <ul> <li>Antibiotics (Amoxicillin, Cephalosporins, Macrolides, Fluoroquinolones, Aminoglycosides).</li> <li>PPIs (Rabeprazole, Esomeprazole, Omeprazole).</li> <li>Steroids (Fluticasone, Glucocorticoids).</li> <li>Antihistamines (Cetrizine, Bilastine, Fexofenadine).</li> <li>Nasal Decongestants (Ephedrine, Oxymetazoline).</li> </ul> </li> <li>2. Group Activity - Case-Based Discussion (20 min)</li> </ul>
		<ul> <li>Divide students into 5 groups, each assigned a case involving drug use in ENT disorders.</li> <li>Cases provided: <ul> <li>Group 1: Bacterial sinusitis – Choice of antibiotics, dosage, resistance issues.</li> <li>Group 2: GERD-associated chronic cough – Role of PPIs, adverse effects.</li> <li>Group 3: Allergic rhinitis – Use of steroids &amp; antihistamines, comparison of nasal sprays.</li> <li>Group 4: Acute otitis media – Indications for antibiotics vs. observation.</li> <li>Group 5: Nasal congestion – Benefits &amp; risks of decongestants.</li> </ul> </li> <li>Each group discusses their case and presents findings.</li> </ul>
		3. Practical Demonstration (15 min) Method: Hands-on Drug Identification & Prescription Writing
		• Display different drug formulations (tablets, syrups, nasal sprays).

			• Teach sinstructi	tudents hov	v to read l	abels, ident	ify active ing	redients, a	nd unde	rstand dosi	ng
			• Practice	prescription	on writing	for each dr	ug category b	ased on ca	se discı	issions.	
		4. Q8	A and Co	nclusion (1	0 min)						
			• Interact	ive Q&A s	ession to c	clarify doub	ts.				
			<ul><li>Recap o</li><li>Discuss</li></ul>	Avurvedic	alternativ	ves for symp	otom relief				
				5		5 1					
		5. Re	cording the	e Activity i	n the Jour	nal or Clini	cal Record				
			• Each stu	ident must	document	the session	in their journ	al or clini	cal reco	rd, includir	ng:
			0	Summary	of case dis	scussions an	d key takeaw	ays.	a sida a	facto	
			0	Observatio	ons from p	ractical den	nonstrations (	drug identi	ficatior	i, prescripti	on writing,
				etc.).				C			C I
			o • The iou	Personal re	eflections	on learning	outcomes and	l areas for	improv	ement.	nt
			• The jou				iu signeu by ti	le faculty			
Topic	52 Karı	narsha and Karnarbuda (LH :1 NLHT: 0 NLHP: 0)	) T			1		T			
A3		B3	C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3
CO2, CO5, CO6	Describ Karnart and Me indicati	e Samprapti, Lakshanas, and Chikitsa of Karnarsha and ouda.Discuss the Etiology, Pathology, Clinical features, dical and Surgical management of Aural Polyp.Enlist ons for referral in these conditions.	CC	МК	КН	L&PPT ,L	DEB,T- OBT,QZ	F&S	III	H-SH	LH
Non L	ecture H	lour Theory		1	1	1		1	1	1	

S.No		Name of Activity	Descri	iption of	Theory A	ctivity						
Non Le	ecture H	our Practical	•									
S.No		Name of Practical	Descri	iption of	Practical	Activity						
Topic 5	53 Karr	asandhana (LH :1 NLHT: 1 NLHP: 0)	•									
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO3, CO5	<ul> <li>Describe Karnasandhana; its Indications, Contraindications,</li> <li>Types, Purva-Pradhana-Pashchat Karma and Complications.</li> </ul>			CC	MK	KH	L&PPT	T-CS,M-C HT,T-OBT	F&S	III	-	LH
CO3, CO4, CO5	<ul> <li>O3, Elaborate on Indications, Contraindications, and Surgical</li> <li>O4, procedures of Auroplasty.</li> <li>O5</li> </ul>			CC	DK	КН	SIM,FC ,D-M,P BL,L_V C	C-VC,OSC E,CL- PR,QZ ,M- POS	F&S	III	-	NLHT53.1
Non Le	ecture H	our Theory			•							
S.No		Name of Activity	Descri	iption of	Theory A	ctivity						
NLHT 53.1 Purva-Pradhana-Pashchat Karma for Karnasandhana (Auroplasty).			Karnas A) The Use an Show r momer action. Provide missed OR B) The control OR	andhana e teacher r atomical recorded s nts to exp ( 15 mins e students . (10 min e teacher r lled, risk-	(60 mins) nay- models, dia surgical pro- lain import s) s with proce s) nay use Via free enviro	agrams, ar ocedures to ant steps. edural che rtual Reali nment.	nd 3D anim o give stude Explain eac ocklists to h ity or surgio	ations to illust ents a realistic ch step thoroug elp them reme cal simulators	rate surgic view of th ghly, inclu mber the s to provide	al proce e proce ding the teps an hands-	edures. (10 ess. Pause a e rationale d ensure n on practice	) mins) at key behind each othing is e in a

Non L		C) Hay proced D) End learnin E) The these s F) Pro G) Use H) Pro excelle I) Strea J) Disc decisio	ve students lure.(10mi courage stu g environg e teacher sl situations. vide acces e quizzes, ovide const ence. ss the impo cuss ethica on-making	s role-play ns) idents to a ment. (5mi nould Inclu s to reputa written exa ructive fee ortance of l issues rel . (5 mins)	as surgeon sk question ns) ide scenar ble online ams, and C edback on patient saf ated to sur	ns, assistan ns and disc ios where c resources a DSCEs to e their perfor fety, aseptio rgery, inclu	ts, or scrub nu uss the proced complications a and journals for valuate student rmance, highli t techniques, a ding informed	rses to pra- lure as it un arise and to or further ro ts' underst ghting area nd surgica l consent, p	ctice di nfolds. 1 each stu eading a anding as of im l hygien patient o	fferent asp Foster a co idents how and researc and skills. provemen ne. confidentia	ects of the ollaborative y to manage ch. (5 mins) t and ality, and
Non Le	ecture Hour Practical	1									
S.No	Name of Practical	Descr	iption of	Practical	Activity						
Topic :	54 Bhraamara (Vertigo) (LH :1 NLHT: 1 NLHP: 2)										
A3	B3		C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO2, CO5	Describe Etiology, Pathology, Clinical Features and Manage of Labyrinthitis.Describe the Etiology, Pathology, Clinical Features, and Medical and Surgical Management of Meniere Disease.	ement e's	CC	DK	КН	L&PPT ,L	CL-PR,QZ ,T-OBT	F&S	III	-	LH
CO1, CO2, CO3, CO4, CO5,	Describe Etiology, Pathology, Clinical Features and Manage of Benign Paroxysmal Positional Vertigo (BPPV)	ement	СС	DK	КН	L&GD, ML,FC, L&PPT ,PER	M-POS,DO AP,CL- PR,QZ ,T- OBT	F&S	III	-	NLHT54.1

CO6 CO2, CO3, CO4, CO5,	Present an appropriate history in a patient presenting Bhraamara (Vertigo).	with	AFT- RES	DK	SH	PER,PB L,PT,T UT,D- BED	P-EXAM,D EB,PP-Prac tical,M-CH T,VV-Viva	F&S	III	_	NLHP54.1			
Non L	ecture Hour Theory													
S.No	Name of Activity	Desc	Description of Theory Activity											
NLHT	54.1 Etiology, Pathology, Clinical Features and Management of Benign Paroxysmal Position Vertigo (BPPV)	al A) Te Clinic Stude then p Teach B) Stu under C) Ev demo	gn Paroxys eacher will cal Feature ints will be present in f her should her should udent shou the guidan valuate the nstration, o	mal Positio form four s and Man encourage front of the discuss the Brainstorn ld be able nce of the 0 student's p	onal Vertig study grou agement o ed to go to entire class relation b to diagnos Clinician u erformanc n, assistanc	go (BPPV) ups to discu if Benign P the library ssroom (10 between Bh ns and trea e and perfo using Rolep be on the ba ce and perf	(60 mins) uss and share in aroxysmal Pos (pre-class) an mins each gro raamara and B tment modalit orm various cli blay. (10mins) usis of their pre ormance.	nformation sitional Ve d ask Libr oup) SPPV. (5mins nical man esentations	n, each f ertigo (B arian's f ins) s) euvers 1 s, quizze	For Etiolog PPV). help. Each ike Epliey es, and pra	gy, Pathology, group will maneuver			
Non Lecture Hour Practical														
S.No	Name of Practical	Desc	ription of	Practica	Activity									
NLHP 54.1       Case discussion on Bhraamara (Vertigo).       A) Teacher should teach students the proper way of case taking which starts with stud         himself/herself to the patient.       Student should then make patients comfortable and inform patient what he/she is goin         taking purpose.       Student should then take proper history of the patient and present a differential diagnore					th students is going to diagnosis	s introducing do for case- of Vertigo in								

front of the class. Student should finally come to proper diagnosis and should be able to describe its Management and prognosis. OR B)Teacher should have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions. OR C) Students should utilize advanced simulation technology to create realistic patient scenarios. Teacher should engage students with virtual patient software that simulates real-life scenarios, helping them practice history-taking and clinical reasoning skills. OR Teacher can use standardized patients( actors or fellow students )to role-play patients D) Students can be recommended apps like Geekymedics that offer virtual practice and quizzes on history-taking skills.
D) Students can be recommended apps like Geekymedics that offer virtual practice and quizzes on history-taking skills.
<ul><li>E) Students should be able to demonstrate different Tests for Equilibrium.</li><li>F) The students must be assessed based on their anatomical knowledge, clinical findings, and understanding of the underlying pathology and its management.</li></ul>
understanding of the underlying pathology and its management.

# Topic 55 Agantuja Shalya in Karna (LH :0 NLHT: 1 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO5, CO7	Present a case with Agantuja Shalya in Karna (Foreign Body in Ear) and its management.	AFT- RES	DK	SH	PBL,DI S,CD,D- M,TBL	DOPS,P-E XAM,P-CA SE,DOPS,P- PRF	F&S	III	-	NLHP55.1
CO2, CO5	Describe Types, Clinical features and method of removal of Agantuja Shalya (Foreign Body) in Ear.	CC	DK	КН	TUT,L &PPT, PT,L_V C,TBL	P-CASE,C L-PR	F&S	III	-	NLHT55.1

Non Lecture	Hour Theory							
S.No	Name of Activity	Description of Theory Activity						
NLHT 55.1	Techniques for removal of Agantuja Shalya (Foreign Body) from Ear	Foreign Body in Ear (60 mins) Teacher should teach students different types of Foreign Bodies in ear. (10 mins) Teacher can show various Videos related to various techniques related to the removal of Foreign Bodies (10 mins) Teacher should demonstrate proper technique of removal of Foreign Body to students. (15 mins) Students will be divided into four groups and different foreign bodies like hygroscopic, non- hygroscopic, living and non-living will be allotted to them. Students will be given 5 minutes to prepa and will be directed to present their findings in front of the entire class (5 minutes for each group) Assessment of students will be done on presentation.						
Non Lecture	Hour Practical							
S.No	Name of Practical	Description of Practical Activity						
NLHP 55.1	Case discussion on Agantuja Shalya in Karna (Foreign Body in Ear).	<ul> <li>A)Teacher should present a clinical case of Agantuja Shalya in Karna (Foreign Body in Ear). and have students work in groups to gather history, discuss differential diagnoses, and plan management Teacher should have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions. Student should be able to elicit differences between living/non-living, Hygroscopic/ Non Hygroscopic foreign bodies and ways to deal with them.</li> <li>OR</li> <li>B) Teacher can utilize advanced simulation technology to create realistic patient scenarios. Helping them practice history-taking and clinical reasoning skills.</li> <li>C) Teacher can break students into small groups for more focused practice and individualized feedback.</li> <li>D) Teacher should walk students through the removal procedure step-by-step, explaining the purpose and technique of each step.</li> </ul>						

			E)Teac manag F) Stu	cher shoul ging patier dents can	d teach stu at recovery be assessed	idents abo 1 by DOP	ut post-ope S.	rative care, inc	cluding mo	onitorinț	g for com	plications and
Topic :	56 Nasa	rsha (LH :1 NLHT: 1 NLHP: 2)					-					
A3		<b>B3</b>		C3	D3	E3	F3	G3	H3	<b>I</b> 3	К3	L3
CO2, CO3, CO5	Describe types, etiology, clinical features, differential diagnosis, investigations, and medical treatment of Nasarsha (Nasal Polyps).		CC	МК	KH	TUT,BL ,L&PPT	T-OBT,VV -Viva,CL- PR,QZ	F&S	III	-	LH	
CO5	Expoun indicati steps, p brief)	d surgical treatment of Nasal Polyps. (FESS surgery ons, contraindications, type of anesthesia, major sur ost-operative care, complications and their manager	y- gical nent in	CC	DK	КН	L_VC, ML	CHK,VV- Viva,QZ	F&S	III	-	NLHT56.1
CO3, CO4, CO7	Present avarodh	an appropriate history in a patient presenting with N a.	Nasa-	AFT- RES	МК	КН	CD,PBL ,RP	Mini-CEX, P-VIVA,P- EXAM,OS PE,OSCE	F&S	III	-	NLHP56.1
Non Lo	ecture H	our Theory										
S.No		Name of Activity	Descr	iption of	Theory A	Activity						
NLHT :	56.1	Surgical treatment of Nasarsha (Nasal Polyps).	<ul> <li>yps). The teacher may-</li> <li>A) Use anatomical models, diagrams, and 3D animations to illustrate surgical procedur</li> <li>OR</li> <li>A) Show recorded surgical procedures to give students a realistic view of the process. H moments to explain important steps. Explain each step thoroughly, including the ration action. (35 min.)</li> <li>Provide students with procedural checklists to help them remember the steps and ensur</li> </ul>					rocedures ocess. Pau e rationale d ensure 1	. (35 min.) use at key e behind each nothing is			

	missed (05 min)
	B) Encourage students to ask questions and discuss the procedure as it unfolds. (05 min.)
	C) The teacher should Include scenarios where complications arise and teach students how to manage
	these situations.
	D) Stress the importance of patient safety, aseptic techniques, and surgical hygiene.
	E) Discuss ethical issues related to surgery, including informed consent, patient confidentiality, and
	decision-making.
	F) Describe when to seek an expert opinion, and when to refer for surgery.
	G) Provide access to reputable online resources and journals for further reading and research.
	H) Use quizzes, and open-book texts to evaluate students' understanding and skills. (10 min.)
	I) Provide constructive feedback on their performance, highlighting areas of improvement and
	excellence. (03-05 min.)

### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 56.1	Evaluation of Nasa-avarodha. Evaluation of Nasarsha (Nasal polyp).	<ul> <li>Evaluation of Nasa-avarodha-( 50 min.)</li> <li>A)Present a clinical case of nasal obstruction and have students work in groups to gather history, discuss differential diagnoses, and plan management.</li> <li>Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.</li> <li>Have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions.</li> <li>OR</li> <li>B) Use standardized patients( actors or fellow students)to role-play patients with nasal obstruction.</li> <li>C) Break students into small groups for more focused practice and individualized feedback.</li> <li>D) Recommend apps like Geekymedics that offer virtual practice and quizzes on history-taking skills.</li> <li>E) Have students keep reflective journals where they document their experiences, challenges, and learning points from taking patient histories.</li> <li>F) To assess the performance, use Mini-CEX (Mini Clinical Evaluation Excercise).</li> </ul>

- Observe a Student's interaction with a patient in a real-world clinical setting.
- Rate the performance in areas like history taking, physical examination, and counseling skills.
- The student receives immediate feedback from the teacher.

#### OR

Conduct OSCEs where students rotate through stations to practice history taking and receive immediate feedback. (10 min.)

#### OR

G)Encourage students to assess their own performance and identify areas for improvement.

Surgical and/or para surgical procedures for Nasarsha ( 50 min.):-

1. Introduction (5 minutes)- Explain the importance of understanding nasal polyp surgery and its impact on patient care.

2. Overview of Nasal Polyps (10 minutes) - Definition and Symptoms, Diagnosis - the diagnostic tools and methods used to identify nasal polyps.

3. Surgical Procedure (20 minutes)

- Preoperative Preparation (5 minutes): Describe the steps taken before surgery, including patient preparation and anesthesia.

- Surgical Technique (10 minutes): Explain the surgical technique, including the use of endoscopes, micro-debriders, and other instruments.

- Postoperative Care (5 minutes): Discuss the immediate postoperative care, including monitoring and managing potential complications.

4. Interactive Demonstration (10 minutes)

- Live Demonstration or Video (5 minutes): Show a live demonstration or a video of the surgical procedure.

- Hands-On Practice (5 minutes): Allow students to practice on models or simulators, if available.

5. Q&A and Discussion (5 minutes)

- Q&A Session (3 minutes): Allow students to ask questions and clarify any doubts.

- Discussion (2 minutes): Summarize key points and encourage students to share their thoughts and
experiences.
6. To assess, use OSCE covering steps of procedures, focusing on evaluating student's understanding
of anatomy, surgical techniques, decision-making, patient management, and appropriate response to
complications.

## Topic 57 Nasagata Raktasrava (LH :1 NLHT: 1 NLHP: 2)

A3	B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO2, CO5	<ul> <li>CO2, Enlist the causes of Nasagata Raraktasrava.Describe Hetus,</li> <li>CO5 Samprapti, Lakshanas and Chikitsa of Urdhwaga (Nasagata)</li> <li>Raktapitta.Describe Etiology, Types, Clinical Features,</li> <li>Differential Diagnosis, and Investigations of Epistaxis.</li> </ul>		CC	МК	КН	L&PPT	T-OBT,S-L AQ,VV- Viva	F&S	III	-	LH
CO5 Describe Management of Nasagata Raktasrava (Epistaxis).		CC	МК	КН	L_VC,D- M,RP	P-MOD,V V-Viva,T- OBT	F&S	III	-	NLHT57.1	
CO3, CO5,Present cases with Nasagata Raktasrava.Summarise the steps involved in the Atyayika Chikitsa in Nasagata Raktasrava (Anterior epistaxis).		AFT RES	MK	SH	D-M,D- BED,PB L	360D,P-VI VA,OSCE	F&S	III	-	NLHP57.1	
Non Lo	ecture Hou	ur Theory									
S.No	N	Name of Activity	Description	of Theor	y Activity						
NLHT :	57.1 M	/anagement of Nasagata Raktasrava (Epistaxis).	The student will learn management, including basic first aid, through interaction and role play. (30 min.) (A)The students will be divided into four groups. Each group will be given a topic as - a) Ayurvediya management,b) Basic first aid. c) Anterior nasal packing. d) Posterior nasal packing. Assign roles to students, such as the patient, the primary care provider, a nurse, and an observer. Rotate roles to ensure each student gets to practice different aspects of management.								

	Give clear instructions and guidelines for the role-play scenarios, including the symptoms and history
	of the patient with epistaxis.
	Role Play Scenarios:
	Scenario 1: Initial Assessment and First Aid
	Scenario 2: Persistent Bleeding and Nasal Packing
	Scenario 3: Post-Procedure Care and Follow-Up
	Encourage students to act out their roles as realistically as possible, using appropriate medical
	terminology and patient interactions.
	Allow students to ask questions and discuss their actions during the role play.
	Group Discussion- (20 min.)After each scenario, conduct a debriefing session where students can
	discuss their experiences, challenges, and what they learned.
	Provide constructive feedback on their performance.
	Encourage students to reflect on their own performance and identify areas for improvement.
	(B) Use video demonstrations of epistaxis management to complement role-playing and provide visual
	aids for students.
	(C) Use open book test to assess. OR ask students to demonstrate on model to evaluate the
	understanding of students in the following manner:-
	• Observe a Student's interaction with a virtual patient in the form of model.
	• Rate the performance in areas like physical examination, counseling skills, and
	procedurar skins.
	• The student receives immediate feedback from the teacher.
Non Lecture Hour Pract	ical

S.No	Name of Practical	Description of Practical Activity
NLHP 57.1	Evaluation of Nasagata raktasrava (Anterior epistaxis).	A)Present a clinical case of Nasagata Raktasrava and have students work in groups to gather history, discuss differential diagnoses, and plan management. Have students shadow experienced clinicians during patient history taking to observe best practices

and techniques and facilitate post-shadowing discussions.
Allow them to observe the correct technique of emergency management of anterior epistaxis including
anterior nasal packing.
Allow students to practice the procedure on simulation models or cadavers under supervision.
Provide access to instructional videos for further learning.
Understand the referral indications and procedure.
OR
B) Utilise advanced simulation technology to create realistic patient scenarios.
Engage students with virtual patient software that simulates real-life scenarios, helping them practice
history-taking and clinical reasoning skills.
C) Break students into small groups for more focused practice and individualized feedback.
D) Recommend apps like Geekymedics and Wikimeds that offer virtual practice and quizzes on
history-taking skills.
E) Have students keep reflective journals where they document their experiences, challenges, and
learning points from taking patient histories.
F) Conduct OSCEs where students rotate through stations to practice history taking and receive
immediate feedback.
• OSCE stations to have signs of General examination, local examination, psychomotor skills,
students' performance in a reliable and consistent way
students performance in a renable and consistent way.
OB
G) 360-degree assessment can be used for evaluating, it includes responses from assessor and peers,
obtained through standard checklists, throughout the process of case taking. The format can be
modified from:- https://abpn.org/wp-content/uploads/2024/04/ABPN-360-Degree-Evaluation-
Feedback-Form.pdf

Topic :	Fopic 58 Nasarbuda (LH :1 NLHT: 1 NLHP: 2)											
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	К3	L3
CO2, CO5	<ul> <li>2, Describe Lakshanas and Chikitsa of Nasarbuda.Describe</li> <li>5 Etilogical classification and Clinical Features of Tumors of the nose and paranasal sinuses. (Rhinophyma and Squamous cell Ca)</li> </ul>		CC	DK	КН	L,L&PP T	VV- Viva,QZ ,C L-PR,T- OBT	F&S	III	-	LH	
CO2, CO5	<ul> <li>2, Describe investigations and treatment for Nasarbuda- Tumors of nose and paranasal sinuses. (Rhinophyma and Squamous cell Ca).</li> </ul>		rs of ll	CC	DK	КН	FC,DIS, PER	M-POS,CL- PR	F&S	III	-	NLHT58.1
CO3, CO4, CO7	<ul> <li>CO3, Present an appropriate history in a patient presenting with</li> <li>CO4, Gandhajnana Vikruthi (Anosmia, Hyposmia, Parosmia).</li> <li>CO7</li> </ul>			AFT- RES	МК	КН	RP,D-B ED,PBL	OSCE,VV- Viva,Mini- CEX	F&S	III	-	NLHP58.1
Non Lo	ecture H	lour Theory				•	•					
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT :	58.1	Nasarbuda- Tumors of nose and paranasal sinuses.	<ul> <li>(A) Teacher will form four study groups to discuss and share information, each for investigations and treatment of Rhinophyma and investigations and treatment of Squamous cell Ca.</li> <li>Encourage students to discuss with peers, subdivide subtopics amongst themselves and split time between different activities like searching for articles, reading and taking notes, review each other's notes and findings to ensure accuracy and comprehensiveness.</li> <li>Let them present in classrrom. (10- 12 min.for each group)</li> <li>Make them specify indications and procedure for referrral.</li> <li>OR</li> <li>(A)Use the method of Flipped Classroom. The students will be given a link to a PowerPoint presentation on Nasarbuda. The presentation on the topic should be prepared and uploaded on a website created for the students or free cross -platform messaging services like Whatsapp or Telegram or google clasroom. They should be given 1 week time before the scheduled FCR for this topic.</li> </ul>									

		At the end of session, summarize what they have learned and plan what to do next. (10 min.) (B) Evaluate the student's performance during class presentation or asking them to make posters. During class discussions, pay attention to student participation, level of curiosity, and willingness to ask questions; Encourage students to reflect on their learning process and identify areas where they need further support; Review and re-solve the problems they get wrong. It is preferable to provide a self-evaluation quiz.
Non Lecture l	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 58.1	Evaluation of Gandhajnana Vikruthi (Anosmia, Hyposmia, Parosmia).	<ul> <li>A)Present a clinical case of Gandhajnana Vikruthi and have students work in groups (4 to 6 students in each group) to gather history, discuss differential diagnoses, and plan management. Encourage students to teach each other history-taking techniques, which reinforces their learning and builds confidence.</li> <li>Have students shadow experienced clinicians during patient history taking to observe best practices and techniques and facilitate post-shadowing discussions.</li> <li>OR</li> <li>B) Use standardized patients( actors or fellow students )to role-play patients with Gandhajnana Vikruthi.</li> <li>C) Break students into small groups for more focused practice and individualized feedback.</li> <li>D) Recommend apps like Geekymedics and Wikimeds that offer virtual practice and quizzes on history-taking skills.</li> <li>E) Have students keep reflective journals where they document their experiences, challenges, and learning points from taking patient histories.</li> <li>F) Conduct OSCEs where students rotate through stations to practice history taking and receive immediate feedback.</li> <li>• OSCE stations to have signs of General examination, local examination, psychomotor skills, communication skills and history taking of a particular examination. The assessor should use</li> </ul>

			checklis	ts to evalu	ate studen	ts' performa	ance in a reliab	ole and con	nsistent	way.	
			• Communication skills to be assessed by Kalamazoo essential elements communication checklist.								
		OR F) Us	se Mini-CE	X.							
		G) Ei	o o ncourage st	Observe a Rate the pe counseling The studen udents to a	Student's erformanc skills. t receives ssess thei	interaction e in areas li immediate r own perfo	with a patient ke history taki feedback fron ormance and id	in a real-v ng, physic n the teach entify are	world cli cal exam ner. as for in	inical setti nination, a	ng. nd nt.
Topic	259 Agantuja Shalya in Nasa (LH :1 N	LHT: 0 NLHP: 2)									
A3	B3		C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO2, CO5	Describe aetiology and types ,Clinical Feat locations ,Complications, Radiological invo Treatment for Foreign Body in nose.	ures, Common estigations and	CC	МК	КН	L,L&PP T	P-POS,QZ ,T-OBT	F&S	III	-	LH
CO3, CO5, Body) in Nasa (nose), and their Clinical Features, Common locations and complications, investigations, and treatment.CCMKKHTUT,X- Ray,CDP-EXAM,P P-Practical, P-VIVAF&SIII					-	NLHP59.1					
Non L	Lecture Hour Theory										

S.No	Name of Activity	Description of Theory Activity
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 59.1	Case discussion on Agantuja Shalya in Nasa(nose).	<ul> <li>To examine the foreign bodies in the nose and their removal, in Yogya Lab or in the OPD under supervision.</li> <li>(A)Present a real-life clinical scenario of the nasal foreign body to the students; or use a model in Yogya lab.</li> <li>Students discuss the problem in small groups, identifying what they know and what they need to learn. Encourage students to identify Foreign bodies in X-rays.</li> <li>Walk students through the removal procedure step-by-step, explaining the purpose and technique. Foster an environment where students feel comfortable asking questions and seeking clarification. Teach students about post-procedure care, including monitoring for complications and managing patient recovery.</li> <li>Record procedure(with patient consent) for educational purposes. Reviewing these videos can help students learn and improve.</li> <li>Provide continuous feedback to students on their performance, encouraging reflection and improvement.</li> <li>OR</li> <li>B) Use a low-tech simulator model like a cardboard box or SOSO-NOSO simulator.</li> <li>Conduct a debriefing session to discuss challenges and areas for improvement.</li> <li>C)Use quizzers or 360 d direct observations to assess.</li> </ul>
Topic 60 Na	sa-abhighata, Nasasandhana (LH :1 NLH	(T: 0 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO2, CO3, CO5	Narrate Etiology, Types, Clinical Features, Complications, Investigations, and Treatment of Nasal Trauma including Fracture Nasal Bone.	САР	МК	КН	L,L&PP T	P-VIVA,T- CS	F&S	III	H-SH	LH

CO5, CO6	Summarise the steps involved in Nasasandhana Vidhi a explained by Sushruta.	S	CC	МК	КН	SIM,TU T,D-M	CHK,P-EX AM,M-CH T,DOPS,D OPS	F&S	III	-	NLHP60.1		
Non Le	ecture Hour Theory												
S.No Name of Activity D			Description of Theory Activity										
Non Le	ecture Hour Practical												
S.No	Name of Practical	Desc	ription of	Practica	l Activity								
	60.1 Details in Nasasandhana Vidni.	A) Of To do Defin Break B) Re C) En D) To of and comp	the Nasas of the Nasas e clear obj down the cord video nphasize e assess, us atomy, surg lications.	Nasasandf andhana V ectives of surgical p os and play thical and e OSCE c gical techn	ana Vidhi Vidhi on m the proced rocedure in t to revis profession overing ste iques, dec	on models odels use si ure. nto manage e. al consider eps of proce ision-makin	or patients. imple material able smaller st ations. edures, focusin ng, patient mar	s like Foar teps. g on evalu nagement,	n, Rubb ating st and app	per or silio tudent's u propriate	con models. nderstanding response to		
Topic (	61 Talugata Roga (LH :2 NLHT: 1 NLHP: 0)		1	r	1	1	1			1			
A3	B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3		
<ul> <li>CO2, Describe the Aetiology, Clinical features, and treatment of</li> <li>CO5 Galashundika, Tundikeri, Kacchapa (Tumours of the palate), Uvulitis, and Gilayushotha (Tonsillitis).</li> </ul>			CC	DK	КН	L&PPT ,L	CL-PR,QZ ,COM,M- POS	F&S	III	-	LH		
CO2, CO5	O2,Describe the Clinical features of Talu-Arbuda.Describe theCO5Clinical Features and Treatment of Talushosha and Talupaaka.			DK	КН	DIS,L& PPT ,PL	QZ ,M- POS,PRN	F&S	III	-	NLHT61.1		

Non Lecture I	Iour Theory	
S.No	Name of Activity	Description of Theory Activity
NLHT 61.1	Discussion on Talu-Arbuda, Talushosha, Talupaka.	1. Pre-Class Activity (Preparation) – (Before the Session)
		<ul> <li>Students are provided with reading materials or video links on: <ul> <li>Arbuda (Tumors) – Types, characteristics, clinical features.</li> <li>Talushosha &amp; Talupaaka – Definitions, pathophysiology, symptoms, Ayurvedic and contemporary management.</li> </ul> </li> <li>Students review the materials at home and prepare notes.</li> <li>In-Class Activity – 55 Minutes <ul> <li>A) Group-Based Learning (20 min)</li> <li>Divide students into 3 groups to discuss:</li> </ul> </li> </ul>
		<ol> <li>Arbuda – Clinical features, types (Vataja, Pittaja, Kaphaja, Mamsaja, etc.), differential diagnosis.</li> <li>Talushosha – Symptoms, causes, risk factors, correlation with modern conditions (Palatal atrophy, Sjögren's syndrome).</li> <li>Talupaaka – Clinical features, inflammation process, management strategies.</li> <li>Each group presents their findings (5 min per group).</li> <li>Teacher moderates, corrects misconceptions, and highlights key points.</li> <li>B) Case-Based Discussion (15 min)</li> </ol>

				<ul> <li>Teacher presents clinical case scenarios:</li> <li>A patient with a hard, immobile swelling (Arbuda) – Students analyze possible diagnosis &amp; discuss management.</li> <li>A patient with palatal dryness &amp; ulceration (Talushosha &amp; Talupaaka) – Students suggest Ayurvedic and contemporary treatment approaches.</li> </ul>								
			C) Co	C) Concept Reinforcement (10 min)								
				<ul> <li>Comparative discussion of Ayurveda and modern medical perspectives.</li> <li>Quick Quiz – Rapid-fire Q&amp;A to assess understanding.</li> </ul>								
	3. Post-Class Activity (Journal Entry & Reflection) – (After the Session)											
				<ul> <li>Students document key takeaways in their journal/clinical record, including: <ul> <li>Clinical features &amp; treatment approaches discussed.</li> <li>Case discussions &amp; differential diagnoses.</li> <li>Personal reflections on how Ayurveda can address these conditions.</li> </ul> </li> <li>Faculty reviews and provides feedback.</li> </ul>								
Non Le	ecture H	our Practical										
S.No		Name of Practical	Descr	Description of Practical Activity								
Topic (	62 Kant	haroga (LH :4 NLHT: 2 NLHP: 6)			1	i	1					
A3	A3 B3		C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3	
<ul> <li>CO2, Define Kantharoga and explain the Etiology, Clinical features and</li> <li>treatment of Vataja Rohini, Pittaja Rohini, Kaphaja Rohini,</li> <li>Sannipataja Rohini, and Raktaja Rohini.</li> </ul>		ical features and ja Rohini,	CC	DK	КН	L&PPT ,L	OSCE,VV- Viva,S- LAQ	F&S	III	-	LH	
CO2,	O2, Describe Etiology, Clinical Features and Treatments of			CC	DK	KH	L&PPT	OSCE,PRN	F&S	III	-	LH

CO5	Ekavrunc Mamsata	la, Vrunda, Gilayu, Galavidradhi (peritonsillar absc na and Vidari.	cess),				,L					
CO2, CO3, CO5, CO7	Present tl (Odynop) Dourgand	he case of a patient presenting with Geelana-Shoola hagia), Geelana-kashta (Dysphagia), and Mukha dhya (Halitosis).	l	AFT- RES	DK	SH	D,L&G D,CBL	P-EXAM,P -VIVA,CB A,OSCE	F&S	III	-	NLHP62.1
CO2, CO3, CO5, CO7	Present c Galavidra	ases of Ekavrunda, Vrunda (Pharyngitis), Gilayu, adhi, Rohini and Kanthashalooka.		AFT- RES	DK	SH	TUT,PB L,D- BED	OSCE,P- ID,CL-PR, C-VC,P- CASE	F&S	III	-	NLHP62.2
CO2, CO3, CO5, CO7	Present a Swarabhe	n appropriate history in patients presenting with eda (Hoarseness of voice) and Kantha Koojana (Str	idor).	AFT- RES	DK	SH	D-BED, TBL,CB L,TUT, CD	P-RP,P-EX AM,Mini- CEX,OSCE	F&S	III	-	NLHP62.3
CO2, CO3, CO5	Explain Parotitis.			CC	NK	KH	PBL,L& GD	CL-PR,QZ ,VV-Viva	F&S	III	-	NLHT62.1
CO2, CO5	, Explain the etiology, clinical features, and treatment of Galavidradhi. (Peritonsillar abscess, Paratonsillar abscess, Para and Retropharyngeal abscess)			CC	DK	KH	L&GD, FC	P- EXAM,QZ ,PRN	F	III	-	NLHT62.2
Non L	ecture Ho	our Theory										
S.No Name of Activity Desc		Descr	ription of	Theory A	ctivity							
NLHT 62.1     Etiology, clinical features and treatment of Parotitis.		1. Intr	oduction (	5 min)								
		•	<ul> <li>Briefly i</li> </ul>	ntroduce P	arotitis as	inflammat	ion of the paro	tid gland a	and its c	lassificati	on	

		<ol> <li>Case-Based Group Discussion (25 min)</li> <li>Divide students into 3 groups, each discussing a different clinical presentation of parotitis:</li> <li>Each group presents their discussion (3-5 min each), while faculty guides clinical reasoning.</li> <li>Concept Mapping Activity (15 min)</li> </ol>
		<ul> <li>Students create a visual concept map linking causes, symptoms, diagnosis, and management of parotitis.</li> <li>Faculty adds Ayurvedic correlations,</li> </ul>
		4. Summary & Documentation (10 min)
		• Summarize key learning points and integrate Ayurvedic vs. modern approaches.
		Students document findings in a clinical journal, including:
		<ul> <li>Differential diagnosis</li> <li>Modern &amp; Ayurvedic treatment plans</li> <li>Preventive aspects (oral hygiene, hydration, immunity-boosting drugs like Guduchi, Yashtimadhu, etc.)</li> </ul>
NLHT 62.2	Group Discussion on Galavidradhi.	A) Pre-Class Activities (Self-Learning Phase) – 1 Week Before
		<ul> <li>Provide Learning Materials:</li> <li>Share a PowerPoint presentation on Galavidradhi (Google Classroom/WhatsApp/Telegram).</li> <li>Recommend textbook readings for deeper understanding.</li> </ul>

• Pr	• Encourage self-study before the session. reparation for Discussion:
	<ul> <li>Students form small groups and discuss the topic among themselves.</li> <li>Clarification of doubts via messaging platforms before the class.</li> </ul>
B) In-Clas 1. Introduc	ss Activities (55 Minutes Flipped Classroom Session) ction & Quiz (10 min)
• Qi • Co	uick recap of Galavidradhi (Peritonsillar, Paratonsillar, Para- & Retropharyngeal Abscess). onduct a short quiz (MCQs or case-based) to assess prior learning.
2. Student Each grou	Presentations (45 min) p presents for 15 minutes:
• Gi • Gi • Gi	roup 1: Peritonsillar abscess (15 min) roup 2: Paratonsillar abscess (15 min) roup 3: Para- & Retropharyngeal abscess (15 min)
During ea	ch presentation:
• Er • Fr	acilitate Q&A to clarify concepts.
C) Assess	ment & Feedback
• Ev	valuate students' performance based on:

		<ul> <li>Presentation skills (clarity, organization, engagement).</li> <li>Depth of knowledge (clinical features, diagnosis, treatment).</li> <li>Response to Q&amp;A and quiz results.</li> <li>Provide constructive feedback for improvement.</li> </ul>
		•
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 62.1	Cases of Geelana-Shoola (Odynophagia), Geelana- Kashta (Dysphagia), and Mukha Dourgandhya (Hallitosis).	1. Introduction (5 min)
		<ul> <li>Brief explanation of the conditions: <ul> <li>Geelana-Shoola (Odynophagia) – Pain while swallowing.</li> <li>Geelana-Kashta (Dysphagia) – Difficulty in swallowing.</li> <li>Mukha Dourgandhya (Halitosis) – Bad breath, its causes &amp; impact.</li> </ul> </li> <li>Clinical relevance – Correlation with modern conditions (Tonsillitis, GERD, Oral infections, etc.).</li> </ul>
		2. Case-Based Group Activity (30 min)
		<ul> <li>Divide students into 3 groups, each assigned one condition.</li> <li>Each group is given a case scenario to discuss and analyze: <ul> <li>Case 1 (Odynophagia): A patient with throat pain while swallowing, fever, and inflamed tonsils.</li> <li>Case 2 (Dysphagia): A patient with difficulty swallowing, weight loss, and long-term acid reflux history.</li> <li>Case 3 (Halitosis): A patient with persistent bad breath despite regular oral hygiene.</li> </ul> </li> <li>Tasks for each group: <ul> <li>Identify probable causes (Ayurvedic &amp; modern perspectives).</li> </ul> </li> </ul>

		<ul><li>2. Discuss pathophysiology and Samprapti.</li><li>3. Suggest diagnostic approaches and treatment options (Ayurvedic &amp; contemporary).</li></ul>
		3. Practical Demonstration (15 min)
		<ul> <li>Examination techniques: <ul> <li>Inspection of oral cavity &amp; throat using a torch and tongue depressor.</li> <li>Palpation of lymph nodes for signs of infection.</li> <li>Assessment of swallowing difficulty using simple bedside tests.</li> </ul> </li> <li>Discussion on treatment strategies: <ul> <li>Ayurvedic Kavala, Gandusha, and Pratisarana.</li> <li>Importance of dietary &amp; lifestyle modifications.</li> <li>Herbal formulations &amp; modern pharmacology.</li> </ul> </li> <li>4. Recording in Clinical Journal (5 min)</li> </ul>
		<ul> <li>Each student documents key learnings in their clinical record, including: <ul> <li>Summary of cases discussed.</li> <li>Examination findings &amp; differential diagnosis.</li> <li>Ayurvedic &amp; modern treatment approaches.</li> <li>Reflections on clinical relevance and learning experience.</li> </ul> </li> <li>Faculty reviews &amp; provides feedback.</li> </ul>
NLHP 62.2	Case-based discussion on Kantharoga.	1. Introduction (5 min)
		<ul> <li>Brief overview of the conditions:         <ul> <li>Ekavrunda &amp; Vrunda (Pharyngitis) – Inflammation of the pharynx, causes, and symptoms.</li> <li>Gilayu – Swelling of the tonsils, correlation with tonsillitis.</li> </ul> </li> </ul>

<ul> <li>Galavidradhi – Deep-seated abscess in the throat region, correlation with retropharyngeal abscess.</li> </ul>
• Rohini – Ulcerative lesions in the throat, possible correlation with diphtheria or severe aphthous ulcers.
<ul> <li>Kanthashalooka – Foreign body sensation in the throat, possible correlations with GERD or globus pharyngeus.</li> </ul>
2. Case-Based Group Activity (30 min)
• Divide students into 3 groups, each assigned two conditions.
<ul> <li>Provide clinical case scenarios for discussion:</li> <li>Case 1 (Pharyngitis &amp; Gilayu): A patient presents with sore throat, fever, and difficulty swallowing.</li> </ul>
• Case 2 (Galavidradhi & Rohini): A patient with throat swelling, pus discharge, and severe difficulty in speaking/swallowing.
<ul> <li>Case 3 (Kanthashalooka &amp; Differential Diagnoses): A patient complains of a persistent foreign body sensation in the throat.</li> </ul>
• Tasks for each group: 1 Discuss possible etiologies (Avurvedic & modern)
2. Identify pathophysiology & Samprapti.
3. Suggest examination methods and treatment approaches (Ayurvedic & contemporary).
3. Clinical Examination & Demonstration (15 min)
Practical demonstration of examination techniques:
<ul> <li>Inspection of the throat, tonsils, and oral cavity using a torch and tongue depressor.</li> <li>Palpation of cervical lymph nodes for signs of infection</li> </ul>
<ul> <li>Demonstration of simple bedside swallowing tests.</li> </ul>
• Discussion on treatment approaches:

		<ul> <li>Ayurvedic Kavala, Gandusha, Pratisarana, and Lepa.</li> <li>Importance of diet &amp; lifestyle modifications.</li> <li>Use of Ayurvedic and modern medications for infection and inflammation.</li> </ul>
		4. Recording in Clinical Journal (5 min)
		<ul> <li>Students document the session in their clinical record, including: <ul> <li>Summary of cases discussed.</li> <li>Clinical features &amp; differential diagnosis.</li> <li>Examination findings &amp; practical learnings.</li> <li>Ayurvedic &amp; modern treatment approaches.</li> <li>Reflections on clinical relevance and observations.</li> </ul> </li> <li>Faculty reviews and provides feedback.</li> </ul>
NLHP 62.3	Case Discussion on Swarabheda and Kantha Koojana.	1. Introduction (5 min)
		<ul> <li>Brief overview of Swarabheda (Hoarseness) and Kantha Koojana (Stridor): <ul> <li>Swarabheda: Altered voice quality due to laryngeal pathology (e.g., laryngitis, vocal cord nodules, neurological causes).</li> <li>Kantha Koojana (Stridor): High-pitched breathing sound due to airway obstruction (e.g., laryngeal edema, foreign body, tumors).</li> </ul> </li> <li>Importance of history-taking in differentiating benign vs. serious conditions.</li> </ul>
		Students are divided into pairs (Doctor & Patient) and given case scenarios:
		• Case 1: Hoarseness due to Chronic Laryngitis
		• Patient: A teacher with a history of voice strain, dry cough, and mild throat pain for 2

• (	<ul> <li>weeks.</li> <li>Doctor: Ask relevant questions about duration, voice usage, and associated symptom Case 2: Hoarseness due to Vocal Cord Nodules</li> </ul>
• (	<ul> <li>Patient: A singer with progressive hoarseness over months.</li> <li>Doctor: Ask about professional voice use, lifestyle factors, and past medical history.</li> <li>Case 3: Acute Stridor Due to Laryngeal Edema</li> </ul>
• (	<ul> <li>Patient: A child with sudden breathing difficulty and noisy breathing.</li> <li>Doctor: Ask about recent infections, allergies, or possible foreign body aspiration.</li> <li>Case 4: Chronic Stridor Due to Laryngeal Tumor</li> </ul>
	<ul> <li>Patient: A middle-aged smoker with progressive stridor and weight loss.</li> <li>Doctor: Focus on risk factors, duration, and associated symptoms.</li> </ul>
Each pair 3. Group Faculty g	r performs history-taking in front of the class while others observe and provide feedback. Discussion & Analysis (20 min) guides students to identify key aspects of history-taking:
• ( • \	Dnset & duration (Acute vs. chronic)
• A • F • H • (	Voice changes (Hoarseness, breathy, strained) Associated symptoms (Cough, pain, dysphagia, fever, weight loss) Risk factors (Smoking, allergies, vocal strain) History of infections, trauma, or systemic diseases Comparison of Avuryedic and modern perspectives on causation and diagnosis.

<ul> <li>Chief complaints and history format.</li> <li>Differential diagnosis based on history clues.</li> </ul>
<ul> <li>Ayurvedic Samprapti of Swarabheda and Kantha Koojana.</li> </ul>
<ul> <li>Treatment approach – Ayurvedic &amp; contemporary.</li> </ul>
<ul> <li>Faculty reviews entries and gives constructive feedback.</li> </ul>

A3	B3	C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO5	<ul> <li>Describe the Use of the following drugs in Shiro Karna Nasa Mukha Roga:-</li> <li>Laxmivilasa Rasa</li> <li>Shirashuladi Vajra Rasa.</li> <li>Tribhuvanakirti Rasa.</li> <li>Guda Shunthi Nasyayoga.</li> <li>Rasa Manikya.</li> <li>Kshaara Taila</li> <li>Discuss Research publications on recently proven drugs used in Shiro Karna Nasa Mukha Roga.</li> </ul>	CC	DK	КН	L&PPT ,L,REC	P-EXAM, M-POS,VV -Viva,S- LAQ,COM	F&S	III	-	LH
CO5	Discuss Samanya Yogas used in Shiro Karna Nasa Mukha Roga.	CC	DK	КН	REC,L &GD,B L,PL	QZ ,P-VIV A,COM	F&S	III	-	NLHT63.1
CO5, CO7	Discuss prescription of Samanya Yogas used in Shiro Karna Nasa Mukha Roga.	CC	DK	КН	DIS	P-EXAM,P -CASE,SP, VV-Viva	F&S	III	V-RS,V- RS	NLHP63.1

S.No	Name of Activity	Description of Theory Activity
NLHT 63.1	Discussion on Samanya Yogas used in Shiro Karna Nasa Mukha Roga.	A) Pre-Class Activities (Self-Learning & Group Collaboration)
		• Sloka-Based Study:
		<ul> <li>Students will be provided with relevant slokas from classical texts covering: <ul> <li>Ingredients</li> <li>Pharmacological actions</li> <li>Indications and contraindications</li> <li>Each group will analyze one or more slokas related to their assigned yoga.</li> </ul> </li> <li>Familiarization with Easily Available Ingredients: <ul> <li>Students will identify and collect samples of commonly available ingredients (e.g., Haritaki, Bibhitaki, Amalaki, Bilwa, Khadira, Vyosha, Tila Taila, etc.).</li> <li>They will observe, smell, and describe the characteristics of these ingredients.</li> </ul> </li> </ul>
		<ul> <li>Group Discussion &amp; Compilation:</li> <li>Students work in groups (5–8 members) to: <ul> <li>Translate and interpret the slokas.</li> <li>Extract therapeutic relevance in Shalakyatantra.</li> <li>Compare with contemporary formulations if applicable.</li> <li>Findings are compiled in notebooks or digital documents for in-class discussion.</li> </ul> </li> </ul>
		<ul><li>B) In-Class Activities (55 Minutes - Active Learning Session)</li><li>1. Group Presentation of Yogas (15 min)</li></ul>
		<ul> <li>Each group presents the sloka meaning, ingredient actions, and clinical relevance.</li> <li>Faculty moderates and provides additional insights.</li> </ul>

2. Ingredient Demonstration & Discussion (10 min)
<ul><li>Groups will display and describe the ingredients they collected.</li><li>Faculty will highlight key identification features and therapeutic properties.</li></ul>
3. Clinical Case Discussion (15 min)
<ul><li>Present hypothetical or real cases where these yogas are applicable.</li><li>Groups discuss dosage, administration method, and expected outcomes.</li></ul>
4. Critical Analysis & Debate (10 min)
<ul><li>Debate on choosing specific yogas for similar conditions.</li><li>Comparison with other Ayurvedic or modern interventions.</li></ul>
5. Summary & Takeaways (5 min)
• Teacher consolidates key points and assigns follow-up reading.
C) Evaluation of Student Compilation Assessment Criteria
<ol> <li>Interpretation Accuracy:         <ul> <li>Correct translation and explanation of slokas.</li> </ul> </li> <li>Clinical Correlation:         <ul> <li>Application of the yoga in Shalakyatantra.</li> </ul> </li> </ol>

		<ul> <li>3. Ingredient Familiarization:</li> <li>Proper identification and description of easily available ingredients.</li> <li>4. Completeness &amp; Organization: <ul> <li>Well-structured and comprehensive presentation.</li> </ul> </li> </ul>					
		<ul><li>5. Presentation &amp; Engagement:</li><li>Clarity in explaining concepts and interacting with peers.</li></ul>					
Non Lecture 1	Non Lecture Hour Practical						
S.No	Name of Practical	Description of Practical Activity					
NLHP 63.1	Common Yogas used in Shiro Karna Nasa Mukha Roga- their usage, indications, outcomes.	1. Ingredient Familiarization & Pharmacological Understanding (20 min)					
		<ul> <li>Discuss the key ingredients of each Yoga.</li> <li>Explain their mechanism of action in diseases of Shalakyatantra.</li> <li>Compare their formulations with contemporary pharmacology where relevant.</li> <li>Highlight any known pharmacological studies supporting their efficacy.</li> </ul> 2. Prescription Analysis & Clinical Application (15 min)					
		<ul> <li>Provide sample prescriptions containing these Yogas.</li> <li>Students analyze the prescriptions, identify the ingredients, and justify their therapeutic use.</li> <li>Discuss variations in dosage, anupana, administration route, and contraindications.</li> <li>Group Discussion &amp; Case-Based Learning (15 min)</li> </ul>					
		<ul> <li>Present real or hypothetical cases where these Yogas are used.</li> <li>Students discuss and justify their choice of Yoga for each case.</li> <li>Consider patient-specific factors (age, Dosha, severity, comorbidities) while selecting</li> </ul>					

formulations.
4. Summary & Q&A Session (5 min)
<ul> <li>Recap the key learnings of the session.</li> <li>Allow students to clarify doubts and ask relevant questions</li> </ul>

Activity No*	CO No	Activity details
1.1	CO1	Discussion on Netra Kriya Shareera in its Applied aspect.
1.2	C01,C02	Classification and Saama Nirama Lakshana of Netraroga.
2.1	CO5	Details of Aschyotana and Researches studies on Aschyotana, Seka, Pindi and Vidalaka.
2.2	CO5	Review of Research studies on Tarpana and Putapaka.
2.3	CO5	Discussion on Research studies on Anjana.
3.1	CO2,CO5	Indications and contraindications of Poorvakarma and Vamana, Virechana, Basti, Nasya, Raktamokshana In Netraroga.
4.1	CO5	Sanjnaharana in Netra (Anesthesia in Ophthalmology) -
6.1	CO2	Differential Diagnosis and causes of Epiphora and Hyperlacrimation.
8.1	CO3,CO5	Diagnostic Approaches to Eyelid Malposition: Entropion and Ectropion.
11.1	CO2,CO5	Discussion on Bhedana in Netraroga.
12.1	CO2,CO5	Procedure of Lekhana in Netraroga.
15.1	CO2,CO5	Comprehnsive discussion on Chhedana in Netraroga.
16.1	CO5	Discussion on Agnikarma and Ksharakarma in Netraroga.
19.1	CO3	Comprehension on uses of Dyes in Ophthalmology.
19.2	CO5	Discussion on Anti inflammatory agents and steroids used in ophthalmology.
19.3	CO5	Comprehension on Antibiotics ,antifungal agents, and antiviral agents used in ophthalmology.

### (\*Refer table 3 of similar activity number)
19.4	CO2,CO5	Presentation on Lubricating agents and Artificial tears.
20.1	CO5	Eye banking- its organization, relevance and purpose.
20.2	CO5	Discussion on Eye donation.
20.3	CO5	Discussion on Keratoplasty.
20.4	CO2,CO5	Objectives, Organizational structure and New initiatives under National programme for Control of Blindness and Visual Impairment.
21.1	CO2,CO5	Management of Conjunctivitis.
22.1	CO2,CO5	Nidana and Chikitsa of Pillaroga.
23.1	CO5	Surgical Procedures for Glaucoma.
24.1	CO5	Kaphaja Linganasha Shastrakarma.
26.1	CO2,CO5	Surgical management of Senile Cataract and current research studies on Kaphaja Linganasha/Timira (Cataract).
28.1	CO5	Mydriatics and Cycloplegic agents.
29.1	CO5	Netra Swasthyahitakara Dinacharya.
29.2	CO5	Netra Swasthyahitakara Aahara Evam Vihara.
29.3	CO5	Jeevanasatwa-kshayajanya Netraroga (Vitamin deficiency disorders)(Malnutritional Eye disorders).
30.1	CO2,CO5	Poster presentation on ICHD-3 Classification. Compiled presentation on Common Yogas used in Shiroroga.
31.1	CO1	Discussion on Shiraso Uttamangatwam.
31.2	CO3,CO5	Etiology, Clinical Features, and Management of Ardhabhedaka, Anantavata and

		Suryavarta.
32.1	CO1	Presentation on Anatomy of Ear.
32.2	C01,C02,C04,C05	Samanya Nidana,Samanya Samprapti,Sadhya-asadhyata of Karna Rogas.
34.1	CO3,CO5	Discussion on Nasya. Current research studies on Nasya and Dhumapana in diseases in Shalakyatantra.
35.1	CO2,CO5	Discussion on Puyarakta, Nasapaka, Nasashopha.
36.1	CO1	Elaboration on Mukha- Shareera.
39.1	CO2,CO5	Brainstorming session on National Oral Health Programme and Dantarakshavidhi.
41.1	CO1	Discussion on Shareer Kriya of Karna and Shravanendriya, and Physiology of Equilibrium.
42.1	CO7	Group discussion on National Programme for Prevention and Control of Deafness and Noise Pollution.
43.1	CO2,CO3,CO5	Presentation on Putikarna.
43.2	CO1,CO2,CO3,CO4, CO5	Surgical steps in Tympanoplasty.
45.1	CO2,CO5	Diagnosis and Treatment of Rhinitis.
45.2	CO2,CO5	Diagnosis and treatment of Atrophic and Allergic Rhinitis; Summary of Research studies on Allergic Rhinitis.
46.1	CO2,CO5	Diagnosis and treatment of Deepta, Putaka, Nasaparishosha, Bhramshathu, Nasanaha, Kshavathu.
47.1	CO5,CO6	Surgical management of Nasavamsha-kutilatwa (Deviated Nasal Septum).
48.1	CO2,CO5	Laxanas and Chikitsa of Sheetada, Upakusha, Dantaveshtaka and Dantavidradhi.

49.1	CO2,CO5	Clinical features and management of ankyloglossia and glossitis (Hairy tongue, Geographic tongue, Migratory Glossitis).
50.1	CO2,CO5	Explanation of Root Canal Treatment.
53.1	CO3,CO4,CO5	Purva-Pradhana-Pashchat Karma for Karnasandhana (Auroplasty).
54.1	CO1,CO2,CO3,CO4, CO5,CO6	Etiology, Pathology, Clinical Features and Management of Benign Paroxysmal Positional Vertigo (BPPV)
55.1	CO2,CO5	Techniques for removal of Agantuja Shalya (Foreign Body) from Ear
56.1	CO5	Surgical treatment of Nasarsha (Nasal Polyps).
57.1	CO5	Management of Nasagata Raktasrava (Epistaxis).
58.1	CO2,CO5	Nasarbuda- Tumors of nose and paranasal sinuses.
61.1	CO2,CO5	Discussion on Talu-Arbuda, Talushosha, Talupaka.
62.1	CO2,CO3,CO5	Etiology, clinical features and treatment of Parotitis.
62.2	CO2,CO5	Group Discussion on Galavidradhi.
63.1	CO5	Discussion on Samanya Yogas used in Shiro Karna Nasa Mukha Roga.

(*Refer table 1	3 of similar	activity	number)
\     \		2	/

Practica l No*	CO No	Practical Activity details
1.1	CO3,CO7	History taking in cases of Netraroga.
1.2	CO3,CO7	Structural Examination of Netra.
1.3	CO3,CO7	Functional examination of Netra.
2.1	CO6	<ul><li>A) Procedures of Seka and Pindi.</li><li>B) Method of taking Informed consent from patients.</li></ul>
2.2	CO6,CO7	Demonstration on Vidalaka and Aschyotana.
2.3	CO5	Discussion on Tarpana and Putapaka.
2.4	CO5,CO6,CO7	Procedure of Anjana.
5.1	CO3	Evaluation of Netra-sandhi and Dacryocystitis.
8.1	CO3	Examination of Periocular Structures - Bhru (Eyebrow), Pakshma (Eyelash), Pakshmavartmasandhi (Lid Margin), and Vartma (Eyelid).
8.2	CO5	Incision and curettage (I&C) in Chalazion surgery.
8.3	CO3,CO4,CO7	Cases of Eyelid Malposition: Pakshmakopa (Trichiasis, Entropion)and Ectropion; Trichiatic cilia removal by Epilation.
10.1	CO3,CO4,CO6,CO7	History Taking and Case Presentation: Assessment of Patients with Abnormal Eyelid Mobility.
10.2	CO3,CO4,CO6,CO7	History Taking and Case Presentation: Assessment of Patients with Vartma- shopha(lid edema).
11.1	CO5,CO7	Collaborative Observation of Bhedana Karma in Netraroga (Incision and Drainage/ Curettage).
12.1	C05,C07	Collaborative Observation of Lekhana Karma in Netraroga.

13.1	CO3,CO4	Examination of the Shuklamandala (Conjunctiva and Sclera).
13.2	CO3,CO4,CO6,CO7	Cases of Arma, Pishtaka, and growths or discolourations on Shuklamandala.
13.3	CO3,CO4,CO6,CO7	Assessment of patients with Raktaakshi (Red Eye), focusing on Arjuna (Sub- Conjunctival Hemorrhage).
14.1	CO3,CO4,CO6,CO7	Assessment of Patients with Raktaakshi (Red Eye) - Episcleritis / Scleritis: Differentiating Diffuse / Nodular Forms.
15.1	CO5	Observation of Chhedana(Excision) in Netraroga.
17.1	CO3,CO4,CO7	Evaluation of Savrana Shukra (Corneal Ulcer).
17.2	CO3,CO7	Slit lamp examination.
18.1	C02,C03,C04,C07	Evaluation of Uveitis.
18.2	CO3,CO6,CO7	Assessment of Anterior chamber.
21.1	C03,C04,C07,C08	Evaluation of Raktaakshi (Red eye) with Srava (Discharge).
22.1	C03,C04,C07,C08	Evaluation of Shushkakshi (Dry eye evaluation).
23.1	C03,C07	Discussion on Tonometry and Perimetry.
24.1	CO3,CO7	Fundus evaluation (ophthalmoscopy).
24.2	CO3,CO4,CO6,CO7	History taking in a patient with Timira (Dimness of vision).
25.1	C05,C06,C07,C08	Evaluation of Agantuja Shalya (Foreign body in eyes).
26.1	CO3,CO7	Examination of Cataract.
27.1	CO2,CO5,CO7	Case discussion on Madhumehajanya Drishtiroga (Diabetic Retinopathy).
29.1	CO5,CO6	Use of Samanya Chakshushya Dravyas in Eye diseases
29.2	CO5	Prescription of Samanya Chakshushya Yoga.

29.3	CO4,CO7	Evaluation of Naktandhya (night blindness).
30.1	CO2,CO5,CO7	Evaluation of Shirahshoola.
30.2	CO2,CO7	Introduction of case sheet for Shiro Karna Nasa Mukha roga.
31.1	CO5,CO6,CO7	Application of Shirolepa, Shiro-abhyanga, Shiroseka, and Shirobasti.
31.2	CO2,CO3,CO7	Evaluation of Ardhavabhedaka.
32.1	CO3,CO7	Identification and use of basic Ear OPD Instruments.
32.2	CO5,CO6,CO7	Case taking in Karnaroga.
33.1	CO2,CO3,CO4,CO5, CO7	Evaluation of Karnashoola (Otalgia).
34.1	CO2,CO5,CO7	General histroy taking, Specific history taking in the cases of Nasaroga.
36.1	CO3,CO7,CO8	Oro - Dental case taking and examination.
36.2	CO3,CO7,CO8	Poorva, Pradhana and Pashchat Karma of Kavala, Gandusha and Mukhapratisarana.
40.1	CO3,CO7	Purva- Pradhana and Pashchat Karma related to the procedures of Prachchhanna and Jalaukavacharana.
40.2	CO3,CO7	Discussion on Agnikarma in Shiroroga.
42.1	CO2,CO3,CO4	Case Taking and Differential Diagnosis of Badhirya.
42.2	CO3,CO4,CO5	Tuning Fork Test (Rinne's, Weber) and their interpretation.
42.3	CO3,CO5	Audiometry and its interpretation.
42.4	CO2,CO3,CO4	Assessment of Karna Kshweda-Naada (Tinnitus).
	1	

42.5	CO5,CO6,CO7	Procedure of Karnapoorana.
42.6	CO5,CO6	Procedures of Karna Pramarjana, Karna Prakshalana, and Karna Dhoopana.
43.1	CO2,CO3,CO4,CO5	Etiology, Clinical Features and Medical Management of Karna Srava (Otorrhea).
43.2	CO2,CO3,CO4,CO5	Surgical procedures of Mastoidectomy and Myringotomy.
44.1	CO2,CO3,CO4,CO5	Assessment of Karna Kandu.
44.2	CO1,CO3,CO5,CO6	Removal of Ear Wax.
46.1	CO3,CO4,CO7	Examination of Nasa and Nasagandakutalalatasthi-kuhara (Nose and Paranasal sinuses). Evaluation of Nasa srava (Rhinorrhoea). Evaluation of Sinusitis.
51.1	CO5,CO7	Contemporary Pharmaceutical Agents Used in Karna Nasa Mukha Roga.
54.1	CO2,CO3,CO4,CO5, CO7	Case discussion on Bhraamara (Vertigo).
55.1	CO5,CO7	Case discussion on Agantuja Shalya in Karna (Foreign Body in Ear).
56.1	CO3,CO4,CO7	Evaluation of Nasa-avarodha. Evaluation of Nasarsha (Nasal polyp).
57.1	CO3,CO5,CO6	Evaluation of Nasagata raktasrava (Anterior epistaxis).
58.1	CO3,CO4,CO7	Evaluation of Gandhajnana Vikruthi (Anosmia, Hyposmia, Parosmia).
59.1	CO3,CO5,CO7	Case discussion on Agantuja Shalya in Nasa(nose).
60.1	CO5,CO6	Details in Nasasandhana Vidhi.
62.1	CO2,CO3,CO5,CO7	Cases of Geelana-Shoola (Odynophagia), Geelana-Kashta (Dysphagia), and Mukha Dourgandhya (Hallitosis).
62.2	CO2,CO3,CO5,CO7	Case-based discussion on Kantharoga.
62.3	C02,C03,C05,C07	Case Discussion on Swarabheda and Kantha Koojana.

63.1	CO5,CO7	Common Yogas used in Shiro Karna Nasa Mukha Roga- their usage, indications, outcomes.

Subject	Subject         Papers         Theory         Practical/Clinical Assessment (200)						Grand	
Code			Practical	Viva	Elective	IA	Sub Total	Total
AyUG-SL	2	200	100	70	-	30	200	400

### 6 A : Number of Papers and Marks Distribution

#### 6 B : Scheme of Assessment (Formative and Summative)

PROFESSIONAL	FOR	SUMMATIVE		
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	3 PA & First TT	3 PA & Second TT	3 PA	UE**

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

#### 6 C : Calculation Method for Internal assessment Marks

		PERIODICAL ASSESSMENT*					TEI ASSESS	RM SMENT
	A 4	В	С	D	E	F	G	Н
TERM	1 (15 Marks)	2 (15 Marks)	3 (15 Marks)	Average (A+B+C/3 )	Converted to 30 Marks (D/15*30)	Term Test (Marks converted to 30)	Sub Total _/60 Marks	Term Assessmen t (/30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		Е
Final IA	Average of 7	Three Term A	ssessment M	arks as Show	n in 'H' Colu	mn.		
	Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks.							

## 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

# **Topics for Periodic Assessments**

РА	PAPER ONE(topic no.)	PAPER TWO (topic no.)
PA-1	Topic 01	Topic 30,31.
PA-2	Topic 02,03,04,05.	Topic 32,33,34,35.
PA-3	Topic 06,07	Topic 36,37,38.
Term Test – 1	Entire Syllabus of Term 1 of 2 papers	
PA-4	Topic 09,10,11,12.	Topic 40,41,42.
PA-5	Topic 13,14,15,16.	Topic 43,44,45.
PA-6	PA-6 Topic 17,18,19,20. Topic 46,47,48,49,50.	
Term Test 2	Entire Syllabus of Term 2 of 2 papers	
PA-7	Topic 22,23.	Topic 52,53,54,55.
PA-8	Topic 24,25,26.	Topic 56,57,58,59.
PA-9	Topic 27,28,29.	Topic 60,61,62,63.

## III PROFESSIONAL BAMS EXAMINATIONS AyUG-SL PAPER-I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

Similar for Paper II.

# 6 F : Distribution of theory examination

Pape	er 1 (Netraroga (Ophthalmology))				
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ
1	Shareera, Nidaana Panchaka of Netraroga.	30	Yes	Yes	No
2	Samanya Chikitsa and Kriyakalpa.		Yes	Yes	Yes
3	Panchakarma and Netraroga.		No	Yes	No
4	Sanjnaharana in Netraroga.		Yes	No	No
5	Sandhigata Roga -1		Yes	Yes	Yes
6	Sandhigata Roga -2		Yes	Yes	No
7	Sandhigata Roga -3		Yes	Yes	No
8	Vartmagata Roga-1	34	Yes	Yes	No
9	Vartmagata Roga-2		Yes	No	No
10	Vartmagata Roga -3		Yes	Yes	No
11	Bhedana Karma		Yes	Yes	No
12	Lekhana Karma.		Yes	Yes	No
13	Shuklagata Roga -1		Yes	Yes	Yes
14	Shuklagata Roga -2		Yes	Yes	No
15	Chhedana Karma.		Yes	Yes	No
16	Agnikarma and Ksharakarma.		Yes	Yes	No
17	Krishnagata Roga -1		Yes	Yes	Yes
18	Krishnagata Roga -2		Yes	Yes	Yes
19	Dravyas Used In Netrachikitsa-1		Yes	Yes	No
20	Eye Donation		No	Yes	No
21	Sarvagata Roga -1	18	Yes	Yes	Yes
22	Sarvagata Roga -2		Yes	Yes	No
23	Glaucoma		Yes	Yes	Yes
24	Drishtigata Roga-1	18	Yes	Yes	Yes
25	Nayanabhighata		Yes	Yes	No
26	Drishtigata Roga-2		Yes	Yes	Yes
27	Drishtigata Roga- 3		Yes	Yes	No

28	Dravyas used in Netra Chikitsa-2		Yes	No	No
29	Dravyas used in Netra Chikitsa-3, Swasthavritta, Kuposhanajanya Netravikara (Malnutritional Eye Disorders), Community Ophthalmology.		Yes	Yes	No
Total Marks		100			

Pape	Paper 2 (Shiro-Karna-Nasa-Mukharoga (Oto-rhino-laryngology and Oro-dentistry))				
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ
30	Enumeration, Nidana Panchaka and Sadhya-asadhyata of Shiroroga	10	Yes	Yes	No
31	Samanya Chikitsa of Shiroroga		Yes	Yes	Yes
32	Karna Rachana Shareera, Nidana Panchaka and Samanya Chikitsa of Karnaroga	25	Yes	Yes	No
33	Karnaroga 1		Yes	Yes	Yes
34	Nasa Shareera, Ghranendriya and Nidana Panchaka of Nasaroga		Yes	Yes	No
35	Pratishyaya		Yes	Yes	Yes
36	Mukha Shareera and Nidana Panchaka of Mukharoga		Yes	Yes	No
37	Oshtharoga	10	Yes	Yes	No
38	Sarvasara Mukharoga		Yes	Yes	No
39	National Oral Health Programme		Yes	Yes	No
40	Kapalagata Roga	10	Yes	Yes	No
41	Karna Kriya Shareera and Shravanendriya		Yes	Yes	No
42	Karna Badhirya, Karna Naada and Kshweda		Yes	Yes	Yes
43	Karna Srava and Putikarna	05	Yes	Yes	No
44	Karnakandu, Karnaguthaka, Karnapratinaha, Krumikarna, Karnavidradhi, Karnapaka.		Yes	Yes	No
45	Rhinitis		Yes	Yes	No
46	Deeptadi Nasaroga.		Yes	Yes	No
47	Nasavamsha-kutilatwa (Deviated Nasal Septum).	10	Yes	Yes	Yes
48	Dantamulagata roga		Yes	Yes	No
49	Jihvagata Roga		Yes	Yes	No

50	Krimidantaka and Dantaharsha		Yes	Yes	Yes
51	Dravyas used in Karna Nasa Mukha Roga Chikitsa-1		Yes	No	No
52	Karnarsha and Karnarbuda	10	Yes	Yes	No
53	Karnasandhana		Yes	Yes	No
54	Bhraamara (Vertigo)		Yes	Yes	No
55	Agantuja Shalya in Karna	10	Yes	Yes	No
56	Nasarsha		Yes	Yes	Yes
57	Nasagata Raktasrava		Yes	Yes	Yes
58	Nasarbuda		Yes	Yes	No
59	Agantuja Shalya in Nasa	10	Yes	Yes	No
60	Nasa-abhighata, Nasasandhana		Yes	Yes	No
61	Talugata Roga		Yes	Yes	Yes
62	Kantharoga		Yes	Yes	Yes
63	Dravyas used in Karna Nasa Mukha Roga Chikitsa-2		Yes	Yes	No
Tota	Total Marks				

### 6 G : Instructions for UG Paper Setting & Blue print

- 1. All questions shall be compulsory.
- 2. Questions shall be drawn based on Table 6F, which provides the topic name, types of questions (MCQ(Multiple Choice Question), SAQ(Short Answer Question), LAQ(Long Answer Question)).
- 3. The marks assigned in Table 6F for each topic/group of topics shall be considered as the maximum allowable marks for that topic/group of topics.
- 4. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
- 5. Refer to Table 6F before setting the questions. Questions shall be framed only from topics where the type is marked as "YES", and avoided if marked as "NO".
- 6. Each 100-mark question paper shall contain:
  - 20 MCQs
  - 8 SAQs
  - 4 LAQs
- 7. MCQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 3.
  - Questions from the Nice to Know part of syllabus shall not exceed 2.
- 8. SAQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 1.
  - No questions shall be drawn from the Nice to Know part of syllabus.
  - SAQs shall assess understanding, application, and analysis, rather than simple recall.
- 9. LAQs:
  - All LAQs shall be drawn exclusively from the Must to Know part of the syllabus.
  - No questions shall be taken from the Desirable to Know or Nice to Know part of the syllabus.
  - Number of LAQs should not exceed one per topic unless maximum marks exceed 20 for the topic.
- 10. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
- 11. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

S.No	Heads	Marks
1	<ul> <li>Long case assessment</li> <li>Assess ability to gather and interpret patient information accurately.</li> <li>Gauge the ability to organise the data into a coherent case presentation.</li> <li>Appraise the clarity of thought process showing how student narrowed down the possibilities to formulate a differential diagnosis.</li> <li>Examine the ability to develop a comprehensive management plan, including immediate treatment for acute issues and ongoing management for chronic conditions. This should cover investigations, treatment options, and any necessary referrals.</li> <li>Judge communication skills and preparation to answer questions and discuss rationale for the decisions student has made.</li> </ul>	30
2	<ul> <li>Short case assessment (One case)</li> <li>A Short Case, featuring either a simulated or a real patient is used to assess a student's ability to quickly approach a case and highlight and interpret different key clinical signs before offering a differential diagnosis.</li> <li>* The candidate is given approximately 8-12 mins to examine a part or anatomical area.</li> <li>* No history is taken.</li> <li>* Verbal communication is only allowed to get the patient to follow a set of instructions or if the patient's speech is being formally tested.</li> <li>* Following the examination the candidate must give a 3-5 minute summary of 1. The examination findings</li> <li>2. The likely differential diagnosis based on the finding</li> <li>3. The probable causes and severity of the condition</li> <li>4. General discussion related to the above</li> <li>* A smooth and confident technique and a gentle, kind and friendly manner indicate professionalism.</li> </ul>	10

3	<ul> <li>Spotters</li> <li>5 spotters of 2 marks each .</li> <li>Spotter 1) Any Ayurvedic drug described in Paper one.</li> <li>Spotter 2) Any Ayurvedic drug described in Pape two.</li> <li>Spotter 3) Any drug from contemporary medical science described in Papers one and two.</li> <li>Spotter 4) Clear picture of any of Anatomical part, pathological condition, and investigations described in paper one.</li> <li>Spotter 5) Clear picture of any of Anatomical part, pathological condition, and investigations described in paper two.</li> </ul>	10
4	Skill Based Clinical Assessment	40
5	Journal or Case Record Viva	10
	Ask students to provide a concise summary of the case, including chief complaints, diagnosis, and treatment plan.	
	Question the relevance of history, investigation findings, and clinical examination to the diagnosis.	
	Probe the reasoning behind the chosen treatment and its expected outcomes.	
	Present alternative scenarios and ask students how they would adapt their diagnosis or management plan.	
	Assess the accuracy, clarity, and completeness of the journal or case record.	
	Ask students how they would approach a similar case in a practical setting.	
	Inquire about adherence to guidelines or protocols relevant to the case.	
	Marks Distribution-	
	1. Accuracy, Neatness and completeness of Journal- 03 marks.	
	2. Adaptation to alternative scenarios and differential diagnosis- 02 marks.	
	3. Clarity about the investigations, treatment plan, follow ups and outcomes- 05 marks.	

6	Viva-	
	Instruments in an oral examination: (20 marks)	
	1.Pose direct questions about different instruments, their uses, and maintenance.	
	2. Ask students to identify instruments from a set. This can be done visually or through touch if the exam format allows.	
	3. Have students explain or demonstrate the function of each instrument, detailing their specific uses during procedures.	
	4. Inquire about the proper sterilization, maintenance, and storage of instruments to ensure they understand these crucial aspects.	
	5. Present clinical scenarios where students must select the appropriate instruments and explain their choice based on the scenario.	
	6. Select minimum two instruments each from Ear examination and surgery, Nose Examination and surgery, Throat(pharynx and larynx) examination and surgery.	
	7. Select minimum four instruments from Eye examination and surgery.	
	Xray examination (10 marks)	
	1. Test their ability to identify anatomical structures on X-rays relevant to ENT. For example, they should be able to distinguish between different sinuses, the structures of the ear, and the anatomy of the throat and neck.	
	2. Present clinical scenarios relevant to ENT and ask the student which X-ray views or types would be most appropriate for diagnosis. Assess their ability to justify their choices based on the clinical context.	
	3. Provide students with sample X-rays to interpret. Evaluate their ability to detect common ENT conditions such as sinusitis, laryngeal masses, mastoiditis, foreign bodies, and fractures of the nasal bones.	
	4. Provide minimum one Xray each for Ear and Mastoid; Nose; Paranasal Sinuses; Pharynx and Larynx.	
	Oral Examination -(30 marks.)	
	Ask core questions on the anatomy and physiology of Netra, Karna, Nasa, Mukha	

	and Shiras.	
	Discuss Nidana, Samprapti, and Lakshana of common Shalakya disorders.	
	Inquire about treatment protocols such as Panchakarma and Kriyakalpa	
	Question the use and maintenance of Shalakya instruments.	
	Present clinical scenarios to assess diagnostic and treatment planning skills.	
	Include questions on advancements such as OCT or endoscopic techniques in Shalakyatanthra.	
	Mark Distribution-	
	A) Netraroga- 10 marks.	
	B) Karnaroga- 05 marks.	
	C) Nasaroga- 05 marks.	
	D) Mukharoga- 05 marks.	
	E) Shiroroga- 05 marks.	
	Communication Skill (10 Marks)	
7	Internal assessment.	30
Total Ma	200	

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# Syllabus Committee

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## Abbreviations

Domain		T L Method		Level A		Asse	Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
СС	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
САР	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	Н-КС	НКС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	Н-РК	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	н-кв	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

	W	Workshops		C-INT	Conducting interview	
	GBL	Game-Based Learning		INT	Interactions	
	LS	Library Session		CR- RED	Critical reading papers	
	PL	Peer Learning		CR-W	Creativity Writing	
	RLE	Real-Life Experience		C-VC	Clinical video cases	
	PER	Presentations		SP	Simulated patients	
	D-M	Demonstration on Model		РМ	Patient management problems	
	РТ	Practical		СНК	Checklists	
	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
	CD	Case Diagnosis		DOPS	DOPS	
	LRI	Lab Report Interpretation		CWS	CWS	
	DA	Drug Analysis		RS	Rating scales	
	D	Demonstration		RK	Record keeping	
	D- BED	Demonstration Bedside		СОМ	Compilations	
	DL	Demonstration Lab		Portfol ios	Portfolios	
	DG	Demonstration Garden		Log book	Log book	
	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				CBA	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	

# COURSE CURRICULUM FOR THIRD PROFESSIONAL BAMS (PRESCRIBED BY NCISM)



Shalya Tantra (General Surgery)

# (SUBJECT CODE : AYUG-ST)

(Applicable from 2021-22 batch, from the academic year 2024-25 onwards for 5 batches or until further notification by NCISM, whichever is earlier)



BOARD OF AYURVEDA NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE NEW DELHI-110026



# NCISM III Professional Ayurvedacharya (BAMS) Subject Code : AYUG-ST Shalya Tantra

(General Surgery)

## **Summary**

Total number of Teaching hours: 375					
Lecture (LH) - Theory					
Paper I	60	125	125(LH)		
Paper II	65				
Non-Lecture (NLHT)					
Paper I	20	58	250(NLH)		
Paper II	38				
Non-Lecture (NLHP)					
Paper I	100	] 192			
Paper II	92				

Examination (Papers & Mark Distribution)						
Item	Theory Component Marks		Practical Com	ponent Marks		
		Practical	Viva	Elective	IA	
Paper I	100	100	70	-	30	
Paper II	100					
Sub-Total	200		20	00	-	
Total marks		400	400			

**Important Note :-** The User Manual III BAMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual III before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to **syllabus24ayu@ncismindia.org** 

# **PREFACE**

Shalya Tantra, the ancient Indian science of surgery, holds a distinguished place in Ayurveda due to its rich tradition of surgical excellence and innovation. Rooted in classical texts like Sushruta Samhita, this discipline emphasizes both fundamental principles and evolving surgical advancements. The undergraduate curriculum in Shalya Tantra is designed to provide students with a comprehensive understanding of surgical interventions, integrating traditional Ayurvedic techniques with contemporary surgical practices. This structured approach ensures that students develop the knowledge and skills necessary to diagnose and manage various surgical conditions effectively.

The syllabus encompasses a wide range of topics, including surgical anatomy, physiology, diagnostic methods, preand post-operative care, and therapeutic interventions for conditions such as anorectal disorders, abdominal surgery, orthopedic procedures, and plastic surgery. Additionally, emphasis is placed on wound management, tissue repair, and Ayurvedic pharmacology relevant to surgical practice. To enhance competency, the course integrates lecturebased learning with practical demonstrations, case studies, and group discussions. Students also receive hands-on training using simulators, ensuring they gain real-world surgical skills while adhering to evidence-based practice and research methodologies.

In the third professional year, Shalya Tantra plays a pivotal role in shaping a student's clinical acumen and surgical expertise. This stage bridges the gap between theoretical knowledge and practical application, preparing students to approach surgical conditions holistically. The integration of modern teaching-learning (TL) methods such as problembased learning (PBL), clinical simulations, and interactive case discussions further refines their diagnostic and decision-making abilities. By fostering innovation and research orientation, the curriculum ensures that future Ayurvedic surgeons are well-equipped to uphold the legacy of Shalya Tantra while adapting to contemporary healthcare advancements

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## **Course Code and Name of Course**

Course code	Name of Course			
AYUG-ST	Shalya Tantra			

# Table 1 : Course learning outcomes and mapped PO

SR1 CO No	A1 Course learning Outcomes (CO) AYUG-ST At the end of the course AYUG-ST, the students should be able to-	B1 Course learning Outcomes mapped with program learning outcomes.
CO1	Apply knowledge, critical thinking, and analytical skills for diagnosis and management of Shalya Tantra conditions with relevant contemporary science.	PO1,PO2
CO2	Demonstrate the common surgical and parasurgical procedures competently	PO4
CO3	Demonstrate adequacy of patient care through effective communication and interpersonal skills.	PO8
CO4	Promote awareness of Ayurvedic surgical practices within the community, advocating for healthcare policies that integrate traditional and modern surgical practices	PO5,PO6,PO7,PO8,P O9
CO5	Select, and apply appropriate methods /procedures and resources in patient management related to computing technical tools with an understanding of the limitations of Ayurveda and modern medicine.	PO2,PO3,PO4
CO6	Recognize surgical emergencies and trauma cases, coordinate resuscitative measures and manage accordingly or by referral for expert care at the optimum time.	PO5,PO9
CO7	Demonstrate professionalism with high ethical standards, imbibing the leadership quality, and be committed to continuous improvement of skills and knowledge in the field of Shalya Tantra research.	PO3,PO7,PO9

### Table 2 : Contents of Course

Pape	er 1 (Fundamentals of Shalya Tantra)					. <u> </u>
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours Theory	E2 Non- Lecture hours Practica l
1	Introduction to Shalya Tantra (Introduction to development of surgery)	1	15	1	1	4
	<ol> <li>Definition of Shalya, Shalya Tantra and its Importance.</li> <li>Chronological development of surgery from ancient to present era.</li> <li>General scheme of surgical case taking.</li> <li>Special signs and symptoms pertaining to surgery.</li> </ol>					
2	Yantra and Shastra (Blunt and sharp instruments)	1		2	0	2
	<ol> <li>Yantra - Nirukti, Prakara, Guna, Prayog, Dosha, Karma, Upayantra and Relevant modern instruments.</li> <li>Shastra - Nirukti, Prakara, Guna, Prayog, Dosha, Karma, Anushastra and Relevant modern instruments.</li> <li>Demonstration (Comparison and classification with modern instruments)</li> </ol>					
3	Nirjantukarana (Sterilization)	1		1	1	4
	<ol> <li>Sterilization – Methods and Types.</li> <li>Knowledge about Vranitagara.</li> <li>Aseptic techniques, Sterilization and Disinfection of Surgical instruments, OT sterilization.</li> <li>Hands on training - Hand washing techniques, Donning of Gloves and Gown.</li> </ol>					
4	Sangyaharana (Anaesthesia)	1		2	2	4
	<ol> <li>Sthaniya Sangyaharana (Local anaesthesia)         <ul> <li>Medicines, Techniques, Indications, Contraindications, Complications and Management.</li> <li>Kshetriya and Samanya Sangyaharana (Regional and General anaesthesia) -</li> </ul> </li> </ol>					
	<ul> <li>Medicines, Techniques, Indications, Contraindications, Complications and Management.</li> <li>3. Principles of preoperative assessment.</li> <li>4. Demonstration/Hands on Training - CPR.</li> <li>5. Demonstration/Hands on Training - maintenance of an airway / endotracheal intubation in a mannequin.</li> <li>6. Principles of safe General Surgery and Surgical Ethics.</li> </ul>					
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5	Trividha Karma (Pre, Operative and Post Operative care)	1	1	1	2	
	<ol> <li>Trividha Karma – Purva Karma (in relation to instruments, patient and procedure), Pradhana Karma – Ashtavidha Shastra Karma (Surgical/Parasurgical procedures), Paschat Karma – Post operative care of patient.</li> <li>Steps to obtain informed consent for a procedure in a patient/simulated environment.</li> <li>Observe common surgical procedures and assist in minor surgical procedures; Observe emergency lifesaving surgical procedures.</li> </ol>					
6	Shastra Karma (Operative procedure)	1	3	0	10	
	<ol> <li>Ashtavidha Shastra Karma - Nirukti, Yogya, Ayogya, Prakara with modern correlations of Chhedan, Bhedan and Lekhan.</li> <li>Ashtavidha Shastra Karma – Nirukti, Yogya, Ayogya, Prakara with modern correlations of Eshana, Aaharan and Visravan.</li> <li>Ashtavidha Shastra Karma – Nirukti, Yogya, Ayogya, Prakara with modern correlations of Vedhan and Seevan.</li> <li>Hands on training on Prathamopachara.(First Aid)</li> <li>Demonstration of Chhedan (Excision), Bhedan (Incision), Lekhan (Scraping) on patient/simulator.</li> <li>Demonstration of Vedhan and Visravan (Paracentesis of Ascitic fluid, Hydrocele- Tapping, Pleural effusion-Thoracocentesis) on the patient/simulator.</li> </ol>					

	<ul> <li>7. Demonstration of Aharan and Eshan (Extraction and Probing) on the patient/simulator.</li> <li>8. Demonstration of Seevan (Suturing and Knots) and minor surgical procedures on the patient/simulator.</li> </ul>					
7	<ul> <li>Yogya (Experimental Surgical Training)</li> <li>1. Importance of Simulation-based teaching in surgical practice (Yogya Vidhi).</li> <li>2. Perform Basic Surgical Skills - Hands on training on Simulators with relevant modern techniques.</li> <li>3. IV canulation, IM/IV/Subcutaneous/Intradermal Injection.</li> <li>4. Ryle's tube and Drains insertion.</li> <li>5. Urinary catheterization.</li> </ul>	1		1	0	8
8	<ul> <li>Marma (Vital points)</li> <li>1. Marma – Nirukti, Prakara and Individual Marma Viddha Lakshanas.</li> <li>2. Marmaghata Chikitsa and its surgical importance.</li> <li>3. Marma identification and manipulation techniques in musculoskeletal disorders (Avabahuka-Frozen shoulder, Snayugata Vata-Tennis Elbow, Gridhrasi-Sciatica, Cervical Spondylosis, etc.) and Sports Injuries.</li> </ul>	1	5	2	0	2
9	<ul> <li>Kshara Karma</li> <li>1. Kshara and Kshara Karma - Nirukti, Pradhanata, Guna, Dosha, Karma, Prakara, Yogya, Ayogya, Vidhi, Upadrava and Chikitsa.</li> <li>2. Clinical application of Kshara Sutra, Pratisaraneeya Kshara, Kshara Taila, Kshara Varti and Ksharodaka in different surgical conditions.</li> <li>3. Video demonstration of Kshara, Kshara Sutra – Preparation and Method of application.</li> <li>4. Demonstration of handling of patient with Kshara Sutra changing.</li> <li>5. Demonstration and hands on training of Ksharodaka, Kshara Taila, Kshara Varti, Kshara Pichu in Dushtavrana.</li> </ul>	1	15	2	2	4

	<ul> <li>Demonstration and hands on training of Kshara Karma in Anorectal disorders. (Arsha, Bhagandara, Nadivrana etc.)</li> </ul>					
10	<ul> <li>Agnikarma</li> <li>1. Agnikarma - Mahatva, Upakarana, Vidhi, Akrutibheda, Yogya, Ayogya and Upadrava Chikitsa.</li> <li>2. Dhumopahat &amp; Ushna Vatatap Dagdha Lakshan and Chikitsa. Contemporary techniques and tools of Agnikarma.</li> <li>3. Hands on experience of Agnikarma in the Pain management of any one disease (Gridhrasi, Avabahuka etc.).</li> <li>4. Hands on experience of Agnikarma as disease modifying management of any one surgical disease (Arsha, Charmakeel etc.).</li> </ul>	1		2	0	4
11	<ul> <li>Raktamokshana</li> <li>1. Raktamokshana - Mahatva, Prakara. Siravedha - Yogya, Ayogya, Vidhi, Upadrava and Chikitsa.</li> <li>2. Pracchanna, Shringa, Alabu - Yogya, Ayogya, Vidhi, Upadrava and Chikitsa.</li> <li>3. Jaloukavacharana – Yogya, Ayogya, Vidhi, Upadrava and Chikitsa.</li> <li>4. Hands on experience of Siravedha as disease modifying management of any one surgical disease (Grudhrasi, Uttan Vatarakta etc.).</li> <li>5. Hands on experience of Alabu as disease modifying management of any one surgical disease (Katigraha, Manya Graha etc.).</li> <li>6. Hands on experience of Jaloukavacharana (Leech Therapy) as disease modifying management of any one surgical disease (Vidradhi, Dushtavrana, Koth etc.).</li> </ul>	1		3	0	6
12	<ul> <li>Bandha Vidhi</li> <li>1. Bandha Vidhi – Prayojana, Dravya (Pichu, Plota, Kavalika and Vikeshika), Yogya, Ayogya, Prakara and Upadrava.</li> <li>2. Hands on training on Simulator with relevant modern techniques of Bandaging.</li> <li>3. Brief knowledge of Splints (Ayurveda and Modern).</li> <li>4. Transportation of injured patient (Double</li> </ul>	1	6	1	1	4

	Human Crutch, Fireman's Lift, Two- handed seat etc.) and recovery position.					
13	Pranashta Shalya	1		1	0	2
	<ol> <li>Pranashta Shalya and Nirharana Upaya (Identification and Principles of management).</li> <li>Heimlich Maneuver- Hands on training (Choking).</li> </ol>					
14	Fluid, Electrolyte, Acid Base Balance and Nutrition in surgical practice	1	5	3	1	4
	<ol> <li>Introduction to Physiology of Fluids and Electrolytes.</li> <li>Dehydration and Over hydration.</li> <li>Specific electrolyte loss, Acidosis, Alkalosis, Symptomatology and Management.</li> <li>Parenteral Nutrition.</li> <li>Calculations and Selections of fluids in various conditions like Dehydration, Shock, Burns etc.</li> <li>Acid Base Balance in various conditions like perforation, vomiting etc.</li> </ol>					
15	Rakta	1		2	2	0
	<ol> <li>Rakta Mahatva and Rakta - Chaturtha Dosha.</li> <li>Raktasrava - Prakara and Lakshana. Haemorrhage and its management.</li> <li>Raktastambhana - Haemostasis.</li> <li>Raktadhan (Blood Transfusion) - Blood groups, Compatibility, Indications, Contraindications and Complications with Management. Component Therapy.</li> </ol>					
16	Life Saving and Emergency Medicines in surgical practice (Prana Rakshaka and Atyayika Dravya)	1	4	3	0	0
	<ol> <li>Jeevanurodhak Dravya (Antibiotics)- Classification, Indications, Contraindications and Dose.</li> <li>Vedanaprashamana and Shothaprashamana Dravya (Analgesics and Anti-inflammatory Drugs) - Classification, Indications, Contraindications and Dose.</li> </ol>					

	<ul> <li>3. Atyayik Dravya (Emergency Drugs) - Atropine, Adrenaline, Dopamine Mephentine Hydrochloride, Hydrocortisone, Dexamethasone, Antiemetic drugs - Indications, Contraindications and Dose in surgical practice.</li> </ul>					
17	Naidanik Vidhi (Diagnostic techniques)	1		2	0	6
	<ol> <li>Chhaya Vikiran (X-Ray), Avayava Pariksha (Ultrasonography, CAT Scan, MRI) – Principles, Method, Indications and Contraindications.</li> <li>Kosha Pariksha (Biopsy/Cytological study) - Principles, Method, Indications and Contraindications.</li> <li>Chhaya Vikiran (X-rays) of Chest, Abdomen, Urology and Musculoskeletal diseases. (Interpretation)</li> <li>Demonstration of CT, MRI of Chest, Abdomen, Urology, Bones and Joints.</li> <li>Different types of Biopsy. (Hands-on training)</li> </ol>					
18	Shat Kriyakala in surgical practice	2	5	1	0	2
	<ol> <li>Shat Kriyakala in surgical practice.</li> <li>Shat Kriyakala of Arsha, Bhagandara with a special focus on infective pathology, e.g., Unduka Pucha Shotha (Appendicitis), Pittashaya Shotha (Cholecystitis) etc.</li> </ol>					
19	Samanya Vyadhi Parichaya	2	10	6	3	6
	<ol> <li>Vranashotha (Inflammation) - Nirukti, Nidana, Samprapti, Prakara, Lakshana, Sadhya-Asadhyata, Upadrava and Chikitsa.</li> <li>Vidradhi (Abscess) and Pidika (Boils) - Nidana, Samprapti, Prakara, Lakshana, Sadhya-Asadhyata, Upadrava and Chikitsa.</li> <li>Pramada Dagdha/Dagdha Vrana (Burn) - Etiopathogenesis, Classification, Assessment of Burn, Complications and Management of Burn.</li> <li>Marmaghata (Shock) - Definition, Classification, Etiopathogenesis, Clinical features, Diagnosis and Management of</li> </ol>					

	<ul> <li>Hypovolaemic, Traumatic and Neurogenic Shock.</li> <li>5. Cardiogenic &amp; Septic Shock and Crush syndrome - Etiopathogenesis, Clinical features, Diagnosis and Management.</li> <li>6. Kotha (Gangrene) – Etiopathogenesis, Types, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>7. Granthi (Dermoid Cyst and Sebaceous Cyst) - Nidana, Prakara, Samprapti, Lakshana and Chikitsa.</li> <li>8. Arbuda - Nidana, Prakara, Samprapti, Lakshana and Chikitsa.</li> <li>9. Tumour - Definition, Classification, Clinical features, Complications and Management.</li> <li>10. Examination of Granthi (lump or swelling).</li> <li>11. Emergency management in different types of Shock (Case presentation/PBL/Roleplay).</li> <li>12. Assessment and documentation of Pramada Dagdha (Burn case).</li> </ul>					
20	Vrana	2	10	7	2	6
	<ol> <li>Vrana – Nırukti, Prakara, Nidana, Samprapti, Vrana Vastu, Prakara, Lakshana, Vrana Pariksha and Vrana Sadhya-Asadhyata.</li> <li>Vrana Avastha - Dustavrana, Shuddha Vrana, Ruhyamana Vrana, Samyak Roodha Vrana, Pathya-Apathya and Vrana Upadrava.</li> <li>Vrana Chikitsa –Shashti Upakrama – first 21 Upakramas.</li> <li>Shashti Upakrama – 22 to 40 Upakramas.</li> <li>Shashti Upakrama – 41 to 60 Upakramas except Ashtavidha Shastra Karma.</li> <li>Ulcer – Definition, Types, Wound healing stages and Management.</li> <li>Prameha Pidaka - Diabetic carbuncle and wounds.</li> <li>Sadhyo Vrana (Traumatic wounds) – Nidana, Prakara, Lakshana, Upadrava and Chikitsa.</li> <li>Examination of an Ulcer.</li> <li>Examination of the Peripheral nerve lesions.</li> </ol>					

	12. Demonstration of wound dressings.					
21	Kshudra Roga	2	3	2	0	2
	<ol> <li>1. Kshudra Roga - Clinical features.</li> <li>2. Kshudra Roga - Management.</li> <li>3. Examination of the Hand.</li> </ol>					
22	Manya Vikara	2	5	3	3	6
	<ul> <li>1. Galaganda, Galdanhaa, Apachi - Adaha, Samprapti, Lakshana and Chikitsa.</li> <li>2. Pashanagardabha (Parotitis) – Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>3. Thyroid gland - Surgical anatomy and Physiology.</li> <li>4. Galaganda (Goitre)- Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>5. Toxic Goitre, Thyroiditis - Clinical features and Management.</li> <li>6. Neoplasms of Thyroid - Clinical features and Management.</li> <li>7. Examination of Thyroid gland.</li> </ul>					
	9. Examination of a Lymphatic system.					
23	<ul> <li>Sira Vikara (Venous Disorders)</li> <li>1. Surgical Anatomy and Pathology.</li> <li>2. Superficial and Deep Venous Thrombosis - Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>3. Sira Granthi (Varicose veins) - Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>4. Clinical examination of Sira Granthi (Varicose veins).</li> <li>5. Clinical examination of Siraja Vrana (Venous Ulcers).</li> <li>6. Examination and differential diagnosis of unilateral and bilateral Lower Limb Oedema.</li> </ul>	2	10	3	1	4
24	Dhamani Vikara (Arterial disorders)	2		3	0	2

	<ol> <li>Dhamani Granthi (Aneurysm)– Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>Buerger's Disease - Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>Raynaud's Disease - Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>Raynaud's Disease - Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications and Management.</li> <li>Examination of the Dhamani Vikara (Arterial disorders).</li> </ol>					
25	<ul> <li>Snayu Vikara (Diseases of tendons and ligaments)</li> <li>1. Snayu Shotha (Tendonitis), Pratan Shotha (Tenosynovitis), Pratan Granthi (Ganglion), Dupuytren's Contracture <ul> <li>Etiopathogenesis, Clinical features, Investigations and Management.</li> </ul> </li> <li>2. Amputation –Definition, Classification, Indications, Contraindications and Complications.</li> <li>3. Techniques of Amputation With examples of individual amputation – Video Demonstration/Hands-on training on simulator.</li> <li>4. Examination of Diseases of Snayu Vikara (Diseases of tendons and ligaments).</li> </ul>	2	5	2	0	4
26	<ul> <li>AIDS - HIV and Hepatitis (B and C)</li> <li>1. Etiopathogenesis, Diagnosis and Management.</li> <li>2. Demonstration of safety precautions and care needs to be taken in the infected patients.</li> </ul>	2	2	1	0	2
Tota	l Marks		100	60	20	100

Paper 2 ( Shalya Tantra Chikitsa Siddhanta )								
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours	E2 Non- Lecture hours		

					Theory	Praction 1
	Bhagna (Skeletal Injuries)	2	10	3	5	8
	<ol> <li>Asthi Bhagna/Kanda Bhagna (Fracture) - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.</li> <li>Ansaphalaka Bhagna (Scapula Fracture), Akshakasthi Bhagna (Clavicle Fracture) - Clinical features, Diagnosis, Complications and Management.</li> <li>Pragandasthi Bhagna (Humerus Fracture), Bahiprakoshthasthi Bhagna (Radius Fracture), Antaprakoshthasthi Bhagna (Ulna Fracture) - Clinical features, Diagnosis, Complications and Management.</li> <li>Urvasthi Bhagna (Femur Fracture), Janwasthi Bhagna (Patella), Antar Janghasthi and Bahir Janghasthi Bhagna (Tibia and Fibula Fracture) - Clinical features, Diagnosis, Complications and Management.</li> <li>Sroni Bhagna (Fracture of the Pelvis) - Clinical features, Diagnosis, Complications and Management.</li> <li>Sroni Bhagna (Fracture of the Pelvis) - Clinical features, Diagnosis, Complications and Management.</li> <li>Sandimoksha (Dislocation) - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.</li> <li>Ansa Sandhimoksha (Shoulder joint Dislocation), Kurpara Sandhimoksha (Elbow joint Dislocation) - Clinical features, Diagnosis, Complications and Management.</li> <li>Vankshana Sandhimoksha (Hip joint Dislocation) - Clinical features, Diagnosis, Complications and Management.</li> <li>Examination of the Asthi Abhighata (Bone Injuries).</li> <li>Examination of Sandhi Abhighata (Joint Injuries).</li> <li>Hands on training - Immobilisation, Traction - skin and skeletal.</li> <li>Hand on training - First Aid in cases of Bhagna and Sandimoksha (Fracture and Dislocation)</li> </ol>					
┥	Asthi Sandhi Vikara (Diseases of Bone and	2	5	2	2	6

	<ol> <li>Asthi Vidradhi (Osteomyelitis) - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Asthi Granthi and Arbuda (Bone Cysts and Tumours) - Clinical features, Diagnosis and Management.</li> <li>Asthi Kshaya (Bone Tuberculosis) - Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Asthi Shosha (Osteoporosis), Paget's Disease - Clinical features, Diagnosis and Management.</li> <li>Examination of the Diseases of Bone.</li> <li>Examination of Pathological Joints.</li> </ol>					
29	<ul> <li>Shirobhighata (Cranio-cerebral Injurie/ Disorders)</li> <li>1. Shirobhighata (Scalp injury and Skull fracture) – Clinical features and Management.</li> <li>2. Mastulunga Abhighata (Brain injury) - Cerebral Concussion, Contusion and Laceration. Haemorrhage - Clinical features, Diagnosis and Management.</li> <li>3. Mastishka Arbuda (Benigh and Malignant tumours of Brain) – Clinical features, Diagnosis and Management.</li> <li>4. Examination of Shirobhighata (Cranio- cerebral Injuries/Disorders).</li> </ul>	2	6	2	1	2
30	<ul> <li>Kasheruka Vikara (Diseases of Spine)</li> <li>1. Kasheruka Kshaya (Spinal Tuberculosis) - Etiopathogenesis, Classification, Investigations, Complications and Primary Management.</li> <li>2. Ankylosing Spondylitis - Etiopathogenesis, Classification, Investigations, Complications and Primary Management.</li> <li>3. Examination of Kasheruka Abhighata (Spinal Injuries) and Abnormalities.</li> <li>4. Clinical examination of non-traumatic spinal disorders.</li> <li>5. Three stage stabilization with Logroll hands on training.</li> </ul>	2		1	1	4
31	Stana Roga (Diseases of Breast)	2	5	1	2	2

	<ol> <li>Stana Vidradhi (Breast abscess) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Stana Granthi (Fibroadenoma) and Fibroadenosis - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Stana Arbuda (Benign and Malignant tumours of Breast) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Examination of the Breast - Patient education for 'Self Examination of Breast'.</li> </ol>					
32	<ul> <li>Urah Vikara (Diseases of Chest)</li> <li>1. Urah Abhighata - Chest Injury (Parshukasthi Bhagna - Fracture of Ribs, Pneumothorax, Haemothorax, Stove in Chest, Flail Chest and Surgical Emphysema) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>2. Phupusavarana Shotha (Pleurisy), Phupusavarana Vidradhi (Pleural Abscess), Pleural Effusion, Phupusa Granthi (Cysts of Lung), Phupusa Arbuda (Benign and Malignant tumours of Lung) - Etiopathogenesis, Classification, Clinical features, Diagnosis and Management.</li> <li>3. Examination of Urah Abhigata (Injuries of the Chest).</li> <li>4. Examination of Urah Vikara (Diseases of the Chest).</li> </ul>	2	3	1	1	4
33	<ul> <li>Anna Nalika Vikara (Diseases of Oesophagus)</li> <li>1. Sahaja Vikara (Congenital Anomalies), Anna Nalika Shotha (Oesophagitis) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>2. Anna Nalika Raktasrava (Oesophageal Varices) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>3. Anna Nalika Arbuda (Benign and Malignant tumours of Oesophagus) -</li> </ul>	2	2	2	1	2

	Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management. 4. Examination of Dysphagia.					
34	Gulma Roga	2	2	1	0	0
	1. Gulma Roga - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.					
35	Shoola Vyadhi	2		1	0	2
	<ol> <li>Shoola - Nidana, Prakara, Lakshana, Upadrava and Chikitsa.</li> <li>Examination of Acute Abdomen.</li> </ol>					
36	Udara Roga	2	5	1	2	2
	<ol> <li>Udara Roga (Yakritodar, Pleehodar, Chhidrodar, Baddhagudodar) - Nidana, Prakara, Samprapti, Lakshana and Chikitsa.</li> <li>Jalodara (Ascites) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>Peritonitis - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> </ol>					
37	Aamashaya Evam Adho-Aamashaya Vikara (Diseases of Stomach and Duodenum)	2	12	2	1	2
	<ol> <li>Annadrava Shoola and Parinama Shoola (Peptic Ulcer) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management</li> <li>Pyloric stenosis – Clinical Diagnosis and Management.</li> <li>Aamashaya Arbuda (Benign and Malignant tumours of Stomach) - Clinical Diagnosis and Management.</li> <li>Examination of Abdominal Lump.</li> </ol>					
38	<b>Kshudrantra Vikara (Diseases of Small</b>			4	2	1
	<ol> <li>Kshudrantra Kshaya Janya Vikara (Tuberculosis of Intestine) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Blind Loop Syndrome, Short Bowel</li> </ol>					

	<ul> <li>Syndrome and Typhoid Enteritis - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>3. Kshudrantra Arbuda (Benign and Malignant tumours of Intestine) - Clinical features, Diagnosis and Management.</li> <li>4. Baddhagudodar (Intestinal Obstruction) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>5. Antrantara Pravesha (Intussusception) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>6. Chidrodara (Perforation) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>7. Per Abdominal Examination.</li> </ul>				
39	<ul> <li>Brihadantra Vikara (Diseases of Large Intestine)</li> <li>1. Grahani (Crohn's Disease and Ulcerative Colitis) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>2. Unduka Puchha Shotha (Appendicitis) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management</li> <li>3. Brihadantra Arbuda (Benign and Malignant tumours of Colon) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>4. Examination of Chronic Abdomen.</li> </ul>	2	2	1	1
40	<ul> <li>Guda Vikara (Diseases of Rectum and Anal Canal)</li> <li>1. Surgical Anatomy and Physiology.</li> <li>2. Gudabhramsha (Prolapse of the rectum) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>3. Guda Vidradhi (Anorectal Abscesses) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> </ul>	3	5	4	4

	<ul> <li>4. Bhagandara (Fistula-in-ano) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>5. Arsha - Nidana, Prakara, Samprapti, Lakshana and Chikitsa.</li> <li>6. Haemorrhoids - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>7. Parikartika (Fissure-in-ano) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>8. Guda Arbuda (Benign and Malignant tumours of Rectum and Anal Canal) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>9. Shalyaja Nadi Vrana (Pilonidal Sinus), Guda Paka (Proctitis), Guda Kandu (Pruritis Ani) and Guda Abhighata (Injuries of Anorectal Region) –Clinical features and Management.</li> <li>10. Examination of a Nadivrana (Sinus) and Bhagandara (Fistula).</li> <li>11. Examination of Anorectal Cases.</li> </ul>					
41	<ul> <li>Udarabhighata (Abdominal Injuries)</li> <li>1. Udarabhighata (Abdominal Injuries) – Clinical features and Management.</li> <li>2. Examination of Udarabhighata (Abdominal Injuries).</li> </ul>	3		1	0	2
42	<ul> <li>Yakrit Vikara (Diseases of Liver)</li> <li>1. Yakrit Abhighata (Liver Injury) - Etiology, Clinical features, Diagnosis and Emergency management.</li> <li>2. Yakrit Vidradhi (Liver Abscess) and Yakrit Granthi (Cysts of Liver) - Etiology, Clinical features, Diagnosis and Management.</li> <li>3. Yakrit Arbuda (Benign and Malignant tumours of Liver) - Etiology, Clinical features, Diagnosis, Classification and Management.</li> <li>4. Demonstration of Surgical anatomy of the Liver, Acute Liver Injury on the</li> </ul>	3	15	3	1	10

	<ul> <li>patient/simulator.</li> <li>5. Videographic demonstration of diagnosis and evaluation of Surgical Jaundice on the patient/simulator.</li> <li>6. Group Discussion on the case of Yakrit Abhighata (Acute Liver Injury).</li> <li>7. Practical / Videographic demonstration of Yakritodara (Hepatomegaly) and Yakrit Vidradhi (Liver Abscess) on the patient/simulator.</li> <li>8. Videographic demonstration of Case of Portal Hypertension on the patient/simulator.</li> <li>9. Videographic demonstration of Surgical Management of Portal Hypertension.</li> </ul>					
43	<ul> <li>Management of Portal Hypertension.</li> <li>Pittashaya Vikara (Diseases of Gall Bladder)         <ol> <li>Surgical Anatomy and Physiology, Sahaja Vikara (Congenital Anomalies).</li> <li>Choledochal Cyst and Congenital Biliary Atresia, Pittashaya Ashmari (Cholelithiasis)             <ul> <li>Etiology, Clinical features, Diagnosis, Complications and Management.</li> <li>Pittashaya Shotha (Cholecystitis) and Choledocholithiasis - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>Videographic demonstration of Biliary atresia and its complications on patient/simulation.</li> <li>Videographic demonstration of MRCP and ERCP on the patient/simulator.</li> <li>Demonstration of Pittashaya Shotha (Cholecystitis) on the patient/simulator.</li> <li>Class discussion/Case presentation /Video demonstration/Roleplay/Clinical Diagnosis</li> <li>Diagnosis</li> <li>Class discussion/Roleplay/Clinical Diagnosis</li> <li>Videographic demonstration of Video demonstration/Roleplay/Clinical Diagnosis</li> <li>Cholecystitis) on the patient/simulator.</li> <li>Class discussion/Case presentation /Video demonstration/Roleplay/Clinical Diagnosis</li> <li>Diagnosis</li> </ul></li></ol></li></ul>			2	1	8
44	<ul> <li>Agnyashaya Vikara (Diseases of Pancreas)</li> <li>1. Surgical Anatomy and Physiology, Sahaja Vikara (Congenital Anomalies).</li> <li>2. Agnyashaya Shotha (Pancreatitis) - Etiopathogenesis, Classification, Clinical features, Investigations, Diagnosis, Complications and Management.</li> <li>3. Agnyashaya Granthi (Cysts and Pseudocyst of Pancreas) - Etiopathogenesis, Clinical features, Diagnosis and Management.</li> </ul>	3	5	3	1	6

	<ul> <li>4. Agnyashaya Arbuda (Benign and Malignant tumours of Pancreas), Insulinoma and Zollinger Ellisson Syndrome - Clinical features, Diagnosis and Management.</li> <li>5. Class discussion/Case presentation/Video demonstration/Roleplay of Agnyashaya Abhighata (Pancreatic Injury) and Agnyashaya Shotha (Pancreatitis) on the patient/simulator.</li> <li>6. Presentation/Video demonstration/Roleplay of demonstration of Pseudo Pancreatic cyst on the patient/simulator.</li> <li>7. Class discussion/Case presentation/Video demonstration/Roleplay of demonstration of Agnyashaya Arbuda (Benign and Malignant tumours of Pancreas).</li> </ul>					
45	<ul> <li>5 Pleeha Vikara (Diseases of Spleen) <ol> <li>Surgical Anatomy and Physiology, Sahaja Vikara (Congenital Anomalies).</li> <li>Pleeha Abhighata (Rupture of Spleen) - Etiopathogenesis, Classification, Clinical features, Investigations and Management.</li> <li>Hypersplenism and Pleeha Vridhi (Splenomegaly) - Etiopathogenesis, Classification, Clinical features and Management.</li> <li>Classification, Clinical features and Management.</li> <li>Class discussion/Case presentation/Video demonstration/Roleplay for Demonstration of Pleeha Vridhi (Splenomegaly) on the patient/simulator.</li> </ol> </li> </ul>			3	0	2
46	<ul> <li>Vrikka Evam Mutravahini Vikara (Diseases of Kidney and Ureters)</li> <li>1. Surgical Anatomy and Physiology, Sahaja Vikara (Congenital Anomalies).</li> <li>2. Vrikka Granthi (Polycystic Kidney), Horse shoe Kidney - Etiopathogenesis, Clinical features, Diagnosis and Management.</li> <li>3. Vrikka Evam Mutravahini Vikara Abhighata (Injuries to Kidneys and Ureters) – Clinical features and Management.</li> <li>4. Hydronephrosis - Etiopathogenesis, Classification, Clinical features and Management.</li> <li>5. Pyelonephritis - Etiopathogenesis, Classification, Clinical features and</li> </ul>	3	15	5	4	2

	<ul> <li>Management.</li> <li>6. Vrikka Vidradhi (Perinephric Abscess and Renal Abscess) - Etiopathogenesis, Clinical features and Management.</li> <li>7. Vrikka Ashmari (Renal Calculus) - Etiopathogenesis, Types, Clinical features, Investigations, Complications and Management.</li> <li>8. Mutravahini Ashmari (Ureteric Calculus) - Etiopathogenesis, Classification, Clinical features, Investigations and Management.</li> <li>9. Vrikka Arbuda (Benign and Malignant tumours of the Kidney) - Etiopathogenesis, Classification, Clinical features and Management.</li> <li>10. Class discussion/Case presentation/ Video demonstration/Roleplay of case of Chronic Kidney Disease.</li> </ul>				
47	<ul> <li>Mutrashaya Vikara (Diseases of Urinary bladder)</li> <li>1. Surgical Anatomy and Physiology, Sahaja Vikara (Congenital Anomalies).</li> <li>2. Mutrashaya Shotha (Cystitis) - Etiopathogenesis, Clinical features, Diagnosis and Management.</li> <li>3. Mutrashmari (Vesical Calculus) - Etiopathogenesis, Clinical features, Diagnosis, Investigations and Management.</li> <li>4. Mutrashaya Arbuda (Benign and Malignant tumours of Urinary Bladder) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>5. Video demonstration of the process of Cystoscopy, PCNL and ESWL on the patient/simulator.</li> <li>6. Raktamutrata (Haematuria), Mutra Kshaya (Oliguria), Mutra Sankshaya (Anuria), Neurogenic Bladder - Case evaluation/Class presentation/Roleplay/Group discussion.</li> <li>7. Examination of Urinary case.</li> </ul>	3	3	2	4
48	Mutraghata and Mutrakrichra 1. Mutrakrichra (Dysuria) - Nidana, Samprapti, Prakara, Lakshana, Upadrava and Chikitsa.	3	2	0	2

	<ol> <li>Mutraghata (Retention of Urine) - Nidana, Samprapti, Prakara, Lakshana, Upadrava and Chikitsa.</li> <li>Video demonstration of Suprapubic Catheterization.</li> </ol>					
49	<ul> <li>Paurusha Granthi Vikara (Diseases of Prostate)</li> <li>1. Surgical Anatomy and Physiology.</li> <li>2. Paurusha Granthi Shotha (Prostatitis), Paurusha Granthi Vidradhi (Prostatic Abscess) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>3. Mutrashtheela/Vatashtheela (Benign</li> </ul>	3		3	1	4
	<ul> <li>Prostatic Hyperplasia) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>4. Paurusha Granthi Arbuda (Benign and Malignant tumours of Prostate) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>5. Demonstration of Prostatic Enlargement through Digital rectal examination on the patient/simulator.</li> <li>6. Video demonstration of TURP on the patient/simulator.</li> </ul>					
50	<ul> <li>50 Mutramarga Vikara (Diseases of Urethra)</li> <li>1. Mutramarga Sahaja Vikara (Congenital Anomalies of Urethra) – Etiopathogenesis, Diagnosis and Treatment.</li> <li>2. Mutramarga Shotha (Urethritis) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>3. Mutramarga Abhighata (Injuries to Urethra) and Mutramarga Sankocha (Urethral Stricture) - Clinical features and Management.</li> </ul>			2	1	0
51	Medhra Vikara (Diseases of Penis) 1. Sahaja Vikara - Congenital Anomalies (Hypospadias, Epispadias and Ectopia Vesicae) - Clinical features, Diagnosis, Complications and Management.	3	15	3	2	2

	<ol> <li>Parivartika (Paraphimosis), Avapatika (Preputial Tear) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>Niruddha Prakasha (Phimosis) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>Medhra Paka (Balanoposthitis) - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>Medhra Arbuda (Benign and Malignant tumours of Penis), Peyronie's Disease and Granuloma Inguinale - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>Examination of Male External Genitalia.</li> </ol>				
52	<ul> <li>Mushka Evum Vrishan Vikara (Diseases of Scrotum and Testis)</li> <li>1. Vrishan Shotha (Epididymo-orchitis), Vrishan Granthi (Epididymal Cyst), Vrishan Siraja Granthi (Varicocele), Spermatocele, Scrotal Filariasis - Etiopathogenesis, Clinical features, Diagnosis, Complications and Management.</li> <li>2. Avatarita Vrishan (Undescended Testis), Asthanik Vrishan (Ectopic Testis), Vrishan Vivartan (Torsion of Testis), Vrishan Arbuda (Benign and Malignant tumours of Testis) - Etiopathogenesis, Clinical features, Investigations, Diagnosis, Complications and Management.</li> <li>3. Examination of Mushka (Scrotum) and Vrishan (Testis).</li> <li>4. Examination of Inguino-Scrotal Swelling.</li> </ul>	3	2	0	4
53	<ul> <li>Vriddhi Roga</li> <li>1. Vriddhi Roga - Nidana, Prakara, Lakshana and Chikitsa. Mutravriddhi (Hydrocele)-Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>2. Examination and Differential Diagnosis of Mutravriddhi (Hydrocele).</li> </ul>	3	1	0	2

54	Antravriddhi (Hernia)	3		4	2	4
	<ol> <li>Surgical Anatomy of Inguinal Canal. Hernia (In general) - Definition, Etiology, Classification and Diagnosis.</li> <li>Antravriddhi (Inguinal Hernia) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Vankshanstha Vriddhi (Femoral Hernia) - Surgical Anatomy of Femoral Canal, Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Epigastric Hernia - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Nabhigata Vriddhi (Umbilical Hernia and Para umbilical Hernia) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Shastrotar Vriddhi (Incisional Hernia) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Shastrotar Vriddhi (Incisional Hernia) - Etiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management.</li> <li>Examination of Antravriddhi (Inguinal Hernia), Nabhigata Vriddhi (Imbilical Hernia) and Shastrotar Vriddhi (Incisional Hernia) on the patient/simulator.</li> <li>Video demonstration of Hernia Surgery.</li> </ol>					
Tota	al Marks	1	100	65	38	92

Paper 1	l (Fundar	nentals of Shalya Tantra)										
A3 Cour se out come	Le	B3 arning Objective (At the end of the session, the students should be able to)	e	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
Topic 1	Copic 1 Introduction to Shalya Tantra (Introduction to development of surgery) (LH :1 NLHT: 1 NLHP: 4)											
A3		B3		C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1	Define S	Shalya, Shalya Tantra, and its importance.		СК	DK	К	L&PPT ,REC,L	DEB,PUZ, C-INT,QZ ,P-REC	F&S	Ι	-	LH
CO1	Explain present	Chronological Development of Surgery from ancien era	t to	СК	DK	К	PER,L& PPT ,L	P- EXAM,QZ ,DEB,P- VIVA	F&S	Ι	-	NLHT1.1
CO1, CO3	Perform a comprehensive patient assessment, systematically examine, identify key clinical findings, and effectively communicate them for accurate diagnosis and management.			СК	МК	КН	L,CBL, PT,CD, L&PPT	VV-Viva,P- EXAM,CB A,SBA,Log book	F&S	Ι	-	NLHP1.1
CO1, CO3, CO4	Describe clinical identification and assessment of pain, cyanosis, and clubbing, is crucial for diagnosing various medical conditions.		osis,	СК	МК	KH	D-BED, CBL,C D,PT,L &PPT	P-EXAM,C BA,PP-Prac tical,P-CAS E,DOAP	F&S	Ι	-	NLHP1.2
Non Le	ecture H	our Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
NLHT	1.1	History of surgery	Compi	ilation & F	Presentatio	n						

Non Lecture Hour Practical							
S.No	Name of Practical	Description of Practical Activity					
NLHP 1.1	Surgical case taking	Steps           1. Patient History:           Chief Complaint: Ask the patient to describe their primary concern or symptom.           History of Present Illness: Gather detailed information about the onset, duration, and nature of the symptoms. Ask about any aggravating or relieving factors and associated symptoms.           Past Medical History: Inquire about previous illnesses, surgeries, hospitalizations, and ongoing medical conditions.           Medication History: List all medications the patient is currently taking, including dosages and duration.           Family History: Ask about any relevant medical conditions in the patient's family.           Social History: Explore lifestyle factors such as smoking, alcohol,tobacco chewing.           Review of Systems: Conduct a systematic inquiry about symptoms related to different organ systems to identify any other issues.           2. Physical Examination:           General Examination: Assess the patient's general appearance, vital signs, and overall condition.           Inspection: Observe the area of concern for any visible abnormalities such as swelling, discoloration, or deformities.           Palpation: Feel the area for tenderness, masses, or other abnormalities.           Percussion: Tap the area to assess underlying structures.           Auscultation: Use a stethoscope to listen to any abnormal sounds related to the surgical conditions.           Special Tests: Perform specific tests relevant to the suspected condition.           3. Diagnostic Investigations:           Order relevant laboratory					

		Discuss the differential diagnosis and rationale for the suspected condition. Outline the proposed management plan, including surgical and non-surgical options. <b>Recapitulation:</b> Thorough Assessment: A comprehensive history and physical examination are crucial for accurate diagnosis and effective management of surgical cases. Interdisciplinary Approach: Collaboration with other healthcare professionals ensures a holistic approach to patient care. Patient Communication: Clear and empathetic communication with the patient is essential for building trust and ensuring adherence to the treatment plan.
NLHP 1.2	Special signs and symptoms pertaining to surgery	Steps:
		<ul> <li>1. Identification of Pain: <ul> <li>Objective: <ul> <li>Understand the types and characteristics of pain.</li> </ul> </li> <li>Procedure: <ul> <li>Interview the patient to gather a detailed pain history (location, intensity, duration, quality, and factors that alleviate or worsen it).</li> <li>Use pain assessment scales (e.g., Visual Analog Scale, Numeric Rating Scale) to quantify pain.</li> <li>Observe non-verbal clues and physical signs of pain such as grimacing, guarding, or changes in vital signs.</li> </ul> </li> <li>Identification of Cyanosis: <ul> <li>Objective: <ul> <li>Recognize cyanosis as a sign of decreased oxygenation in blood.</li> </ul> </li> <li>Procedure: <ul> <li>Inspect areas with thin skin (lips, nail beds, earlobes) for bluish discoloration.</li> <li>Observe for central cyanosis (tongue, oral mucosa) vs. peripheral cyanosis (fingers, toes).</li> <li>Perform pulse oximetry to measure oxygen saturation levels.</li> </ul> </li> </ul></li></ul></li></ul>

		3. Identific 4. Post-Ass 5. Student	<ul> <li>Cocarcanterio of Clobjective:         <ul> <li>Ide</li> </ul> </li> <li>Procedure:         <ul> <li>Ide</li> </ul> </li> <li>Procedure:         <ul> <li>Insapp</li> <li>Pe:                 <ul> <li>Insapp</li> <li>Pe:                     <ul> <li>Insapp</li> <li>Pe:                     <ul> <li>Insapp</li> <li>Pe:                     <ul> <li>Insapp</li> <li>Pe:                     <ul> <li>Insapp</li> <li>Pe:                     <ul> <li>Insapp</li> <li>Pe:                           <ul></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul>	ensider und rdiovascula lubbing: entify the p spect the p pearance o rform the s gers toget licates club ote changes minal phat aluate for sease, hear Care: findings a tient educa rther diagn lents to pra- n. nstructive	lerlying con ar issues). ohysical cha atient's fing of clubbing. Schamroth' her to check bbing). s in the ang langes. underlying t disease). ccurately in ation on the nostic tests actice the ar feedback a	nditions causin anges in finger gers for the cha 's window test k for a small d gle between the conditions ass n patient recor e significance o or referrals ba ssessment tech	ng cyanosi mails and a aracteristic (placing t iamond-sh e nail and n sociated w ds. of these sig sed on clin miques on o ensure pr	s (e.g., 1 fingers i rounde he dorsa aped w hailbed ith club gns and hical fin simulat	respiratory indicating ed and bulk al side of b indow; abs and thicke bing (e.g., symptoms dings. cors or peet chnique an	or clubbing. oous ooth index sence ning of the chronic lung chronic lung
	2 Yantra and Snastra (Blunt and snarp instruments)	$\frac{(LH:2 NLHI)}{C3}$		2) F3	F3	C3	нз	13	K3	13
	Define Turnes, Curne, Llege, Deshe, Korme, of Vertra, and						н <u>э</u> Бес	13 T	INJ	
CO1, CO2, CO5	Upayantra along with relevant modern instruments.		MK	ĸ	T	P-VIVA,P- EXAM,PP- Practical,S- LAQ	ГАЗ	1	-	LH

CO1, CO2, CO5	Define 7 Anushas	Types, Guna, Uses, Dosha, Karma of Shastra, and stra along with relevant modern instruments		СК	МК	K	L,L&PP T	P-EXAM,P -VIVA,PP- Practical,Lo g book,INT	F&S	Ι	-	LH	
CO1, CO2 Identify, use, and compare Yantras (traditional Ayurvedic surgical instruments) with modern surgical instruments.		gical	СК	МК	K	D,L&PP T ,L	P-PRF,PP- Practical,P- VIVA,VV- Viva,P- EXAM	F&S	Ι	-	NLHP2.1		
Non Lecture Hour Theory													
S.No Name of Activity Descr			Descri	ption of	Theory A	ctivity							
Non Lecture Hour Practical													
S.No		Name of Practical	Descri	ption of	Practical	Activity							
NLHP 2	2.1	Demonstration, Comparison & classification of instruments	Steps:         1. Introduction to Yantras:         • Provide an overview of various Yantras used in Ayurvedic surgery.         • Highlight the historical significance and traditional uses of these instruments.         2. Identification of Yantras:         • Display different types of Yantras such as:         • Swastika         • Sandansha         • Taal         • Nadi         • Shalaka         • Upyantra										

1	
	3. Comparison with Modern Surgical Instruments:
	• Probes and Catheters:
	<ul> <li>Compare traditional probes with modern flexible catheters and their advanced materials.</li> </ul>
	• Forceps:
	<ul> <li>Highlight the differences between Swastika Yantra and modern hemostatic</li> </ul>
	forceps.
	<ul> <li>Surgical Instruments for Intestinal Surgeries:</li> </ul>
	<ul> <li>Discuss the advancements in modern laparoscopic instruments compared to</li> </ul>
	Antra Yantra.
	• Tubes and Drains:
	<ul> <li>Analyze the evolution from Nadi Yantra to sophisticated suction and drainage</li> </ul>
	systems used today.
	4. Practical Hands-On Training:
	<ul> <li>Allow students to practice using Yantras on simulators or models.</li> </ul>
	• Supervise and provide feedback to ensure proper handling and understanding of
	techniques.
	• Demonstrate the use of corresponding modern instruments for comparison.

## Topic 3 Nirjantukarana (Sterilization) (LH :1 NLHT: 1 NLHP: 4)

		-								
A3	B3	C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1, CO2, CO7	Describe Methods & Types of sterilisation	СК	MK	К	L,L&PP T	P-PS,QZ ,P -VIVA,CL- PR	F&S	Ι	-	LH
CO1, CO7	Explain about Vranitagara	CC	МК	К	L&GD, L_VC,T UT,DIS, PER	M-MOD,P- EXAM,PR N,CL-PR,P- PRF	F&S	Ι	-	NLHT3.1
CO1, CO2,	Discuss aseptic techniques, sterilization methods, and OT sterilization while emphasizing infection control in surgical	CC	MK	SH	FV,FC, PT,D,D-	PP-Practica l,P-MOD,P-	F&S	Ι	-	NLHP3.1

CO3	settings						М	EXAM,P- VIVA,INT				
<ul> <li>CO1, Demonstrate proper hand hygiene, PPE usage, and the correct techniques for donning and doffing gloves and gowns to ensure infection control.</li> </ul>		ect sure	PSY- GUD	МК	SH	DIS,L& GD,D,P T,PER	PRN,P-PRF ,PP-Practic al,SBA,DO PS	F&S	Ι	-	NLHP3.2	
Non Lecture Hour Theory												
S.No Name of Activity			Description of Theory Activity									
NLHT 3	3.1	Vranitagara	Compile the information regarding Vranitagara and compare it with Ideal Surgical Ward									
Non Lecture Hour Practical												
S.No	S.No Name of Practical		Descri	iption of	Practical	Activity						
NLHP 3	3.1	Aseptic techniques, sterilization and disinfection of Surgical instruments, OT sterilization	Steps Aseptic Hand F Perform patient Use of Wear st Prepara Clean t Mainte Use ste Aseptic Avoid of instrum	c Techniq Hygiene: n hand wa contact. Personal terile glov ation of the surgica enance of a crile drape c Handling contact be nents.	ues ashing with Protective ves, masks e Surgical al site with a Sterile Fi es and instru- g of Instru- etween ster	n antiseptio Equipmer , gowns, a Site: antiseptic eld: uments. E ments: ile instrum	c soap or u at (PPE) (if nd eye prot c solutions, nsure all ite nents and n	se an alcohol-b Available) tection to preve such as chlorh ems in the steri	based hand ent contam nexidine or ile field re aces. Use s	sanitiz	er before a one-iodine. ncontamina echnique v	and after ated. when passing

		Sterilization and Disinfection of Surgical Instruments Cleaning: Rinse and scrub instruments with water and detergent to remove organic material. Disinfection: Use chemical disinfectants (e.g., glutaraldehyde, hydrogen peroxide) to reduce microbial load on instruments. Sterilization Methods: Autoclaving: Use steam under pressure at 121-134°C to sterilize heat-resistant instruments. Ethylene Oxide Gas: Suitable for heat-sensitive instruments. Requires aeration post-sterilization. Dry Heat: Use high temperatures (160-180°C) for instruments that can withstand dry heat. Chemical Sterilization: Use liquid chemicals like glutaraldehyde for instruments sensitive to heat and moisture. OT Sterilization Cleaning the Operating Room: Clean all surfaces, including floors, walls, and furniture, with disinfectant solutions. Air Sterilization: Use high-efficiency particulate air (HEPA) filters and ultraviolet (UV) light to sterilize the air. Sterilization of Equipment: Ensure all equipment used in the OT is sterilized or disinfected before use. Environmental Control: Maintain a controlled environment with appropriate temperature, humidity, and ventilation to prevent microbial growth.
NLHP 3.2	Hand washing techniques, Donning of Gloves & Gown	Steps :         Hand Washing Techniques         Preparation:         Remove any jewelry (rings, watches).         Wet hands with clean, running water.         Apply Soap:

Apply enough soap to cover all hand surfaces. Scrub Thoroughly: Rub hands together to create lather. Scrub all surfaces, including the back of hands, between fingers, and under nails, for at least 20 seconds. Focus on thumbs, fingertips, and wrists. Rinse: Rinse hands thoroughly under clean, running water. Dry Hands: Use a clean towel or air dry hands. Use the towel to turn off the tap if applicable. **Donning Gloves** Preparation: Perform hand hygiene before donning gloves. Select Appropriate Gloves: Choose the right size and type of gloves for the task. Don Gloves: Hold the glove at the wrist and insert the opposite hand. Pull the glove on, ensuring a snug fit. Repeat for the other hand. Donning Gown Preparation: Perform hand hygiene before donning the gown. Open the Gown: Hold the gown by the shoulders and allow it to unfold. Don the Gown: Insert arms into the sleeves one at a time. Fasten the gown at the neck and waist to ensure full coverage. Ensure Proper Fit: Adjust the gown to cover your clothing completely.

	Make	e sure the g	own is con	nfortable a	and allows	for movement.				
Topic 4	4 Sangyaharana (Anaesthesia) (LH :2 NLHT: 2 NLHP: 4)									
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO4, CO5	Describe Local Anaesthetic Drugs, Techniques, Indications, Contraindications, Complications, and their Management.	СК	МК	K	L&PPT ,L,L_V C	P-VIVA,M- POS,PP-Pra ctical,CL- PR,QZ	F&S	Ι	-	LH
CO1, CO3, CO5	Explain Regional and General anaesthesia- Drugs, Techniques, Indications, Contraindications, Complications and their Management	CC	МК	K	L,L&PP T ,L&GD	P-PRF,VV- Viva,QZ ,P P-Practical, P-EXAM	F&S	Ι	-	LH
CO1, CO2, CO3, CO5	Describe principles of Preoperative assessment	CC	МК	К	L&GD, FC,D-B ED,CD, L_VC	P-EXAM,V V- Viva,PRN	F&S	Ι	-	NLHT4.1
CO1, CO2, CO4, CO5, CO7	Describe Principles of safe General Surgery	СК	МК	К	L_VC,T UT,DIS, L&GD, BS	P-CASE,D EB,P-ID,P- EXAM,S- LAQ	F&S	I	-	NLHT4.2
CO1, CO2, CO4, CO6	Elaborate the basic principles of CPR.Perform effective chest compressions and rescue breaths.Recognize the signs of cardiac arrest.	САР	МК	КН	KL,D- M,L_V C,SIM, TBL	SP,P-PRF, CHK,P-VI VA,DOPS	F&S	Ι	-	NLHP4.1
CO1, CO2,	Demonstrate airway management techniques, including endotracheal intubation, while emphasizing the importance of	CAP	MK	КН	SIM,D- M,L_V	P-EXAM,C HK,P-VIV	F&S	Ι	-	NLHP4.2

CO4, ma CO6	intaining a clear airway through hands-on practice.	C,L&G A,PP-Practi D,W cal,DOPS								
Non Lectu	ire Hour Theory									
S.No	Name of Activity	Description of Theory Activity								
NLHT 4.1	Preoperative assessment	<ol> <li>Patient interview and medical history collection</li> <li>Physical assessment (vital signs, cardiovascular, respiratory, neurological)</li> <li>Laboratory results review and documentation</li> <li>Medication reconciliation</li> <li>Allergy banding and sensitivity testing</li> <li>Patient education (surgery, anesthesia, postoperative care)</li> <li>Informed consent verification</li> <li>Preoperative checklist completion</li> </ol>								
NLHT 4.2	Safe General Surgery	<ul> <li>Preoperative Principles</li> <li>1. Informed consent: Patient understanding of risks, benefits, and alternatives.</li> <li>2. Accurate diagnosis: Confirm diagnosis before surgery.</li> <li>3. Proper patient preparation: Optimize medical conditions, fasting, and medication.</li> <li>4. Surgical site marking: Verify correct site and side. Intraoperative Principles</li> <li>1. Asepsis and sterilization: Maintain sterile environment.</li> <li>2. Proper anesthesia: Monitor and adjust anesthesia as needed.</li> <li>3. Surgical team communication: Clear communication among team members.</li> <li>4. Hemostasis: Control bleeding promptly.</li> <li>5. Tissue handling: Minimize tissue trauma.</li> <li>Surgical Technique Principles</li> <li>1. Respect tissue planes: Dissect along natural tissue planes.</li> <li>2. Minimize dissection: Limit tissue damage.</li> <li>3. Precise incisions: Make accurate, controlled incisions.</li> <li>4. Gentle tissue retraction: Avoid excessive force.</li> </ul>								

5. Secure closure: Ensure proper wound closure.
Postoperative Principles
1. Monitoring: Observe patient's vital signs and condition.
2. Pain management: Optimize pain relief.
3. Fluid management: Monitor and adjust fluid balance.
4. Wound care: Ensure proper wound dressing and closure.
5. Early mobilization: Promote timely recovery.
General Safety Principles
1. Patient identification: Verify patient identity.
2. Medication safety: Ensure accurate medication administration.
3. Fire safety: Prevent surgical fires.
4. Electrical safety: Prevent electrical shock.
5. Infection control: Maintain proper infection control measures.
Teamwork and Communication Principles
1. Clear communication: Ensure effective team communication.
2. Collaborative care: Foster teamwork among healthcare professionals.
3. Respect for patient autonomy: Prioritize patient-centered care.
4. Continuous learning: Encourage ongoing education and improvement.
5. Debriefing: Conduct postoperative debriefing sessions.
Quality Improvement Principles
1. Monitor outcomes: Track surgical outcomes.
2. Identify errors: Analyze and learn from errors.
3. Implement changes: Improve processes based on data.
4. Continuous quality improvement: Regularly assess and improve care.
5. Patient feedback: Encourage patient feedback.
Surgical Safety Checklist
1. Distribute a surgical safety checklist (e.g., WHO Surgical Safety Checklist).
2. Ask students to review and explain each item.
3. Role-play scenarios to demonstrate checklist usage

Non Lecture Hour Practical				
S.No	Name of Practical	Description of Practical Activity		
NLHP 4.1	Demonstration of BLS (Basic life support)	Steps		
		1. Assess the Situation:		
		Ensure the scene is safe for both the rescuer and the victim.		
		Check the victim for responsiveness by gently tapping and shouting.		
		2. Call for Help:		
		If the victim is unresponsive, call for emergency medical services (EMS) immediately.		
		If possible, ask a bystander to call EMS and fetch an Automated External Defibrillator (AED).		
		3. Check for Breathing:		
		Look, listen, and feel for normal breathing for no more than 10 seconds.		
		If the victim is not breathing or only gasping, begin CPR.		
		4. Chest Compressions:		
		Position yourself over the victim's chest.		
		Place the heel of one hand in the center of the chest, between the nipples. Place your other hand on top.		
		Interlock your fingers and keep your arms straight.		
		Push hard and fast, compressing the chest at least 2 inches deep at a rate of 100-120 compressions per		
		minute.		
		Allow the chest to fully recoil between compressions.		
		5. Rescue Breaths: After 30 compressions, give 2 rescue breaths.		
		Tilt the victim's head back and lift the chin to open the airway.		
		Pinch the nose shut and make a seal over the victim's mouth with yours.		
		Deliver each breath over 1 second, watching for chest rise.		
		Continue the cycle of 30 compressions and 2 breaths.		
		6. Using an AED:		
		When the AED arrives, turn it on and follow the voice prompts.		
		Attach the pads to the victim's bare chest as indicated.		
		Ensure no one is touching the victim while the AED analyzes the heart rhythm.		
		If a shock is advised, clear the area and press the shock button.		

NLHP 4.2       Maintenance of an airway / Endotracheal intubation in a mannequin       Steps         1. Preparation:       Ensure the mannequin is in a supine position.         Gather all necessary equipment: laryngoscope, endotracheal tube, stylet, suction device, bag-valve-mask (BVM), and monitoring devices.       2. Assessment of the Airway:         Check for any obstructions in the mouth and throat.       Position the head to open the airway using the head-tilt-chin-lift maneuver or jaw-thrust maneuver if cervical spine injury is suspected.       3. Pre-oxygenation:         Use a BVM to provide high-flow oxygen to the mannequin for several minutes to ensure adequate oxygenation before intubation.       4. Laryngoscopy:         Hold the laryngoscope in your left hand and insert the blade into the mannequin's mouth, sweeping the tongue to the left.       Visualize the vocal cords using the laryngoscope.         S. Endotracheal Tube Insertion:       Hold the tube rhrough the vocal cords into the trachea.         Remove the stylet once the tube and prevent air leakage.       Inflate the cuff to secure the tube and prevent air leakage.			Resume CPR immediately after the shock.
<ul> <li>6. Confirmation of Tube Placement:</li> <li>Listen for bilateral breath sounds using a stethoscope.</li> <li>Observe chest rise and fall with each breath.</li> <li>Confirm placement with a capnography device to measure exhaled CO2.</li> <li>7. Securing the Tube:</li> <li>Secure the endotracheal tube to the mannequin's mouth using tape or a commercial tube holder.</li> </ul>	NLHP 4.2	Maintenance of an airway / Endotracheal intubation in a mannequin	Steps         1. Preparation:         Ensure the mannequin is in a supine position.         Gather all necessary equipment: laryngoscope, endotracheal tube, stylet, suction device, bag-valve-mask (BVM), and monitoring devices.         2. Assessment of the Airway:         Check for any obstructions in the mouth and throat.         Position the head to open the airway using the head-tilt-chin-lift maneuver or jaw-thrust maneuver if cervical spine injury is suspected.         3. Pre-oxygenation:         Use a BVM to provide high-flow oxygen to the mannequin for several minutes to ensure adequate oxygenation before intubation.         4. Laryngoscopy:         Hold the laryngoscope in your left hand and insert the blade into the mannequin's mouth, sweeping the tongue to the left.         Visualize the vocal cords using the laryngoscope.         5. Endotracheal Tube Insertion:         Hold the endotracheal tube with a stylet (if used) in your right hand.         Guide the tube through the vocal cords into the trachea.         Remove the stylet once the tube and prevent air leakage.         6. Confirmation of Tube Placement:         Listen for bilateral breath sounds using a stethoscope.         Observe chest rise and fall with each breath.         Confirm placement with a capnography device to measure exhaled CO2.         7. Securing the Tube:         Secure the endotracheal tube to the mannequin's mouth using tane or a commercial tube holder.

	8. Post-Intubation Care: Monitor the mannequin for any signs of complications, such as desaturation or abnormal breath
	sounds.
	Ensure proper maintenance of the airway and equipment.

## Topic 5 Trividha Karma (Pre, Operative and Post Operative care) (LH :1 NLHT: 1 NLHP: 2)

					i					
A3	B3	C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO1, CO3, CO4	Describe the importance of Purva Karma -Preoperative procedure , Pradhana Karma – Astavidha shastra karma (in brief) , Paschat Karma – Post operative care of patient	СК	МК	K	L&PPT ,L,L&G D	PP-Practica l,VV-Viva, S-LAQ,T- CS,PRN	F&S	Ι	-	LH
CO1, CO7	Explain the principles of informed consent and effective communication skills to obtain informed consent.	СК	МК	K	SIM,D, L&GD, D- BED,RP	T-CS,P-CA SE,P-VIVA ,P-EXAM,P- PRF	F&S	Ι	-	NLHT5.1
CO1, CO2, CO5, CO6	Demonstrate proficiency in assisting and evaluating common and emergency minor surgical procedures while adhering to standard techniques and protocols.	CE	МК	КН	TBL,CB L,PT,D, KL	PP-Practica l,CHK,DOP S,T-CS,P- EXAM	F&S	Ι	-	NLHP5.1

## Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity	
NLHT 5.1	Informed consent in a simulated environment	<ol> <li>Conduct a simulated patient encounter to obtain informed consent.</li> <li>Role-play different patient scenarios (e.g., emergency, elective, pediatric).</li> <li>Practice clear and concise explanation of:         <ul> <li>Diagnosis</li> <li>Treatment options</li> <li>Risks and benefits</li> </ul> </li> </ol>	

		<ul><li>Alternatives</li><li>Address patient questions and concerns.</li><li>Document informed consent accurately</li></ul>									
Non Lecture	Non Lecture Hour Practical										
S.No	Name of Practical	Description of Practical Activity									
NLHP 5.1	Common minor surgical procedures (Excision of Corn, Cysts, Lipoma, etc)	Steps         Observing and Assisting in Common Surgical Procedures         Preparation:         Review the patient's medical history and procedure details.         Ensure all necessary instruments and materials are sterilized and ready.         Wear appropriate PPE and maintain aseptic technique.         Excision of Corn:         Observation: Watch how the surgeon cleans and anesthetizes the area. Observe the use of a scalpel to excise the corn, ensuring minimal damage to surrounding tissue.         Assistance: Hand instruments to the surgeon, help with hemostasis, and assist with dressing the wound.         Excision of Cyst:         Observation: Note the steps of incision, dissection, and removal of the cyst. Observe the careful handling to avoid rupture.         Assistance: Provide retraction, suction, and help with suturing the incision post-excision.         Excision of Lipoma:         Observation: Watch the incision and blunt dissection techniques used to remove the lipoma. Pay attention to maintaining clear margins.         Assistance: Assist with retraction, instrument handling, and closing the incision with sutures.         Observing Emergency Lifesaving Surgical Procedures         Preparation:         Be prepared for rapid decision-making and action.         Ensure all emergency equipment and instruments are readily available.									
Tonio	emergent Incision and Drainage:         Observation: Observe the identification and drainage of an abscess. Note the steps of incision, drainage, and packing.         Assistance: Provide instruments, manage suction, and help with wound dressing.         Emergency Airway Management (e.g., Tracheostomy):         Observation: Watch how the surgeon identifies landmarks, makes the incision, and inserts the tracheostomy tube.         Assistance: Help maintain a sterile field, handle instruments, and secure the tracheostomy tube.         opic 6. Shastra Karma (Operative procedure) (LH :3 NLHT: 0 NLHP: 10)						ion, the tube.				
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A3	B3		C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO1	Define, indication Contraindications, Types with modern correlations of Chedan, Bhedana, Lekhana		СК	МК	K	L,L&PP T	P- EXAM,QZ ,P-VIVA,D EB,CL-PR	F&S	Ι	-	LH
CO1	1 Define Indications, Contraindications, and Types with modern correlations of Eshana, Aaharana, visravana		СК	МК	K	L,L&PP T ,PER, L_VC	T-CS,PP-Pr actical,VV- Viva,INT,D EB	F&S	Ι	-	LH
CO1	Define Indications Contraindications, and Types with moder correlations of Vedhana, Seevana	'n	СК	МК	K	L&PPT ,L,L_V C	QZ ,PP-Pra ctical,T-CS, VV- Viva,DEB	F&S	Ι	-	LH
CO1, CO2, CO5, CO6	<ul> <li>D1, Explain the principles and importance of first aid.Identify</li> <li>D2, common emergencies requiring first aid,</li> <li>D5, D6</li> </ul>		CC	МК	КН	PT,KL, D- M,D,RP	DEB,VV-V iva,DOPS,P- CASE,SP	F&S	Ι	-	NLHP6.1

CO1, CO2, CO4	<ul> <li>O1, Explain the techniques and principles behind Chhedan, Bhedan,</li> <li>O2, and Lekhan.Demonstrate the steps for each procedure on a</li> <li>simulator.</li> </ul>		CC	МК	КН	BL,DIS, TUT,D, SIM	SP,VV-Viv a,P-EXAM, P- PRF,DOPS	F&S	Ι	-	NLHP6.2	
CO1, CO2, CO4	<ul> <li>D1, Demonstrate necessary practical skills regarding the procedure of</li> <li>D2, Vedhan &amp; Visravan (tapping of the abdomen, hydrocele, and inse</li> <li>O4 rtion of an ICD) using a simulator</li> </ul>		PSY- GUD	МК	КН	D,D-M, SIM,KL ,TUT	DOPS,CH K,P-VIVA, PRN,DEB	F&S	Ι	-	NLHP6.3	
CO1, CO2, CO4Demonstrate necessary practical skills to perform Aharana (extrac tion) and Eshana (probing) using a simulator.		PSY- GUD	МК	КН	D-M,DI S,KL,D, SIM	M-MOD,P RN,CHK,P- PRF,DOPS	F&S	Ι	-	NLHP6.4		
CO1, CO2, CO4Demonstrate the essential skills Seevan (suturing and knots) and minor surgical procedures.		PSY- GUD	МК	КН	PER,D- M,SIM, PT,D	P-VIVA,D OPS,CHK, P- EXAM,SP	F&S	Ι	-	NLHP6.5		
Non Le	ecture H	our Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
Non Le	ecture H	our Practical										
S.No		Name of Practical	Descr	iption of	Practical	Activity						
NLHP (	5.1       First aid       Steps         1. Assess the Situation:       Ensure Safety: Make sure the area is safe for both the rescuer and the victim.         Check for Responsiveness: Tap the victim and shout to see if they respond.       Call for Help:         If the victim is unresponsive or requires immediate medical attention, call emergency services rig away.			ices right								

		Provide clear information about the location and nature of the emergency. 3. Perform Basic First Aid Techniques: a. CPR (Cardiopulmonary Resuscitation): Compression: Perform chest compressions at a rate of 100-120 per minute, compressing at least 2 inches deep. Breaths: Give two rescue breaths after 30 compressions. Continue: Keep performing CPR until help arrives or the victim regains consciousness. b. Control Bleeding: Apply Pressure: Use a sterile cloth or bandage to apply pressure directly to the wound. Elevate: Raise the injured area above the level of the heart if possible. Wrap: Secure the dressing with a bandage or clean cloth. c. Treat Burns: Cool the Burn: Run cool (not cold) water over the burn for at least 10 minutes. Cover: Use a sterile, non-adhesive bandage or clean cloth to cover the burn. Do Not: Avoid applying creams, ointments, or ice directly to the burn. d. Handle Choking: Abdominal Thrusts: For conscious adults and children, perform abdominal thrusts (Heimlich maneuver) to dislodge the object. Back Blows: For infants, alternate 5 back blows and 5 chest thrusts. e. Manage Fractures: Immobilize: Keep the injured limb as still as possible using splints or padding. Elevate: Raise the limb to reduce swelling. Apply Ice: Use ice packs to minimize swelling and pain, but avoid direct contact with the skin.
NLHP 6.2	Demonstartion of Chhedan(Excision), Bhedan(Incision), Lekhan(scraping) on simulator	Steps         Chhedan (Excision)         Preparation:         Ensure all instruments are sterilized.         Position the simulator appropriately and secure it.

1		Identify the area for excision.
		Procedure:
		Use a scalpel to make precise cuts around the lesion or tissue to be removed.
		Excise the tissue completely, ensuring clear margins.
		Control bleeding using hemostatic techniques.
		Close the wound with sutures if necessary.
		Bhedan (Incision)
		Preparation:
		Sterilize instruments and position the simulator.
		Identify the site for incision.
		Procedure:
		Use a scalpel to make a controlled incision in the identified area.
		Ensure the incision is of appropriate length and depth.
		Observe the response of the underlying tissues.
		Manage any bleeding and close the incision with sutures or staples.
		Lekhan (Scraping)
		Preparation:
		Sterilize instruments and position the simulator.
		Identify the area requiring scraping.
		Procedure:
		Use a curette or scraping instrument to gently remove abnormal tissue or debris.
		Apply consistent pressure to avoid damage to underlying healthy tissues.
		Collect and inspect the removed material.
		Clean and dress the treated area.
NLHP 6.3	Demonstration of Vedhan & Visravan (Tapping Of abdomen, Hydrocele, ICD) on simulator	Steps:
		1. Preparation:

		• Ensure all necessary equipment (needles, simulators, antiseptic solutions, gloves, etc.)
		is sterilized and ready.
		• Brief the students on the procedure and safety protocols.
		2. Vedhan Procedure:
		• Tapping of Abdomen:
		<ul> <li>Identify the appropriate anatomical landmarks.</li> </ul>
		• Clean the area with an antiseptic solution.
		• Insert the needle at the correct angle and depth.
		• Collect the fluid sample.
		Hydrocele Tapping:
		• Identify the hydrocele sac.
		• Disinfect the area thoroughly.
		• Insert the needle and aspirate the fluid.
		• ICD (Intercostal Drainage):
		• Locate the intercostal space.
		• Clean the site and administer local anesthesia.
		• Make a small incision.
		• Insert the ICD at the correct angle to drain fluid or air.
		3. Post-Procedure Care:
		• Remove the needle or catheter carefully.
		• Apply a sterile dressing to the site.
		• Monitor for any immediate complications.
		4. Student Practice:
		• Allow students to practice the procedures on the simulator under supervision.
		Provide feedback and correction as needed
NLHP 6.4	Demonstration of Aharana and Eshana (extraction	Steps:
	and probing)on simulator	
		1. Preparation:
		• Gather all necessary equipment (probes, extraction tools, simulators, antiseptic
		solutions, gloves, etc.).
		1

		<ul> <li>Brief the students on the procedure and emphasize the importance of maintaining aseptic conditions.</li> <li>2. Aharana (Extraction) Procedure: <ul> <li>Identify the target area for extraction</li> <li>Clean the area with an antiseptic solution.</li> <li>Use the extraction tool carefully to remove the material or object.</li> <li>Ensure complete extraction to prevent complications.</li> </ul> </li> <li>3. Eshana (Probing) Procedure: <ul> <li>Identify the anatomical landmarks and the area to be probed.</li> <li>Disinfect the area thoroughly.</li> <li>Gently insert the probe to explore and identify obstructions or abnormalities.</li> <li>Be mindful of depth and angle to avoid causing harm.</li> </ul> </li> <li>4. Post-Procedure Care: <ul> <li>Apply a sterile dressing to the site.</li> <li>Monitor the simulator for any immediate complications or reactions.</li> </ul> </li> <li>5. Student Practice: <ul> <li>Allow students to practice the procedures on the simulator under supervision.</li> <li>Provide feedback, highlighting correct techniques and areas for improvement.</li> </ul> </li> </ul>
NLHP 6.5	Demonstration of Seevan(Suturing & Knots) and minor surgical procedures in patient / simulated environment	<ul> <li>Steps:</li> <li>1. Preparation: <ul> <li>Collect all required tools (suture materials, needles, forceps, scissors, antiseptic solutions, gloves, etc.).</li> <li>Brief the students on the different types of sutures and knots, including their indications and techniques.</li> </ul> </li> <li>2. Suturing Procedure: <ul> <li>Wound Assessment:</li> <li>Examine the wound to determine the appropriate suture type and technique.</li> <li>Preparation of the Wound:</li> </ul> </li> </ul>

• Clean the wound thoroughly with an	antiseptic solution.
• Administer local anesthesia if neede	ed.
• Suturing:	
• Choose the appropriate needle and s	uture material.
• Begin suturing using the selected tec	chnique Vellitaka, Gophanika, Tunna
Sevani and Rujugranthi etc. (simple	interrupted, continuous, mattress, etc.).
• Ensure each knot is secure and that the strangulation.	ension is appropriate to avoid tissue
3. Knots Procedure:	
• Types of Knots:	
• Teach students various types of surg	cical knots (square knot, surgeon's knot,
etc.).	
• Practice:	
• Have students practice tying knots v	vith different techniques and materials.
• Emphasize the importance of secure complications.	, reliable knots in preventing wound
4. Minor Surgical Procedures:	
Incision and Drainage:	
<ul> <li>Perform minor procedures like incis</li> </ul>	ion and drainage under supervision.
<ul> <li>Emphasize aseptic techniques and p</li> </ul>	atient safety.
• Biopsy:	
• Teach students how to perform mine preserving tissue samples.	or biopsies, including handling and
5. Post-Procedure Care:	
Remove sutures if applicable, following pro	per timing and technique.
• Apply a sterile dressing and provide wound	care instructions to the patient or
simulation.	
6. Student Practice:	
• Allow students to practice the procedures or	simulators or under the supervision of
patients.	
Provide immediate feedback and guidance to	b ensure proper technique and confidence.

Topic 7	opic 7 Yogya (Experimental Surgical Training) (LH :1 NLHT: 0 NLHP: 8)										
A3		B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO5	Appreciate the surgical practic	e importance of simulation based teaching in ce (Yogya Vidhi)	СК	МК	K	L&PPT ,L&GD, L	P-EXAM,D EB,PRN,Q Z ,PP- Practical	F&S	Ι	-	LH
CO1, CO2, CO4, CO5, CO6	Demonstrate the erization safely	he necessary skills and knowledge to perform ca y and effectively on patients	athet PSY- GUD	МК	KH	PT,D-M ,D,SDL, L_VC	P-RP,PP-Pr actical,DOP S,CHK,M- MOD	F&S	Ι	-	NLHP7.1
CO1, CO2, CO6	Demonstrate tl ion, as well as	he essential skills of performing IM and IV can intradermal and subcutaneous injections	PSY- GUD nulat	МК	КН	W,CBL, PT,SDL ,SIM	PRN,PP-Pr actical,DOP S,P-CASE, P-VIVA	F&S	Ι	-	NLHP7.2
CO1, CO2, CO4, CO6	Demonstrate the practical skills ensuring profice	he necessary to perform the insertion of Ryle's tub ciency and patient safety.	PSY- GUD pe,	МК	КН	PT,L_V C,D,D- BED,W	P-EXAM,D OPS,P-RE C,P-MOD, P-PRF	F&S	Ι	-	NLHP7.3
<ul> <li>CO1, Explain indications for surgical drain insertion along with the proper technique for surgical drain insertion. Describe post-operative care for surgical drains.</li> <li>CO6</li> </ul>		CC	МК	КН	SIM,KL ,D,L_V C,TUT	VV-Viva,P- PRF,DOPS, P-VIVA,SP	F&S	Ι	-	NLHP7.4	
Non Le	ecture Hour T	Theory									
S.No Name of Activity Description of Theory Activity											

on Lecture Hour Practical					
Name of Practical	Description of Practical Activity				
Catheterization -Hands-on training on Simulators	Steps:				
	<ul> <li>Steps:</li> <li>1. Preparation: <ul> <li>Gather all required equipment (catheters, lubricants, antiseptic solutions, gloves, sterile drapes, etc.).</li> <li>Educate students on the indications, contraindications, and potential complications of catheterization.</li> </ul> </li> <li>2. Catheterization Procedure: <ul> <li>Patient Preparation:</li> <li>Explain the procedure to the patient and obtain informed consent.</li> <li>Position the patient comfortably and ensure privacy.</li> <li>Clean the genital area with an antiseptic solution to reduce infection risk.</li> </ul> </li> <li>Insertion of Catheter: <ul> <li>Choose the appropriate size and type of catheter.</li> <li>Lubricate the catheter tip generously.</li> <li>Gently insert the catheter into the urethra, guiding it towards the bladder.</li> <li>Ensure urine flow into the catheter before inflating the balloon (if using a Foley catheter).</li> <li>Secure the catheter to place and attach the drainage bag.</li> </ul> </li> <li>Post-Insertion Care: <ul> <li>Secure the catheter tubing to prevent accidental dislodgment.</li> <li>Monitor the patient for any discomfort or complications.</li> <li>Educate the patient on catheter care and signs of potential issues.</li> </ul> </li> <li>3. Catheter Removal: <ul> <li>Deflate the balloon (if using a Foley catheter).</li> <li>Gently withdraw the catheter, ensuring minimal discomfort to the patient.</li> </ul> </li> </ul>				
	Name of Practical         Catheterization -Hands-on training on Simulators				

		<ul> <li>4. Post-Procedure Care: <ul> <li>Clean the area around the urethra.</li> <li>Provide instructions on hydration and hygiene.</li> <li>Monitor the patient for any immediate complications.</li> </ul> </li> <li>5. Student Practice: <ul> <li>Allow students to practice the procedure on simulators or under the supervision of patients.</li> <li>Provide constructive feedback and guidance to ensure correct technique and patient safety.</li> </ul> </li> </ul>
NLHP 7.2	IV canulation, IM / IV / Subcutaneous / Intradermal Injection	Steps:
		<ul> <li>1. Preparation: <ul> <li>Collect all necessary equipment (needles, syringes, cannulas, antiseptic solutions, gloves, sterile drapes, etc.).</li> <li>Educate students on the indications, contraindications, and potential complications of each procedure.</li> </ul> </li> <li>2. IM (Intramuscular) Injection: <ul> <li>Site Selection:</li> <li>Choose the appropriate muscle (deltoid, gluteus, vastus lateralis, etc.).</li> </ul> </li> <li>Preparation: <ul> <li>Clean the injection site with an antiseptic solution.</li> <li>Prepare the syringe and needle with the prescribed medication.</li> </ul> </li> <li>Injection: <ul> <li>Insert the needle at a 90/45degree angle.</li> <li>Aspirate to ensure the needle is not in a blood vessel.</li> <li>Inject the medication slowly and steadily.</li> <li>Remove the needle and apply a sterile dressing.</li> </ul> </li> <li>3. IV (Intravenous) Cannulation: <ul> <li>Identify a suitable vein, typically in the forearm or hand.</li> </ul> </li> </ul>

- Preparation:
  - Clean the site with an antiseptic solution.
  - Apply a tourniquet to engorge the vein.
- Cannulation:
  - Insert the cannula at a shallow angle, ensuring blood flashback.
  - Advance the cannula into the vein and remove the needle.
  - Secure the cannula and attach the IV line or cap.

#### 4. Intradermal Injection:

- Site Selection:
  - Typically performed on the forearm or upper back.
- Preparation:
  - Clean the site with an antiseptic solution.
  - Prepare the syringe with a fine needle and the prescribed substance.

#### • Injection:

- Insert the needle at a 10-15 degree angle, just under the skin.
- Inject a small amount of the substance, forming a small bleb.
- Remove the needle and avoid massaging the area.

#### 5. Subcutaneous Injection:

- Site Selection:
  - Common sites include the abdomen, thigh, or upper arm.
- Preparation:
  - Clean the site with an antiseptic solution.
  - Prepare the syringe and needle with the prescribed medication.
- Injection:
  - Pinch the skin to create a subcutaneous fold.
  - Insert the needle at a 45-degree angle.
  - Inject the medication slowly and steadily.
  - Remove the needle and apply a sterile dressing.

#### 6. Post-Procedure Care:

- Monitor the patient for any immediate adverse reactions.
- Provide instructions on care and potential side effects.

#### 7. Student Practice:

		• Allow students to practice the procedures on simulators or under the supervision of patients.
		• Provide constructive feedback and guidance to ensure correct technique and patient safety.
NLHP 7.3	Hands On Training- Ryle's tube Insertion	Steps:
		1. Preparation:
		• Gather all necessary equipment (Ryle's tube, lubricants, antiseptic solutions, gloves, sterile drapes, etc.).
		• Educate students on the indications, contraindications, and potential complications of each procedure.
		2. Ryle's Tube Insertion:
		Patient Preparation:
		• Explain the procedure to the patient and obtain informed consent.
		• Position the patient in a semi-upright position.
		• Clean the nostril with an antiseptic solution.
		• Insertion Procedure:
		• Lubricate the tip of Ryle's tube
		<ul> <li>Gently insert the tube through the nostril, directing it downwards and backward.</li> </ul>
		• Encourage the patient to swallow to facilitate passage of the tube into the stomach.
		• Verify the position of the tube by aspirating stomach contents or injecting air and listening with a stethoscope.
		Secure the tube to the patient's nose with adhesive tape.
		3. Removal of Ryle's tube :
		• Explain the procedure to patients

		• Remove slowly & smoothly using an aseptic technique.
		Clean the surrounding area
		<ol> <li>Post-Procedure Care:         <ul> <li>Monitor the patient for any immediate complications.</li> <li>Ensure the tubes and drains are functioning correctly.</li> <li>Provide instructions on care and monitoring of the tubes</li> </ul> </li> </ol>
NLHP 7.4	Hands-on training -Drains	<ul> <li>Steps for Surgical Drain Insertion:</li> <li>Pre-Insertion <ol> <li>Assess the patient's need for a surgical drain.</li> <li>Choose the appropriate drain type (e.g., Penrose, Jackson-Pratt).</li> <li>Prepare equipment and sterile field.</li> <li>Insertion <ol> <li>Make a small incision (1-2 cm) at desired site.</li> <li>Bluntly dissect tissue to create a tract.</li> <li>Insert drain through the tract, ensuring proper placement.</li> <li>Secure the drain with sutures or staples.</li> </ol> </li> <li>Post-Insertion <ol> <li>Connect the drain to the collection device.</li> <li>Document drain insertion and patient's response.</li> <li>Provide post-operative care and instructions.</li> </ol> </li> <li>Potential Complications: <ol> <li>Infection</li> <li>Hemorrhage</li> <li>Damage to surrounding structures</li> <li>Drain occlusion or malfunction</li> <li>Post-Operative Care:</li> <li>Monitor drain output and adjust as needed.</li> </ol> </li> </ol></li></ul>

			2. Main 3. Prov 4. Rem	ntain drain vide woun nove the d	n patency. d care. rain when	indicated						
Topic	8 Marn	na (Vital points) (LH :2 NLHT: 0 NLHP: 2)										
A3		B3		C3	D3	E3	<b>F</b> 3	G3	Н3	I3	K3	L3
CO1, CO7	Explain detail.E	n Marma-Nirukti and the classifications of Marma in Explain Individual Marma Viddhalakshana.		CC	МК	К	L&GD, L,L&PP T	DOPS,VV- Viva,DOPS ,QZ ,P- EXAM	F&S	Ι	-	LH
CO1, CO6, CO7	Explain	Marmaghata chikitsa and its surgical importance		CC	МК	К	L&GD, D,L&PP T,L_V C,PER	VV-Viva,P P-Practical, T-CS,CBA, P-EXAM	F&S	Ι	-	LH
CO1, CO3, CO7	<ul> <li>CO1, Identify Marma points and their manipulation techniques for</li> <li>CO3, treating musculoskeletal disorders (Frozen shoulder, tennis elbow</li> <li>CO7 intervertebral disc prolapse, cervical spondylosis) and sports</li> <li>injuries.</li> </ul>			CC	DK	КН	D-M,L &PPT, W,SIM, PT	PP-Practica l,P-EXAM, P-CASE,P- VIVA,DEB	F&S	Ι	-	NLHP8.1
Non L	ecture H	Iour Theory										
S.No		Name of Activity	Descri	iption of	Theory A	Activity						
Non L	n Lecture Hour Practical											
S.No		Name of Practical	Descri	iption of	Practica	l Activity	y					
NLHP 8.1         Marma identification and manipulation techniques in musculoskeletal disorders and Sports injuries         Ste			Steps:									

#### 1. Preparation:

- Gather necessary materials (anatomical charts, markers, massage oils, gloves, etc.).
- Brief students on the significance of Marma points and their role in Ayurveda for musculoskeletal and sports-related conditions.

## 2. Identification of Marma Points:

#### • Frozen Shoulder:

- Locate the vital Marma points around the shoulder girdle, such as Amsa Marma.
- Tennis Elbow:
  - Identify Marma points around the elbow region, focusing on Kurpara Marma.

#### • Intervertebral Disc Prolapse:

• Determine the Marma points along the spine, particularly Kati and Pristha Marma.

## • Cervical Spondylosis:

• Pinpoint Marma points in the neck region, including Griva Marma.

## • Sports Injuries:

• Identify relevant Marma points specific to the injury location, ensuring a holistic approach to treatment.

## 3. Manipulation Techniques:

#### • Massage Techniques:

- Apply gentle pressure and circular motions on the identified Marma points using massage oils.
- Demonstrate various massage strokes that stimulate blood flow and reduce inflammation.
- Pressure Application:
  - Teach students how to apply the right amount of pressure on Marma points without causing discomfort.
  - Emphasize the importance of patient feedback during manipulation.
- Stretching and Mobilization:
  - Combine Marma point manipulation with gentle stretching and joint mobilization exercises.
  - Focus on improving range of motion and reducing muscle tension.

	4. Practical Demonstration:
	<ul> <li>Allow students to practice Marma point identification and manipulation techniques on</li> </ul>
	simulators or peers.
	<ul> <li>Supervise and provide feedback on their technique and approach.</li> </ul>
	5. Post-Procedure Care:
	<ul> <li>Advice on post-manipulation care, including rest, hydration, and gentle exercises.</li> </ul>
	<ul> <li>Monitor for any immediate adverse reactions or discomfort.</li> </ul>

# Topic 9 Kshara Karma (LH :2 NLHT: 2 NLHP: 4)

A3	B3	C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO1, CO2, CO5	Describe Nirukti, Pradhanyata, Guna, Dosha, Karma, Prakara of KsharaExplain Arhata, Anarhata, Pradhan karma, Upadrava, and Chikitsa of Ksharkarma	СК	MK	K	L,L&PP T	PRN,P-ID, P-VIVA,IN T,PP- Practical	F&S	Ι	-	LH
CO1, CO2	Describe the clinical application of Ksharasutra, Kshara Pratisaran, Ksharataila, Ksharavarti, and Ksharodaka in different surgical conditions.	СК	МК	К	L,L_VC ,L&PPT	P-EXAM,P -PRF,T-CS, PP-Practica 1,VV-Viva	F&S	Ι	V-RS,V- RS	LH
CO1, CO2, CO7	Appraise and demonstrate Kshar and Ksharsutra preparation along with its application in Ayurveda	CE	МК	КН	D,TUT, L&PPT ,CBL,D IS	CL-PR,P-E XAM,VV- Viva,PP-Pr actical,INT	F&S	Ι	-	NLHT9.1
CO1, CO2, CO4, CO7	Describe the proper handling and care of a patient undergoing Kshrasutra therapy and the importance of sterile techniques during Kshrasutra changing.	CE	МК	КН	L_VC,S IM,TUT ,D	DOPS,PRN ,QZ ,T- CS,P-PRF	F&S	Ι	-	NLHT9.2
CO1, CO2,	Appraise the concepts and indications of Ksharodaka, Kshartaila, Ksharvarti, and Ksharpichu, including their preparation methods,	CE	MK	КН	L_VC,F C,TUT,	DOPS,PRN ,P-VIVA,V	F&S	Ι	V-RS,V- RS	NLHP9.1

CO4, CO7	uses, do	sages, and application techniques.					TBL,D	V-Viva,P- EXAM						
CO1, CO2, CO4, CO7	Elabora Anorect	te on the concept and technique of Kshar Karma in al disorders.		CC	МК	KH	D,SIM, D-BED, TUT,PT	P-VIVA, C- VC,T-CS,P P-Practical	F&S	I	-	NLHP9.2		
Non Le	ecture H	lour Theory				-								
S.No		Name of Activity	Description of Theory Activity											
NLHT	9.1	Demonstration of Kshar & Kshara Sutra – Preparation, and Method of Application	<ul> <li>Kshar : Activities:</li> <li>1. Lecture: Introduction to Kshar, its history, and principles.</li> <li>2. Demonstration: Preparation of Kshar using different materials (e.g., Apamarga, Ark).</li> <li>3. Hands-on training: Students prepare Kshar under supervision.</li> <li>4. Discussion: Quality control measures, safety precautions, and storage.</li> <li>5. Practical exercise: Identify and analyze different types of Kshar.</li> <li>Ksharsutra : Activities:</li> <li>1. Lecture: Introduction to Ksharsutra, its history, and principles.</li> <li>2. Demonstration: Preparation of Ksharsutra using different threads (e.g., Snuhi, Apamarga).</li> <li>3. Hands-on training: Students prepare Ksharsutra under supervision.</li> <li>4. Discussion: Thread selection, preparation, and quality control.</li> <li>5. Practical exercise: Apply Ksharsutra on a dummy model</li> <li>Common Activities:</li> <li>1. Visit to a pharmacy or manufacturing unit.</li> <li>2. Interaction with experts in Kshar and Ksharsutra preparation.</li> <li>3. Group discussion: Case studies, indications, contraindications.</li> <li>4. Written examination: Theory and practical application.</li> </ul>							;a).				
NLHT 9	9.2	Ksharsutra changing	Steps-											

NLHP 9.1	Application of Ksharodaka, Kshartaila,	Steps -
S.No	Name of Practical	Description of Practical Activity
Non Lecture I	Iour Practical	
Non Lecture H	Hour Practical	<ol> <li>Review of patient selection and preparation.</li> <li>Discussion of necessary equipment and materials.</li> <li>Demonstration         <ol> <li>Patient positioning and draping.</li> <li>Sterile technique demonstration.</li> <li>Kshrasutra removal and inspection.</li> <li>Cleaning and preparation of the site.</li> <li>Re-insertion of new Kshrasutra.</li> <li>Securement and dressing application.</li> <li>Patient education and post-procedure instructions.</li> </ol> </li> <li>Post-Demonstration         <ol> <li>Discussion: Common challenges and complications.</li> <li>Hands-on practice: Students practice Kshrasutra changing under supervision.</li> <li>Debriefing: Review of key takeaways and Q&amp;A.</li> <li>Key Takeaways:                 <ol> <li>Maintain sterile technique throughout the procedure.</li> <li>Ensure proper patient positioning and draping.</li> <li>Inspect the Kshrasutra and site before removal.</li> <li>Clean and prepare the site thoroughly.</li> <li>Re-insert the new Kshrasutra with precision.</li> <li>Secure and dress the site properly.</li> <li>Provide clear patient education and post-procedure instructions.</li> <li>Monitor for potential complications.</li> </ol> </li> </ol></li></ol>
		Pre-Demonstration 1. Lecture: Overview of Kshrasutra therapy, indications, and contraindications.

		Ksharvarti, Ksharpichu in Dushtavrana	Itavrana1. Demonstration: Preparation of Ksharodaka, Kshartaila, Ksharvarti, 2. Hands-on training: Application techniques. 3. Practice: Students apply therapies under supervision. 4. Group discussion: Challenges and solutions.   Key Points: 1. Ksharodaka: Liquid Kshar for wound cleansing. 2. Kshartaila: Medicated oil for wound healing. 3. Ksharvarti: Kshar impregnated thread for wound cleaning.4. Ksharpichu: Kshar-soaked cotton swab for wound cleaning.						arvarti, an	ırti, and Ksharpichu.				
NLHP	NLHP 9.2       Demonstration and Hands-on training of Kshar karma in Anorectal disorders (Arsha, Bhagandara, Nadivrana)       Ste         1. I       2. I         3. I       4. 0         1. I       2. I         3. I       3. I         4. 0       3. I         1. I       3. I			- cal monstratio nds-on trai ctice: Stud oup discuss al e patient d servational eractive ses	n: Preparat ning: Appl ents apply sion: Chall emonstrati learning: ssion: Q&A	tion of Ksl ication teo Kshar Ka enges and on: Kshar Students o A and disc	har for Arsl chniques fo rma under solutions. Karma app observe exp cussion.	na, Bhagandara r Kshar Karma supervision. olication. ert application	a, and Nad 1.	ivrana.				
Topic	10 Agni	ikarma (LH :2 NLHT: 0 NLHP: 4)	I											
A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3		
CO1, CO4, CO5	Describ Ayogya	e the Mahatva, Upakarana, Vidhi, Akrutibheda, Yog a, and Upadrava Chikitsa of Agnikarma.	ya,	СК	МК	КН	L,DIS,D ,L&PPT	P- MOD,Log book,M- CHT,CBA, C-VC	F&S	Ι	_	LH		

CO1, CO2, CO4	Explain lakshan	Pramad Dagdha, Dhumopahat & Ushna vatatatap da & Chikitsa	agdha	СК	MK	KH	PER,L, L_VC,L &PPT	PM,PRN,C L-PR, C- VC,P-REC	F&S	Ι	-	LH	
CO1, CO2, CO4, CO7	<ul> <li>O1, Discuss practical skills in performing Agnikarma for pain management in Gridhrasi (sciatica) and Avabhavuka (neuralgia 04, 207</li> <li>O1, Discuss practical skills in performing Agnikarma for the</li> </ul>		gia).	CC	МК	КН	D,PrBL, D-M,D- BED,D L	VV-Viva,P- EXAM,P-S UR,P- VIVA,SP	F&S	Ι	-	NLHP10.1	
CO1, CO2, CO4, CO7	<ul> <li>CO1, Discuss practical skills in performing Agnikarma for the management of surgical diseases such as Arsha (Hemor CO4, and Charmakeel (warts).</li> <li>CO7</li> </ul>		ds)	CC	МК	КН	PT,SIM, L&GD, D-M	VV-Viva,P- PRF,PP-Pra ctical,P-CA SE,M- MOD	F&S	Ι	-	NLHP10.2	
Non Le	Non Lecture Hour Theory												
S.No	S.No Name of Activity I		Desci	ription of	Theory A	ctivity							
Non Le	ecture H	lour Practical											
S.No		Name of Practical	Description of Practical Activity										
S.NoName of PracticalDescription of Practical ActivityNLHP 10.1Hands-on experience with Agnikarma in the pain management of any one disease (Gridhrasi, Avabahuka, etc)Preparation Steps: Patient History and Assessment													
<ol> <li>Collect detailed patient history, including the onset, duration, and nature of pain. Docume any previous treatments and their outcomes.</li> <li>Physical Examination: Perform a thorough examination to assess the affected area, noting tenderness, swelling, or restricted movement.</li> <li>Informed Consent: Explain the Agnikarma procedure to the patient, including its benefits potential risks, and obtain informed consent.</li> <li>Equipment Setup: Prepare the necessary equipment, including the Agnikarma instrument</li> </ol>					Document , noting any penefits and rument								

		Agnikarma Procedure
		<ol> <li>Sterilization: Sterilize the Shalaka and the area to be treated.</li> <li>Application of Heat: Heat the Shalaka until it becomes red-hot.</li> <li>Application to the Skin: Gently touch the heated Shalaka to the skin over the affected area, creating a small burn1. Repeat this process as needed to ensure minimal discomfort to the patient.</li> <li>Post-procedure Care: Apply a soothing ointment and cover the treated area with a sterile dressing. Provide post-procedure care instructions to the patient.</li> </ol>
		Hands-on Practice with Simulators
		<ol> <li>Simulator Setup: Use a simulator to practice the Agnikarma technique, ensuring participants become familiar with the procedure and handling of the equipment.</li> <li>Practice Sessions: Allow participants to practice the Agnikarma technique on the simulator, focusing on precision and minimizing discomfort.</li> <li>Feedback and Debriefing: Provide constructive feedback and conduct a debriefing session to discuss findings and areas for improvement.</li> </ol>
NLHP 10.2	Demonstration of Agnikarma in the management of any one surgical disease (Arsha, Charmakeel, etc)	Preparation Steps: Patient History and Assessment
		<ol> <li>Gather History: Collect detailed patient history, including the onset, duration, and nature of the condition. Document any previous treatments and their outcomes.</li> <li>Physical Examination: Perform a thorough examination to assess the affected area, noting the size, location, and characteristics of the lesions.</li> </ol>
		Preparation for Agnikarma

		1. Infor poter 2. Equij (Shal 3. Patie Agnikarma	mec atial ome aka nt P Pro	d Consent: risks, and ent Setup: 1 ), a heat so Positioning cedure	Explain the obtain inf Prepare the ource (e.g. Position	he Agnikar formed con e necessary , flame), ar the patient	ma procedure sent. equipment, in d sterile mate comfortably, o	to the pation the pation the second second the patient of the patient the patient of the patient the patient of the patient the patient of the patient the patient	ent, incl ne Agnil asy acce	luding its t karma inst ess to the a	penefits and rument affected area.
		1. Steril 2. Appl 3. Appl a frac disco 4. Post- dress Hands-on Pr	izat icat icat tion mfc Pro- ing. <b>ract</b>	tion: Steril ion of Hea ion to the s n of a seco ort to the p cedure Cas . Provide p <b>ice with S</b>	ize the Sh t: Heat the Skin: Gen nd or as re atient. re: Apply oostproced imulators	alaka and the Shalaka u tly touch the equired. Re Ghrit Kuma lure care ins	he area to be the ntil it becomes he heated Shala peat this proces ari pulp over t structions to the	reated. s red-hot. aka to the l ess as need he treated he patient.	lesions o led, enst area, an	on the affe uring mini id cover it	cted area for mal with a sterile
		1. Simu becor 2. Pract focus	lato ne f ice ing	or Setup: U familiar w Sessions: . on precisi	se a simul ith the pro Allow part on and mi	lator to prac ocedure and ticipants to inimizing d	ctice the Agnil handling of th practice the A iscomfort.	karma tech ne equipma agnikarma	nnique, o ent. techniq	ensuring p ue on the s	articipants simulator,
Topic 1	1 Raktamokshana (LH :3 NLHT: 0 NLHP: 6)										
A3	B3	C3		D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO1, CO2, CO4	Describe Raktamokshana Mahatva and Prakara of Siraved	na, CK		MK	КН	L&PPT ,L	T-CS,CL- PR	F&S	Ι	-	LH

CO1, CO2, CO4	Explain Upadrav	Pracchanna, Shringa, Alabu procedure, Yogya, Ayo a and Chikitsa.	ogya,	СК	MK	КН	L&PPT ,L	Log book,C L-PR,T-CS	F&S	Ι	-	LH
CO1, CO2, CO4	Explain Upadrav	Jaloukavacharana - Yogya, Ayogya, Procedure, va and Chikitsa.		СК	МК	КН	L&PPT ,L	T-CS,CL- PR	F&S	Ι	-	LH
CO1, CO2, CO4, CO7	<ul> <li>Describe siravedha (venesection) with its indications, techniques, and therapeutic benefits for disease-modifying management of conditions such as Gridhrasi (sciatica) and Uttan Vatarakta (acute gout).</li> </ul>		CC	МК	КН	PT,D-M ,W,SIM, L&PPT	P-PRF,P-E XAM,M-C HT,SP,P- VIVA	F&S	Ι	-	NLHP11.1	
CO1, CO2, CO4, CO7	Explain techniqu manage stiffness	the Alabu (cupping) procedure along with its indica ues, and therapeutic benefits for disease-modifying ment of conditions such as Kati-graha (lower back a) and Manya-graha (neck stiffness).	tions,	CC	МК	КН	PT,L&P PT ,SIM ,D-M	P-POS,P-C ASE,P-VIV A,M-MOD, P-EXAM	F&S	Ι	-	NLHP11.2
CO1, CO2, CO4, CO7	Discuss indicatio modifyi Kushta	Jaloukavacharana (Leech therapy) along with its ons, techniques, and therapeutic benefits for disease- ng management of conditions like Vidhradi (abscess (skin disorders).	s) and	CC	МК	КН	SIM,D- M,PT,L &PPT	P-RP,PM,P -CASE,P- MOD,RK	F&S	Ι	-	NLHP11.3
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
Non Le	on Lecture Hour Practical											
S.No	S.No Name of Practical Des			iption of	Practical	Activity						
NLHP 11.1       Siravedha in the management of any one surgical disease (Grudhrasi, Uttan Vatarakta, etc)       Prep         Prep       Prep			Prepa Patien	ration Ste at History	eps: and Asses	sment						

- 1. Gather History: Collect detailed patient history, including the onset, duration, and nature of symptoms. Document any previous treatments and their outcomes.
- 2. Physical Examination: Perform a thorough examination to assess the affected area, noting any tenderness, swelling, or restricted movement.

#### **Preparation for Siravedha**

- 1. Informed Consent: Explain the Siravedha procedure to the patient, including its benefits and potential risks, and obtain informed consent.
- 2. Equipment Setup: Prepare the necessary equipment, including a sterile lancet or needle, a tourniquet, antiseptic solution, and sterile dressings.
- 3. Patient Positioning: Position the patient comfortably, ensuring easy access to the selected venesection site.

## Siravedha Procedure

- 1. Sterilization: Clean the selected site with an antiseptic solution.
- 2. Application of Tourniquet: Apply a tourniquet above the selected site to engorge the veins.
- 3. Venesection: Use a sterile lancet or needle to puncture the vein, allowing a controlled amount of blood to flow out. Monitor the patient closely during the procedure.
- 4. Post-Procedure Care: Remove the tourniquet, apply pressure to the site, and cover it with a sterile dressing. Provide post-procedure care instructions to the patient.

# Hands-on Practice with Simulators

- 1. Simulator Setup: Use a simulator to practice the Siravedha technique, ensuring participants become familiar with the procedure and handling of the equipment.
- 2. Practice Sessions: Allow participants to practice the Siravedha technique on the simulator,

		<ul><li>focusing on precision and minimizing discomfort.</li><li>3. Feedback and Debriefing: Provide constructive feedback and conduct a debriefing session to discuss findings and areas for improvement.</li></ul>
NLHP 11.2	Alabu (cupping) procedure in the management of any one surgical disease (Kati Graham, Manya Graha, etc)	Preparation Steps: Patient History and Assessment
		<ol> <li>Gather History: Collect detailed patient history, including the onset, duration, and nature of symptoms. Document any previous treatments and their outcomes.</li> <li>Physical Examination: Perform a thorough examination to assess the affected area, noting any tenderness, stiffness, or restricted movement.</li> </ol>
		Preparation for Alabu
		<ol> <li>Informed Consent: Explain the Alabu procedure to the patient, including its benefits and potential risks, and obtain informed consent.</li> <li>Equipment Setup: Prepare the necessary equipment, including cupping glasses, a heat source, antiseptic solution, and sterile materials.</li> <li>Patient Positioning: Position the patient comfortably, ensuring easy access to the affected area.</li> </ol>
		Alabu Procedure
		<ol> <li>Sterilization: Clean the selected site with antiseptic solution.</li> <li>Heating the Cupping Glasses: Heat the inside of the cupping glasses using a flame to create a vacuum.</li> </ol>

		<ol> <li>Application to the Skin: Quickly place the heated cupping glasses on the affected area, allowing the vacuum to draw the skin into the glass. This enhances blood flow and alleviates stiffness.</li> <li>Duration: Leave the cupping glasses in place for about 10-15 minutes, monitoring the patient for any discomfort.</li> <li>Removal: Gently remove the cupping glasses and clean the treated area. Apply a soothing Taila / Lepa / Ghrit-kumari pulp.</li> </ol>
		Hands-on Practice with Simulators
		<ol> <li>Simulator Setup: Use a simulator to practice the Alabu technique, ensuring participants become familiar with the procedure and handling of the equipment.</li> <li>Practice Sessions: Allow participants to practice the Alabu technique on the simulator, focusing on precision and patient comfort.</li> <li>Feedback and Debriefing: Provide constructive feedback and conduct a debriefing session to discuss findings and areas for improvement.</li> </ol>
NLHP 11.3	Jaloukavcharana (Leech Therapy) in the management of any one surgical disease (Vidradhi, Dushtavrana, Koth, etc)	Preparation Steps: Patient History and Assessment
		<ol> <li>Gather History: Collect detailed patient history, including the onset, duration, and nature of symptoms. Document any previous treatments and their outcomes.</li> <li>Physical Examination: Perform a thorough examination to assess the affected area, noting any signs of inflammation, infection, or skin changes.</li> </ol>
		Preparation for Jaloukavacharana
		1. Informed Consent: Explain the Jaloukavacharana procedure to the patient, including its benefits and potential risks, and obtain informed consent.

			<ol> <li>2. Equipment Setup: Prepare the necessary equipment, including medicinal Leeches, solution, and sterile materials.</li> <li>3. Patient Positioning: Position the patient comfortably, ensuring easy access to the a</li> </ol>							antiseptic		
			Jaloukavacharana Procedure									
			<ol> <li>Sterilization: Clean the selected site to make it sterile.</li> <li>Application of Leeches: Gently place medicinal Leech on the affected area, ensuring th attach properly. Leech begins to suck blood.</li> <li>Duration: Allow the Leech to remain attached until they detach naturally, or if pricking itching starts.</li> <li>Post-Procedure Care: Remove the Leech and sprinkle Haridra powder over the treated Apply a sterile dressing. Provide post-procedure care instructions to the patient, includi monitoring for any signs of infection.</li> </ol>							ing they cking pain / ated area. cluding		
			Hands	on Practi	ce with Sin	nulators						
			<ol> <li>Simulator Setup: Use a simulator to practice the Jaloukavacharana technique, ensuring participants become familiar with the procedure and handling of the equipment.</li> <li>Practice Sessions: Allow participants to practice the Jaloukavacharana technique on the simulator, focusing on precision and patient comfort.</li> <li>Feedback and Debriefing: Provide constructive feedback and conduct a debriefing session to discuss findings and areas for improvement.</li> </ol>									
Topic 1	12 Band	ha Vidhi (LH :1 NLHT: 1 NLHP: 4)			<b>I</b>							
A3		B3		C3	D3	E3	F3	G3	H3	<b>I</b> 3	К3	L3

CO1, CO4, CO5	Describ Kavalik	e BandhaVidhi – Prayojana, Dravya (Pichu, Plota, a, and Vikeshika), Yogya, Ayogya, Prakara and Upa	drava	СК	МК	КН	L&PPT ,L_VC, L	Log book,P RN,CL-PR	F&S	Ι	-	LH
<ul> <li>CO1, Analyze Ayurvedic and modern splinting techniques, materials,</li> <li>CO2, and applications while integrating evidence-based practice for</li> <li>CO4, optimized injury management.</li> <li>CO5</li> </ul>		PSY- MEC	DK	КН	L&PPT ,L	PRN,P-MO D,P-PRF,C L-PR,P-RP	F&S	Ι	-	NLHT12.1		
<ul> <li>CO1, Demonstrate modern techniques of bandaging for different types</li> <li>CO2, of wounds and injuries.</li> <li>CO4 Enhance participants' confidence and proficiency in basic surgical and bandaging skills through hands-on training.</li> </ul>		PSY- ORG	МК	SH	D- M,D,PT	M-CHT,P- EXAM,P-P OS,M-POS, M-MOD	F&S	Ι	-	NLHP12.1		
CO1, CO3, CO5Demonstrate skills in bandaging in safely transporting injured patients using various techniques.			PSY- GUD	DK	KH	D,D- M,PT	P-RP,P-MO D,P-PRF	F&S	Ι	-	NLHP12.2	
Non Le	ecture H	our Theory	-									
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT 1	12.1	Training of Bandaging on Simulators with relevant modern techniques	Practical Activities									
				1. Patient	Demonstr	ations:						
			• Demonstrate splint application on patients with different types of injuries.									
			<ul> <li>Highlight the differences and similarities between Ayurvedic and modern splinting techniques.</li> </ul>							splinting		
				٥ ]	Role-Playi	ng:						

		<ul> <li>Create role-playing scenarios where participants can practice diagnosing injuries and applying appropriate splints.</li> <li>Encourage feedback and discussion to improve techniques and understanding.</li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 12.1	Perform training of Bandaging on Simulators with relevant modern techniques	Preparation Steps: Patient History and Assessment
		<ol> <li>Gather History: Collect detailed patient history relevant to the surgical procedure and injury.</li> <li>Physical Examination: Perform a thorough examination to assess the affected area, noting any signs of infection, inflammation, or other complications.</li> </ol>
		Preparation for Surgical Skills Training
		<ol> <li>Informed Consent: Explain the procedure and training objectives to the participants.</li> <li>Equipment Setup: Prepare the necessary equipment, including surgical instruments, sterile gloves, antiseptic solution, bandages, and simulators.</li> <li>Participant Positioning: Ensure participants are comfortably positioned to perform the surgical skills and bandaging techniques.</li> </ol>
		Basic Surgical Skills Training
		1. Hemostasis:

		<ul> <li>Technique: Demonstrate methods for achieving hemostasis by adequate pressure bandaging.</li> <li>Hands on Practice Allow participants to practice hemostasis techniques on simulators.</li> <li>Feedback: Provide constructive feedback on effectiveness and safety.</li> </ul>
		<ol> <li>Types of Bandages:         <ul> <li>Demonstration: Show different types of bandage and their appropriate uses.</li> <li>Hands-on Practice: Allow participants to practice applying various bandages on simulators.</li> </ul> </li> <li>Specialized Bandaging Techniques:         <ul> <li>Hands-on Practice: Allow participants to practice compression bandaging on simulators.</li> </ul> </li> <li>Immobilization Bandaging:         <ul> <li>Splinting and Immobilization: Demonstrate the application of splints and immobilization bandages for fractures or joint injuries.</li> <li>Hands-on Practice: Allow participants to practice splinting and immobilization techniques on simulators.</li> </ul> </li> </ol>
		<b>Recapitulation:</b> Mastering basic surgical skills and modern bandaging techniques is essential for effective patient care. Hands-on practice with simulators enhances proficiency and confidence in these skills.
NLHP 12.2	Demonstration of the Transportation of injured patients (Double Human Crutch, Fireman's Lift, Two-handed Seat, etc) & Recovery Position	Preparation Steps: Patient Transportation Techniques

1. Double Human Crutch
• Objective: Provide support to a patient who can partially bear weight but needs
assistance walking.
• Preparation: Ensure the patient is calm and inform them about the procedure.
• Steps:
a. Position yourself and another person on either side of the patient.
b. Have the patient place their arms around your shoulders.
c. Support the patient by holding them firmly around their waist or hips.
d. Move together in a coordinated manner, with the patient taking small steps.
2. Fireman's Lift
• Objective: Transport an unconscious or severely injured patient over a short distance.
• Preparation: Check the patient's responsiveness and ensure the scene is safe.
• Steps:
a. Lift the patient's arms and place them over your shoulders.
b. Bend down, grasp the patient's wrist, and pull them across your shoulders.
d Walk carefully to the desired location, ensuring the patient's airway remains
d. waik calefully to the desired location, ensuring the patient's an way remains
3 Two-Handed Seat
• Objective: Provide a stable seat for an injured patient who cannot walk but can sit
upright.
• Preparation: Communicate with the patient and ensure they are ready for the move.
• Steps:
a. Sit the patient on the ground.
b. Have one person stand on either side of the patient.
c. Each person grabs their own wrist and the other's wrist, forming a seat.
d. Lift the patient onto the seat by pulling them upwards.
e. Move in unison to transport the patient.
Recovery Position

		1. Objective: Position an unconscious but breathing patient safely to maintain an open airway and prevent aspiration.         2. Preparation: Ensure the patient is breathing and check for any life-threatening injuries.         3. Steps:         a. Kneel beside the patient.									
Tonia	12 Duox		<ul> <li>b. Extend the patient's arm nearest to you at a right angle to their body, with the palm facing up.</li> <li>c. Place the other arm across their chest, with the back of their hand against their cheek.</li> <li>d. Bend the knee farthest from you to a right angle.</li> <li>e. Carefully roll the patient onto their side by pulling on the bent knee.</li> <li>f. Adjust the top leg so that both the hip and knee are bent at right angles.</li> <li>g. Tilt the patient's head back to ensure an open airway and monitor their breathing.</li> </ul>								
A3		B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	К3	L3
CO1, CO2, CO4	<ul> <li>D1, Describe Pranashta Shalya and NirharanaUpaya (Identification</li> <li>D2, Principles of management).</li> <li>D4</li> </ul>		z CK	МК	КН	L_VC,P ER,L&P PT ,L	INT,T- CS,CL-PR, C-VC,Log book	F&S	Ι	-	LH
<ul> <li>CO1, Perform skills of the Heimlich maneuver effectively along</li> <li>CO3, with the indications and techniques for relieving choking.</li> <li>CO5</li> </ul>		a skills of the Heimlich maneuver effectively along e indications and techniques for relieving choking.	PSY- MEC	NK	SH	TBL,RP ,W,PrB L	P-PRF,P-M OD,P- VIVA	F&S	Ι	-	NLHP13.1
Non L	Non Lecture Hour Theory										
S.No		Name of Activity Des	scription of	Theory A	Activity						
Non Lecture Hour Practical											

S.No	Name of Practical	Description of Practical Activity
NLHP 13.1	Heimlich maneuver- Hands-on training (Choking)	Preparation Steps: Understanding Choking
		<ol> <li>Recognize Signs of Choking:         <ul> <li>Inability to speak or breathe</li> <li>Coughing or gagging</li> <li>Clutching the throat (universal choking sign)</li> <li>Cyanosis (bluish skin color)</li> </ul> </li> <li>Preparation for Heimlich Maneuver</li> </ol>
		<ol> <li>Equipment Setup: Use a simulator designed for practicing the Heimlich maneuver.</li> <li>Participant Positioning: Ensure participants are comfortably positioned to perform the maneuver on the simulator.</li> </ol>
		Hands-on Practice with Simulators: Heimlich Maneuver Procedure
		<ul> <li>Stand Behind the Person: Position yourself behind the choking person.</li> <li>Make a Fist: Place your fist just above the person's navel (belly button).</li> <li>Grasp Your Fist: With your other hand, grasp your fist.</li> <li>Perform Abdominal Thrusts: Deliver quick, upward thrusts into the person's abdomen. Repeat until the object is expelled or the person becomes unconscious.</li> </ul>

Topic 1	Topic 14 Fluid, Electrolyte, Acid Base Balance and Nutrition in surgical practice (LH :3 NLHT: 1 NLHP: 4)									
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO2, CO4, CO5	Explain the physiology of fluids and electrolytes and Dehydration and over Hydration	СК	МК	КН	L_VC,L &PPT ,L	CL-PR,PM, C-VC,T-CS	F&S	Ι	-	LH
CO1, CO2, CO3, CO4	Describe Specific electrolyte loss, Acidosis, Alkalosis, Symptomatology and Management	СК	DK	К	PER,L, L&PPT ,L_VC	CL-PR, C- VC,PM,T- CS,PRN	F&S	Ι	-	LH
CO1, CO3, CO4, CO5	Describe the Parental Nutrition.	СК	МК	К	L,L&PP T ,L_VC	T-CS,Log b ook,CL-PR, C-VC	F&S	Ι	-	LH
CO1, CO2, CO3, CO4	Evaluate electrolyte imbalances by identifying clinical manifestations, analyzing their systemic effects, and formulating appropriate management strategies for restoration.	CS	DK	КН	L_VC,P BL,DIS, L&GD	P-PS,PM,P- EXAM,P-C ASE,P-PRF	F&S	Ι	-	NLHT14.1
CO1, CO3, CO6	Critically evaluate fluid therapy selection by calculating requirements based on physiological needs and clinical decision- making in conditions like dehydration, shock, and burns.	CE	DK	КН	PT,L&P PT ,L,RP	P-EXAM,P -RP,P-PS,P -VIVA,P- CASE	F&S	Ι	-	NLHP14.1
CO1, CO3, CO6	Integrate knowledge of physiological mechanisms and clinical implications to assess, diagnose, and manage acid-base imbalances using arterial blood gas (ABG) analysis and targeted interventions.	CC	DK	КН	PT,PBL ,CD,L_ VC,D	P-PS,P-EX AM,P-VIV A,P-MOD	F&S	Ι	-	NLHP14.2

Non Lecture	Non Lecture Hour Theory							
S.No	Name of Activity	Description of Theory Activity						
NLHT 14.1	Electrolyte loss	Present real-life scenarios of patients with electrolyte imbalance. Assign students topics like "Importance of Sodium" or "Dangers of Potassium Deficiency." Electrolyte imbalance role-play: Divide students into patient and healthcare provider roles. Electrolyte solution preparation: Have students prepare electrolyte solutions.						
Non Lecture	e Hour Practical							
S.No	Name of Practical	Description of Practical Activity						
NLHP 14.1	Calculations & selections of fluids in various conditions like Dehydration, Shock& Burns	Preparation Steps: Understanding Fluid Therapy						
		1. Types of Fluids:						
		<ul> <li>Crystalloids: Normal saline, Ringer's lactate, D5W (5% dextrose in water).</li> <li>Colloids: Albumin Dextrap etc.</li> </ul>						
		2. Indications:						
		<ul> <li>Dehydration: Assess severity (mild, moderate, severe) to determine fluid needs.</li> <li>Shock: Differentiate between hypovolemic, cardiogenic, septic, and anaphylactic shock.</li> <li>Burns: Calculate fluid requirements using formulas like the Parkland formula.</li> </ul>						
		Calculation and Selection of Fluids						
		<ul> <li>1. Dehydration:</li> <li>• Assessment: Evaluate symptoms (dry mouth, skin turgor, hypotension, tachycardia)</li> </ul>						

	<ul> <li>and laboratory findings (serum electrolytes, BUN, S. creatinine).</li> <li>Calculation: <ul> <li>Mild: Oral rehydration solutions.</li> <li>Moderate: IV fluids at a rate of 50-100 mL/kg over 4-6 hours.</li> <li>Severe: Rapid IV fluids, e.g., 20 mL/kg bolus of normal saline.</li> </ul> </li> <li>2. Shock: <ul> <li>Assessment: Monitor vital signs (BP, heart rate), urine output, and perfusion status.</li> <li>Calculation: <ul> <li>Hypovolemic shock: 20 mL/kg bolus of crystalloid, reassess and repeat as needed.</li> <li>Septic shock: Initial 30 mL/kg of crystalloid within the first 3 hours.</li> <li>Cardiogenic shock: Use smaller fluid boluses (250 mL) cautiously, consider inotropes.</li> <li>Anaphylactic shock: Epinephrine first, then 1-2 L of crystalloid rapidly.</li> </ul> </li> <li>3. Burns: <ul> <li>Assessment: Calculate total body surface area (TBSA) burned.</li> <li>Calculation: <ul> <li>Parkland formula: 4 mL/kg per %TBSA burned of Ringer's lactate for the first 24 hours.</li> <li>Administer half of the total in the first 8 hours and the remaining half over the</li> </ul> </li> </ul></li></ul></li></ul>	
Ha	<ul> <li>next 16 nours.</li> <li>nds-on Practice with Simulators</li> <li>1. Simulator Setup: Use simulators to replicate clinical scenarios for dehydration, shock, and burns.</li> <li>2. Practice Sessions: Allow participants to perform fluid calculations and administer fluids on the simulators.</li> </ul>	
NLHP 14.2	Acid Base Balance in various conditions like perforation, vomiting, etc	Preparation Steps: Understanding Acid-Base Balance
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		<ol> <li>Basic Concepts:         <ul> <li>pH, PCO2, HCO3- levels, and their normal ranges.</li> </ul> </li> <li>Types of Imbalances:         <ul> <li>Metabolic Acidosis: Low pH, low HCO3- (e.g., due to renal failure, lactic acidosis).</li> <li>Metabolic Alkalosis: High pH, high HCO3- (e.g., due to vomiting, diuretic use).</li> <li>Respiratory Acidosis: Low pH, high PCO2 (e.g., due to COPD, hypoventilation).</li> <li>Respiratory Alkalosis: High pH, low PCO2 (e.g., due to hyperventilation, anxiety).</li> </ul> </li> </ol>
		Assessment and Diagnosis
		<ol> <li>Patient History:         <ul> <li>Gather detailed history relevant to the condition (e.g., history of gastrointestinal perforation, episodes of vomiting).</li> <li>Document any medications or underlying medical conditions.</li> </ul> </li> <li>Physical Examination:         <ul> <li>Perform a thorough physical examination to assess signs of dehydration, respiratory distress, or other relevant symptoms.</li> </ul> </li> <li>Laboratory Tests:         <ul> <li>Order arterial blood gas (ABG) analysis to determine pH, PCO2, HCO3-, and other parameters.</li> <li>Conduct additional tests such as serum electrolytes, blood urea nitrogen (BUN), and creatinine.</li> </ul> </li> <li>Group Discussion and Case Studies</li> </ol>

1. Case Presen • Prese • Disc 2. Interactive I • Enco • Facil imba Hands-on Practice v	tation: nt real-life scenarios for conditions like perforation and vomiting. iss the initial assessment, ABG interpretation, and management plan. Discussion: urage participants to share their approaches and reasoning. itate a discussion on different strategies and best practices in managing acid-base lances. with Simulators
1. Simulator Se 2. Practice Sess measures on	tup: Use simulators to replicate clinical scenarios of acid-base disturbances. ions: Allow participants to perform ABG interpretation and implement corrective the simulators.

# Topic 15 Rakta (LH :2 NLHT: 2 NLHP: 0)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO2, CO4	Describe Rakta Mahatwa, and Rakta as chuturta dosa	СК	МК	К	L_VC,P ER,L&P PT ,L	CL-PR, C- VC,T-CS	F&S	Ι	-	LH
CO1, CO2, CO4	Explain Raktasrava , Prakara and Lakshana. along with Haemorrhage and its management	СК	МК	К	L,L&PP T ,L_V C,PER	T-CS,CL- PR,PRN	F&S	Ι	-	LH
CO1, CO2, CO4	Formulate comprehensive haemostasis management by evaluating bleeding and thrombotic disorders, determining intervention urgency, assessing treatment response, and optimizing long-term care strategies.	PSY- ADT	DK	КН	PT,D	SP,P-EXA M,P-VIVA	F&S	Ι	-	NLHT15.1
CO1, CO2,	Define blood transfusion and its indicationsAssess patients for blood transfusion needs.	PSY- GUD	МК	SH	SIM,TB L,PER,	P-CASE,P- EXAM,CL-	F&S	Ι	-	NLHT15.2

CO4, CO6	Explain Recogn	the importance of compatibility testing. ize the risks and benefits of blood transfusion.					DIS,PB L	PR,PRN							
Non L	ecture H	Iour Theory													
S.No		Name of Activity	Descri	Description of Theory Activity											
NLHT	15.1	Describe Rakta stambhana and methodsof Haemostasis.	Simulate a patient with bleeding disorder. . Simulate a patient with thrombotic disorder. . Simulate haemostasis laboratory tests.												
NLHT	15.2	Describe Blood Transfusion –Blood groups, Compatibility, Indications, Contraindications, Complications, Management. along with Component therapy	Present real-life scenarios of patients requiring blood transfusion Divide students into patient and healthcare provider roles. Have students identify and label different blood components. Simulate Blood Transfusion Reactions.												
Non Lo	ecture H	Iour Practical													
S.No		Name of Practical	Descri	iption of	Practical	Activity	,								
<b>Topic</b>	16 Life	Saving and Emergency Medicines in surgical	practice	e (Prana	Rakshak	a and At	yayika Dr	avya) (LH :	3 NLHT:	: 0 NLI	HP: 0)				
A3		B3		C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3			
CO1, CO3, CO4, CO6, CO7	Descril Contrai	be Antibiotics- Classification ,Dose, Indications & ndications		CC	МК	К	L_VC,L	CHK,T-CS, C- VC,RK,Log book	F&S	I	-	LH			

CO1, CO2, CO4, CO5, CO6	Describ Classifi	e Analgesics, anti-inflammatory medicines with cation , Dose ,Indications & Contraindications	(	СК	МК	КН	L&PPT ,L,L_V C	PRN,CHK, CL-PR,T- CS	F&S	Ι	-	LH
CO1, CO2, CO4, CO5, CO6	Describ Dopami Dexame Contrai	e Emergency medicines, viz. Atropine, Adrenaline, ine, Mephentine hydrochloride, Hydrocortisone, ethasone, Antiemetics, Dose, Indications & ndications, in surgical practice.	(	СК	МК	К	L_VC,L ,L&PPT	CHK,PRN, T-CS,CL- PR	F&S	Ι	-	LH
Non L	ecture Hour Theory											
S.No		Name of Activity	Descripti	tion of	Theory A	ctivity						
Non L	Lecture Hour Practical											
	.No Name of Practical Description of Practical Activity											
S.No		Name of Practical	Descripti	tion of	Practical	Activity						
S.No Topic	17 Naid	Name of Practical lanik Vidhi (Diagnostic techniques) (LH :2 NI	Descripti LHT: 0 NL	tion of LHP: 6	Practical	Activity						
S.No Topic 2 A3	17 Naid	Name of Practical lanik Vidhi (Diagnostic techniques) (LH :2 NL B3	Descripti LHT: 0 NL	tion of LHP: 6 C3	Practical	Activity E3	F3	G3	НЗ	I3	K3	L3
S.No Topic 2 A3 CO1, CO3, CO4, CO5, CO6, CO7	<b>17 Naid</b> Describ ray), Av Principl	Name of Practical lanik Vidhi (Diagnostic techniques) (LH :2 NL B3 be Diagnostic imaging techniques, viz. Chhaya Vikira vayava Pariksha (Ultrasonography, CAT Scan, MRI) les, Method, Indications and Contraindications.	Descripti LHT: 0 NL ( un (X- -	tion of LHP: 6 C3 CK	Practical	Activity E3 K	F3 X-Ray, L&PPT ,L_VC, L	G3 C-VC,CL- PR,T- CS,PRN	H3 F&S	<b>I3</b> I	K3 -	L3 LH

CO1, CO3, CO6	Define role in o ray exam	X-rays and their application in medical imaging and diagnostic decision-making.Identify different types of minations .	their of X-	СК	МК	SH	L&PPT ,PT,X-R ay,L_V C,CD	QZ ,P-VIV A,CL-PR,P -EXAM,PP- Practical	F&S	Ι	-	NLHP17.1
CO1, CO3, CO5, CO6	Describ its role Recogn imaging	be Principles and applications in medical imaging and in diagnostic decision-making. ize the limitations and contraindications of medical g.	1	СК	NK	K	D,PT,P L,RP,SI M	CL-PR,PR N,CHK	F&S	Ι	-	NLHP17.2
CO1, CO5, CO6	Demon approprisafe tec complic	strate proficiency in biopsy procedures by selecting riate equipment, ensuring patient preparation, execut hniques, managing specimens, and identifying poten cations.	ing tial	СК	NK	K	D,SIM	P-EXAM	F&S	Ι	-	NLHP17.3
Non Lo	ecture H	Iour Theory					-					
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
Non L	ecture H	Iour Practical										
S.No		Name of Practical	Description of Practical Activity									
NLHP	17.1	Demonstration of Chhaya vikiran (X-ray) of Chest, Abdomen, Urology. and Musculoskeletal organs	<ul> <li>steps to learn and demonstrate Chhaya Vikiran (X-ray) of Chest, Abdomen, Urology and Musculoskeletal:</li> <li>Steps to Learn and Demonstrate Chhaya Vikiran (X-ray)</li> <li>Chest X-ray</li> <li>1. Normal Anatomy: Learn to identify normal structures such as lungs, heart, mediastinum, diaphragm, and ribcage.</li> <li>2. Abnormal Findings: Recognize common abnormalities such as lung nodules, pneumonia, pleural effusion, and cardiomegaly.</li> <li>3. Systematic Approach: Develop a systematic approach to interpreting chest X-rays, including evaluating the lungs, heart, mediastinum, and diaphragm.</li> <li>4. Practice: Practice interpreting chest X-rays using online resources, textbooks, or with a radiologist.</li> </ul>							y <b>and</b> ım,		

		Abdominal X-ray 1. Normal Anatomy: Learn to identify normal structures such as the liver, spleen, kidneys, and
		intestines.
		<b>2. Abnormal Findings</b> : Recognize common abnormalities such as kidney stones, bowel obstruction, and free air.
		<b>3. Systematic Approach</b> : Develop a systematic approach to interpreting abdominal X-rays, including evaluating the liver, spleen, kidneys, and intestines.
		<b>4. Practice:</b> Practice interpreting abdominal X-rays using online resources, textbooks, or with a radiologist
		Urology X-ray
		<ol> <li>Normal Anatomy: Learn to identify normal structures such as the kidneys, ureters, and bladder.</li> <li>Abnormal Findings: Recognize common abnormalities such as kidney stones, ureteral obstruction, and bladder tumors.</li> </ol>
		<b>3. Systematic Approach:</b> Develop a systematic approach to interpreting urology X-rays, including evaluating the kidneys, ureters, and bladder.
		<b>4. Practice:</b> Practice interpreting urology X-rays using online resources, textbooks, or with a radiologist
		Musculoskeletal X-ray
		<ol> <li>Normal Anatomy: Learn to identify normal structures such as bones, joints, and soft tissues.</li> <li>Abnormal Findings: Recognize common abnormalities such as fractures, osteoporosis, and joint effusions.</li> </ol>
		<b>3. Systematic Approach:</b> Develop a systematic approach to interpreting musculoskeletal X-rays, including evaluating bones, joints, and soft tissues.
		<b>4. Practice:</b> Practice interpreting musculoskeletal X-rays using online resources, textbooks, or with a radiologist.
NLHP 17.2	Avayava pariksha (CT,MRI) of Chest, abdomen, Urology bones & joints	Steps to learn CT and MRI of Abdomen: Step 1: Review Patient's Clinical History and Indications
	•	<ul> <li>- Understand the patient's symptoms, medical history, and reasons for the CT scan</li> <li>- Familiarize yourself with the CT scan protocol and parameters</li> </ul>

### Step 2: Systematically Evaluate Abdominal Organs - Liver: - Evaluate size, shape, and density - Look for lesions, cysts, or tumors - Spleen: - Evaluate size and density - Look for lesions or infarcts - Pancreas: - Evaluate size, shape, and density - Look for lesions, cysts, or tumors - Kidneys: - Evaluate size, shape, and density - Look for lesions, cysts, or stones - Gastrointestinal Tract: - Evaluate bowel wall thickness, density, and patency - Look for lesions, obstruction, or free fluid Step 3: Evaluate Vascular and Lymphatic Structures - Aorta and Major Branches: - Evaluate size, shape, and density - Look for aneurysms, stenosis, or dissection - Portal and Hepatic Veins: - Evaluate size, shape, and density - Look for thrombosis or obstruction - Lymph Nodes: - Evaluate size, shape, and density - Look for enlargement or abnormal morphology **Step 4: Look for Additional Findings** - Free Fluid or Hemorrhage: - Evaluate location, extent, and density - Bone or Soft Tissue Lesions:

		<ul> <li>Evaluate size, shape, and density <ul> <li>Look for destruction or erosion</li> </ul> </li> <li>Step 5: Correlate Findings with Clinical History and Indications <ul> <li>Integrate imaging findings with patient's symptoms, medical history, and laboratory results</li> <li>Consider alternative diagnoses and differential diagnoses</li> </ul> </li> <li>Step 6: Document and Communicate Findings <ul> <li>Clearly document imaging findings in a structured report</li> <li>Communicate findings to the referring physician or radiologist</li> </ul> </li> <li>Similar to this, steps to learn CT and MRI of Chest, Urology, Bones and Joints-Chest <ul> <li>Crest</li> <li>Crest: Show a CT scan of the chest, pointing out the lungs, heart, and major blood vessels.</li> </ul> </li> <li>MRI Chest: Show an MRI scan of the chest, highlighting the mediastinum, lungs, and chest wall.</li> <li>Normal and Abnormal Findings: Compare normal and abnormal findings, such as lung nodules, pleural effusion, or mediastinal masses.</li> <li>Urology: <ul> <li>CT Urography: Show a CT urogram, pointing out the kidneys, ureters, and bladder.</li> </ul> </li> <li>MRI Urography: Show an MRI urogram, highlighting the kidneys, ureters, and bladder.</li> <li>Normal and Abnormal Findings: Compare normal and abnormal findings, such as kidney stones, ureteral obstruction, or bladder tumors.</li> <li>Bones and Joints: <ul> <li>CT Bones: Show a CT scan of the bones, pointing out the spine, pelvis, and long bones.</li> <li>MRI Bones: Show an CT scan of the bones, highlighting the bone marrow, joints, and surrounding soft tissues.</li> </ul> </li> </ul>
		<b>3. Normal and Abnormal Findings:</b> Compare normal and abnormal findings, such as bone fractures, osteoporosis, or joint effusions.
NLHP 17.3	Hands on training of different types of Biopsy	The steps for training undergraduates in different types of biopsies:         Fine Needle Aspiration Biopsy (FNAB)         1. Theoretical foundation: Understand the principles and indications of FNAB.         2. Simulation training: Practice FNAB on simulated models or phantoms.

5. Observation. Observe experienced practitioners performing rNAD.	
4. Assisted practice: Assist experienced practitioners during FNAB proc	edures.
Core Needle Biopsy (CNB)	
1. Theoretical foundation: Understand the principles and indications of C	CNB.
2. Simulation training: Practice CNB on simulated models or phantoms.	
3. Observation: Observe experienced practitioners performing CNB.	
4. Assisted practice: Assist experienced practitioners during CNB proceed	dures.
Incisional Biopsy	
1. Theoretical foundation: Understand the principles and indications of i	ncisional biopsy.
2. Simulation training: Practice incisional biopsy on simulated models or	r phantoms.
3. Observation: Observe experienced practitioners performing incisional	biopsy.
4. Assisted practice: Assist experienced practitioners during incisional b	iopsy procedures.
Excisional Biopsy	
1. Theoretical foundation: Understand the principles and indications of e	excisional biopsy.
2. Simulation training: Practice excisional biopsy on simulated models o	or phantoms.
3. Observation: Observe experienced practitioners performing excisional	l biopsy.
4. Assisted practice: Assist experienced practitioners during excisional b	piopsy procedures.
Endoscopic Biopsy	
1. Theoretical foundation: Understand the principles and indications of e	endoscopic biopsy.
2. Simulation training: Practice endoscopic biopsy on simulated models	or phantoms.
3. Observation: Observe experienced practitioners performing endoscop	ic biopsy.
4. Assisted practice: Assist experienced practitioners during endoscopic	biopsy procedures.

## Topic 18 Shat Kriyakala in surgical practice (LH :1 NLHT: 0 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO2, CO4,	Explain Shat Kriyakala in surgical practice.	СК	МК	КН	L_VC,L ,L&PPT	CL-PR,T- CS	F&S	II	-	LH

CO5													
CO1, CO4, CO7	Integrat progress conditio	e the principles of Shatkriyakala to assess disease sion and implement appropriate surgical intervention ons like Arsha, Bhagandara, appendicitis, and cholecy	s for ystitis.	CC	МК	K	L&PPT ,CBL,D IS	P-EXAM	F&S	Π	V-KS	NLHP18.1	
Non Le	Non Lecture Hour Theory					•						·	
S.No	S.No Name of Activity			ription of	Theory A	Activity							
Non Le	cture H	Iour Practical											1
S.No		Name of Practical	Descr	iption of	Practical	Activity	,						
NLHP 1	8.1	Surgical intervention according to Shatkriyakala - Special focus on Arsha, Bhagandara, and infective pathology ex.Appendicitis, Cholecystitis, etc.	Steps Shatkr Prepar Review Deterr Plan th Surgio Stage Stage Stage Stage Stage Arshal Prepa Review Perfor Plan th .Surgi	riyakala (S ration: w the pation nine the sime surgica cal Interv 1 (Sancha 2 (prakopa 3 (prasara 4 (sthanass 5 (vyakta) 6 (bedha): bhagandha ration: w the pation m diagnosi ne surgica ical Interv	Six Stages of ent's medic tage of the l interventi <b>ention:</b> ya): Early a): Address ): Treating amshraya) b: Different Treating t ara (Piles a ent's symptotic tests to l procedure <b>vention:</b>	of Disease cal history disease ba on accord intervention	Progressio and sympto ased on Sha ingly. on to preven itial sympto se before it ag the acute ween simila eveloped di in-Ano) medical hist he condition the severity	n and stages of oms. tkriyakala prin nt disease progons and preve becomes chro phase of the of r diseases and sease and preve tory. n. y of the condition	of treatmen nciples. gression. enting comp nic. lisease. I targeting venting rec tion	t) plicatio the spe- surrence	ns. cific one.		

	Piles: Perform procedures like hemorrhoidectomy or stapled hemorrhoidopexy to remove or reduce
	hemorrhoids.
	Fistula-in-Ano: Perform fistulotomy or seton placement to treat the fistula.
	Infective Pathologies (Appendicitis and Cholecystitis)
	Preparation:
	Review the patient's symptoms, medical history, and diagnostic tests.
	Plan the surgical intervention based on the severity of the infection.
	Surgical Intervention:
	Appendicitis: Perform an appendectomy (laparoscopic or open) to remove the inflamed appendix.
	Cholecystitis: Perform a cholecystectomy (laparoscopic or open) to remove the inflamed gallbladder.

## Topic 19 Samanya Vyadhi Parichaya (LH :6 NLHT: 3 NLHP: 6)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO1, CO2, CO4	Describe the importance of the body's response to injury or infectionIdentify the signs and symptoms along with different stages of Vranashotha	СК	МК	К	D,SIM, L&PPT ,D- M,PER	P-POS,PR N,P-MOD, P-EXAM,P- CASE	F&S	II	-	NLHT19.1
CO1, CO2, CO4	Explain Nidana, Samprapti, Prakara, Lakshana, Sadhya- asadhyata, Upadrava and Chikitsa of Vidhradi (Abscess) & Pidika (Boils)	СК	МК	K	L&PPT ,L_VC, L	Log book,C L-PR,M-M OD,COM, C-VC	F&S	II	-	LH
CO1, CO2, CO4	Describe Etiopathogenesis, Classifications, Complications & Management of DagdhaVrana (Burns and Scalds)	СК	МК	K	L_VC,L &PPT ,L,PER	M-CHT,M- MOD,M-P OS,CL- PR,T-CS	F&S	II	-	LH
CO1,	Explain Marmaghata (shock) Definition, Classification,	СК	МК	К	L_VC,L	C-VC,CL-	F&S	II	-	LH

CO2, CO4, CO6	Etiopathogenesis, Clinical features, Diagnosis & management				&PPT ,PER,L	PR,PRN,T- CS				
CO1, CO2, CO4, CO6	Explain Etiopathogenesis Clinical features Diagnosis & management of Cardiogenic & Septic Shock & crush syndrome	СК	МК	K	L,L&PP T ,L_VC	T-CS,CL- PR,PRN	F&S	Π	-	LH
CO1, CO2, CO5, CO6	Identify causes, risk factors, signs and symptoms and the importance of KothaUnderstand the role of bacterial infection in Kotha (Gangrene)	СК	МК	SH	PER,L, D,L_VC ,D-M	M-POS,DE B,PRN,M- CHT,CL- PR	F&S	Π	-	NLHT19.2
CO1, CO2, CO4	Explain Nidana, types, Samprapti, Lakshana and Chikitsa of Granthi (Dermoid Cyst &Sabacious Cyst)	СК	МК	K	L_VC,L ,L&PPT	CL-PR,T- CS	F&S	II	-	LH
CO1, CO2, CO4	Explain the Nidana, types, Samprapti, Lakshana and Chikitsa of Arbuda	СК	MK	К	L,L&PP T ,L_VC	T-CS	F&S	Π	-	LH
CO1, CO2, CO4	Illustrate the risk factors for tumor developmentDescribe tumor classification systemsExplain the importance of early detection and diagnosis	САР	МК	K	L&PPT ,PER,DI S,TUT, D	PP-Practica l,P-VIVA,P RN,VV-Vi va,CL-PR	F&S	Π	-	NLHT19.3
CO1, CO2, CO4	Define the characteristics of lumps or swellings along with a systematic examination to evaluate lumps or swellings.Differentiate between benign and malignant lumps.	СК	МК	К	RP,PER ,L_VC, TPW,D- BED	CHK,CL-P R,Mini-CE X,P-VIVA, VV-Viva	F&S	II	-	NLHP19.1
CO1, CO2,	Explain the pathophysiology of shock. Identify risk factors and causes of shock.	СК	МК	K	L&GD, PT,SIM,	SP,P-RP,P- VIVA	F&S	Π	_	NLHP19.2

CO4, CO6	Describ	e the signs and symptoms of shock with its stages					PSM,RP						
CO1, CO3, CO6	<ul> <li>D1, Explain the principles of assessing and examining burn inju</li> <li>D3, with a systematic approach to evaluate burn cases.</li> <li>D6</li> </ul>			СК	МК	K	L_VC,P ER,D,P T,SIM	P-POS,PR N,P-MOD, P-VIVA,P- RP	F&S	II	-	NLHP19.3	
Non Le	Non Lecture Hour Theory												
S.No		Name of Activity	Description of Theory Activity										
NLHT	19.1	Vranashotha-Nirukti, Nidana, Samprapti, Prakara, Lakshana, Sadhya-asadhyata, Upadrava and Chikitsa	A Create a simulated patient scenario where students have to assess and manage inflammation. Quiz on Inflammation							on.			
NLHT	19.2	Explain etiopathogenesis, types, Clinical Features, Investigations, Differential Diagnosis, complications and management of Kotha (Gangrene)	Il Features, Present real-life scenarios of patients with gangrene. Practice wound care and debridement techniques.										
NLHT 19.3 Definition, Classification, Clinical features, Complications of Tumour				e and Disc e studies: pate: Assig sks of Tur nor biolog ctive Activ nor simula s. mor Jeopa nor puzzle Activities ate a poste	cussion Ac Present rea in students nor Surger y lecture: I vities tion: Creat trdy": Creat create a p create a p	tivities I-life scen topics like y". Provide an te a simula te a game puzzle who aphic: Ass	arios of pa "The Role overview o ted patient show-style ere student	tients with tun e of Genetics i of tumor biolo scenario when e quiz. s match tumor a type of tum	nors. n Tumor D gy and pat re students types with or to reseat	Develop hogene have to a corres	ment" or " sis. o diagnose ponding sy illustrate.	The Benefits and manage ymptoms.	

2. 7 3. 7 Ha As 1. 7 2. 0 3. 1	<ul> <li>Tumor role-play: Divide students into patient and healthcare provider roles.</li> <li>"Tumor Challenge": Divide students into teams to solve tumor-related problems.</li> <li>Iands-on Activities</li> <li>Assessment Activities</li> <li>Tumor quiz.</li> <li>Case study analysis and presentation.</li> <li>Reflective journaling: Ask students to reflect on their learning.</li> </ul>
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## Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
<b>S.No</b> NLHP 19.1	Name of Practical Examination of Granthi (lump or Swelling)	Description of Practical Activity         Steps         1. Patient History:         Ask about the duration and onset of the lump/swelling.         Inquire about associated symptoms such as pain, fever, weight loss, or changes in size.         Review any past medical history, including previous lumps or related conditions.         Ask about family history of cancers or other relevant diseases.         2. Inspection:         Position the patient comfortably and ensure good lighting.         Observe the size, shape, and location of the lump.         Note any changes in skin color or the presence of scars, ulcers, or visible pulsations.         3. Palpation:         Wash your hands thoroughly before examination.         Use the pads of your fingers to palpate the lump gently.         Assess the following characteristics:         Size: Measure the lump in two dimensions (length and width).
		Shape: Determine if it is round, oval, or irregular. Surface: Check if it is smooth, nodular, or irregular. Consistency: Identify if it is soft, firm, hard, or rubbery.

		<ul> <li>Tenderness: Note any pain or discomfort on palpation.</li> <li>Mobility: Check if the lump is mobile or fixed to underlying structures.</li> <li>Temperature: Feel for any warmth over the lump, indicating inflammation.</li> <li>Fluctuation: Determine if the lump contains fluid by gently pressing on it.</li> <li>4. Transillumination (if applicable):</li> <li>Darken the room and use a flashlight or penlight to shine through the lump.</li> <li>Fluid-filled lumps (e.g., cysts) may transilluminate, while solid masses will not.</li> <li>5. Auscultation (if applicable):</li> <li>Use a stethoscope to listen for any bruits or abnormal sounds over the lump, especially if it is pulsatile.</li> <li>6. Special Tests:</li> <li>Needle Aspiration or Biopsy: Perform if indicated to obtain a sample for cytological or histological examination.</li> <li>7. Documentation:</li> <li>Record all findings meticulously, including the patient's history, examination findings, and any special tests performed.</li> <li>Note the characteristics of the lump and any associated symptoms.</li> </ul>
NLHP 19.2	Emergency management in different types of shock	Steps Case Presentation/PBL/Role Play Hypovolemic Shock Case Presentation: Scenario: A patient presents with severe blood loss following a traumatic injury. They exhibit signs of tachycardia, hypotension, cold and clammy skin. Steps: Assessment: Evaluate the airway, breathing, and circulation (ABCs). Fluid Resuscitation: Administer crystalloids (normal saline or Ringer's lactate) rapidly. Stop the Bleeding: Apply pressure to external wounds, consider surgical intervention if necessary. Monitoring: Continuously monitor vital signs, urine output, and mental status. Cardiogenic Shock

Case Presentation: Scenario: A patient with a history of myocardial infarction presents with chest pain, dyspnea, hypotension, and jugular venous distention. Steps: Assessment: Evaluate the ABCs, obtain a 12-lead ECG. Oxygen Therapy: Administer high-flow oxygen. Medications: Initiate inotropes (e.g., dobutamine) to improve cardiac output. Revascularization: Prepare for possible percutaneous coronary intervention (PCI) or thrombolytic therapy. Distributive Shock (Septic Shock) **Case Presentation:** Scenario: A patient with a severe infection presents with fever, hypotension, warm skin, and altered mental status. Steps: Assessment: Evaluate the ABCs, obtain blood cultures. Antibiotics: Administer broad-spectrum antibiotics as soon as possible. Fluid Resuscitation: Administer crystalloids to restore perfusion. Vasopressors: Initiate vasopressors (e.g., norepinephrine) if hypotension persists despite fluid resuscitation. Distributive Shock (Anaphylactic Shock) Case Presentation: Scenario: A patient presents with a sudden onset of hives, swelling, wheezing, and hypotension after exposure to an allergen. Steps: Assessment: Evaluate the ABCs. Epinephrine: Administer intramuscular epinephrine immediately. Oxygen Therapy: Provide supplemental oxygen. Medications: Administer antihistamines (e.g., diphenhydramine) and corticosteroids (e.g., methylprednisolone). Fluid Resuscitation: Administer crystalloids to maintain blood pressure.

		Obstructive Shock Case Presentation: Scenario: A patient with a history of deep vein thrombosis presents with sudden chest pain, dyspnea, and hypotension. Steps: Assessment: Evaluate the ABCs, obtain imaging (e.g., chest CT) to identify the obstruction. Oxygen Therapy: Administer high-flow oxygen. Relieve Obstruction: Consider thrombolytic therapy or surgical intervention to remove the obstruction. Monitoring: Continuously monitor vital signs and oxygen saturation.
NLHP 19.3	Assessment, examination, and documentation of Pramada Dagda (Burn) case	Steps         1. Initial Assessment:         Ensure Safety: Ensure the safety of both the patient and healthcare providers.         Primary Survey:         Airway: Check for airway patency, inhalation injury, or soot around the nose/mouth.         Breathing: Assess respiratory rate and effort, listen for breath sounds, and check oxygen saturation.         Circulation: Check heart rate, blood pressure, and signs of shock. Establish IV access.         Disability: Evaluate neurological status using the AVPU scale (Alert, Verbal, Pain, Unresponsive).         Exposure: Remove clothing and jewelry to assess the extent of burns. Maintain body temperature.         2. Secondary Assessment:         History Taking:         Mechanism of Injury: Determine the cause (thermal, chemical, electrical, etc.).         Time of Injury: Establish the time since the burn occurred.         Past Medical History: Inquire about previous medical conditions, medications, and allergies.         Tetanus Status: Check the patient's tetanus immunization history.         Physical Examination:         Extent of Burns: Use the Rule of Nines or Lund-Browder chart to estimate the total body surface area (TBSA) affected.         Depth of Burns: Classify burns as superficial, partial-thickness, or full-thickness based on appearance

	<ul> <li>and sensation.</li> <li>Associated Injuries: Assess for other injuries related to the burn incident (e.g., fractures, head injury).</li> <li><b>3. Documentation:</b></li> <li>Patient Information: Record the patient's demographics, medical history, and details of the burn incident.</li> <li>Burn Assessment:</li> <li>Location and Extent: Document the location, size, and percentage of TBSA affected.</li> <li>Depth: Note the depth and classification of burns.</li> <li>Symptoms: Record pain, blisters, edema, or any signs of infection.</li> </ul>
	Burn Assessment:
	Location and Extent: Document the location, size, and percentage of TBSA affected.
	Depth: Note the depth and classification of burns.
	Symptoms: Record pain, blisters, edema, or any signs of infection.
	Interventions:
	Initial Treatment: Note any pre-hospital care provided.
	Medications: Record analgesics, antibiotics, and other medications administered.
	IV Fluids: Document the type and amount of fluids given.
	Follow-Up Plan: Outline the plan for ongoing care, dressing changes, and referral to a burn unit if
	necessary.

# Topic 20 Vrana (LH :7 NLHT: 2 NLHP: 6)

A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	К3	L3
CO1, CO2, CO3, CO4, CO5	Explain the Nirukti ,Prakara,Nidana, Samprapti, , Prakara, Lakshana, Vrana Pariksha, Vrana Sadhya Asadhyatha of vrana and vrana vastu	СК	МК	Κ	L&PPT ,L,L_V C	CL-PR,T- CS	F&S	II	-	LH
CO1, CO2, CO4	Explain the Vrana Avastha of Dustavrana, Shuddha Vrana, Ruhyamana Vrana, Samyak Roodha Vrana and Vrana Upadrava	СК	MK	К	L,L_VC ,L&PPT	T-CS,CL- PR	F&S	Π	-	LH
CO1, CO2,	Explain Vrana Chikitsa, Pathya-apathya and Shashti Upakrama – first 21 upakramas (poorva karma to vrana)	СК	МК	K	L_VC,L &PPT	PRN,CL- PR,T-CS	F&S	II	-	LH

CO4					,L					
CO1, CO2, CO4	Explain Shashti Upakrama –22- 40 upakramas	СК	MK	K	L&PPT ,L,L_V C	T-CS,CL- PR,PRN	F&S	II	-	LH
CO1, CO2, CO4	Explain Shashti Upakramas – 40 - 60 upakramas	СК	МК	K	L&PPT ,L,L_V C	CL-PR,PR N,T-CS	F&S	II	-	LH
CO1, CO2, CO4	Describe Ulcer – Definition, types, and wound healing stages and management	СК	МК	K	L&PPT ,L,L_V C	M-MOD,M -CHT,T-CS ,CL- PR,COM	F&S	II	-	LH
CO1, CO2, CO4	Explain Prameha pidaka - carbuncle and Diabetic wounds/ulcer	СК	МК	К	L&PPT ,L,L_V C	M-CHT,CL -PR,COM, T-CS,M- POS	F&S	II	-	LH
CO1, CO2, CO4	Identify wound healing phase & risk factors for wound complications (e.g., infection, dehiscence). Describe wound assessment techniques (e.g., visual inspection, measurement) & wound care principles	СК	МК	K	RP,PER ,D,SIM, D-M	PRN,DEB, CL-PR,INT	F&S	II	-	NLHT20.1
CO1, CO2, CO4	Identify the characteristics and causes of an ulcer and thorough examination to evaluate the ulcer.Differentiate between various types of ulcers.	СК	МК	K	CD,PT, RP,PER ,D-M	P-VIVA,P- EXAM,PR N,P- MOD,P-PS	F&S	II	-	NLHP20.1
CO1, CO2, CO4, CO5	Explain the function of the peripheral nervous system, Identify any abnormalities, and localize potential lesions accordingly.	CC	МК	K	PT,PER	PRN,P-EX AM,P- VIVA	F&S	II	-	NLHP20.2

CO1, CO2, CO4	<ol> <li>Analyze the pathogenesis, risk factors, microbial causes,</li> <li>prevention strategies, and clinical presentation of Surgical Site</li> <li>Infections (SSIs) to enhance early diagnosis and effective management.</li> </ol>			CC	МК	К	SIM,PE R,RP	P-VIVA,P UZ,QZ ,VV -Viva,P- EXAM	F&S	II	-	NLHT20.2		
CO1, CO2, CO4	<ul> <li>D1, Demonstrate the students on the correct procedure for wound dre ssing, ensuring optimal healing and preventing infection for training purpose</li> </ul>			PSY- GUD	МК	КН	D-BED, TUT,PT ,DIS,D	C-VC,OSP E,P-VIVA, CHK,INT	F&S	II	-	NLHP20.3		
Non Lecture Hour Theory														
S.No Name of Activity D			Descr	Description of Theory Activity										
NLHT 2	20.1	Sadhyovrana -(Traumatic wounds) – Nidana, Prakara, Lakshana, Upadrava and Chikitsa.	Present real-life traumatic wound cases. Analyze wound management decisions Develop treatment plans. Develop a wound management checklist. Role-play traumatic wound scenarios.											
NLHT 20.2     Surgical site infection.     Pr       A     D		Present real-life SSI cases for group discussion. Analyze SSI prevention measures and outcomes. Develop SSI prevention plans.												
Non Le	ecture H	lour Practical												
S.No		Name of Practical	Description of Practical Activity											
NLHP 20.1     Examination of an Ulcer     Steps       1. Pati       Onset			Steps         1. Patient History:         Onset and Duration: Ask when the ulcer first appeared and how long it has been present.											

		<ul> <li>Symptoms: Inquire about pain, discharge, bleeding, itching, and any other associated symptoms. Medical History: Review any underlying medical conditions such as diabetes, vascular diseases, or previous ulcers.</li> <li>Lifestyle Factors: Discuss smoking, alcohol use, diet, and any recent trauma or injury.</li> <li>Inspection:</li> <li>Location and Size: Measure the ulcer and note its exact location on the body.</li> <li>Shape and Edges: Describe the shape (round, oval, irregular) and the edges (punched-out, undermined, rolled, or sloping).</li> <li>Base: Look at the base of the ulcer to see if it is clean, granulating, sloughy, or necrotic.</li> <li>Surrounding Skin: Examine the skin around the ulcer for redness, swelling, warmth, and any signs of infection or dermatitis.</li> <li>Discharge: Note the type (serous, purulent, bloody) and amount of any discharge.</li> <li>Palpation:</li> <li>Tenderness: Check for tenderness around and on the ulcer.</li> <li>Induration: Assess for induration (hardness) around the ulcer, which can indicate chronic inflammation or malignancy.</li> <li>Temperature: Feel the temperature of the surrounding skin to detect any increased warmth.</li> <li>Special Tests:</li> <li>Swab for Culture: If there is discharge, take a swab for microbiological examination to identify infection.</li> <li>Biopsy: If the ulcer appears suspicious or fails to heal, perform a biopsy to rule out malignancy.</li> <li>Doppler Ultrasound: Assess blood flow if a vascular cause is suspected.</li> </ul>
NLHP 20.2	Examination of the peripheral nerve lesions	Preparation steps:
		<ol> <li>Gather Equipment: Reflex hammer, tuning fork (128 Hz), cotton wool, safety pin, and a neurotip.</li> <li>Patient Preparation: Ensure the patient is comfortable and explain the procedure to gain consent.</li> </ol>

		3. Environment: A quiet room with good lighting and privacy.
		Steps for Examination
		<ol> <li>Inspection:         <ul> <li>Observe for muscle wasting, fasciculations, and abnormal movements of both side.</li> <li>Look for any scars or deformities.</li> </ul> </li> <li>Tone:         <ul> <li>Assess muscle tone by passively moving the patient's limbs.</li> <li>Check for hypertonia or hypotonia.</li> </ul> </li> <li>Power:         <ul> <li>Test muscle strength in various muscle groups.</li> <li>Use the Medical Research Council (MRC) scale (0-5) to grade power.</li> </ul> </li> <li>Reflexes:         <ul> <li>Test deep tendon reflexes (e.g., biceps, triceps, knee jerk).</li> <li>Note any hyperreflexia or hyporeflexia.</li> </ul> </li> <li>Sensation:         <ul> <li>Test light touch, pain, and temperature sensation using cotton wool and a neurotic.</li> <li>Assess vibration sense with a tuning fork, starting distally and moving proximally if needed.</li> <li>Coordination:                 <ul> <li>Perform tests like finger-to-nose and heel-to-shin to assess coordination.</li> </ul> </li> </ul> </li> </ol>
NLHP 20.3	Demonstration of wound dressings	Steps:
		<ul> <li>Preparation:</li> <li>Gather essential materials: Sterile gloves, Vrana Shodhana/ Ropan medicines, instruments, saline solution, gauze, adhesive tape, antibiotic ointment, and non-stick dressing.</li> </ul>

1	• Wash hands thoroughly.									
	2. Initial Inspection:									
	• Assess the wound for size, shape, discharge, site, depth, and signs of infection.									
		3. Cleanin	g/debriden	nent/:						
		•	Rinse the v	wound wit	h saline sol	ution/ kwatha.				
		•	Pat dry wi	th sterile g	auze.					
		4. Applica	tion of Oir	tment/oil/	lepa:					
		•	Apply a th	in layer of	antibiotic	/ Ointment/oil	/ lepa on t	he wou	nd.	
		5. Dressin	g the Wou	nd:			-			
		•	Place a not	n-stick dre	essing over	the wound.				
		•	Secure it v	with gauze	and adhesi	ve tape.				
		6. Final In	spection:	-		-				
		•	Ensure the	dressing i	is secure bu	t not too tight/	loose.			
		•	Check for	any imme	diate allerg	ic reactions or	discomfor	rt.		
Topic	21 Kshudra Roga (LH :2 NLHT: 0 NLHP: 2)									
A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO1.	Define Kshudrarogas:Clinical features and management of first	СК	MK	K	L,L&G	P-VIVA,PP	F&S	II	-	LH
CO4,	CO4. 20 disorders i.e Ajagalika to Sharkararbhuda				D.D.L&	-Practical,P				
CO5					PPT,PT	RN,VV-Vi				
						va,P-				
						EXAM				

CK

PSY-

GUD

MK

MK

Κ

KH

L,PL,L

&GD,P

ER,L&P

PT

SDL,D-

BED,DI

S,TUT,

CBL

T-OBT,VV

-Viva,SA,T-

CS,P-REC

PA,P-VIV

A,VV-Viva

,INT,PP-

Practical

F&S

F&S

Π

Π

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Define Kshudrarogas: Clinical features and management of last

the proper techniques for a comprehensive hand examination, eval

uating structure and function, and identifying any abnormalities.

23 disorders i.e Pama to Gudhabramsha

CO1,

CO4,

CO5

CO1,

CO2,

CO4

Demonstrate

LH

NLHP21.1

Non Lecture	e Hour Theory		
S.No	Name of Activity	Description of Theory Activity	
Non Lecture	e Hour Practical		
S.No	Name of Practical	Description of Practical Activity	
NLHP 21.1	Examination of the Hand	Steps:Preparation:Gather materials: Examination gloves, a penlight, measuring tape, and a reflex hammer.Ensure the patient's hand is clean and free from any hindrances.Initial Observation:Inspect the hand for swelling, redness, deformities, or any skin abnormalities.Note the condition of the nails and the presence of any scars or atrophy.Palpation:Gently palpate the bones, joints, and soft tissues.Check for tenderness, swelling, and temperature differences.Range of Motion:Ask the patient to perform active movements such as flexion, extension, abduction, adduction, and opposition.Assess the range and note any pain or limitation.Strength Testing:Evaluate the muscle strength by asking the patient to perform specific hand grips and movements against resistance.Compare strength in both hands.Special Tests:Perform tests like Tinel's sign, Phalen's test, and Finkelstein's test to check for carpal tunnel syndrome, De Quervain's tenosynovitis, etc.Note any positive signs and their implications.Neurological Examination:Check sensation across the dermatomes of the hand.	

	Evaluate reflexes using the reflex hammer.
	Final Assessment:
	Summarize findings and document any abnormalities or concerns.
	Discuss further steps or refer to a specialist if necessary.

# Topic 22 Manya Vikara (LH :3 NLHT: 3 NLHP: 6)

A3	B3	C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3
CO1, CO2, CO4	Define Nidana, Samprapti, Lakshana and Chikitsa of Gandamala and Apachi -Lymphadenitis.	СК	DK	К	L&PPT ,L	P-VIVA,P- REC,T-CS, PRN,CL- PR	F&S	Π	-	LH
CO1, CO2, CO4	Define Pashanagardhabha – Etiopathogenesis, Clinical Features, Investigations, Differential Diagnosis, Complications, and Management of Parotitis.	СК	МК	КН	L,L_VC ,L&PPT	CL-PR,P-V IVA,PRN, VV-Viva,T- CS	F&S	II	-	LH
CO1, CO2, CO4	Examine the anatomical structure, vascular and neural connections, physiological functions, and pathological conditions of the thyroid gland to understand its role in metabolism, growth, and endocrine regulation.	САР	МК	К	L&PPT ,L,DIS, PL	P-VIVA,T- CS,P-EXA M,VV-Viva	F&S	II	V-RS,V -KS,V- RS	NLHT22.1
CO1, CO2, CO4	Define Etiopathogenesis, Clinical feature , Investigations, Diffrential Diagnosis , complications, and management of Galaganda (Goitre)	CC	МК	К	L&PPT ,L_VC, L&GD, L	T-CS,CL- PR,PRN, C- VC	F&S	Π	-	LH
CO1, CO2, CO4	Analyze the pathophysiology, clinical presentation, complications, and management of toxic goiter and thyroiditis, integrating diagnostic approaches and treatment modalities for effective clinical decision-making.	САР	МК	K	SIM,DI S,CBL, L_VC,S DL	P-VIVA,C L-PR,PRN, VV-Viva,P- CASE	F&S	II	-	NLHT22.2

CO1, CO2, CO4	Evaluat neoplas while in of Galag	e the etiology, risk factors, and pathophysiology of ms, distinguishing between benign and malignant ty tegrating the Ayurvedic perspective on the pathoge ganda.	thyroid ypes, nesis	CAN	МК	K	DIS,RP, L_VC,L RI,PER	C-VC,P-VI VA,CL- PR,PRN	F&S	II	-	NLHT22.3
CO1, CO2, CO4	<ol> <li>Demonstrate accurately the thyroid gland for any abnormalities, i</li> <li>ncluding enlargement, nodules, or signs of thyroid dysfunction</li> </ol>		САР	МК	K	L&GD, D-M,D, PL,L_V C	Mini-CEX, P-EXAM,P -VIVA,P- CASE,PRN	F&S	II	-	NLHP22.1	
CO1, CO2, CO4	<ul> <li>CO1, Demonstrate accurately</li> <li>CO2, the neck for structural abnormalities, lymph node enlargement,</li> <li>CO4 thyroid or vascular anomalies, etc.</li> </ul>		САР	МК	K	L_VC,C BL,DIS, CD,PER	CHK,VV-V iva,P-EXA M,INT,P- VIVA	F&S	II	-	NLHP22.2	
CO1, Demonstrate and learn to assess the lymphatic system for signs of lymphadenopathy or other associate pathological conditions CO4		САР	МК	K	PT,D,DI S,TUT, L&GD	P-VIVA,O SCE, C-VC ,Mini-CEX, P-EXAM	F&S	Π	-	NLHP22.3		
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
NLHT 2	22.1	Thyroid gland - anatomy & physiology	Anatomy Dissection:         Use a virtual dissection tool or models to explore the thyroid gland's anatomy.         Have students label the anatomical parts and discuss the blood supply and innervation.         Clinical Case Studies:         Present case studies of patients with thyroid disorders.         Students diagnose the condition, describe the physiological basis of the symptoms, and suggest treatments.         Interactive Quizzes and Flashcards:         Develop quizzes and flashcards for key terms and concepts related to thyroid anatomy and physiology.						ggest I physiology.			

		Use apps or platforms that allow students to test their knowledge in a fun and engaging way. <b>Group Discussions and Presentations</b> : Assign topics related to thyroid gland physiology (e.g., the impact of iodine deficiency on thyroid function) for group research and presentations. Encourage students to ask questions and debate different perspectives.
NLHT 22.2	Toxic goiter, Thyroiditis	<ul> <li>Pathophysiology Diagrams:</li> <li>Students create detailed diagrams showing the development and pathophysiological mechanisms of toxic goiter and thyroiditis.</li> <li>Use these diagrams to present to the class and explain the processes involved.</li> <li>Clinical Case Discussions:</li> <li>Provide case studies of patients with toxic goiter and different types of thyroiditis.</li> <li>Students diagnose, explain the clinical symptoms, suggest diagnostic tests, and propose treatment plans.</li> <li>Laboratory Tests Analysis:</li> <li>Analyze lab results for thyroid function tests (e.g., TSH, T3, T4 levels) in patients with toxic goiter and thyroiditis.</li> <li>Interpret the results and discuss their implications.</li> <li>Group Presentations:</li> <li>Assign groups to research and present on specific types of thyroiditis, detailing their etiology, clinical features, and treatment.</li> <li>Encourage discussions and Q&amp;A sessions to foster deeper understanding.</li> <li>Patient Education Role-play:</li> <li>Students role-play as healthcare providers explaining the condition, treatment options, and lifestyle modifications to a patient with toxic goiter or thyroiditis.</li> </ul>
NLHT 22.3	Neoplasm of Galaganda (thyroid) -Nidana, Samprapti, Lakshana and Chikitsa	Etiology Analysis: Students create a chart or mind map outlining the different causes and risk factors for thyroid

	neoplasms. Group discussion on how these factors are viewed in both modern medicine and Ayurveda. <b>Clinical Case Presentations</b> : Provide case studies of patients with thyroid neoplasms. Students diagnose the condition, describe the clinical features, and suggest both modern and Ayurvedic treatment plans. <b>Treatment Debate</b> : Organize a debate on the pros and cons of conventional versus Ayurvedic treatment modalities for thyroid neoplasms. Encourage students to research and present evidence-based arguments.

## Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 22.1	Examination of Galaganda (thyroid gland)	Steps:
		Preparation:
		Gather materials: Stethoscope, a glass of water, and gloves.
		Ensure the patient is comfortably seated with the neck exposed.
		Inspection:
		Observe the neck for any visible swelling, asymmetry, or scars.
		Ask the patient to swallow a sip of water while you watch for upward movement of the thyroid gland.
		Palpation:
		Stand behind the patient and place your fingers on either side of the trachea.
		Ask the patient to swallow again and feel for the thyroid gland's consistency and movement.
		Gently palpate for any nodules or tenderness.
		Assess each lobe individually and the isthmus for size and texture.
		Auscultation:
		Using the stethoscope, listen over the thyroid gland for any bruits, which could indicate increased
		vascularity.

		<ul> <li>Special Tests:</li> <li>Perform Pemberton's sign by asking the patient to raise their arms above their head for a few minutes.</li> <li>Observe for facial congestion or cyanosis, indicating thoracic inlet obstruction.</li> <li>Evaluation:</li> <li>Note any findings such as goiter, nodules, or irregularities and any systemic findings.</li> <li>Document the size, texture, and presence of any abnormalities.</li> <li>Discussion:</li> <li>Explain the findings to the patient and discuss any necessary further tests or referrals.</li> </ul>
NLHP 22.2	Examination of the Gala (Neck)	Steps:         Preparation:         Gather materials: Stethoscope, gloves, and a flashlight.         Ensure the patient is comfortably seated with neck exposed.         Inspection:         Observe the neck for symmetry, swelling, scars, or visible pulsations.         Note any abnormalities such as masses or skin changes.         Palpation:         Palpate the lymph nodes: Start with preauricular, posterior auricular, occipital, submental, submandibular, cervical, and supraclavicular nodes.         Check for tenderness, size, consistency, and mobility.         Palpate the thyroid gland by placing your fingers on either side of the trachea and asking the patient to swallow.         Assess the carotid arteries for pulse and any abnormal thrills.         Auscultation:         Use a stethoscope to listen over the carotid arteries for bruits, indicating turbulent blood flow.         Listen over the thyroid gland for any vascular sounds.         Range of Motion:         Ask the patient to perform neck movements: flexion, extension, lateral bending, and rotation.         Note any pain, limitation, or discomfort.

		<ul> <li>Neurological Examination:</li> <li>Check for muscle strength and tone in the neck muscles.</li> <li>Assess the cranial nerves by testing functions such as shrugging shoulders (CN XI - Accessory nerve).</li> <li>Documentation:</li> <li>Record all findings, noting any abnormalities or asymmetries.</li> <li>Discuss potential next steps or referrals if needed.</li> </ul>
NLHP 22.3	Examination of a Lymphatic system	Steps:         Preparation:         Gather materials: Gloves, a stethoscope, and a measuring tape.         Ensure the patient is comfortably seated or lying down.         Inspection:         Observe the skin for any swelling, redness, or visible lymph nodes.         Note any asymmetry or obvious abnormalities.         Palpation:         Systematically palpate the lymph nodes: cervical, axillary, inguinal, supraclavicular, mammary, and popliteal.         Check for size, shape, size, consistency, mobility, tenderness, and warmth.         Document any enlarged lymph nodes.         Special Techniques:         For deep lymph nodes, such as the retroperitoneal, consider imaging studies like ultrasound or CT scan.         Assess the spleen as it is part of the lymphatic system by palpating the left upper quadrant of the abdomen.         Auscultation:         Use a stethoscope to listen over the lymph nodes for any abnormal bruits, which could indicate vascular anomalies.         Assessment of Associated Structures:         Evaluate the tonsils, spleen, and thymus if accessible.         Check for signs of systemic infection or lymphatic diseases.

	Docu Recor Plan f	mentation d all findir	: ngs, includi estigations	ng any ab if any path	normalities nological fi	s in size, shape ndings are not	, or tender ed.	ness of	the lymph	nodes.		
<b>Topic</b>	Fopic 23 Sira Vikara (Venous Disorders) (LH :3 NLHT: 1 NLHP: 4)											
A3	B3	C3	D3	E3	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3		
CO1, CO2, CO4	Define Surgical anatomy and pathology of key surgical regions (e.g., abdomen, thorax, pelvis, limbs) and their role in the diagnosis and management of Venous diseases. Discuss the principles of biopsy, excision, and histopathological e valuation.	СК	МК	К	PL,L& GD,PE R,L_VC	PA, C-VC, T-CS,SA,V V-Viva	F&S	Π	V-RS,V -KS,V- RS	NLHT23.1		
CO1, CO2, CO4	Define Etiopathogenesis, Clinical feature, Investigations, Differential Diagnosis, complications and management of Superficial and Deep venous Thrombosis	СК	MK	K	L&PPT ,L	PA,P-VIV A,VV- Viva,PRN	F&S	II	-	LH		
CO1, CO2, CO4	Define Etiopathogenesis, Clinical Features, Investigations, Differential Diagnosis, complications, and management of Varicose veins	СК	МК	K	PL,SDL ,LRI,FC ,L_VC	CL-PR,M- CHT,VV-V iva,P- VIVA,PRN	F&S	Π	-	LH		
CO1, CO2, CO4	Demonstrate varicose veins, evaluate their severity, and their implications for treatment and patient care.	PSY- GUD	МК	К	PL,TUT ,DIS,PT ,CD	Mini-CEX, CHK,P-MO D,P-VIVA, CL-PR	F&S	Π	-	NLHP23.1		
CO1, CO2, CO4	Describe Etiopathogenesis, Clinical features, Investigations, Differential Diagnosis, Complications (Varicose eczema, Lipodermosclerosis), and Management of Siraja Vrana (Venous Ulcers).	СК	МК	K	L_VC,L ,L&PPT ,PER	INT,T-CS, C-VC,C-IN T,P-VIVA	F&S	II	-	LH		

CO1, CO2, CO4	Differe dentify es.	ntiate between unilateral and bilateral lower li ing underlying causes and appropriate manage	imb edema, i ement strategi	CAN	МК	КН	PT,SDL ,CD,CB L,L_VC	PRN, C-VC ,CL-PR,P- VIVA,P- EXAM	F&S	II	-	NLHP23.2	
Non L	ecture I	Hour Theory		•									
S.No Name of Activity Descr			Description of Theory Activity										
NLHT 23.1     Surgical Anatomy & Surgical Pathology     Cada Enga High Surg Prese Have inter       Path Revi Disc     Path Revi Disc				Cadaveric Dissection:         Engage students in hands-on dissection to explore surgical anatomy.         Highlight critical anatomical landmarks and discuss their relevance in surgical procedures.         Surgical Case Studies:         Present real-life surgical cases.         Have students diagnose conditions based on anatomical and pathological findings and suggest surgical interventions.         Pathology Reports Analysis:         Review and analyze pathology reports from biopsy and surgical specimens.         Discuss the implications of the findings and their impact on patient management.         Anatomy and Pathology Correlation:         Create charts or models showing the correlation between anatomical structures and pathological processes.         Discuss how anatomical variations can influence disease presentation and surgical outcomes.									
Non L	ecture I	Hour Practical											
S.No		Name of Practical	Desci	ription of	Practica	Activity							

S.No	Name of Practical	Description of Practical Activity
NLHP 23.1	Examination of Varicose Vein	Steps:
		Preparation:
		Gather materials: Tape measure, stethoscope, gloves, and a Doppler ultrasound (if available).
		Ensure the patient is standing up during the inspection and palpation for a more accurate assessment.

		Inspection: Observe the legs for visible signs of varicose veins, noting the location, size, and pattern. Look for skin changes such as discoloration, ulcers, or dermatitis. Palpation: Gently palpate the varicose veins to assess for tenderness, temperature, and firmness. Check for any signs of thrombosis or skin changes around the veins. Special Tests: Trendelenburg Test: Elevate the patient's leg, apply a tourniquet to the thigh, and have the patient stand up. Observe for rapid filling of veins which indicates valvular incompetence. Doppler Ultrasound: If available, use to evaluate venous flow and valve function. Measure and Document: Measure the circumference of the affected areas at different levels of the leg to track swelling and varicosity changes. Document findings including the severity, pattern, and any associated symptoms. Patient Discussion: Explain the findings to the patient. Discuss lifestyle changes, compression stockings, and potential medical or surgical treatments if necessary.
NLHP 23.2	Examination and differential diagnosis of unilateral and bilateral lower limb edema	Steps:         Preparation:         Gather materials: Measuring tape, stethoscope, and gloves.         Ensure the patient is comfortably seated or lying down with legs exposed.         Initial History:         Take a thorough history including onset, duration, and associated symptoms (pain, redness, warmth, shortness of breath).         Ask about medical history (heart failure, liver disease, kidney disease, venous insufficiency, or recent trauma).         Inspection:         Observe both lower limbs for swelling, asymmetry, discoloration, skin changes (ulceration, redness,

cyanosis).

Note any visible varicose veins, surgical scars, or signs of infection.

#### Palpation:

Gently palpate the swollen area to assess pitting (press the skin for a few seconds and observe the indentation).

Compare temperature between limbs to identify increased warmth (suggesting infection or inflammation).

Assess for tenderness, firmness, and extent of edema.

#### Measurement:

Measure the circumference of both lower limbs at fixed points (ankles, calves, and thighs).

Compare measurements to identify asymmetry and severity of swelling.

#### Auscultation:

Listen over the femoral and popliteal arteries for bruits, indicating vascular abnormalities.

#### Special Tests:

Homan's Sign: Dorsiflex the foot to check for calf pain (suggesting deep vein thrombosis).

**Venous Doppler Ultrasound:** If available, use to assess venous flow and identify obstruction or reflux.

#### Differential Diagnosis:

#### **Unilateral Edema:**

Deep vein thrombosis

#### Cellulitis or infection Trauma or injury

Venous insufficiency

Tumor or obstruction

#### **Bilateral Edema:**

#### Heart failure

Chronic kidney disease

Liver cirrhosis

Chronic venous insufficiency

Hypoalbuminemia

Topic 2	Topic 24 Dhamani Vikara (Arterial disorders) (LH :3 NLHT: 0 NLHP: 2)											
A3		B3		C3	D3	<b>E3</b>	<b>F3</b>	G3	H3	I3	K3	L3
CO1, CO2, CO4	Define Differen Aneurys	Etiopathogenesis, Clinical Features, Investigations, atial diagnosis, complications, and management of sm.		СК	МК	К	L_VC,L &GD,L &PPT ,L	CL-PR,P-V IVA,PRN,T -CS,VV- Viva	F&S	II	-	LH
CO1, CO2, CO4	<ul> <li>Define Etiopathogenesis, CF, Investigations, DD, Complications and management of Burger's disease</li> <li>Herricht and Management of Burger's disease</li> </ul>		СК	МК	K	L&GD, L,L&PP T ,DIS,C D	P-VIVA,C L-PR,PA,M -POS,VV- Viva	F&S	Π	-	LH	
CO1, CO2, CO4	, Define Etiopathogenesis, CF, Investigations, DD, Complications , and management of Raynaud's disease		СК	МК	К	L,L_VC ,L&PPT ,L&GD	VV-Viva,C L-PR,P-VI VA,T- CS,COM	F&S	II	-	LH	
<ul> <li>CO1, Demonstrate accurate assessment for peripheral vascular diseases, including arterial and venous disorders, and differentiate between them for appropriate diagnosis and management.</li> </ul>		PSY- GUD	МК	К	SIM,D- M,D,C D,DIS	P-VIVA,IN T,P- EXAM, C- VC,C-INT	F&S	II	-	NLHP24.1		
Non Lecture Hour Theory												
S.No Name of Activity Descr		Description of Theory Activity										
Non Lecture Hour Practical												
S.No Name of Practical Desc		Descr	Description of Practical Activity									

NLHP 24.1	Examination of the Dhamani Vikara (peripheral vascular diseases)	Steps: Preparation: Cather materials: Statheseone, Deppler ultresound (if evailable), measuring target and also as
		Ensure the patient is comfortably seated or lying down with the lags exposed
		Initial History:
		Take a thorough history including symptoms (pain cramping discoloration) duration and any
		aggravating or relieving factors.
		Ask about medical history (diabetes, hypertension, smoking, hyperlipidemia).
		Inspection:
		Observe the skin for color changes, ulcers, hair loss, and atrophy.
		Note any visible varicose veins, edema, or signs of infection.
		Palpation:
		Palpate pulses (radial, femoral, popliteal, posterior tibial, and dorsalis pedis) and compare bilaterally.
		Assess the temperature of the skin, checking for cold extremities which may indicate arterial
		insufficiency.
		Palpate for tenderness, particularly in the calf muscles.
		Measurement:
		Measure limb circumference at fixed points (ankles, calves, and thighs) to assess for swelling or asymmetry.
		Special Tests:
		Ankle-Brachial Index (ABI): Compare blood pressure in the ankle with the arm using a Doppler to
		detect peripheral artery disease.
		Buerger's lest: Elevate the legs and observe for pallor. Lower the legs and check for reactive
		Nyperenna. Ny mana Danmian Litanggan da if available, use to assess for yer over reflux or door weir thrombosis
		<b>Canillary Refill Time:</b> Press on the nail bed and observe the time taken for color to return: prolonged
		refill time may indicate poor perfusion
		Auscultation:
		Listen for bruits over major arteries which may indicate stenosis
		Documentation and Differential Diagnosis:
		Documentation and Differential Diagnosis.
	Record all findings, noting any abnormalities in pulses, color, temperature, or swelling. Consider differential diagnoses such as peripheral artery disease, chronic venous insufficiency,	
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	lymphedema, or deep vein thrombosis.	

#### Topic 25 Snavu Vikara (Diseases of tendons and ligaments) (LH :2 NLHT: 0 NLHP: 4) A3 **B3 C3 D3 E3** F3 **G3 H3** I3 **K3** L3 CO1, Define Diseases of tendons and ligaments - Tendonitis, CK MK Κ L&PPT **PP-Practica** F&S Π LH \_ CO2. tenosynovitis, ganglion and their management Dupuytren's .L&GD. 1.P-EXAM, CO4 PL,L,B T-CS,PRN, contracture L CL-PR CK MK Κ Define Amputation, Classifications, Indication & L&GD. T-CS,PA,P CO1. F&S Π LH \_ CO2, Contraindications L VC,L RN,SA,VV-CO4 &PPT Viva L. PSY-SBA.VV-V CO1, Demonstration of peripheral vascular diseases, perform amputatio MK Κ CBL.T F&S Π NLHP25.1 \_ CO2, ns when necessary, and manage potential complications. UT,DIS, iva,DEB,P MEC CO3, RLE,PS RN.P-CO4, Μ EXAM CO5 PSY-DK VV-Viva,M Demonstrate the diagnosis of diseases affecting the muscles, liga Κ PER,DI F&S NLHP25.2 CO1. Π \_ ments, tendons, and fascia, understanding their function, CO2, S,D,CD, -MOD,CL-MEC and identifying any pathological conditions. D-BED CO4 PR,Log book,OSCE **Non Lecture Hour Theory** S.No Name of Activity **Description of Theory Activity** Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 25.1	Techniques of Amputation & Complications with examples of individual amputation	<ul> <li>Steps:</li> <li>Preparation:</li> <li>Gather materials: Stethoscope, Doppler ultrasound, measuring tape, gloves, and surgical instruments.</li> <li>Ensure the patient is comfortably positioned with the affected limb exposed.</li> <li>Initial History:</li> <li>Take a thorough history including symptoms (pain, cramping, discoloration), duration, and any aggravating or relieving factors.</li> <li>Ask about medical history (diabetes, hypertension, smoking, hyperlipidemia).</li> <li>Inspection:</li> <li>Observe the skin for color changes, ulcers, hair loss, and atrophy.</li> <li>Note any visible varicose veins, edema, or signs of infection.</li> <li>Palpate pulses (radial, femoral, popliteal, posterior tibial, and dorsalis pedis) and compare bilaterally.</li> <li>Assess the temperature of the skin, checking for cold extremities which may indicate arterial insufficiency.</li> <li>Palpate for tenderness, particularly in the calf muscles.</li> <li>Measure limb circumference at fixed points (ankles, calves, and thighs) to assess for swelling or asymmetry.</li> <li>Special Tests:</li> <li>Ankle-Brachial Index (ABI): Compare blood pressure in the ankle with the arm using a Doppler to detect peripheral artery disease.</li> <li>Buerger's Test: Elevate the legs and observe for pallor. Lower the legs and check for reactive hyperemia.</li> <li>Venous Doppler Ultrasound: If available, use it to assess for venous reflux or deep vein thrombosis.</li> <li>Capillary Refill Time: Press on the nail bed and observe the time taken for color to return; prolonged refill time may indicate poor perfusion.</li> </ul>

		Listen for bruits over major arteries which may indicate stenosis. Amputation Techniques: Preoperative Planning: Assess the viability of the limb, plan the level of amputation, and prepare the patient. Surgical Procedure: Perform the amputation with an aseptic technique, ensuring proper hemostasis and shaping the stump for prosthetic fitting. Postoperative Care: Monitor for complications, manage pain, and initiate rehabilitation. Complications: Infection: Monitor for signs of infection and treat promptly with antibiotics. Phantom Limb Sensation: Educate the patient about phantom limb sensations and provide appropriate interventions. Residual Limb Pain: Manage pain with medications and physical therapy. Joint Contractures: Prevent contractures with proper positioning and physical therapy. Deep Vein Thrombosis (DVT): Use anticoagulants and compression therapy to prevent DVT.
NLHP 25.2	Examinations of Diseases of Snayu Vikara (Muscle, Ligaments, Tendon and Fascia)	Steps:Preparation:Gather materials: Stethoscope, measuring tape, goniometer, gloves, and reflex hammer.Ensure the patient is comfortably seated or lying down, with the affected area exposed.Initial History:Take a thorough history, including symptoms (pain, stiffness, weakness, swelling), onset, and any aggravating or relieving factors.Ask about medical history (trauma, overuse injuries, occupational stress, systemic diseases like rheumatoid arthritis or lupus).Inspection:Observe the affected area for swelling, redness, bruising, atrophy, or deformity.Note any changes in posture or gait.Palpation:Gently palpate the muscles, ligaments, tendons, and fascia for tenderness, swelling, warmth, and abnormalities.

	Asses Check Rang Ask t Use a Note Stren Evalu Com Speci Musc Ligar Tend tendo Fasci Neuro Asses Check Imag Reco exten Docu Reco Discu	as muscle to k for crepiti e of Motion he patient t goniomete any limitat gth Testing tate muscle pare strengt al Tests: le: Perform nent: Condi on: Use the ns. a: Check for blogical Ex ss reflexes to k for sensat ing and Fur mmend ima t of injury. mentation: rd all findir uss potentia	one, bulk, a us (a crack o perform a er to measu ions, pain, : strength us h in both li n tests like r uct stress to Thompsor or signs of p amination: using a refl cion and mo ther Tests: aging studio ngs, noting l diagnoses	and tender ling sound active and re joint an or discom sing a grad manual m ests (e.g., n test for <i>A</i> plantar fas ex hamme otor functi es like X-n any abnor s and furth	ness. I) in the ten passive mo- gles accura fort during ding system entify asym uscle testing Lachman te Achilles ten ciitis by pa er. on in the af rays, MRI, or rmalities in ter investiga	dons during m ovements to as itely. movement. n (0-5) by askin metry. g (MMT) and est for ACL into don rupture an lpating the sol ffected area. or ultrasound to muscle streng ations if neede	novement. Assess the rational set of the patient of	ent to r ograph assess ecific t ssing fo the dia of mot	motion. resist your a y (EMG) if ligament st ests for dif or pain. agnosis and ion, and sp	movements. f available. ability. ferent assess the ecial tests.
Topic 2	26 AIDS - HIV and Hepatitis (B and C) (LH :1 NLHT: 0 N	<b>NLHP: 2</b> )								
A3	B3	C3	D3	<b>E3</b>	<b>F3</b>	G3	H3	I3	K3	L3
CO1,	Describe Care of AIDS - HIV and hepatitis infected (Hepatitis B	CC	MK	K	CD,L_V	C-VC,T-C	F&S	II	V-RN	LH

CO2, CO3, CO4	and C) p	patients.					C,SDL, L&PPT ,L	S,PA,VV- Viva,SA				
<ul> <li>CO1, Demonstrate to ensure the safety of healthcare workers and p</li> <li>CO3, ts by implementing appropriate infection control measures w</li> <li>ealing with HIV and Hepatitis B and C infected patients.</li> </ul>		l patien when d	PSY- GUD	МК	КН	L_VC,D IS,SDL, PER,PT	PRN,SA,P A,P-VIVA, VV-Viva	F&S	II	-	NLHP26.1	
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Desci	ription of	Theory A	Activity						
Non Le	ecture H	lour Practical										
S.No		Name of Practical	Desci	ription of	Practical	Activity	7					
NLHP 2	26.1	Safety Precautions in the patient of HIV and hepatitis infected Hepatitis B and C Patients	Steps Prepa Gathe protect Ensur Hand Perfor Use a Use o Wear Use m Safe I Use st Dispo Enviro Clean Use a	ration: r materials ction. e availabil Hygiene: rm hand hy lcohol-base f Personal gloves wh nasks, gow njection Pr terile, sing se of need onmental O and disinf ppropriate	: Personal ity of hand giene befored hand ru Protective en coming ns, and ey- ractices: le-use need les and syn Cleaning: ect surface disinfectar	protective hygiene : ore and aft b or wash Equipme into conta e protectio dles and sy inges in p es and equints and fol	e equipmen supplies (ha er patient c hands with nt (PPE): act with blo on if there is yringes for i uncture-res ipment that llow the ma	t (PPE) includ and sanitizer, s ontact. soap and wate od, body fluid s a risk of spla injections. istant sharps c may have con nufacturer's in	ing gloves oap, and v er for at lea s, secretio shes or spi ontainers i ne into con astructions	, masks vater). ast 20 se ns, or ce rays of t mmedia ntact wi for use.	, gowns, a econds. ontaminate blood or be ately after th blood o	nd eye ed items. ody fluids. use. r body fluids.

1       1	Patient Placement: Place patients with known or suspected infectious diseases in private rooms or cohorts with patients with the same infection. Limit patient movement within the facility to reduce the risk of transmission. Respiratory Hygiene and Cough Etiquette: Encourage patients to cover their mouth and nose with a tissue when coughing or sneezing. Provide tissues and no-touch receptacles for disposal. Safe Handling of Linen and Waste: Handle soiled linen with minimal agitation to avoid contamination of air, surfaces, and persons. Dispose of medical waste, including contaminated linen, in designated containers. Education and Training: Educate healthcare workers on infection control practices and the importance of adhering to safety precautions. Provide training on the proper use of PPE and safe handling of potentially infectious materials. Reporting and Follow-Up: Report any exposure incidents (needlestick injuries, splashes) immediately to the designated person or health care professional.
R he Fe	Report any exposure incidents (needlestick injuries, splashes) immediately to the designated person or health care professional. Follow up with appropriate post-exposure prophylaxis and medical evaluation.

Paper 2	2 (Shalya Tantra Chikitsa Siddhanta)									
A3 Cour se out come	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domai n/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessmen t	H3 Assess ment Type	I3 Ter m	K3 Integra tion	L3 Type
Topic 2	Topic 27 Bhagna (Skeletal Injuries) (LH :3 NLHT: 5 NLHP: 8)									
A3	B3	C3	D3	E3	F3	G3	Н3	13	K3	L3

CO1, CO2, CO4	Describe Prakara of Bhagna including pathological fracture, Samanya Lakshana, Upadrava, and Chikitsa of Bhagna	CC	МК	K	X-Ray, L&GD, L&PPT ,L,CD	VV-Viva,C L-PR,PP-Pr actical,CO M,PRN	F&S	II	-	LH
CO1, CO2, CO4	Analyze the anatomical structure, biomechanical mechanisms, clinical presentation, diagnosis, and management of scapular and clavicular fractures.	CC	МК	K	X-Ray,S DL,DIS, D-M,L_ VC	VV-Viva,S A,P- CASE,Log book,PP- Practical	F&S	II	-	NLHT27.1
CO1, CO2, CO4	Define Clinical features, Diagnosis, Complications, and Management - humerus, radius, ulna,	СК	МК	Κ	L,L_VC ,D,TUT, X-Ray	VV-Viva,P RN,P-EXA M,PP-Pract ical,P- VIVA	F&S	II	-	LH
CO1, CO2, CO4	Analyze the anatomical structure, fracture mechanisms, clinical presentation, diagnosis, management, and rehabilitation strategies for femur and patella fractures.	CC	МК	Κ	L&GD, PBL,SI M,PER, PL	P- VIVA,Log book,SA,P RN,PA	F&S	II	-	NLHT27.2
CO1, CO2, CO4	Examine the anatomical features, assess fracture mechanisms, interpret clinical presentations, formulate diagnostic approaches, implement management strategies, and integrate rehabilitation and physiotherapy principles for tibia and pelvis fractures.	СК	МК	K	X-Ray, CBL,DI S,RP,PE R	P-VIVA,C OM,P-EXA M,SA,PRN	F&S	II	-	NLHT27.3
CO1, CO2, CO4	Describe the signs and symptoms of joint dislocations. Identify common joints prone to dislocation (e.g., shoulder, knee, hip) and discuss their signs and symptoms, types, diagnostic techniques, management, and complications.	CC	МК	K	X-Ray, D,SY,P ER,L_V C	VV-Viva,P A,DEB,PP- Practical, C- VC	F&S	II	-	NLHT27.4
CO1,	Analyze the anatomical structures, investigate the mechanisms,	CAN	МК	K	PER,L_	VV-Viva,P	F&S	II	-	NLHT27.5

CO2, CO4	classify techniqu complic shoulde	the types, interpret the clinical signs, apply diagnost ues, devise management strategies, evaluate cations, and integrate rehabilitation and physiotherap r and elbow dislocations.	tic vy for				VC,TU T,PL,S DL	P-Practical, INT,P-EXA M,PRN				
CO1, CO2, CO4	Explain and diag diagnos	how to assess accurately gnose bone and joint injuries, ensuring appropriate is and treatment.		PSY- GUD	MK	К	DIS,TU T	PRN,P-EX AM,P-ID	F	II	-	NLHP27.1
CO1, CO2, CO4	Explain Wrist, E joints, e	how to assess accurately and diagnose injuries of th Elbow, Shoulder, Ankle, Knee, and Hip nsuring appropriate diagnosis and treatment.	le	CAN	МК	КН	PER,DI S,CD,SI M,D- BED	PRN,P-VIV A,CL-PR, Mini- CEX,CHK	F&S	II	-	NLHP27.2
CO1, CO2, CO4	Demons kin and asures.	strate and provide hands-on training on the application skeletal traction, ensuring proper technique and safe	on of s ety me	PSY- GUD	МК	КН	D-BED, PER,BL ,RP,D	DEB,CL-P R,VV-Viva, P- VIVA,PRN	F&S	II	-	NLHP27.3
CO1, CO2, CO4	Demons to paties proper s	strate and provide immediate and appropriate first ain nts with fractures, minimizing complications and en- stabilization until further treatment can be obtained.	d care suring	PSY- GUD	MK	К	CBL,SD L,DIS,P ER,SIM	P-EXAM,P- VIVA, C-V C,INT,PRN	F&S	II	-	NLHP27.4
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
NLHT 2	27.1	Fracture of scapula & clavicle	Anatomy Lab: Hands-on sessions with anatomical models to study the scapula and clavicle.Identify and label anatomical landmarks important for understanding fractures.Mechanism of Injury Workshop: Use case studies to explore different injury mechanisms.Students discuss and simulate scenarios that could lead to fractures.Clinical Examination Practice:Role-play patient scenarios to practice identifying signs and symptoms of fractures.Discuss differential diagnoses based on clinical presentations.									

		<ul> <li>Radiology Session:</li> <li>Review and interpret X-rays and CT scans of scapula and clavicle fractures.</li> <li>Discuss how to identify different types of fractures and their implications.</li> <li>Treatment Planning:</li> <li>Develop treatment plans for various fracture scenarios.</li> <li>Discuss the pros and cons of conservative vs. surgical management.</li> <li>Rehabilitation Planning:</li> <li>Create rehabilitation plans for patients post-fracture.</li> <li>Discuss the timeline and goals of physiotherapy sessions.</li> </ul>
NLHT 27.2	Clinical features, Diagnosis, Complications, and Management of Femur & Patella	Anatomy Lab: Hands-on sessions with anatomical models or cadaveric specimens to study the femur and patella.Identify and label anatomical landmarks important for understanding fractures.Mechanism of Injury Workshop:Use case studies to explore different injury mechanisms.Students discuss and simulate scenarios leading to fractures.Clinical Examination Practice:Role-play patient scenarios to practice identifying signs and symptoms of fractures.Discuss differential diagnoses based on clinical presentations.Radiology Session:Review and interpret X-rays, MRIs, and CT scans of femur and patella fractures.Discuss how to identify different types of fractures and their implications.Treatment Planning:Develop treatment plans for various fracture scenarios.Discuss the pros and cons of conservative vs. surgical management.Rehabilitation Planning:Create rehabilitation plans for patients post-fracture.Discuss the timeline and goals of physiotherapy sessions.
NLHT 27.3	Clinical features, Diagnosis, Complications, and Management of Tibia and Pelvic bones	Clinical Examination Workshops: Practice physical examination techniques to identify signs and symptoms of tibia and pelvis conditions. Use mannequins or simulated patients for hands-on learning.

		Radiology Sessions:Review and interpret radiographic images of tibia and pelvis fractures and pathologies.Discuss case studies to apply diagnostic criteria.Case Studies and Group Discussions:Present real-life case studies with detailed histories and diagnostic data.Group discussions to develop diagnosis, treatment plans, and management strategies.Complication Analysis:Analyze potential complications from case studies.Discuss management strategies for preventing and addressing these complications.Treatment Planning:
		Develop detailed treatment plans for various scenarios involving tibia and pelvis fractures or diseases. Debate the pros and cons of conservative vs. surgical management options. <b>Rehabilitation Workshops</b> : Create and discuss rehabilitation protocols for post-fracture care. Hands-on sessions on physiotherapy techniques and their importance in recovery.
NLHT 27.4	Dislocation of joints	<ul> <li>Anatomy and Physiology Review:</li> <li>Conduct hands-on sessions with anatomical models to study the joints and understand their structures.</li> <li>Highlight key anatomical features relevant to dislocation.</li> <li>Clinical Examination Practice:</li> <li>Role-play patient scenarios to identify clinical signs and symptoms of various joint dislocations.</li> <li>Discuss the differential diagnosis based on clinical presentation.</li> <li>Radiology Interpretation:</li> <li>Review X-rays and MRIs of joint dislocations.</li> <li>Practice interpreting these images to diagnose different types of dislocations.</li> <li>Case Study Analysis:</li> <li>Present real-life case studies of joint dislocations.</li> <li>Students analyze the cases to identify clinical features, diagnostic methods, and possible complications.</li> </ul>

NLHT 27.5	Management of Shoulder & Elbow Dislocation	Anatomy Review Sessions: Use anatomical models or cadaveric specimens to study the shoulder and elbow joints.
		Identify key anatomical landmarks relevant to dislocation and reduction.
		Clinical Examination Practice:
		Role-play scenarios to practice recognizing signs and symptoms of shoulder and elbow dislocations.
		Discuss differential diagnoses and perform physical examinations.
		Radiology Workshops:
		Review and interpret X-rays and MRIs of shoulder and elbow dislocations.
		Practice identifying different types of dislocations and associated injuries.
		Reduction Technique Demonstrations:
		Demonstrate various reduction techniques on mannequins or models.
		Students practice these techniques under supervision to ensure proper understanding and execution.
		Case Study Discussions:
		Analyze case studies of patients with shoulder and elbow dislocations.
		Develop comprehensive management plans, including reduction, post-reduction care, and
		rehabilitation.

S.No	Name of Practical	Description of Practical Activity
NLHP 27.1	Examination of the Bone and Joint injuries	<ul> <li>Steps:</li> <li>Preparation:</li> <li>Gather materials: Gloves, stethoscope, measuring tape, goniometer, and reflex hammer.</li> <li>Ensure the patient is comfortably seated or lying down, with the affected area exposed.</li> <li>Initial History:</li> <li>Take a thorough history, including the mechanism of injury, symptoms (pain, swelling, deformity), and any previous injuries or conditions.</li> <li>Ask about medical history, including bone or joint disorders (e.g., osteoporosis, arthritis).</li> <li>Inspection:</li> </ul>

		Observe the affected area for swelling, bruising, deformity, or any visible wounds.
		Note any asymmetry compared to the unaffected side.
		Palpation:
		Gently palpate the bone and joint for tenderness, swelling, and temperature.
		Assess for crepitus (grating sensation) which may indicate a fracture.
		Check for joint effusion (fluid buildup).
		Range of Motion:
		Ask the patient to perform active and passive movements to assess the range of motion.
		Use a goniometer to measure joint angles accurately.
		Note any limitations, pain, or instability during movement.
		Strength Testing:
		Evaluate muscle strength around the affected joint using a grading system (0-5).
		Compare strength in both limbs to identify asymmetry.
		Special Tests:
		Perform specific tests for different joints: e.g., Lachman test for ACL injuries in the knee, Hawkins-
		Kennedy test for shoulder impingement.
		Assess for ligamentous stability, meniscal injuries, and other soft tissue damage.
		Neurological Examination:
		Assess sensory and motor function to rule out nerve involvement.
		Check reflexes using a reflex hammer.
		Imaging and Further Tests:
		Recommend imaging studies such as X-rays, MRI, or CT scans to confirm diagnosis and assess the
		extent of the injury.
		Consider blood tests if infection or inflammatory conditions are suspected.
		Documentation:
		Record all findings, noting any abnormalities in bone alignment, joint stability, and range of motion.
		Discuss potential diagnoses and further investigations if needed.
NLHP 27.2	Examination of Injuries about Individual Joints	wrist Joint

# Steps:

#### 1. Preparation:

- Gather materials: Gloves, measuring tape, goniometer, and reflex hammer.
- Ensure the patient is comfortably seated with the wrist exposed.

# 2. Inspection:

- Observe for swelling, bruising, deformity.
- Note any asymmetry or skin changes.

# 3. Palpation:

- Palpate the wrist for tenderness, swelling, and crepitus.
- Check for temperature differences.

#### 4. Range of Motion:

• Assess active and passive range of motion (flexion, extension, radial/ulnar deviation).

#### 5. Special Tests:

- Finkelstein's test for De Quervain's tenosynovitis.
- Tinel's sign and Phalen's test for carpal tunnel syndrome.

# **Elbow Examination**

# Steps:

# 1. Preparation:

• The patient is seated with the elbow exposed.

#### 2. Inspection:

- Check for swelling, deformity, and scars.
- Note asymmetry.

# 3. Palpation:

- Palpate for tenderness, and swelling around the joint.
- Check for temperature differences.

# 4. Range of Motion:

F	• Assess flexion, extension, supination, pronation.
5.	Special Tests:
	• Varus and valgus stress tests for ligament integrity.
	• Tinel's sign for ulnar nerve compression.
Should	er Examination
Steps:	
1.	Preparation:
	• The patient is seated with their shoulder exposed.
2.	Inspection:
	• Observe for atrophy, asymmetry, and deformity.
3.	Palpation:
	• Palpate for tenderness in the Shoulder girdle and acromioclavicular joint.
	• Check for warmth and swelling.
4.	Range of Motion:
	• Assess active/passive movements: flexion, extension, abduction, adduction
	internal/external rotation.
5.	Special Tests:
	• Hawkins-Kennedy test for impingement.
	<ul> <li>Apprehension test for instability.</li> </ul>
	• Drop arm test for rotator cuff tear.
Knee E	Examination
Steps:	
1.	Preparation:
	• Patient seated or lying with knee exposed.
2.	Inspection:

- Check for swelling, deformity, and scars.
- Note asymmetry.

# 3. Palpation:

• Palpate for tenderness, warmth, and swelling.

# 4. Range of Motion:

• Assess flexion and extension.

#### 5. Special Tests:

- Lachman test for ACL integrity.
- McMurray test for meniscal injury.
- Varus and valgus stress tests for ligament stability.

# **Hip Examination**

## Steps:

# 1. Preparation:

• The patient is lying down with the hip exposed.

# 2. Inspection:

• Observe for asymmetry, atrophy, and deformity.

#### 3. Palpation:

- Palpate for tenderness in the hip joint, greater trochanter.
- Check for warmth and swelling.

# 4. Range of Motion:

• Assess flexion, extension, abduction, adduction, internal/external rotation.

#### 5. Special Tests:

- Trendelenburg test for gluteal muscle strength.
- FABER test for hip joint pathology.

# **Ankle Examination**

Steps:

		<ul> <li>1. Preparation: <ul> <li>Patient seated or lying with ankle exposed.</li> </ul> </li> <li>2. Inspection: <ul> <li>Check for swelling, bruising, and deformity.</li> <li>Note asymmetry.</li> </ul> </li> <li>3. Palpation: <ul> <li>Palpate for tenderness, warmth, and swelling.</li> </ul> </li> <li>4. Range of Motion: <ul> <li>Assess dorsiflexion, plantarflexion, inversion, eversion.</li> </ul> </li> <li>5. Special Tests: <ul> <li>Anterior drawer test for ankle stability.</li> <li>Thompson test for Achilles tendon rupture.</li> </ul> </li> </ul>
NLHP 27.3	Hands on training on traction (skin and skeletal)	Steps:         1. Preparation:         • Gather materials: Traction equipment (skin traction setup, skeletal traction setup), gloves, gauze, bandages, weights, and a traction table.         • Ensure the patient is comfortably positioned on the traction table.         2. Skin Traction:         • Preparation:         • Explain the procedure to the patient and obtain informed consent.         • Gather all necessary materials and ensure they are sterile.         • Application:         • Clean and dry the skin area where traction will be applied.         • Apply adhesive tape to the skin to create a secure base.         • Attach the traction bandage to the adhesive tape and connect it to the traction setup.         • Gradually apply weights to achieve the desired traction force.         • Monitor the patient for any signs of discomfort or complications.         3. Skeletal Traction:

		<ul> <li>Preparation: <ul> <li>Explain the procedure to the patient and obtain informed consent.</li> <li>Gather all necessary materials and ensure they are sterile.</li> </ul> </li> <li>Application: <ul> <li>Position the patient on the traction table and align the affected limb.</li> <li>Insert a pin or wire into the bone under sterile conditions.</li> <li>Attach the traction setup to the pin or wire and gradually apply weights to achieve the desired traction force.</li> <li>Monitor the patient for any signs of discomfort or complications.</li> </ul> </li> <li>4. Monitoring and Care: <ul> <li>Regularly check the traction setup to ensure it is functioning correctly.</li> <li>Monitor the patient for signs of infection, pressure sores, or nerve damage.</li> <li>Adjust weights and traction as needed based on the patient's condition and progress.</li> </ul> </li> <li>5. Documentation: <ul> <li>Record all steps taken during the application of traction, including weights used,</li> </ul> </li> </ul>
		<ul> <li>patient positioning, and any complications encountered.</li> <li>Document the patient's response to traction and any changes in their condition.</li> </ul>
NLHP 27.4	First aid management of fracture cases	Steps:
		<ol> <li>Preparation:         <ul> <li>Gather materials: First aid kit, sterile gauze, bandages, splints (or improvised splints like cardboard), cold packs, gloves.</li> <li>Ensure the patient is in a safe and stable environment.</li> </ul> </li> <li>Initial Assessment:         <ul> <li>Perform a primary survey (ABCs: Airway, Breathing, Circulation) to ensure no life-threatening conditions.</li> <li>Assess the patient for signs of shock (pale skin, rapid pulse, shallow breathing).</li> </ul> </li> <li>Immobilization:         <ul> <li>Identify the fracture: Look for swelling, deformity, bruising, laceration etc or abnormal movement.</li> </ul> </li> </ol>

• Support the injured area: If possible, support the fracture with your hands to prevent
further movement.
• Apply a splint: Use a splint to immobilize the joints above and below the fracture site.
• For an upper limb fracture, support the arm in a sling.
<ul> <li>For a lower limb fracture, splint the leg in a straight position using rigid materials.</li> </ul>
• Secure the splint: Use bandages or cloth strips to secure the splint without cutting off
circulation.
4. Pain Management:
• Apply a cold pack to the affected area to reduce swelling and pain. Do not apply ice
directly to the skin; use a cloth or towel as a barrier.
5. Wound Care (if open fracture):
<ul> <li>Cover any open wounds with sterile gauze to prevent infection.</li> </ul>
<ul> <li>Avoid trying to push any protruding bones back into place.</li> </ul>
6. Monitor and Reassure:
<ul> <li>Continuously monitor the patient's vital signs and condition.</li> </ul>
• Keep the patient calm and reassured.
7. Transport to Medical Facility:
<ul> <li>Arrange for transport to a medical facility as quickly and safely as possible.</li> </ul>
<ul> <li>Avoid unnecessary movement of the injured limb during transport.</li> </ul>

Topic 2	opic 28 Asthi Sandhi Vikara (Diseases of Bone and Joints) (LH :2 NLHT: 2 NLHP: 6)									
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO5	Describe Aetiopathogenesis, Classification, Clinical features, Diagnosis, and Complications of Osteomyelitis	САР	МК	K	L&PPT ,L	OSPE,P-C ASE,PRN, OSCE,P- EXAM	F&S	II	H-KC,V- RN	LH
CO1, CO2, CO4	Explain Aetiopathogenesis, Classification, Clinical features, Diagnosis, Treatment and Complications of Cysts, Tumours	CC	DK	K	L_VC,L &GD,P T,TUT,	P-VIVA,P- EXAM,OS PE,CL-PR,	F&S	II	-	NLHT28.1

						CD	C-VC				
CO1, CO2, CO4	Explain Aetiopathogenesis, Classification, Clinical features, Diagnosis, Treatment, and Complications of Tuberculosis of bone.	c C	C	МК	К	L&PPT ,L	CL-PR,P- VIVA,QZ ,INT,PRN	F&S	II	-	LH
CO1, CO2, CO5	Explain Aetiopathogenesis, Classification, Clinical features, Diagnosis, Treatment, and Complications of Osteoporosis, Paget's disease	C	C	MK	K	FC,PBL ,SDL,C BL,D- BED	P-VIVA,P- PS,RK,VV- Viva,P- EXAM	F&S	II	-	NLHT28.2
CO1, CO2, CO4	Explain how to assess accurately and diagnose diseases affect he bones, ensuring proper diagnosis and management.	cting t C	CC	MK	K	PBL,RP ,X-Ray, TUT,DI S	P-RP,QZ ,PRN, C-V C,P-EXAM	F&S	Π	-	NLHP28.1
CO1, CO3, CO5	Explain how to assess accurately and diagnose joints for sign pathology such as inflammation, degeneration, or structural abnormalities, enabling accurate diagnosis and effective treatment.	ns of C	C	МК	K	X-Ray, D-BED, CBL,PT ,DIS	OSPE,PRN, P-EXAM,P -VIVA,P- CASE	F&S	II	-	NLHP28.2
CO1, CO3, CO5	Explain how to assess accurately and diagnose the foot for an normalities, injuries, or conditions affecting the bones, joints cles, tendons, and skin	ny ab C s, mus	C	МК	К	D-M,PL ,DIS,X- Ray,PE R	VV- Viva,OSPE, C-VC,P-EX AM,PP- Practical	F&S	II	-	NLHP28.3
Non L	ecture Hour Theory										
S.No	Name of Activity         Description of Theory Activity										
NLHT	28.1 Diagnosis, Treatment & Complications of Cysts, Tumours of bones	1. Case Study Analysis:         • Provide detailed case studies of patients with bone cysts and tumors.									

- Students identify and explain the aetiopathogenesis, classification, clinical features, diagnosis, and potential complications.
- Encourage group discussion and collaborative learning to explore different aspects of each case.

# 2. Anatomical Models and Specimens:

- Use anatomical models and specimens to show the locations and structures of common bone cysts and tumors.
- Allow students to examine these models to better understand the anatomical context.

# **3. Interactive Presentations:**

- Assign each student or group a specific type of bone cyst or tumor.
- Have them create and present comprehensive reports covering all aspects, including visual aids like diagrams and slides.

#### 4. Diagnostic Imaging Workshops:

- Conduct workshops on the interpretation of diagnostic imaging (X-ray, CT scan, MRI, bone scans).
- Provide sample images of bone cysts and tumors for analysis.
- Discuss the role of imaging in diagnosing and differentiating between different types of lesions.

#### 5. Role-Playing and Simulation:

<ul> <li>Use patient simulators or role-playing exercises to practice clinical examination techniques.</li> </ul>
<ul> <li>Simulate scenarios where students must diagnose and suggest treatment plans for patients presenting with bone cysts or tumors.</li> </ul>
• Provide feedback and discuss the decision-making process.
6. Group Discussions and Debates:
• Organize group discussions or debates on topics related to bone cysts and tumors, such as treatment options and prognosis.
• Encourage critical thinking and evidence-based argumentation.
7. Problem-Based Learning (PBL):
<ul> <li>Implement PBL sessions where students are given clinical problems related to bone cysts or tumors.</li> </ul>
• Have them research and present their findings and proposed solutions.
• Facilitate discussions to reinforce learning points.
8. Guest Lectures and Expert Talks:
<ul> <li>Invite orthopedic oncologists and radiologists to give lectures on their experiences with bone cysts and tumors.</li> </ul>
• Allow students to ask questions and interact with the experts.

NLHT 28.2	Osteoporosis and Paget's disease	1. Case Study Analysis:
		• Provide detailed case studies of patients with Osteoporosis and Paget's disease.
		<ul> <li>Students analyze and identify the clinical features, diagnosis, and potential complications.</li> </ul>
		• Facilitate group discussions to explore different aspects of each case.
		2. Interactive Presentations:
		<ul> <li>Assign each student or group a specific topic related to Osteoporosis or Paget's disease.</li> </ul>
		• Have them create and present comprehensive reports covering clinical features, diagnostic methods, and complications, using visual aids like diagrams and slides.
		3. Group Discussions and Debates:
		<ul> <li>Organize group discussions or debates on topics related to Osteoporosis and Paget's disease, such as prevention strategies and treatment options.</li> </ul>
		• Encourage critical thinking and evidence-based argumentation.
		4. Problem-Based Learning (PBL):
		<ul> <li>Implement PBL sessions where students are given clinical problems related to Osteoporosis and Paget's disease.</li> </ul>
		• Have them research and present their findings and proposed solutions.
		• Facilitate discussions to reinforce learning points.

5. Guest Lectures and Expert Talks:
<ul> <li>Invite endocrinologists and orthopedic specialists to give lectures on their experiences with Osteoporosis and Paget's disease.</li> </ul>
• Allow students to ask questions and interact with the experts.
6. Complication Analysis:
<ul> <li>Provide scenarios where students must identify and manage complications of Osteoporosis (e.g., fractures) and Paget's disease (e.g., bone deformities, arthritis).</li> </ul>
O Discuss the long-term implications and management strategies

S.No	Name of Practical	Description of Practical Activity
NLHP 28.1	Demonstrate Examination of the diseases of bone	Steps:
		1. Preparation:
		• Gather materials: Gloves, measuring tape, stethoscope, reflex hammer, and imaging requisition forms.
		• Ensure the patient is comfortably seated or lying down, with the affected area exposed.
		2. Initial History:
		<ul> <li>Take a thorough history including symptoms (pain, swelling, deformity), duration, and any aggravating or relieving factors.</li> <li>Ask about medical history including esteoporosis, fractures infections, or metabolic.</li> </ul>
		bone diseases.
		3. Inspection:

- Observe the affected area for swelling, deformity, redness, or atrophy.
- Note any asymmetry, visible scars, or previous surgical marks.

#### 4. Palpation:

- Gently palpate the bones for tenderness, swelling, warmth, and irregularities.
- Assess for crepitus (grating sensation) which may indicate fractures or degenerative changes.

#### 5. Range of Motion:

- Assess the range of motion in adjacent joints to check for any limitations or pain.
- Use a goniometer to measure joint angles accurately.

# 6. Strength Testing:

- Evaluate the strength of muscles attached to the affected bones by asking the patient to perform specific movements against resistance.
- Compare strength on both sides.

# 7. Special Tests:

- Perform specific tests to assess bone integrity:
  - Percussion: Tap the bone gently to check for tenderness or pain.
  - **Compression Test:** Apply gentle pressure along the bone axis to assess for pain indicating a fracture.
  - **Long Bone Palpation:** Palpate the entire length of long bones to identify any abnormalities or discontinuities.

# 8. Neurological Examination:

- Assess sensation and motor function in the affected limb to rule out nerve involvement.
- Check reflexes using a reflex hammer.

# 9. Imaging and Further Tests:

- Recommend imaging studies such as X-rays, MRI, CT scans, or bone scans to confirm diagnosis and assess the extent of the disease.
- Consider bone density testing (DEXA scan) for osteoporosis.
- Conduct relevant blood tests to check for metabolic bone diseases (e.g., calcium, phosphate, alkaline phosphatase levels).

#### 10. Documentation:

• Record all findings, noting any abnormalities in structure, function, or movement.

		• Discuss potential diagnoses and further investigations if needed.
NLHP 28.2	Examination of pathological joints	Steps:
		1. Preparation:
		<ul> <li>Gather materials: Gloves, measuring tape, goniometer, reflex hammer, and a penlight.</li> <li>Ensure the patient is comfortably seated or lying down, with the affected joint exposed.</li> </ul>
		2. Initial History:
		• Take a thorough history, including symptoms (pain, stiffness, swelling), duration, and any aggravating or relieving factors.
		<ul> <li>Ask about medical history, including arthritis, trauma, infections, or autoimmune diseases.</li> </ul>
		3. Inspection:
		• Observe the joint for swelling, redness, deformity, or atrophy.
		• Note any asymmetry between joints.
		• Check for skin changes such as rashes or nodules.
		4. Palpation:
		• Gently palpate the joint for tenderness, warmth, and swelling.
		• Assess for crepitus (grating sensation) which may indicate degenerative changes.
		• Evaluate the surrounding muscles and soft tissues for abnormalities.
		5. Range of Motion:
		• Ask the patient to perform active movements, noting any pain or limitations.
		• Perform passive movements and measure the range of motion using a goniometer.
		• Compare the range of motion with the unaffected joint.
		6. Strength Testing:
		• Evaluate muscle strength around the joint by asking the patient to perform specific movements against resistance.
		• Compare strength in both limbs.
		7. Special Tests:
		• Perform specific tests based on the joint being examined:

		<ul> <li>Knee: Lachman test for ACL integrity, McMurray test for meniscal injuries.</li> <li>Shoulder: Hawkins-Kennedy test for impingement, Apprehension test for instability.</li> <li>Elbow: Varus and valgus stress tests for ligament integrity.</li> <li>Wrist: Phalen's test for carpal tunnel syndrome, Finkelstein's test for De Quervain's tenosynovitis.</li> <li>Hip: Trendelenburg test for gluteal muscle strength, FABER test for hip pathology.</li> <li>8. Neurological Examination: <ul> <li>Assess sensation and motor function in the affected limb to rule out nerve involvement.</li> <li>Check reflexes using a reflex hammer.</li> </ul> </li> <li>9. Imaging and Further Tests: <ul> <li>Recommend imaging studies such as X-rays, MRI, or CT scans to confirm diagnosis and assess the extent of joint pathology.</li> </ul> </li> <li>10. Documentation: <ul> <li>Record all findings, noting any abnormalities in structure, function, or movement.</li> <li>Discuss potential diagnoses and further investigations if needed.</li> </ul> </li> </ul>
NLHP 28.3	Examination of foot	Steps:         1. Preparation:         • Gather materials: Gloves, measuring tape, goniometer, reflex hammer, and a flashlight.         • Ensure the patient is comfortably seated or lying down with feet exposed.         2. Initial History:         • Take a thorough history including symptoms (pain, swelling, numbness), duration, and any aggravating or relieving factors.         • Ask about medical history including diabetes, arthritis, or previous foot injuries.         3. Inspection:

		• Observe the feet for swelling, redness, bruising, deformities, or skin changes,
		<ul> <li>Note any asymmetry between the feet.</li> </ul>
		• Check the condition of the nails and the presence of any calluses or ulcers.
		4. Palpation:
		• Gently palpate the foot for tenderness, warmth, and swelling.
		• Assess the bones, joints, and soft tissues for any abnormalities.
		• Check for the presence of any masses or deformities.
		5. Range of Motion:
		• Ask the patient to perform active movements such as dorsiflexion, plantarflexion,
		inversion, and eversion.
		• Assess the range of motion and note any pain or limitations.
		• Use a goniometer to measure joint angles accurately.
		6. Strength Testing:
		• Evaluate the muscle strength of the foot and ankle by asking the patient to perform
		specific movements against resistance.
		• Compare strength in both feet.
		7. Special Tests:
		• <b>Thompson Test:</b> Squeeze the calf muscle to assess for Achilles tendon rupture.
		• <b>Tinel's Sign:</b> Tap over the tarsal tunnel to check for nerve irritation.
		• Homan's Sign: Dorsiflex the foot to check for deep vein thrombosis.
		• Windlass Test: Dorsiflex the big toe to assess for plantar fasciitis.
		8. Neurological Examination:
		• Assess sensation in different areas of the foot to check for neuropathy.
		• Test reflexes using a reflex hammer.
		9. Gait Analysis:
		• Observe the patient's walking pattern to identify any structural or functional
		abnormalities.
		• Note any limping, uneven wear on shoes, or altered gait mechanics.
		10. Documentation:
		• Record all findings, noting any abnormalities in structure, function, or movement.
		• Discuss potential diagnoses and further investigations if needed.

Topic	Topic 29 Shirobhighata (Cranio-cerebral Injurie/ Disorders) (LH :2 NLHT: 1 NLHP: 2)											
A3		B3		C3	D3	E3	F3	G3	Н3	<b>I</b> 3	К3	L3
CO1, CO3, CO5	Explain	Scalp injuries and Skull Fracture and their manage	ment	CC	MK	K	L,L&PP T	VV-Viva,C L-PR,PRN	F&S	II	-	LH
CO1, CO3, CO5	<ul> <li>Explain Brain injury (Mastulunga Abhighaata) - Cerebral</li> <li>concussion, Contusion and Laceration. Haemorrhage &amp; its</li> <li>management - Acute Extradural haematoma, Acute Intracerebral</li> <li>and Chronic Subdural Haematoma</li> </ul>		rebral	CC	МК	K	L,L&PP T	VV-Viva,P- RP,PRN,IN T,QZ	F&S	II	-	LH
CO1, CO3, CO5	<ol> <li>Elaborate on Brain tumuors and their management</li> <li>5</li> </ol>			CC	DK	K	BS,BL, RP,TUT ,DIS	VV- Viva,QZ ,D EB,P- VIVA	F&S	II	-	NLHT29.1
CO1, CO3, CO5, CO6	<ul> <li>CO1, Explain how to assess accurately and</li> <li>CO3, diagnose Head injuries, ensuring their appropriate primary</li> <li>CO5, management and treatment to prevent complications.</li> <li>CO6</li> </ul>			CC	DK	KH	CD,PBL ,DIS,TU T,BL	VV-Viva,S P,P-ID,P- RP,PRN	F&S	II	-	NLHP29.1
Non L	ecture H	lour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT	29.1	Brain tumours and their management	<ol> <li>Interactive Presentations: Use slideshows or videos to explain what brain tumors are, their types, symptoms, diagnosis, and treatment options1. You can include real-life case studies to make it more relatable.</li> <li>Role-Playing Scenarios: Have students role-play as doctors, patients, and family members to understand the emotional and medical challenges associated with brain tumors. This can help develop empathy and communication skills.</li> </ol>									

	3. Guest Speakers: Invite healthcare professionals who specialize in neurology or oncology to speak about their experiences and advancements in brain tumor treatment.
	4. <b>Simulation Exercises</b> : Use medical simulation tools or apps to allow students to perform virtual brain surgeries or diagnostic tests, giving them hands-on experience in a controlled environment.
	5. <b>Discussion and Reflection</b> : Facilitate group discussions where students can share their thoughts and feelings about what they've learned. Encourage them to reflect on how they can support individuals affected by brain tumors.

S.No	Name of Practical	Description of Practical Activity
NLHP 29.1	Examination of Head Injuries (Shirobhighaata)	Steps:
		<ol> <li>Preparation:         <ul> <li>Gather materials: Gloves, penlight, stethoscope, reflex hammer, sterile gauze, and bandages.</li> <li>Ensure the patient is lying down or seated comfortably with good lighting.</li> </ul> </li> <li>Initial History:         <ul> <li>Take a detailed history, including the mechanism of injury, time of injury, and any immediate symptoms (loss of consciousness, headache, dizziness, nausea).</li> <li>Ask about previous head injuries or underlying medical conditions.</li> </ul> </li> <li>Initial Assessment:         <ul> <li>Perform a primary survey (ABCs: Airway, Breathing, Circulation) to ensure no life-threatening conditions.</li> <li>Check the patient's Glasgow Coma Scale (GCS) score to assess the level of</li> </ul> </li> </ol>
		consciousness.

	4. Inspection:
	• Observe the head and face for visible injuries, swelling, bruising, or deformities.
	• Look for signs of external bleeding or cerebrospinal fluid leakage from the ears or
	nose.
	• Check for any scalp lacerations or hematomas.
	5. Palpation:
	• Gently palpate the skull for tenderness, depression, or crepitus.
	<ul> <li>Assess the facial bones for any fractures or deformities.</li> </ul>
	6. Neurological Examination:
	• Assess the pupils for size, equality, and reactivity to light.
	• Test cranial nerve function, including eye movement, facial sensation, and muscle
	strength.
	• Evaluate motor and sensory function in the limbs to check for any deficits.
	<ul> <li>Assess reflexes using a reflex hammer.</li> </ul>
	7. Cognitive and Memory Assessment:
	• Ask the patient questions to assess orientation (time, place, person).
	• Test short-term and long-term memory by asking about recent events and past
	information.
	8. Balance and Coordination:
	• Perform tests to assess balance and coordination, such as the Romberg test and finger-
	to-nose test.
	• Observe for any signs of ataxia or unsteadiness.
	9. Imaging and Further Tests:
	<ul> <li>Recommend imaging studies such as CT scans or MRI if there is suspicion of</li> </ul>
	intracranial injury.
	<ul> <li>Conduct additional tests if indicated, such as blood tests to check for metabolic or</li> </ul>
	hematologic abnormalities.
	10. Documentation:
	<ul> <li>Record all findings, noting any abnormalities in structure, function, or cognitive status.</li> <li>Discuss potential diagnoses and further investigations if needed.</li> </ul>
Fopic 30 Kasheruka Vikara (Diseases of Spine) (LH :1 N	LHT: 1 NLHP: 4)

A3		B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO4, CO5	Explain Complie	the Mechanism, Pathology, Classification, Investiga cations and management of Tuberculosis of the spine	ations, e	CC	МК	K	L&PPT ,L,DIS	T-CS,QZ , C-VC,OSC E,PRN	F&S	II	_	LH
CO1, CO3, CO5	Demons Investig Spondy	strate the Mechanism, Pathology, Classification, ations, Complications and management of Ankylosi litis	ng	PSY- GUD	МК	K	PBL,TU T,BS,R LE,X- Ray	VV-Viva,T- CS,QZ ,P- VIVA,PRN	F&S	II	Н-РК	NLHT30.1
CO1, CO2, CO4, CO6	Demons and abn nt to pre	strate accurate assessment and diagnosis of spinal inj ormalities, ensuring appropriate management and tre event further complications.	juries eatme	PSY- GUD	МК	K	TUT,DI S,CBL, X-Ray,S IM	DEB,INT,P -VIVA,SP, PRN	F&S	II	H-KC,H- PK	NLHP30.1
CO1, CO3, CO4	Explain skills to ensuring safety a	the stabilize neck fractures using the log roll technique g nd proper spinal alignment during patient transfer.		CC	МК	КН	RP,X-R ay,CBL, EDU,PE R	P-EXAM,P RN,QZ , C- VC,P- VIVA	F&S	Π	-	NLHP30.2
Non L	ecture H	lour Theory									1	
S.No		Name of Activity	Descri	iption of	Theory A	Activity						
NLHT :	30.1	Ankylosing Spondylitis	<ol> <li>Case Study Analysis: Provide students with a detailed case study of a patient with Ankylosing Spondylitis. Ask them to analyze the patient's symptoms, medical history, and diagnostic tests to understand the pathology and classification of the disease.</li> <li>Role-Playing: Have students role-play as rheumatologists and patients. The "rheumatologists" can conduct a mock patient interview, perform a physical examination, and discuss potential</li> </ol>				n Ankylosing gnostic tests matologists" s potential					

	management plans.
	3. <b>Diagnostic Test Simulations</b> : Use simulation tools or apps to allow students to perform virtual diagnostic tests, such as X-rays or MRIs, to identify signs of Ankylosing Spondylitis.
	4. <b>Group Discussions</b> : Facilitate group discussions where students can share their thoughts on the challenges of diagnosing and managing Ankylosing Spondylitis. Encourage them to think critically about the latest research and treatment options.
	5. Guest Speakers: Invite healthcare professionals who specialize in rheumatology to speak about their experiences and advancements in the treatment of Ankylosing Spondylitis.
	6. <b>Poster Presentations</b> : Have students create posters summarizing the key points about Ankylosing Spondylitis, including its mechanism, pathology, classification, investigations, complications, and management. They can present these posters to the class.

S.No	Name of Practical	Description of Practical Activity
NLHP 30.1	Examination of Spinal Injuries and Abnormalities	Steps:
		1. Preparation:
		• Gather materials: Gloves, measuring tape, reflex hammer, penlight, and stethoscope.
		• Ensure the patient is comfortably seated or lying down with the spine exposed.
		2. Initial History:
		• Take a detailed history, including the mechanism of injury, duration of symptoms
		(pain, numbness, weakness), and any aggravating or relieving factors.
		• Ask about previous spinal injuries or surgeries and any underlying medical conditions.
		3. Inspection:
		• Observe the spine for visible deformities, swelling, bruising, or muscle atrophy.

		<ul> <li>Note the patient's posture, alignment, and any abnormal curvatures (scoliosis, kyphosis, lordosis).</li> <li>4 Palaetion:</li> </ul>
		<ul> <li>Gently palpate the spine from the cervical to the lumbar region, checking for tenderness, swelling, or muscle spasms.</li> <li>Assess the spinous processes and paraspinal muscles for any abnormalities.</li> </ul>
		5. Range of Motion:
		• Ask the patient to perform movements such as flexion, extension, lateral bending, and rotation.
		• Evaluate the range of motion and note any pain or limitations.
		6. Neurological Examination:
		• Sensation: Assess sensory function by testing light touch, pinprick, and vibration in the dermatomes.
		• <b>Motor Function:</b> Evaluate muscle strength in the upper and lower extremities using a grading system (0-5).
		<ul> <li>Reflexes: Check deep tendon reflexes (biceps, triceps, patellar, Achilles) and note any abnormalities</li> </ul>
		<ul> <li>Special Tests: Perform tests like the straight leg raise (for sciatica) and Spurling's test (for cervical radiculonathy)</li> </ul>
		7 Gait and Balance:
		• Observe the patient's walking pattern to identify any abnormalities
		<ul> <li>Perform tests like the Romberg test to assess balance and coordination</li> </ul>
		8. Imaging and Further Tests:
		<ul> <li>Recommend imaging studies such as X-rays, MRI, or CT scans to confirm diagnosis and assess the extent of the injury or abnormality.</li> </ul>
		• Conduct additional tests like electromyography (EMG) if nerve damage is suspected.
		9. Documentation:
		<ul><li>Record all findings, noting any abnormalities in structure, function, or movement.</li><li>Discuss potential diagnoses and further investigations if needed.</li></ul>
NLHP 30.2	Hands-on training on 3 stages of neck fracture stabilization with logroll	Steps: Stage 1: Preparation

	<ol> <li>Assess the patient: Confirm the patient's responsiveness, breathing, and address any severe bleeding.</li> <li>Gather a team: Ensure you have at least three assistants to perform the log roll safely.</li> <li>Position the patient: Have the patient lie flat on their back.</li> </ol>
	Stage 2: Immobilization
	<ol> <li>Manual traction: The person at the patient's head stabilizes the neck by applying gentle traction.</li> <li>Cervical collar: If available, apply a cervical collar to further immobilize the neck.</li> <li>Prepare for log roll: Clearly explain each team member's role in the maneuver.</li> </ol>
	Stage 3: Execution
	<ol> <li>Coordinate the roll: On a count of three, the team rolls the patient towards themselves, maintaining alignment of the head, neck, and spine.</li> <li>Transfer to a spine board: Once rolled, carefully transfer the patient to a spine board for further stabilization and transport.</li> </ol>
Topic 31 Stana Roga (Diseases of Breast) (LH :1 NI	LHT: 2 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3
CO1, CO3, CO5	Explain Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Sthana Vidradhi - Breast abscess	CC	МК	K	SIM,DI S,L_VC ,TUT,P ER	COM,PP-Pr actical,CL- PR,P-VIVA ,P-EXAM	F&S	Π	-	NLHT31.1
CO1,	Explain Aetiopathogenesis, Classification, Clinical Features,	СК	MK	K	SIM,CD	CL-PR,P-E	F&S	II	-	NLHT31.2

CO3, CO5	Diagnos Fibroade	is, Complications and Management of Fibroadenoma enosis	a and				,L&PPT ,D-BED ,DIS	XAM,P-CA SE,P-VIVA ,VV-Viva				
<ul> <li>CO1, Define Aetiopathogenesis, Classification, Clinical Features,</li> <li>CO3, Diagnosis, Complications, and Management of Stana Arbuda &amp;</li> <li>CO4, Breast tumours and their Management.</li> <li>CO5</li> </ul>		a &	СК	МК	К	BL,L&P PT ,L_VC, L	DEB,PUZ, QZ ,VV- Viva,T-CS	F&S	II	-	LH	
<ul> <li>CO1, Demonstrate the skills to conduct a clinical breast examination,</li> <li>CO3, educate patients on how to perform self-breast</li> <li>CO4, examinations at home &amp;</li> <li>CO5 promote early detection of breast abnormalities.</li> </ul>			on,	PSY- GUD	МК	К	BL,PBL ,TUT,D IS,PER	P-EXAM,S P,C-INT, C- VC,QZ	F&S	Π	-	NLHP31.1
Non Lecture Hour Theory												
S.No Name of Activity De		Description of Theory Activity										
NLHT 31.1		Sthana Vidradhi - Breast abscess	<ol> <li>Interactive Case Studies: Present detailed case studies that cover the aetiopathogenesis, classification, clinical features, diagnosis, complications, and management of breast abscesses. Have students analyze and discuss these cases in small groups.</li> <li>Hands-On Workshops: Use medical models or simulations to teach students about the physical examination of the breast and techniques for diagnosing and managing abscesses. This practical approach can be very enlightening.</li> <li>Guest Lectures: Invite medical professionals such as surgeons or infectious disease specialists</li> </ol>									
<ul> <li>4. Poster Sessions: Have students created breast abscesses, including aetiopath complications, and management. The 5. Debate Sessions: Organize debates of the sessions of the sessio</li></ul>		<ul> <li>4. Poster Sessions: Have students create educational posters that summarize the key aspects of breast abscesses, including aetiopathogenesis, classification, clinical features, diagnosis, complications, and management. They can present these posters in a mini-conference format.</li> </ul>										
		ebates on o	bates on controversial or emerging topics related to breast									

		abscesses, such as antibiotic resistance or new surgical techniques. This can encourage critical thinking and engagement.								
NLHT 31.2	Fibroadenoma and Fibroadenosis	1. <b>Case Studies</b> : Present detailed case studies covering the aetiopathogenesis, classification, clinical features, diagnosis, complications, and management of both fibroadenoma and fibroadenosis. Have students analyze and discuss these in small groups to compare and contrast.								
		2. <b>Role-Playing</b> : Conduct role-playing exercises where students act as healthcare professionals and patients. This can involve diagnostic interviews, physical examinations, and discussions on management plans.								
		3. <b>Histopathology Workshops</b> : If possible, provide slides of histopathological samples of fibroadenomas and fibroadenosis. Teach students to identify characteristic features under the microscope.								
		4. Expert Talks: Invite guest speakers, such as pathologists or oncologists, to discuss their experiences and advancements in the diagnosis and management of these conditions.								
		5. <b>Patient Education Material</b> : Encourage students to create brochures or videos aimed at educating patients about fibroadenoma and fibroadenosis, their diagnosis, and management options.								
		6. <b>Clinical Simulation</b> : Utilize medical simulation tools or apps to allow students to virtually practice diagnostic and treatment procedures for fibroadenoma and fibroadenosis.								
Non Lecture H	Iour Practical									
S.No	Name of Practical	Description of Practical Activity								
NLHP 31.1	Examination of the breast and patient education	Steps:								
	for 'self-examination of breast.	Self-Examinatio	n of Breas	t Educatio	n					
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		<ol> <li>Explain the importance: Stress the importance of regular self-examinations for early dete of Breast abnormalities.</li> <li>Demonstrate the technique: Show the patient how to perform a self-examination using a by-step approach.         <ul> <li>Visual inspection: In front of a mirror, look for changes in size, shape, and skin texture.</li> <li>Palpation in the shower: Using a soapy hand, gently palpate the breast and armp</li> <li>Palpation lying down: Place a pillow under the shoulder, raise the arm, and use to opposite hand to palpate the breast.</li> </ul> </li> <li>Frequency: Recommend performing the self-examination once a month, ideally a week a the menstrual period ends.</li> </ol>						ly detection sing a step- skin armpit area. d use the week after		
Topic	32 Urah Vikara (Diseases of Chest) (LH :1 NLHT: 1 N	LHP: 4)	-		_					
A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3
CO1, CO3, CO5, CO6	Explain Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications, and Management of Chest injury, Fracture of Ribs, Pneumothorax, Haemothorax, Stove in Ches Flail Chest & Surgical Emphysema.	cC	МК	K	L&PPT ,L	CL-PR,INT ,T-CS,PRN, VV-Viva	F&S	II	-	LH
<ul> <li>CO1, Discuss the Aetiopathogenesis, Classification, Clinical Features,</li> <li>CO3, &amp; management Diagnosis of Pleurisy, Pleural Abscess, Pleural</li> <li>CO5, Effusion, and Tumours of the Lung.</li> <li>CO6</li> </ul>		es, CC 11	МК	K	TPW,C D,L_VC ,RP,X- Ray	P-MOD,OS CE,PRN,O SPE,P- EXAM	F&S	Π	-	NLHT32.1
CO1, CO3, CO5,	<ul> <li>Demonstrate the systematic examination of chest injuries and</li> <li>Elaborate on</li> <li>diagnostic and management skills for trauma patients.</li> </ul>		МК	КН	D,RP,E DU,ML, PT	P-VIVA, C- VC,CL-PR, INT,P-PRF	F&S	Π	-	NLHP32.1

CO6

CO1, CO3, CO5, CO6	Demon the skill ntify co minatio diagnos	strate ls to perform a thorough examination of chest disease ommon and uncommon chest diseases through physic on and history taking, and elaborate on stic and management skills for patients with chest dise	es, Ide al exa eases.	PSY- GUD	МК	K	CBL,X- Ray,DIS ,CD,TU T	VV-Viva, C -VC,P-EX AM,PRN,I NT	F&S	П	-	NLHP32.2	
Non L	ecture H	Iour Theory					•	•		•			
S.No		Name of Activity	Description of Theory Activity										
NLHT	32.1	Examination of Pleurisy, Pleural Abscess, Pleural Effusion, Tumours of the Lung		<ol> <li>Case St study in Tumors manages</li> <li>Diagnos "doctors possible reasonir</li> <li>Interac diagnos learning</li> <li>Guest I experier</li> <li>Group I strategie</li> </ol>	udy Analy volving on ). They'll a ment. This stic Role-H " can inter diagnostic ag. tive Simul ing and ma experienc cectures: I nees and di Discussion es for these	vsis: Break the of the co- unalyze the can encou- Playing: Se- view "patter tests. This ations: Ut unaging the e. nvite pulm scuss adva as: Facilitate condition	a students in onditions (I e actiopatho arage teamy tudents can ients" to dia is will help dilize medic ese condition nonologists ancements ate group dia is. Encoura	nto small group Pleurisy, Pleura ogenesis, class work and critic take turns role agnose their co students pract cal simulation s ons in a virtual , thoracic surge in the treatmer scussions on the ge students to	ps and giv al Abscess ification, c al thinking e-playing a ondition, d ice commu- software o setting. T eons, or or at of these the complice share their	e each g , Pleura elinical : g. as docto iscussin unicatio r apps to his can neologis conditions a though	group a det I Effusion features, d ors and pat ig symptor in skills an o let stude provide a sts to share ons. and manag	tailed case , or Lung iagnosis, and ients. The ns and d clinical nts practice hands-on e their clinical gement questions.	
Non L	ecture H	Iour Practical											

S.No	Name of Practical	Description of Practical Activity
NLHP 32.1	Examination of injuries of the chest (Urah abhigatha)	Steps Initial Assessment
		<ol> <li>Scene Safety: Ensure the environment is safe for both the patient and healthcare providers.</li> <li>Primary Survey: Follow the ABCDE approach (Airway, Breathing, Circulation, Disability, Exposure) to assess and stabilize the patient.</li> <li>Obtain Consent: Explain the procedure to the patient and obtain their consent, if they are conscious and able to provide it.</li> </ol>
		Detailed Examination
		<ol> <li>Inspection: Visually inspect the chest for signs of injury such as bruising, swelling, open wounds, or deformities.</li> <li>Palpation: Gently palpate the chest wall to identify areas of tenderness, crepitus (a crackling sensation), or step-offs in the rib contour.</li> <li>Percussion: Tap on the chest wall to assess for dullness or hyperresonance, indicating possible fluid accumulation or pneumothorax.</li> <li>Auscultation: Listen to breath sounds using a stethoscope to detect any abnormalities such as absent breath sounds, which might suggest pneumothorax or hemothorax.</li> </ol>
		Supplementary Assessment
		<ol> <li>Imaging: If available, order a chest X-ray or ultrasound to get a clearer picture of the injuries.</li> <li>Vitals Monitoring: Continuously monitor the patient's vital signs (heart rate, respiratory rate, blood pressure, oxygen saturation) to detect any deterioration.</li> </ol>
NLHP 32.2	Examination of Diseases of the Chest	Steps:

		I	nitial Assessme	nt							
			<ol> <li>Patient History: Gather a comprehensive history, including symptoms such as cough, chest pain, shortness of breath, and past medical history.</li> <li>Consent and Explanation: Explain the procedure to the patient and obtain their consent.</li> <li>Position the Patient: Have the patient sit upright or lie down in a comfortable position.</li> </ol>							igh, chest nsent. tion.	
		F	'hysical Examin	ation							
			<ol> <li>Inspection accessor</li> <li>Palpation on the ch</li> <li>Percussion possible</li> <li>Ausculta wheezes</li> </ol>	on: Observ y muscles, n: Check fe nest and fe on: Tap on fluid or ain ttion: Use a , crackles,	e the chest or asymm or tenderne eling for vi the chest in the ple a stethosco or diminist	for any vis etry. ess, chest w ibrations w wall to asse ural space. ope to listen hed breath	sible abnorma vall deformitie hen the patien ess for areas o to breath sou sounds.	lities, such s, and tact t speaks. f dullness nds. Note	as defo ile frem or hype any abr	ormities, u nitus by pla erresonance normal sou	se of acing hands e, indicating unds such as
		S	Supplementary A	Assessmen							
	<ol> <li>Vital Signs: Monitor vital signs, including heart rate, respiratory rate, blood pressure, and oxygen saturation.</li> <li>Imaging: If available, order chest X-ray, CT scan, or other relevant imaging studies for furth evaluation.</li> </ol>						ure, and es for further				
Topic 3	33 Ann	a Nalika Vikara (Diseases of Oesophagus) (LH	2 NLHT: 1 N	LHP: 2)							
A3		B3	C3	D3	E3	F3	G3	Н3	I3	К3	L3

CO1, CO3, CO5	Explain aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications and Management of Congenital anomalies and Reflux Oesophagitis		CC	МК	K	L,L&G D,L&PP T	T-CS,QZ ,P -EXAM,P- VIVA	F&S	II	-	LH	
CO1, CO3, CO5, CO6	<ol> <li>Describe Aetiopathogenesis, Classification, Clinical Features,</li> <li>Diagnosis, Complications and management of Oesophageal</li> <li>Varices</li> </ol>		CC	МК	K	PT,D,L _VC,DI S,CBL	PRN,COM, INT,QZ ,P- VIVA	F&S	II	-	NLHT33.1	
CO1, CO3, CO5	201, 203, COSDefine Aetiopathogenesis, Classification, Clinical Features, Diagnosis, Complications and management of – CA of Oesophagus and their management		СК	DK	К	L,L&PP T	PP-Practica l,PRN,VV- Viva,T-CS, P-EXAM	F&S	II	-	LH	
CO1, CO3, CO5	<ul> <li>CO1, Demonstrate the skills to assess and diagnose dysphagia, Identify</li> <li>CO3, the various causes of dysphagia through comprehensive examinati</li> <li>CO5 on techniques, and explain</li> <li>appropriate management and referral for patients with dysphagia.</li> </ul>		PSY- GUD	DK	КН	TUT,C BL,W,D -BED,D IS	P-VIVA,P- RP,P-EXA M,OSCE,P RN	F&S	II	-	NLHP33.1	
Non L	ecture H	our Theory										
S.No		Name of Activity	Descr	ription of	Theory A	ctivity						
NLHT	33.1	Examination of Oesophageal Varices	<ol> <li>Case Study Analysis: Present detailed patient case studies, covering the aetiopathogenesis, classification, clinical features, diagnosis, complications, and management of oesophageal varices. Students can work in groups to analyze and discuss each case.</li> <li>Role-Playing: Students can role-play as gastroenterologists and patients. The "doctors" can conduct mock patient interviews and physical exams, discussing potential diagnostic tests ar management plans.</li> <li>Endoscopy Simulation: Use videos or simulation tools to show how an endoscopy is performed and how oesophageal varices are identified and treated during the procedure.</li> </ol>						ogenesis, ophageal ctors" can tic tests and y is edure.			

		<ul> <li>4. Guest Speakers: Invite gastroenterologists or hepatologists to speak about their experiences in diagnosing and treating oesophageal varices. They can also discuss the latest research and advancements.</li> <li>5. Group Discussions: Facilitate group discussions on the complications and management strategies for oesophageal varices. Encourage students to share their thoughts and ask questions.</li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 33.1	Examination of Dysphagia	<ul> <li>Preparation Steps: Patient History</li> <li>Gather History: Ask about the onset, duration, and nature of swallowing difficulties. Enquire about associated symptoms like weight loss, coughing during meals, or pain while swallowing.</li> <li>Medical History: Document past medical history, including any neurological disorders, head and neck surgeries, or recent infections.</li> <li>Physical Examination</li> <li>Oral Examination: Inspect the oral cavity for abnormalities such as lesions, dry mouth, or dental issues.</li> <li>Neck Examination: Palpate the neck for any masses or lymphadenopathy.</li> <li>Cranial Nerve Assessment: Evaluate the function of cranial nerves involved in swallowing (V, VII, IX, X, XII).</li> <li>Swallowing Assessment: Observe the patient as they swallow water and solid food, noting any difficulties or signs of aspiration.</li> <li>Supplementary Assessment</li> </ul>

			<ul> <li>Videofluoroscopic Swallow Study (VFSS): If available, this imaging technique can provide detailed information on the mechanics of swallowing.</li> <li>Esophagogastroduodenoscopy (EGD): For a more indepth examination of the esophagus and stomach if structural abnormalities are suspected.</li> <li>Manometry: Measure the pressure within the esophagus to evaluate its function (if possible/available)</li> </ul>								
Topic 3	Topic 34 Gulma Roga (LH :1 NLHT: 0 NLHP: 0)										
A3	.3 B3		C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO1	Explain Nidana, Prakara, Lakshana, Upadrava, and Chikitsa of Gulma		CC	MK	K	L,L&PP T	T-CS,PRN, VV-Viva	F&S	II	-	LH
Non Le	Non Lecture Hour Theory										
S.No Name of Activity Descr		escription o	f Theory A	Activity							
Non Le	ecture H	lour Practical									
S.No		Name of Practical D	escription o	f Practica	l Activity	ý					
Topic 3	35 Shoo	la Vyadhi (LH :1 NLHT: 0 NLHP: 2)									
A3		B3	C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO1, CO3, CO4	<ul> <li>CO1, Define Nidana, Prakara, Lakshana, Upadrava and Chikitsa of</li> <li>CO3, Shoola</li> <li>CO4</li> </ul>		СК	DK	K	L,L&PP T	P-VIVA,V V-Viva,T- CS,PRN	F&S	Π	-	LH
CO1, CO3, CO5,Demonstrate comprehensive assessment of patients presenting wit h acute abdominal pain, and explain potential life- threatening conditions and various causes of acute abdomen, and diagnostic and management skills for emergencies.		PSY- GUD wit	МК	КН	PSM,R LE,SIM ,X-Ray, PER	PRN,T-CS, OSCE,CL- PR,P-VIVA	F&S	Π	-	NLHP35.1	

Non Lecture H	Non Lecture Hour Theory							
S.No	Name of Activity	Description of Theory Activity						
Non Lecture H	Iour Practical							
S.No	Name of Practical	Description of Practical Activity						
NLHP 35.1	Examination of Acute Abdomen	Steps:         Initial Assessment         1. Patient History: Collect a detailed history of the pain, including onset, location, duration, and character. Enquire about associated symptoms like nausea, vomiting, fever, or changes in bowel habits.         2. General Observation: Assess the patient's general appearance and vital signs. Look for signs of distress, pallor, or diaphoresis.         Physical Examination         1. Inspection: Observe the abdomen for distension, scars, hernias, or visible peristalsis.         2. Palpation: Perform gentle and then deeper palpation to identify areas of tenderness, rebound tenderness, guarding, or masses.         3. Percussion: Percuss the abdomen to detect areas of tenderness, dullness, or tympany.         4. Auscultation: Listen to bowel sounds in all quadrants. Note any abnormalities like hyperactive, hypoactive, or absent sounds.						
		• Specific Signs: Check for specific signs like Murphy's sign, McBurney's point tenderness, and Rovsing's sign.						
		Supplementary Assessment						

1. Laboratory Tests: Order relevant blood tests (e.g., complete blood count, electrolytes, liver enzymes_amylase_linase) to aid in diagnosis
2. Imaging: If indicated, obtain imaging studies such as abdominal X-rays, ultrasound, or CT
scan to further evaluate the underlying cause.

### Topic 36 Udara Roga (LH :1 NLHT: 2 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3	Define Nidan, Prakar, Samprapti, Laxan, Chikitsa Of Udara, Yakritpleehodar,Chidrodar, Baddhagudodar	СК	МК	Κ	L,L&PP T	T-CS,P-VI VA,VV-Vi va,P- EXAM	F&S	II	-	LH
CO1, CO3, CO4	Discuss Aetiopathogenesis, Clinical, Features, Diagnosis, Complications, and Management of Ascites	CC	МК	K	DIS,PS M,LRI, D-BED, CBL	PRN,OSPE, QZ ,DEB, C-VC	F&S	II	H-KC	NLHT36.1
CO1, CO3, CO4, CO5	Discuss Aetiopathogenesis, Clinical, Features, Diagnosis of Peptic Ulcer Complications, and Management of Peritonitis	CC	МК	K	CBL,PT ,BL,X- Ray,PE R	CL-PR,P- EXAM, C- VC,PRN,T- CS	F&S	II	H-KC	NLHT36.2
Non Le	ecture Hour Theory				•					

S.No	Name of Activity	Description of Theory Activity
NLHT 36.1	Examination of Ascites	1. <b>Interactive Case Studies</b> : Present case studies detailing patients with ascites, focusing on aetiopathogenesis, clinical features, diagnosis, complications, and management. Have students analyze and discuss these in small groups.
		2. <b>Role-Playing</b> : Have students role-play as healthcare professionals and patients. The "doctors" can conduct mock patient interviews, perform physical exams, and discuss diagnostic tests and management plans for ascites.

		<ol> <li>Ultrasound Workshops: Use videos or simulation tools to demonstrate how to perform an ultrasound for detecting ascites. Teach students to identify key features and assess the extent of fluid accumulation.</li> <li>Hands-On Simulations: Use medical simulation tools or models to allow students to practice diagnostic and therapeutic procedures related to ascites, such as paracentesis.</li> <li>Group Discussions: Facilitate group discussions on the challenges and complexities of managing ascites, encouraging students to ask questions and share insights.</li> </ol>
NLHT 36.2	Examination of Peritonitis	<ol> <li>Detailed Case Studies: Provide comprehensive patient case studies covering aetiopathogenesis, clinical features, diagnosis, complications, and management of peritonitis. Have students dissect and discuss these in small groups.</li> <li>Role-Playing Exercises: Get students to role-play as healthcare professionals and patients. The "doctors" can conduct mock patient interviews and physical exams, diagnosing and discussing management strategies for peritonitis.</li> <li>Diagnostic Simulations: Use simulation tools or apps to let students practice diagnostic procedures, such as performing a physical examination or ordering and interpreting imaging tests and lab results.</li> <li>Guest Lectures: Bring in surgeons or gastroenterologists to discuss their clinical experiences and advancements in the diagnosis and management of peritonitis.</li> <li>Group Discussions: Facilitate discussions on the challenges and strategies for managing peritonitis, encouraging students to share their insights and questions.</li> </ol>
Non Lecture	Hour Practical	

S.No		Name of Practical	Description	of Practica	l Activity	y					
Topic 3	37 Aam	ashaya Evam Adho-Aamashaya Vikara (Diseas	ses of Stoma	ch and Du	odenum)	(LH :2 N	LHT: 1 NLH	<b>P: 2</b> )			
A3		B3	C3	D3	E3	F3	G3	Н3	13	K3	L3
CO1, CO2	Explain Diagnos	Explain Etiopathogenesis, Classification, Clinical Features, Diagnosis, Complications and Management Peptic Ulcer		МК	K	L&PPT ,L	QZ ,CL-PR ,VV-Viva,T -OBT,PP- Practical	F&S	Π	-	LH
CO1, CO3, CO5	Describe Carcinoma of Stomach in detail		СК	МК	K	L,L&PP T	CBA,INT,P RN,Log bo ok,PP- Practical	F&S	II	-	LH
CO1, CO3, CO6	Discuss the Aetiopathogenesis, Clinical Features, Diagnostic criteria, Management strategies (medical and surgical), and Complications of Pyloric Stenosis.		СС	МК	K	TUT,L &GD,IB L,FC,P BL	Log book,C BA,T- CS,QZ ,DEB	F&S	II	-	NLHT37.1
CO1, CO2, CO4	Demonstrate the skills to systematically assess, diagnose and manage abdominal lumps. Differentiate between various types of abdominal lumps based on clinical examination.		d on	МК	K	TUT,L &GD,D, L&PPT ,SIM	PP-Practica l,VV-Viva, SP,P- VIVA,T- CS	F&S	Π	-	NLHP37.1
Non Le	ecture H	lour Theory									
S.No	Name of Activity         Description of Theory Activity										
NLHT 3	37.1	Examination of Pyloric Stenosis	Steps-         Theory         1. Lecture: Aetiopathogenesis and classification.         2. Discussion: Clinical features and diagnostic criteria.								

	<ul> <li>3. Case studies: Diagnosis and management.</li> <li>4. Group discussion: Complications and prevention.</li> <li>5. Interactive session: Q&amp;A.</li> <li>Practical <ol> <li>Clinical demonstration: Examination techniques.</li> <li>Hands-on training: Diagnostic procedures (e.g., ultrasound).</li> <li>Case presentation: Students present cases.</li> <li>Clinical <ol> <li>Live patient demonstration: Diagnosis and management.</li> <li>Observational learning: Students observe expert consultations.</li> <li>Interactive session: Q&amp;A and discussion.</li> </ol> </li> </ol></li></ul>
Non Locture Hour Practical	
Non Lecture Hour Practical	

S.No	Name of Practical	Description of Practical Activity
NLHP 37.1	Examination of Abdominal lump	Steps: Patient History
		<ol> <li>Gather History: Ask about the onset, duration, and progression of the lump. Enquire about associated symptoms like pain, changes in bowel habits, weight loss, or fever.</li> <li>Medical History: Document past medical history, including any surgeries, gastrointestinal conditions, or family history of cancer.</li> </ol>
		Physical Examination
		<ol> <li>Inspection: Observe the abdomen for visible lumps, asymmetry, or skin changes.</li> <li>Palpation:</li> </ol>

		<ul> <li>surface characteristics.</li> <li>Deep Palpation: Assess the consistency (soft, firm, hard), mobility, and tenderness of the lump.</li> <li>Assessing for Pulsation: Determine if the lump is pulsatile, which could indicate a vascular origin like an abdominal aortic aneurysm.</li> <li>3. Percussion: <ul> <li>Dullness: Percuss over the lump to identify areas of dullness, which can indicate solid or cystic masses.</li> <li>Resonance: Note any areas of resonance, which might suggest a gaseous component.</li> </ul> </li> <li>4. Auscultation: <ul> <li>Listen over the lump for bowel sounds or bruits, which can provide clues about its nature.</li> </ul> </li> <li>Supplementary Assessment <ul> <li>Imaging: Order appropriate imaging studies such as ultrasound, CT scan, or MRI to further evaluate the lump.</li> <li>Laboratory Tests: Conduct relevant blood tests (e.g., complete blood count, tumor markers) to the state of the state.</li> </ul> </li> </ul>									
Topic 3	38 Kshudrantra Vikara (Diseases of Small Intestine)	(LH :4	4 NLHT:	2 NLHP	:1)						
A3	B3		C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO4, CO6	Describe the Aetiopathogenesis, Classification, Clinical Fer Diagnosis, Complications, and management of Tuberculosi the Small Intestine	atures, is of	СК	МК	K	L&PPT ,L	PRN,PP-Pr actical,VV- Viva,CHK, T-CS	F&S	II	Н-КС	LH
CO1, CO3,	Explain the Pathophysiology, Clinical features, Diagnostic criteria, and Management strategies of Blind loop syndrome	e,	CC	DK	К	TUT,C D,L&PP	P-VIVA,D OPS,VV-Vi	F&S	Π	Н-КС	NLHT38.1

CO4, CO7	Short B	owel Syndrome & Typhoid Enteritis				T ,D-BE D,L&G D	va,DEB,PP- Practical				
CO1, CO3, CO4	Describ Examin Manage	e Aetiopathogenesis, Classification, Clinical Feature ations, Investigations & Diagnosis, Complications ar ment of Intestinal Obstruction.	s, CC nd	МК	К	L,L&PP T	P-VIVA,D EB,PP-Prac tical,Log bo ok,P- EXAM	F&S	II	-	LH
CO1, CO3, CO6	Explain criteria, Prevent	the Pathophysiology, Clinical features, Diagnostic Management strategies, and Complications with ion methods of Intussusception.	CC	DK	K	L&GD, RP,FC, L_VC,C D	INT,DEB,T -CS,P- VIVA,PRN	F&S	II	-	NLHT38.2
CO1, CO3, CO6	Enumer investig intestina	ate Etiopathogenesis, Classification, Clinical Feature ations, Diagnosis, Complications and management o al perforation	es, CK f	МК	K	L&PPT ,L	CL-PR,P- EXAM,Log book,QZ ,T- CS	F&S	II	-	LH
CO1, CO3	Explain criteria, Preventi intestine	the Pathophysiology, Clinical features, Diagnostic Management strategies, and Complications with ion methods of Benign and Malignant neoplasms of te.	CK	NK	K	L,L&PP T	P-EXAM,P P-Practical, INT,T- CS,PRN	F&S	II	-	LH
CO1, CO2, CO4	Demons the skill Diagnos various	strate s to conduct a thorough abdominal examination with sis and Management, identifying abdominal pathologies.	its PSY-GUD	МК	КН	DIS,PE R,PT,C BL,SIM	T-CS,INT,P -EXAM,CB A	F&S	II	-	NLHP38.1
Non L	ecture H	lour Theory									
S.No		Name of Activity	Description	of Theory A	ctivity						
NLHT	38.1	Demonstration of Blind loop syndrome, Short	Activities -								

	Bowel Syndrome & Typhoid Enteritis	<ul> <li>Blind Loop Syndrome-</li> <li>1. Case study presentation: Students present a case of Blind Loop Syndrome.</li> <li>2. Group discussion: Causes, symptoms, and complications.</li> <li>3. Interactive lecture: Pathophysiology and diagnosis.</li> <li>4. Clinical Description: Students analyze and discuss case scenarios.</li> <li>5. Radiology session: Interpretation of imaging studies (e.g., CT scans).</li> <li>Short Bowel Syndrome</li> <li>1. Lecture: Pathophysiology and classification.</li> <li>2. Case study presentation: Students present a case of Short Bowel Syndrome.</li> <li>3. Group discussion: Nutritional management and complications.</li> <li>4. Problem-based learning: Students develop a treatment plan.</li> <li>5. Guest lecture: Expert discussion on intestinal transplantation.</li> <li>Typhoid Enteritis</li> <li>1. Interactive lecture: Pathophysiology and epidemiology.</li> <li>2. Case study presentation: Students present a case of Typhoid Enteritis.</li> <li>3. Group discussion: Complications and prevention.</li> <li>4. Microbiology session: Laboratory diagnosis and antibiotic resistance.</li> <li>5. Public health session: Vaccination and prevention strategies.</li> </ul>
NLHT 38.2	Examination of Intussusception	<ul> <li>Activities:</li> <li>Lecture and Discussion</li> <li>1. Introduction to intussusception: definition, epidemiology, and pathophysiology.</li> <li>2. Clinical features and diagnostic criteria: symptoms, signs, and imaging studies.</li> <li>3. Management strategies: non-surgical (e.g., enema) and surgical.</li> <li>Case Studies and Group Discussion</li> <li>1. Case study presentation: students present a case of intussusception.</li> <li>2. Group discussion: diagnosis, management, and complications.</li> <li>3. Problem-based learning: students develop a treatment plan.</li> <li>Practical and Clinical Sessions</li> </ul>

	1. Clinical vignettes: students analyze and discuss case scenarios.
	2. Radiology session: interpretation of imaging studies (e.g., ultrasound, CT scans).
	3. Simulation-based training: students practice diagnosing and managing intussusception.
	Interactive and Online Sessions
	1. Online lecture: expert discussion on intussusception management.
	2. Interactive quiz: assessment of knowledge.
	3. Virtual patient simulation: students practice diagnosing and managing intussusception.

S.No	Name of Practical	Description of Practical Activity
NLHP 38.1	Per abdominal Clinical Examination.	Steps: Patient History
		<ol> <li>Gather History: Ask about symptoms such as pain, nausea, vomiting, bowel habits, and appetite changes.</li> <li>Medical History: Document past medical history, including any gastrointestinal conditions, surgeries, or relevant family history.</li> <li>Physical Examination</li> </ol>
		<ol> <li>Inspection:         <ul> <li>Observe the abdomen for any visible abnormalities like scars, distension, or asymmetry.</li> <li>Note any signs such as jaundice, spider angiomas, or visible peristalsis.</li> </ul> </li> <li>Palpation:         <ul> <li>Perform light and deep palpation to assess for tenderness, masses, or organomegaly.</li> </ul> </li> </ol>

		Sup	<ul> <li>3. Percussi</li> <li>4. Ausculta</li> <li>9.</li> <li>9.&lt;</li></ul>	Check for Evaluate li on: Percuss all Identify are ation: Use a steth Note any a Assessmen ory Tests: C cal findings : If indicat hal patholo	rebound te ver size ar areas of th eas of abno oscope to bnormal so ts Drder relev s. ed, obtain gy.	enderness, g nd tenderne he abdomer ormal resor listen to be ounds like want blood imaging st	guarding, and r ss (Murphy's n to assess for nance, indicati owel sounds in hyperactive, h tests (e.g., live udies such as	rigidity. sign), sple tympany o ng possible all four qu ypoactive, er function ultrasound	en, kidr or dullne e fluid, uadrants or abse tests, a or CT s	neys, and a ess. air, or mas s. ent bowel s mylase, lip scan to fur	oorta. ss presence. sounds. base) based ther evaluate
Topic 3	89 Brih	adantra Vikara (Diseases of Large Intestine) (LH	2 NLHT:	1 NLHP:	1)						
A3		B3	C3	D3	E3	F3	G3	H3	I3	K3	L3

A3	B3	C3	D3	<b>E3</b>	<b>F3</b>	G3	H3	I3	K3	L3
CO1, CO3, CO6	Enumerate Aetiopathogenesis, Classification, Clinical Features, Examinations, Investigations & Diagnosis, Complications, and Management of Crohn's Disease and Ulcerative Colitis	СК	DK	К	L&PPT ,L	DEB,PRN, P-VIVA,V V-Viva,PP- Practical	F&S	II	-	LH
CO1, CO2, CO3, CO4	Enumerate Aetiopathogenesis, Classification, Clinical Features, Examinations, Investigations & Diagnosis, Complications, and Management of Appendicitis (Undukapuchashotha).	СК	МК	К	L,L&PP T	CL- PR,INT,QZ ,P- PRF,PRN	F&S	II	-	LH

CO1, CO3	Explain staging, its mana Elabora	the clinical presentation, diagnosis, epidemiology, and risk factors of Carcinoma Colon agement options (surgery, chemotherapy, radiation). te on the importance of screening and prevention.	with	CC	NK	K	PER,CB L,D,W, RLE	T-CS,CBA, PP-Practica l,PRN,VV- Viva	F&S	II	-	NLHT39.1	
CO1, CO2, CO4	Demonstrate the skills to assess, diagnose, and manage Chronic abdominal conditions. Differentiate between various Chronic abdominal pathologies through a systematic examination			PSY- GUD	МК	K	RP,REC ,CD,PT, TUT	PP-Practica l,P-PRF,IN T,P-VIVA, VV-Viva	F&S	II	-	NLHP39.1	
Non Le	n Lecture Hour Theory												
S.No		Name of Activity     Description of Theory Activity											
NLHT 3	ionName of ActivityDescription of Theory ActivityHT 39.1Diagnosis of Carcinoma of ColonActivities: Lecture and Discussion 1. Introduction to Carcinoma Colon: epidemiology, risk factors, and pathophysiology. 2. Clinical presentation and diagnosis: symptoms, signs, and diagnostic tests. 3. Management options: surgery, chemotherapy, radiation, and targeted therapy. Case Studies and Group Discussion 1. Case study presentation: students present a case of Carcinoma Colon. 2. Group discussion: diagnosis, management, and complications. 3. Problem-based learning: students develop a treatment plan. Practical and Clinical Sessions (7-9) 1. Clinical vignettes: students analyze and discuss case scenarios. 2. Endoscopy session: observation of colonoscopy procedure. 3. Radiology session: interpretation of colon management. 2. Interactive and Online Sessions 1. Online lecture: expert discussion on Carcinoma Colon management. 2. Interactive quiz: assessment of knowledge. 3. Virtual patient simulation: students practice diagnosing and managing Carcinoma Colon.						n.						

Hands-on Activities
1. Colonoscopy simulation: students practice performing colonoscopy.
2. Surgical demonstration: observation of colectomy procedure.
3. Pathology session: examination of colon cancer specimens.

S.No	Name of Practical	Description of Practical Activity
NLHP 39.1	Examination of Chronic Abdomen	Steps:
		Patient History
		1. Gather History: Ask about the onset, duration, and nature of abdominal pain or discomfort. Inquire about associated symptoms such as weight loss, changes in bowel habits, nausea, and vomiting.
		2. Medical History: Document past medical history, including any gastrointestinal conditions, surgeries, medications, and family history.
		Physical Examination
		1. Inspection:
		• Observe the abdomen for visible abnormalities such as scars, distension, or skin changes
		<ul> <li>Look for signs such as jaundice, spider angiomas, or masses.</li> </ul>
		2. Palpation:
		• Perform light and deep palpation to assess for tenderness, masses, or organomegaly.
		3. Percussion:
		<ul> <li>Percuss all areas of the abdomen to assess for tympany or dullness.</li> <li>Identify areas of abnormal recomposed in directing pessible fluid air or mass presence.</li> </ul>
		• Identity areas of abnormal resonance, indicating possible fluid, air, or mass presence.

	Suppl	• ( • ] 4. Ausculta • ] • ]	Check for Evaluate li ation: Use a steth Note any a Assessmen	rebound te ver size ar oscope to bnormal s ts	enderness, g nd tenderne listen to bo ounds like	guarding, and n ess (Murphy's a owel sounds in hyperactive, h	igidity. sign), sple all four qu ypoactive,	en, kid uadrant or abs	neys, and a s. ent bowel s	orta. sounds.
		<ol> <li>Laboratory Tests: Order relevant blood tests (e.g., , Complete blood count, RBS, Liver function tests, Kidney function tests, S.amylase, S. lipase) based on clinical findings.</li> <li>Imaging: If indicated, obtain imaging studies such as ultrasound, CT scan, or MRI to further evaluate abdominal pathology.</li> <li>Endoscopy: Consider endoscopic examinations like upper GI endoscopy or colonoscopy if gastrointestinal tract involvement is suspected.</li> </ol>								Liver gs. I to further oscopy if
Торіс	40 Guda Vikara (Diseases of Rectum and Anal Canal) (LH	[ :5 NLH]	Г: 4 NLH	<b>P: 4</b> )	T			1	1	
A3	B3	C3	D3	E3	F3	G3	H3	I3	К3	L3
CO1, CO3, CO5	Explain the surgical anatomy of the anus and rectum, the physiology of defecation and continence, anatomical landmarks, and relationships relevant to anorectal surgery. Discuss common anorectal conditions (e.g., hemorrhoids, fistulas, fissures) and skills in examining and diagnosing anorectal conditions.	CC	МК	К	L_VC,D -BED,L &GD,P ER,CD	VV-Viva,P RN,T-CS, C-VC,P- VIVA	F&S	ш	V-RS,V- RS	NLHT40.1
CO1, CO3	Describe Aetiopathogenesis, Classification, Clinical Features, Investigations, Diagnosis, Complications, and management of Prolapse of the rectum (Gudabramsha)	СК	NK	K	L&GD, L,L&PP T	T-OBT,VV -Viva,T- CS,Log boo k,PP- Practical	F&S	III	-	LH

CO1, CO4	Describe Aetiopathogenesis, Classification, Clinical Features, Examinations, Investigations & Diagnosis, Complications and Management of Anorectal Abscesses (Guda Vidradhi) and Bhagandara (Fistula-in-ano).	СК	MK	K	L&GD, L&PPT ,X-Ray, PSM,PT	PRN,VV-V iva,T-CS,I NT,P- VIVA	F&S	III	-	NLHT40.2
CO1, CO2, CO3, CO7	Describe Aetiopathogenesis, Classification, Clinical Features, Investigations, Diagnosis, Complications, and management of Fistula in ano	СК	МК	K	L&PPT ,L	CBA,PRN, T-CS,PP-Pr actical,VV- Viva	F&S	III	-	LH
CO1, CO2, CO3, CO6, CO7	Describe Aetiopathogenesis, Classification, Clinical Features, Investigations, Diagnosis, Complications, and Management of Haemorrhoids.	СК	МК	K	L,L&PP T	P-CASE,PP -Practical,L og book,T- CS,VV- Viva	F&S	III	-	LH
CO1, CO2, CO3, CO4, CO6	Enumerate Nidan, Prakara, Samprapti, Laxana and Chikitsa of Arshas	СК	МК	K	L&PPT ,L	VV-Viva,P RN,DEB,T- CS,INT	F&S	Ш	-	LH
CO1, CO2, CO3, CO7	Describe Aetiopathogenesis, Classification, Clinical Features, Examinations, Investigations & Diagnosis, Complications and Management of Fissure-in-Ano.	СК	МК	К	L&PPT ,PER,L &GD,C D,D	T-CS,Log b ook,INT,P- EXAM,P- VIVA	F&S	III	-	NLHT40.3
CO1, CO3, CO6	Describe Etiopathogenesis, Classification, Clinical Features, Investigations, Diagnosis, Complications and management of Carcinoma of Rectum And Anal canal	СК	МК	K	L&GD, L,L&PP T	VV-Viva,P- EXAM,P-V IVA,PP-Pra ctical,T-CS	F&S	III	-	LH
CO1, CO2,	Describe Aetiopathogenesis, Classification, Clinical Features, Examinations, Investigations & Diagnosis, Complications and	СК	NK	K	L&PPT ,SIM,T	PP-Practica 1,SP,P-VIV	F&S	III	-	NLHT40.4

CO4	Manage of Anor	Management of Pilonidal Sinus, Proctitis, Pruritis Ani & Injuries of Anorectal region					UT,CB L,L_VC	A,T-CS,VV- Viva				
CO1, CO2, CO4, CO5	<ul> <li>CO1, Demonstrate the skills to identify, examine, diagnose, and mar sinus tracts and fistulas, and distinguish various types of sinus and fistulas.</li> <li>CO5</li> </ul>			PSY- GUD	МК	КН	PBL,L& PPT ,PE R,CBL, DIS	DOPS,CH K,DOPS,T- CS,PP- Practical	F&S	III	-	NLHP40.1
<ul> <li>CO1, Demonstrate the skills to conduct a thorough examination,</li> <li>CO2, Diagnosis, and management of rectal cases and distinguish</li> <li>CO3 various types of Rectal Pathologies</li> </ul>				PSY- GUD	МК	K	FC,DIS, SIM,D- M,L&G D	T-CS,P-EX AM,SP,Min i- CEX,DOPS	F&S	III	-	NLHP40.2
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
S.No       Name of Activity         NLHT 40.1       Surgical Anatomy & physiology of Ano Rectal Conditions			Activi Lectur 1. Surg 2. Phy 3. Ana Dissec 1. Cad 2. Pros 3. Iden Case S 1. Case 2. Gro 3. Prot Clinica 1. Clin 2. End	ties: e and Disc gical anato siology of tomical re tion and P averic diss section der dification dudies and e study pre- up discuss olem-based al and End tical exami- oscopy de	cussion omy of the defecation lationships ractical Se section: stu nonstration of anatomi l Group Di esentation: ion: diagno d learning: oscopy Sec ination: stu monstratio	anus and r and conti and landr ssions dents exp r: detailed cal landm scussion students p osis, mana students o ssions dents prace n: observa	rectum. inence. marks. lore anorec examinati arks and re present ano agement, ar develop tre ctice exami- ation of ano	etal anatomy. on of anorecta elationships. rectal condition ad complication atment plans. ining patients. oscopy and sig	l structure ons. ns. moidoscoj	s. py.		

		<ol> <li>Radiology session: interpretation of imaging studies (e.g., MRI, CT scans). Interactive and Online Sessions</li> <li>Online lecture: expert discussion on anorectal surgery.</li> <li>Interactive quiz: assessment of knowledge.</li> <li>Virtual patient simulation: students practice diagnosing and managing anorectal conditions.</li> </ol>
NLHT 40.2	Examination of Anorectal Abscesses (Guda Vidradhi) and Bhagandara (Fistula-in-ano)	<ul> <li>Activities: Lecture and Discussion</li> <li>1. Introduction to Anorectal Abscesses (Guda Vidradhi): definition, etiology, and pathophysiology.</li> <li>2. Clinical presentation and diagnosis: symptoms, signs, and diagnostic tests.</li> <li>3. Management options: medical, surgical, and Ayurvedic.</li> <li>Case Studies and Group Discussion</li> <li>1. Case study presentation: students present Anorectal Abscesses or Bhagandara cases.</li> <li>2. Group discussion: diagnosis, management, and complications.</li> <li>3. Problem-based learning: students develop treatment plans.</li> <li>Practical and Clinical Sessions</li> <li>1. Clinical examination: students practice examining patients with Anorectal Abscesses or Bhagandara.</li> <li>2. Surgical demonstration: observation of abscess drainage or fistulotomy procedures.</li> <li>3. Radiology session: interpretation of imaging studies (e.g., MRI, CT scans).</li> <li>Ayurvedic Perspective</li> <li>1. Lecture: Ayurvedic perspective on Anorectal Abscesses (Guda Vidradhi) and Bhagandara.</li> <li>2. Discussion: Ayurvedic management options (e.g., Kshar Sutra, herbal remedies).</li> <li>3. Case study presentation: Ayurvedic management of Anorectal Abscesses or Bhagandara.</li> <li>1. Online lecture: expert discussion on Anorectal Abscesses and Bhagandara management.</li> <li>2. Interactive quiz: assessment of knowledge.</li> <li>3. Virtual patient simulation: students practice diagnosing and managing Anorectal Abscesses and Bhagandara.</li> </ul>

NLHT 40.3	Examination of Fissure in Ano (Parikartika )	Activities:         Lecture and Discussion         1. Etiopathogenesis and classification of Fissure-in-Ano.         2. Clinical features: symptoms, signs, and stages.         3. Investigations: diagnostic criteria and modalities (e.g., anoscopy, MRI).         Case Studies and Group Discussion         1. Case study presentation: students present Fissure-in-Ano cases.         2. Group discussion: diagnosis, management, and complications.         3. Problem-based learning: students develop treatment plans.         Practical and Clinical Sessions         1. Clinical examination: students practice examining patients with Fissure-in-Ano.         2. Proctoscopy demonstration: observation of fissure visualization.         3. Radiology session: interpretation of imaging studies (e.g., MRI, CT scans).         Interactive and Online Sessions         1. Online lecture: expert discussion on Fissure-in-Ano management.         2. Interactive quiz: assessment of knowledge.         3. Virtual patient simulation: students practice diagnosing and managing Fissure-in-Ano.
NLHT 40.4	Examination of Pilonidal Sinus, Proctitis, Pruritis Ani & Injuries of Anorectal region	Pilonidal Sinus         Activities:         1. Lecture: definition, etiology, and pathophysiology.         2. Case study presentation: students present Pilonidal Sinus cases.         3. Group discussion: diagnosis, management, and complications.         4. Surgical demonstration: observation of Pilonidal Sinus excision.         Proctitis         Activities:         1. Lecture: definition, etiology, and pathophysiology.         2. Case study presentation: students present Proctitis cases.         3. Group discussion: diagnosis, management, and complications.

4. Proctoscopy demonstration: observation of Proctitis visualization.
Pruritis Ani
Activities:
1. Lecture: definition, etiology, and pathophysiology.
2. Case study presentation: students present Pruritis Ani cases.
3. Group discussion: diagnosis, management, and complications.
4. Dermatology session: examination of Pruritis Ani specimens.
Injuries of Anorectal Region
Activities:
1. Lecture: types and causes of anorectal injuries.
2. Case study presentation: students present anorectal injury cases.
3. Group discussion: diagnosis, management, and complications.
4. Surgical demonstration: observation of anorectal injury repair.

S.No	Name of Practical	Description of Practical Activity
NLHP 40.1	Examination of a Sinus or Fistula and Hands-on training on Simulators	Steps: Patient History
		<ol> <li>Gather History: Ask about the onset, duration, and nature of symptoms. Inquire about discharge, pain, and any prior surgeries or infections.</li> <li>Medical History: Document past medical history, including any relevant systemic conditions like Crohn's disease, tuberculosis, or diabetes.</li> <li>Physical Examination</li> </ol>

		<ol> <li>Inspection:         <ul> <li>Examine the area for visible signs of a sinus or fistula, such as an external opening, discharge, or skin changes.</li> <li>Note the location, size, and appearance of any external openings.</li> </ul> </li> <li>Palpation:         <ul> <li>Gently palpate the surrounding tissue to assess for tenderness, induration, or signs of infection.</li> <li>Determine the tract's direction by feeling induration along the pathway.</li> </ul> </li> <li>Probing:         <ul> <li>Use a sterile malleable probe to gently explore the sinus or fistula tract.</li> <li>Note the depth, direction, and any resistance or obstructions.</li> </ul> </li> <li>Imaging (if available):         <ul> <li>Consider using MRI, or fistulography to visualize the tract and assess its extent and connections.</li> </ul> </li> </ol>
		Supplementary Assessments
		1. Special Tests: Consider tests for underlying conditions that may contribute to sinus or fistula formation, such as inflammatory markers or tuberculosis tests.
		Hands-on Training with Simulators
		<ol> <li>Simulator Setup: Ensure the simulator accurately represents the anatomy and pathology of a sinus or fistula.</li> <li>Practice Sessions: Allow participants to practice inspection, palpation, and probing techniques on the simulator.</li> <li>Feedback and Debriefing: Provide constructive feedback and conduct a debriefing session to discuss findings and areas for improvement.</li> </ol>
NLHP 40.2	Examination of Rectal case and Hands-on training	Steps:

on Simulators	Patient History
	<ol> <li>Gather History: Ask about symptoms such as pain, bleeding, changes in bowel habits, and discharge. Inquire about duration, onset, and any associated symptoms like weight loss or systemic issues.</li> <li>Medical History: Document past medical history, including any gastrointestinal conditions, surgeries, medications, and family history of colorectal diseases.</li> </ol>
	Physical Examination
	<ol> <li>Inspection:         <ul> <li>Observe the perianal area for visible abnormalities such as skin tags, fissures, hemorrhoids, or external masses.</li> <li>Look for signs of inflammation, discharge, or bleeding.</li> </ul> </li> <li>Digital Rectal Examination (DRE):         <ul> <li>Preparation: Explain the procedure to the patient, ensuring privacy and comfort. Use gloves and lubrication.</li> <li>Technique: Gently insert a lubricated, gloved finger into the rectum. Assess for tenderness, masses, and the tone of the anal sphincter. Feel for any abnormalities within the rectal wall.</li> <li>Note Findings: Document findings such as masses, tenderness, and stool characteristics (e.g., blood, mucus).</li> </ul> </li> </ol>
	Supplementary Assessments
	<ol> <li>Proctoscopy or Anoscopy: If available, use a proctoscope or anoscope to visualize the rectal mucosa and identify any lesions or abnormalities.</li> <li>Laboratory Tests: Collect stool samples for occult blood testing and culture if indicated.</li> </ol>

3. Imaging: Consider ordering imaging studies such as an abdominal X-ray, CT scan, or MRI if further evaluation is needed.	f
Hands-on Training with Simulators	
<ol> <li>Simulator Setup: Ensure the simulator accurately represents rectal anatomy and pathology.</li> <li>Practice Sessions: Allow participants to practice the digital rectal examination and use of proctoscopy or anoscopy on the simulator.</li> <li>Feedback and Debriefing: Provide constructive feedback and conduct a debriefing session to discuss findings and areas for improvement.</li> </ol>	)

## Topic 41 Udarabhighata (Abdominal Injuries) (LH :1 NLHT: 0 NLHP: 2)

A3		B3		C3	D3	E3	F3	G3	Н3	I3	К3	L3
CO1, CO3, CO4, CO6	Explain	abdominal injuries and their management		СК	NK	K	L&PPT ,L&GD, L	T-CS,DOP S,PP-Practi cal,DOPS, VV-Viva	F&S	III	-	LH
CO1, CO3, CO4, CO6	<ul> <li>Demonstrate the skills to conduct a thorough examination,</li> <li>Diagnosis, and management of Abdominal injuries &amp; Trauma patients and distinguish various types of Abdominal injuries.</li> </ul>		na	PSY- MEC	NK	К	PT,FC,S IM,W,L &PPT	T-OBT,DO PS,T-CS,D OPS,CHK	F&S	III	-	NLHP41.1
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	iption of	Theory A	ctivity						
Non Le	ecture H	Iour Practical										
S.No Name of Practical Descr			iption of	Practical	Activity							
NLHP 4	41.1	Examination of Abdominal Injuries	Steps:									

	Initial Assessment
	<ol> <li>Scene Safety: Ensure the environment is safe for both the patient and healthcare providers.</li> <li>Primary Survey: Follow the ABCDE approach (Airway, Breathing, Circulation, Disability, Exposure) to assess and stabilize the patient.</li> <li>Obtain Consent: Explain the procedure to the patient and obtain their consent, if they are conscious and able to provide it.</li> </ol>
	Physical Examination
	<ol> <li>Inspection: Observe the abdomen for signs of injury such as bruising, swelling, open wounds, or deformities.</li> <li>Palpation: Gently palpate the abdomen to identify areas of tenderness, distension, guarding, or rigidity.</li> <li>Percussion: Tap on the abdomen to assess for dullness or tympany, which might indicate internal bleeding or air.</li> <li>Auscultation: Listen to bowel sounds using a stethoscope to detect any abnormalities such as absent bowel sounds, which can suggest peritonitis or intestinal obstruction.</li> <li>Supplementary Assessments</li> </ol>
	<ol> <li>Vital Signs Monitoring: Continuously monitor the patient's vital signs (heart rate, respiratory rate, blood pressure, oxygen saturation) to detect any deterioration.</li> <li>Imaging: If available, order imaging studies such as abdominal X-ray, ultrasound, or CT scan to further evaluate the injuries.</li> <li>Laboratory Tests: Order relevant blood tests (e.g., Complete blood count, electrolytes, liver function tests, S.amylase, S.lipase) based on clinical findings.</li> </ol>
Topic 42 Yakrit Vikara (Diseases of Liver) (LH :3 NLHT	: 1 NLHP: 10)

A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO1, CO4, CO5	Explain the Aetiology, Clinical features, Diagnosis, and Emergency Management of Liver injury.	СК	NK	K	L&GD, L&PPT ,L	QZ ,DEB,I NT,P-VIV A,PP- Practical	F&S	III	-	LH
CO1, CO5	Explain the Aetiology, Clinical features, Diagnosis, and Management of Hydatid Cyst and Liver Abscess	СК	DK	K	L,L&PP T	T-CS,VV- Viva,INT,P P-Practical, P-CASE	F&S	III	-	LH
CO1, CO4, CO5	Explain the Aetiology, Clinical features, Diagnosis, and Management of Hepatomegaly and Carcinoma of the Liver	СК	NK	K	L,L&PP T	PP-Practica l,DEB,INT, T-CS,VV- Viva	F&S	III	-	LH
CO1, CO2, CO4	Demonstrate the skills to learn the Surgical Anatomy of the Liver and conduct a thorough examination, Diagnosis, and Management of Acute Liver Injuries.	СК	МК	K	TUT,L_ VC,L& PPT ,C BL,L& GD	P- EXAM,QZ ,VV-Viva,P P-Practical, COM	F&S	III	-	NLHP42.1
CO1, CO2, CO4	Demonstrate the skills to diagnose and manage surgical jaundice and explain the use of Endoscopic Retrograde Cholangiopancreat ography (ERCP) in the evaluation and treatment of Biliary Obstructions.	CC	NK	K	L&PPT ,CBL,C D,L&G D,D	QZ ,VV-Vi va,P-EXA M,CBA,PP- Practical	F&S	III	-	NLHP42.2
CO1, CO3, CO6	Explain the pathophysiology, Risk factors, clinical features, diagnostic criteria, management strategies, and treatment options of Acute Liver Injury (ALI).	CC	DK	K	L&GD, FC,TBL ,BL,D- M	CBA,PP-Pr actical,P-E XAM,DEB, PUZ	F&S	III	-	NLHT42.1
CO1,	Demonstrate the skills to examine and diagnose Hepatomegaly an	CAP	МК	K	PER,D-	QZ ,OSCE,	F&S	III	-	NLHP42.3

CO2, CO4	d the procedure for Percutaneous Aspiration, Injection, and Respir ation (PAIR) in treating liver abscesses.					BED,L &GD,C D,FC	CL-PR,SB A,PRN					
CO1, CO2, CO4, CO6	201,Demonstrate the skills to perform202,Paracentesis safely and effectively in the management of Ascites204,and the steps involved in the procedure using patients or simulator206s.		PSY- GUD	NK	K	SDL,D- M,DIS, TUT,L_ VC	P-CASE,V V-Viva, C- VC,P-ID,P P-Practical	F&S	Ш	-	NLHP42.4	
CO1, CO2, CO4	<ul> <li>CO1, Discuss surgical management options for Portal Hypertension</li> <li>CO2, and the steps involved in various surgical procedures.</li> <li>CO4</li> </ul>		CC	NK	К	CBL,C D,SDL, PT,D	P-REC,P-C ASE,INT,P RN,P- EXAM	F&S	III	-	NLHP42.5	
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT 4	42.1	Examination of the case of Acute Liver Injury	Description of Theory Activity         Activities:         Lecture and Discussion         1. Introduction to ALI: definition, epidemiology, and pathophysiology.         2. Causes and risk factors: toxins, medications, viruses, and metabolic disorders.         3. Clinical features and diagnostic criteria: symptoms, signs, and laboratory tests.         Case Study Presentation         1. Students present ALI case studies.         2. Group discussion: diagnosis, management, and complications.         3. Problem-based learning: students develop treatment plans.         Practical and Clinical Sessions         1. Clinical examination: students practice examining patients with ALI.         2. Laboratory session: interpretation of liver function tests (LFTs) and other diagnostic tests.         3. Imaging session: interpretation of ultrasound, CT, or MRI scans.         Interactive and Online Sessions						sts.			

<ol> <li>Online lecture: expert discussion on ALI management.</li> <li>Interactive quiz: assessment of knowledge.</li> <li>Virtual patient simulation: students practice diagnosing and managing ALI. Hands-on Activities</li> <li>Simulation based training: students practice managing ALI scenarios</li> </ol>
2. Pathology session: examination of liver biopsy specimens.
3. Patient education: students develop patient education materials.
Small Group Discussions
1. Discussion of ALI-related topics:
- Toxin-induced liver injury
- Viral hepatitis
- Autoimmune hepatitis
- Liver transplantation
2. Case-based discussions: students analyze ALI cases.
3. Journal club: discussion of recent research articles.

S.No	Name of Practical	Description of Practical Activity
NLHP 42.1	Demonstration of Surgical anatomy of the liver, Acute Liver Injury in patients, or simulator.	Steps: Surgical Anatomy of the Liver
		<ol> <li>Anatomical Overview:         <ul> <li>Liver Lobes: Right lobe, left lobe, caudate lobe, and quadrate lobe.</li> <li>Surfaces: Diaphragmatic surface (superior) and visceral surface (inferior).</li> <li>Ligaments: Falciform ligament, coronary ligaments, and triangular ligaments.</li> <li>Blood Supply: Hepatic artery, portal vein, and hepatic veins.</li> <li>Biliary System: Bile ducts, gallbladder, and cystic duct.</li> </ul> </li> </ol>

		Examination and Management of Acute Liver Injury
		<ol> <li>Initial Assessment:         <ul> <li>History Taking: Gather information on the mechanism of injury, symptoms like pain and jaundice, and any pre-existing liver conditions.</li> <li>Physical Examination: Inspect for signs of trauma, palpate for tenderness and hepatomegaly, and assess for peritoneal signs.</li> </ul> </li> <li>Diagnostic Tests:         <ul> <li>Laboratory Tests: Liver function tests, Complete blood count, coagulation profile, and Serum amylase/ S.lipase.</li> <li>Imaging Studies: Ultrasound, CT scan, or MRI to evaluate the extent of injury.</li> </ul> </li> <li>Management Techniques:         <ul> <li>NonOperative Management: Indications for conservative management, monitoring protocols, and follow-up imaging.</li> <li>Surgical Intervention: Indications for surgery, types of surgical procedures (e.g., repair, resection), and post-operative care.</li> </ul> </li> </ol>
NLHP 42.2	Demonstration of Diagnosis & Management of Surgical Jaundice with ERCP on patients /simulator.	Steps: Patient History 1. Gather History: Ask about the onset, duration, and nature of jaundice. Inquire about associated
		<ul> <li>symptoms such as pruritus, dark urine, pale stools, and abdominal pain.</li> <li>Medical History: Document past medical history, including any liver diseases, gallstones, pancreatitis, or previous surgeries.</li> </ul>
		Physical Examination
		1. Inspection: Observe the skin and sclera for jaundice. Look for signs of liver disease such as spider angiomas, palmar erythema, and ascites.

		<ul><li>2. Palpation: Check for hepatomegaly and tenderness in the right upper quadrant.</li><li>3. Auscultation: Listen for bowel sounds and any abnormal vascular sounds.</li></ul>
		Diagnostic Tests
		<ol> <li>Laboratory Tests: Order liver function tests, complete blood count, and coagulation profile.</li> <li>Imaging Studies: Perform ultrasound, CT scan, or MRI, or ERCP to evaluate the biliary tree and liver.</li> </ol>
NLHP 42.3	Examination of Hepatomegaly & PAIR in Liver Abscess and Hands-on Practice.	Steps:
		<ol> <li>Patient History:         <ul> <li>Gather history of symptoms such as abdominal pain, fatigue, jaundice, and weight loss.</li> <li>Inquire about past medical history, including liver disease, infections, and alcohol consumption.</li> </ul> </li> <li>Physical Examination:         <ul> <li>Inspection: Observe the abdomen for distension and any visible masses.</li> <li>Palpation:                 <ul> <li>Position the patient supine with knees slightly bent.</li> <li>Start palpation from the right iliac fossa moving towards the right costal margin.</li> <li>Note the size, surface, consistency, and tenderness of the liver.</li> <li>Percussion: Percuss the liver borders to determine its span and confirm hepatomegaly.</li> </ul> </li> </ul> </li> </ol>
		PAIR in Liver Abscess
		<ul><li>1. Preparation:</li><li>• Explain the procedure to the patient and obtain informed consent.</li></ul>

		<ul> <li>Ensure aseptic technique and gather necessary equipment (e.g., needles, syringes, antiseptic solution).</li> <li>2. Procedure: <ul> <li>Ultrasound Guidance: Use ultrasound to locate the abscess.</li> <li>Aspiration: <ul> <li>Insert the needle into the abscess cavity under ultrasound guidance.</li> <li>Aspirate the abscess content and send it for microbiological analysis.</li> </ul> </li> <li>Injection: Inject a scolicidal agent (e.g., hypertonic saline) into the abscess cavity.</li> <li>Re-aspiration: Re-aspirate the contents to remove the injected agent and debris.</li> </ul> </li> <li>3. Post-Procedure Care: <ul> <li>Monitor the patient for any complications such as bleeding or infection.</li> <li>Follow up with repeat ultrasound to assess the resolution of the abscess.</li> </ul> </li> </ul>
NLHP 42.4	Demonstration of Paracentesis inpatient or simulator.	<ul> <li>Steps: Patient History and Assessment</li> <li>1. Gather History: Ask about symptoms such as abdominal distension, pain, and shortness of breath. Enquire about past medical history including liver disease, heart failure, and cancer.</li> <li>2. Physical Examination: Assess for signs of ascites, including abdominal distension, fluid wave, and shifting dullness.</li> <li>Procedure Preparation</li> <li>1. Consent: Explain the procedure to the patient and obtain informed consent.</li> <li>2. Preparation: Ensure aseptic technique, and gather necessary equipment (e.g., sterile gloves, antiseptic solution, needles, syringes, collection bottles).</li> <li>3. Positioning: Position the patient comfortably, usually in a semi-upright position to allow fluid to accumulate in the lower abdomen.</li> <li>Performing Paracentesis</li> </ul>

			<ol> <li>Site Selection:         <ul> <li>Identify the site of fluid accumulation, typically in the lower quadrant.</li> <li>Use ultrasound guidance if available to minimize the risk of complications.</li> </ul> </li> <li>Sterilization: Clean the selected site with an antiseptic solution and drape the area with sterile drapes.</li> <li>Local Anesthesia: Administer local anesthesia to numb the area.</li> <li>Needle Insertion:         <ul> <li>Insert the needle perpendicular to the skin and advance it slowly while aspirating until fluid is obtained.</li> <li>Attach a syringe to collect the fluid for diagnostic analysis or therapeutic removal.</li> </ul> </li> <li>Fluid Collection: Collect fluid in sterile containers for laboratory analysis (e.g., cell count, protein, culture).</li> <li>Post-Procedure Care:         <ul> <li>Remove the needle and apply a sterile dressing to the site.</li> <li>Monitor the patient for any complications such as bleeding or infection.</li> </ul> </li> </ol>								s. with sterile virating until removal. ll count,	
NLHP 42.5       Surgical management of Portal Hypertension       Step Educ and j A the treat and d lates         Topic 43 Pittashaya Vikara (Diseases of Gall Bladder)       (LH :2 NI					ttent: Prepa ve care. erstanding o graphic de n performi chniques as <b>HP: 8</b> )	re detaile of the surg monstrati ng these c re crucial	d scripts an gical manag ons and har complex pro for success	d visual aids to gement of porta nds-on practice ocedures. Regu ful outcomes i	o explain t al hyperter e with sim- ular praction n patients	the surg nsion is ulators ce and s with po	gical steps, s essential f enhance pr staying upd ortal hypert	indications, for effective roficiency ated with the rension
A3		B3		C3	D3	E3	F3	G3	НЗ	13	K3	L3
CO1,	CO1,Discuss the gross & microscopic anatomy and histology of theCCMKKL_VC,SP-ID,360D,F&SIIIV-RS,V-NLHT43.1											
CO4, CO5	Gall Bladder with its anatomical relationships and landmarks, and congenital anomalies, diagnostic criteria, surgical procedures, complications, and post-operative care in Gall Bladder Diseases. Explain the role of laboratory tests, Liver function tests (LFTs), other relevant investigations with their Interpretation, and imaging studies in gallbladder disease.				IM,CBL ,DIS,L &GD	PP-Practica 1,T-CS,INT			RS			
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CO1, CO4, CO5	Explain Aetiopathogenesis, Classification, Clinical Features, Investigations, Diagnosis, Complications, and management of Choledochal Cyst & Congenital Biliary Atresia	CC	DK	K	L,L&PP T	P-VIVA,V V-Viva,PP- Practical,T- CS,PRN	F&S	III	-	LH		
CO1, CO2, CO3, CO6	Describe Aetiopathogenesis, Classification, Clinical Features, Investigations, Diagnosis, Complications, and management of Cholecystitis (Pittashaya Shotha) and Choledocholithiasis	CC	МК	K	L&PPT ,L	Log book,P -PRF,PRN, OSCE,T- CS	F&S	III	-	LH		
CO1, CO2, CO4, CO6	Demonstrate skills in taking patient history and performing physic al examinations, diagnosis, treatment and communication skills for cholecystitis and Choledocho lithiasis	СК	DK	К	CD,PER ,PT,D,R P	T-OBT,OS CE,T-CS,O SPE,VV- Viva	F&S	Π	-	NLHP43.1		
CO1, CO2, CO4	Explain the concept and the diagnostic and therapeutic techniques of Magnetic Resonance Cholangiopancreatography (MRCP) and Endoscopic Retrograde Cholangiopancreatography (ERCP) in Biliary and Pancreatic Disorders	СК	NK	K	L&PPT ,FC,L& GD,BL, PT	DOAP,OSP E,P-VIVA, T-OBT,PP- Practical	F&S	III	-	NLHP43.2		
CO1, CO2, CO4	Demonstrate skills in taking patient history, diagnostic and comm unication skills, and performing physical examinations for cholecystitis.	PSY- SET	DK	K	PER,L& GD,L& PPT ,C D,L_VC	P-VIVA,P- CASE,SP,T -OBT,P- MOD	F&S	III	-	NLHP43.3		
CO1, CO2,	Demonstrate skills in clinical presentation, diagnostic techniques, etc. through various interactive methods for Gall Bladder cancer	PSY- GUD	DK	K	D,PT,IB L,CD,L	P-VIVA,P- EXAM,OS	F&S	III	-	NLHP43.4		

CO4	fosterin effectiv	ng re communication and teamwork skills in a clinical se	tting.				&PPT	CE,CBA,P- REC					
Non L	ecture H	Iour Theory								•		•	
S.No		Name of Activity	Description of Theory Activity										
NLHT ·	43.1	Surgical anatomy of Gall Bladder, congenital anomalies of Gall Bladder & Basic Investigations	Surgi Activ 1. Lec 2. Dis 3. His 4. Ca: 5. Inte Cong Activ 1. Lec 2. Ca: 3. Rac 4. Sun 5. Gro Basic Activ 1. Lec 2. Ca: 3. Rac 4. Sun 5. Gro 5. Pra	ical anato ities: cture: grow ssection d stology lai se study p eractive se genital Ar ities: cture: class se study p diology se rgical den oup discus ities: cture: labo se study p diology se se study p diology se coup discus	omy of Gall ss anatomy emonstratic b: examinat resentation ession: 3D comalies of sification a resentation ession: inter constration: ssion: mana ations oratory tests resentation ession: inter ssion: inter ssion: inter ssion: diagr	Bladder and microson: gallblad ion of gall students p visualization the Gallbl nd types of students p pretation of observation gement an s and LFTs students i pretation of ostic criter and spractice	scopic ana lder dissec bladder tis present gal on of gallb <b>ladder</b> f congenita present con of imaging on of surgi d post-ope nterpret in of imaging ria and inv	tomy. tion. sue. lbladder surge ladder anatom al anomalies. ngenital anoma studies (e.g., t cal correction. erative care.	ry cases. y. ily cases. iltrasound, sults. cocols. g investiga	CT).			
INON L	ecture f	IOUF FFACUCAI											

S.No	Name of Practical	Description of Practical Activity
NLHP 43.1	Cholecystitis and Choledocholithiasis Examination	Steps: Group Discussion
		<ol> <li>Topic Introduction: Start with a brief overview of cholecystitis, its causes, and clinical presentation.</li> <li>Case Presentation: Present a typical case scenario of a patient with cholecystitis. Include details such as patient demographics, symptoms, and medical history.</li> <li>Discussion Questions:         <ul> <li>What are the common symptoms of cholecystitis?</li> <li>What differential diagnoses should be considered?</li> <li>What are the key elements in the patient's history that suggest cholecystitis?</li> </ul> </li> <li>Interactive Discussion: Encourage participants to share their thoughts and experiences. Facilitate a guided discussion to explore various aspects of diagnosis and management.</li> <li>Role Play</li> </ol>
		<ol> <li>Scenario Setup: Create role play scenarios where participants take turns playing the roles of the patient, doctor, and observer.</li> <li>Patient Role: The "patient" presents with symptoms suggestive of cholecystitis (e.g., right upper quadrant pain, nausea, fever).</li> <li>Doctor Role: The "doctor" conducts a thorough history taking and physical examination, focusing on signs and symptoms of cholecystitis.</li> <li>Observer Role: The "observer" provides feedback on the interaction, focusing on communication skills, examination techniques, and clinical reasoning.</li> <li>Debriefing: Conduct a debriefing session to discuss the role play experience, highlighting strengths and areas for improvement.</li> </ol>

		Case Taking and Examination
		<ol> <li>Patient History:         <ul> <li>Gather a detailed history of the present illness, including the onset, duration, and nature of pain.</li> <li>Ask about associated symptoms such as nausea, vomiting, fever, and changes in bowel habits.</li> <li>Document past medical history, including any previous episodes of similar pain, surgeries, and family history of gallbladder disease.</li> </ul> </li> <li>Physical Examination:         <ul> <li>Inspection: Observe the abdomen for any visible signs such as distension or jaundice.</li> <li>Palpation: Perform gentle and then deeper palpation of the abdomen, focusing on the right upper quadrant. Check for Murphy's sign (pain upon palpation of the gallbladder).</li> <li>Percussion: Percuss the abdomen to identify areas of tenderness or fullness.</li> <li>Auscultation: Listen for bowel sounds and any abnormalities.</li> </ul> </li> </ol>
NLHP 43.2	MRCP & ERCP Demonstration	Steps:         MRCP (Magnetic Resonance Cholangiopancreatography)         1. Patient Preparation:         • History and Consent: Explain the procedure to the patient, obtain informed consent.
		<ul> <li>and document relevant medical history.</li> <li>Fasting: Ensure the patient fasts for 4-6 hours before the procedure.</li> <li>Positioning: Position the patient supine on the MRI table.</li> <li>2. Procedure – By Radiologist</li> </ul>
		ERCP (Endoscopic Retrograde Cholangiopancreatography)

		<ol> <li>Patient Preparation:         <ul> <li>History and Consent: Explain the procedure to the patient, obtain informed consent, and document relevant medical history.</li> <li>Fasting: Ensure the patient fasts for 6-8 hours before the procedure.</li> <li>Sedation: Administer appropriate sedation and monitor the patient's vital signs.</li> </ul> </li> <li>Procedure – By Expert</li> </ol>
		Videographic Demonstration Educational Content: Prepare scripts and visual aids to explain the indications, steps, and potential complications of MRCP and ERCP. Hands-on Training with Simulators
		<ol> <li>Simulator Setup: Ensure the simulator accurately represents the anatomy and pathology of the biliary and pancreatic systems.</li> <li>Practice Sessions: Allow participants to practice MRCP and ERCP techniques on the simulator.</li> <li>Feedback and Debriefing: Provide constructive feedback and conduct a debriefing session to discuss findings and areas for improvement.</li> </ol>
NLHP 43.3	Case taking and examination of cholecystitis on the patients.	Steps: Group Discussion
		<ol> <li>Topic Introduction: Start with a brief overview of cholecystitis, its causes, and clinical presentation.</li> <li>Case Presentation: Present a typical case scenario of a patient with cholecystitis. Include details such as patient demographics, symptoms, and medical history.</li> <li>Discussion Questions:         <ul> <li>What are the common symptoms of cholecystitis?</li> <li>What differential diagnoses should be considered?</li> <li>What are the key elements in the patient's history that suggest cholecystitis?</li> </ul> </li> </ol>

4. Interactive Discussion: Encourage participants to share their thoughts and experiences. Facilitate a guided discussion to explore various aspects of diagnosis and management.

## Role Play

- 1. Scenario Setup: Create role play scenarios where participants take turns playing the roles of the patient, doctor, and observer.
- 2. Patient Role: The "patient" presents with symptoms suggestive of cholecystitis (e.g., right upper quadrant pain, nausea, fever).
- 3. Doctor Role: The "doctor" conducts a thorough history taking and physical examination, focusing on signs and symptoms of cholecystitis.
- 4. Observer Role: The "observer" provides feedback on the interaction, focusing on communication skills, examination techniques, and clinical reasoning.
- 5. Debriefing: Conduct a debriefing session to discuss the role play experience, highlighting strengths and areas for improvement.

## Case Taking and Examination

1. Patient History:

- Gather a detailed history of the present illness, including the onset, duration, and nature of pain.
- Ask about associated symptoms such as nausea, vomiting, fever, and changes in bowel habits.
- Document past medical history, including any previous episodes of similar pain, surgeries, and family history of gallbladder disease.

2. Physical Examination:

- Inspection: Observe the abdomen for any visible signs such as distension or jaundice.
- Palpation: Perform gentle and then deeper palpation of the abdomen, focusing on the right upper quadrant. Check for Murphy's sign (pain upon palpation of the

		<ul><li>gallbladder).</li><li>Percussion: Percuss the abdomen to identify areas of tenderness or fullness.</li><li>Auscultation: Listen for bowel sounds and any abnormalities.</li></ul>
NLHP 43.4	Case presentation of Carcinoma of Gall Bladder	Steps: Group Discussion
		<ol> <li>Topic Introduction: Start with an overview of gallbladder cancer, its epidemiology, risk factors, and clinical presentation.</li> <li>Case Scenario: Present a typical case of a patient with suspected gallbladder cancer, including history, symptoms, and initial findings.</li> <li>Discussion Questions:         <ul> <li>What are the common symptoms and risk factors for gallbladder cancer?</li> <li>What diagnostic tests are essential for confirming the diagnosis?</li> <li>What are the treatment options and their indications?</li> </ul> </li> <li>Interactive Discussion: Encourage participants to share their experiences, insights, and questions. Facilitate a guided discussion on the diagnosis and management of gallbladder cancer.</li> <li>Case Presentation</li> </ol>
		<ol> <li>Case Preparation: Select a real or simulated case of gallbladder cancer with comprehensive details.</li> <li>Presentation Components: Include patient history, clinical findings, diagnostic workup, treatment plan, and follow-up.</li> <li>Analysis and Discussion: After presenting the case, engage the participants in analyzing the case, discussing differential diagnoses, and evaluating the management plan.</li> <li>Video Demonstration</li> </ol>

	<ol> <li>Video Commentary: Provide a detailed commentary on each video, explaining the procedure, its indications, and potential complications.</li> <li>Interactive Viewing: Encourage participants to ask questions and discuss the videos in real time.</li> </ol>			
	Role Play			
	<ol> <li>Scenario Setup: Create role-play scenarios where participants take turns playing the roles of the patient, doctor, and family member.</li> <li>Patient Role: The "patient" presents with symptoms suggestive of gallbladder cancer.</li> <li>Doctor Role: The "doctor" conducts a thorough history-taking and physical examination, explains the diagnosis and treatment options, and addresses the patient's and family's concerns.</li> <li>Observer Role: The "observer" provides feedback on the interaction, focusing on communication skills, empathy, and clinical reasoning.</li> <li>Debriefing: Conduct a debriefing session to discuss the role-play experience, highlighting strengths and areas for improvement.</li> </ol>			
Topic 44 Agnyashaya Vikara (Diseases of Pancreas) (LH :3 NLHT: 1 NLHP: 6)				

A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3
CO1, CO4	Explain the classification and types of congenital anomalies of the Pancreas with their clinical presentation, diagnosis, management options and surgical interventions, complications, and Post- operative care	CC	МК	К	TUT,C D,PT,L &PPT ,CBL	PRN,PP-Pr actical,P-P RF,P-CAS E,T-CS	F&S	III	V-RS,V -KS,V- RS	NLHT44.1
CO1, CO5, CO6	Enumerate Aetiopathogenesis, Classification, Clinical Features, Investigations, Diagnosis & Management of Acute Pancreatitis, Chronic & Chronic relapsing pancreatitis & its Management.	СК	МК	К	L,L&PP T	Log book,C L-PR, C-V C,T-CS,P- VIVA	F&S	III	-	LH
C01,	Describe Cysts of Pancreas & Pseudocyst of Pancreas & its	CC	NK	K	L,L_VC	T-CS,P-EX	F&S	III	-	LH

CO2, CO4	Manage	ement.					,L&PPT	AM,PP-Pra ctical,P- VIVA,PRN				
CO1, CO3, CO5	Explain Zolling	xplain Cancer of the Pancreas & its Management, Insulinoma & collinger Ellison Syndrome.		CC	NK	K	L_VC,L ,L&PPT	VV-Viva,P- EXAM,PP- Practical,T- CS,P-VIVA	F&S	III	-	LH
CO1, CO2, CO4	Demonstrate skills in diagnosing and managing Pancreatitis, along with the clinical presentation, diagnostic techniques, and tre atment options.		s, and tre	PSY- GUD	DK	K	L&PPT ,PBL,P ER,L,R P	PM,INT,V V-Viva,OS CE,PP- Practical	F&S	III	-	NLHP44.1
CO1, CO2, CO4	Demonstrate skills to identify, diagnose, and manage Pseudo- Pancreatic Cysts.		lo-	PSY- GUD	NK	K	DIS,PB L,L&PP T ,D,PT	P-VIVA,P- EXAM,INT ,PRN,DEB	F&S	III	-	NLHP44.2
CO1, CO2, CO4, CO5	<ul> <li>CO1, Demonstrate skills in diagnosing and managing Pancreatic</li> <li>CO2, Neoplasms with its surgical techniques and treatment options.</li> <li>CO4,</li> <li>CO5</li> </ul>		СК	NK	K	D-BED, L&GD, PT,L&P PT ,TBL	T-CS,P-EX AM,PP-Pra ctical,VV- Viva	F&S	Ш	-	NLHP44.3	
Non Le	ecture H	Iour Theory						•				
S.No		Name of Activity	Descr	ription of	Theory A	Activity						
NLHT 4	44.1	Surgical Anatomy & physiology, Congenital Anomalies of Pancreas	Activities:1. Lecture: gross anatomy and microscopic anatomy.2. Dissection demonstration: pancreatic dissection.3. Histology lab: examination of pancreatic tissue.4. Case study presentation: students present pancreatic surgery cases.5. Interactive session: 3D visualization of pancreatic anatomy.									

		<ul> <li>6. Lecture: classification and types of congenital anomalies.</li> <li>7. Case study presentation: students present congenital anomaly cases.</li> <li>8. Radiology session: interpretation of imaging studies (e.g., CT, MRI).</li> <li>9. Surgical demonstration: observation of surgical correction.</li> <li>10. Group discussion: management and post-operative care.</li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 44.1	Case taking of Pancreatitis with effective communication skills	Steps: Group Discussion
		<ol> <li>Topic Introduction: Start with an overview of pancreatitis, its types (acute and chronic), causes, and clinical presentation.</li> <li>Case Scenario: Present a typical case of a patient with pancreatitis, including history, symptoms, and initial findings.</li> <li>Discussion Questions:         <ul> <li>What are the common symptoms and risk factors for pancreatitis?</li> <li>What diagnostic tests are essential for confirming the diagnosis?</li> <li>What are the treatment options and their indications?</li> </ul> </li> <li>Interactive Discussion: Encourage participants to share their experiences, insights, and questions. Facilitate a guided discussion on the diagnosis and management of pancreatitis.</li> <li>Case Presentation</li> <li>Case Preparation: Select a real or simulated case of pancreatitis with comprehensive details.</li> </ol>

		<ul><li>treatment plan, and follow-up.</li><li>3. Analysis and Discussion: After presenting the case, engage the participants in analyzing the case, discussing differential diagnoses, and evaluating the management plan.</li></ul>
		Video Demonstration
		<ol> <li>Video Commentary: Provide a detailed commentary on each video, explaining the procedure, its indications, and potential complications.</li> <li>Interactive Viewing: Encourage participants to ask questions and discuss the videos in real time.</li> </ol>
		Role Play
		<ol> <li>Scenario Setup: Create role-play scenarios where participants take turns playing the roles of the patient, doctor, and family member.</li> <li>Debriefing: Conduct a debriefing session to discuss the role-play experience, highlighting strengths and areas for improvement.</li> </ol>
NLHP 44.2	Demonstration of Pseudo Pancreatic cyst on patient or simulator.	Steps: Patient History and Assessment
		<ol> <li>Gather History: Ask about symptoms such as abdominal pain, nausea, vomiting, and a history of pancreatitis. Document the duration and progression of symptoms.</li> <li>Physical Examination: Observe for signs of abdominal distension, tenderness, and palpable masses. Perform a thorough examination to assess for complications.</li> </ol>
		Diagnostic Tests

		<ol> <li>Imaging Studies: Perform ultrasound, CT scan, or MRI to visualize the pseudo-pancreatic cyst and assess its size, location, and relation to surrounding structures.</li> <li>Laboratory Tests: Order relevant tests such as Serum Amylase, S.lipase, and liver function tests to assess the underlying condition.</li> </ol>
		Video Demonstration Educational Content: Provide a detailed commentary on each video, explaining the indications, steps, and potential complications. Role Play
		<ol> <li>Scenario Setup: Create role-play scenarios where participants take turns playing the roles of the patient, doctor, and family member.</li> <li>Debriefing: Conduct a debriefing session to discuss the role-play experience, highlighting strengths and areas for improvement.</li> </ol>
NLHP 44.3	Case presentation of Neoplasm of Pancreas and its management.	Steps: Group Discussion
		<ol> <li>Topic Introduction: Begin with an overview of pancreatic neoplasms, including types (e.g., adenocarcinoma, neuroendocrine tumors), risk factors, and clinical presentation.</li> <li>Case Scenario: Present a typical case of a patient with a pancreatic neoplasm, including history, symptoms, and initial findings.</li> <li>Discussion Questions:         <ul> <li>What are the common symptoms and risk factors for pancreatic neoplasms?</li> <li>What diagnostic tests are essential for confirming the diagnosis?</li> <li>What are the treatment options and their indications?</li> </ul> </li> <li>Interactive Discussion: Encourage participants to share their experiences, insights, and questions. Facilitate a guided discussion on the diagnosis and management of pancreatic neoplasms.</li> </ol>

		Case I	Presentatio	n							
		<ol> <li>Case Preparation: Select a real or simulated case of a pancreatic neoplasm with comprehedetails.</li> <li>Presentation Components: Include patient history, clinical findings, diagnostic workup, treatment plan, and follow-up.</li> <li>Analysis and Discussion: After presenting the case, engage the participants in analyzing case, discussing differential diagnoses, and evaluating the management plan.</li> </ol>								mprehensive rkup, lyzing the	
		Video Demonstration									
		<ol> <li>Video Commentary: Provide a detailed commentary on each video, explaining the procedure, its indications, and potential complications.</li> <li>Interactive Viewing: Encourage participants to ask questions and discuss the videos in real time.</li> </ol>							procedure, os in real		
		<ol> <li>1. Scenario Setup: Create role- play scenarios where participants take turns playing the roles of the patient, doctor, and family member.</li> <li>2. Debriefing: Conduct a debriefing session to discuss the role-play experience, highlighting strengths and areas for improvement.</li> </ol>							he roles of lighting		
Topic 4	45 Pleeha Vikara (Diseases of Spleen) (LH :3 NLHT	LH :3 NLHT: 0 NLHP: 2)									
A3	B3		C3	D3	<b>E3</b>	<b>F3</b>	G3	H3	<b>I</b> 3	K3	L3
CO1, CO2,	Define Aetiopathogenesis, Classification, Investigations, Cl Features and Management of Spleen Rupture.	inical	СК	NK	K	L,L&PP T	DEB,PP-Pr actical,P-	F&S	III	-	LH

CO3, CO6								VIVA, C- VC,T-CS				
CO1, CO2, CO6	<ul> <li>CO1, Enumerate the Indications, Complications of Hypersplenism &amp;</li> <li>CO2, Benefits of Spleenectomy.</li> </ul>		nism &	СК	NK	K	L&PPT ,L	P-VIVA,P- EXAM,PP- Practical,P RN,Log book	F&S	III	-	LH
CO1, CO2, CO5	Describe Manage	e Congenital Anomalies, Clinical Features, and ment of Splenomegaly (Pleeha Vridhi).		СК	DK	K	L&PPT ,L	VV-Viva,P- EXAM,PP- Practical,IN T,Log book	F&S	III	-	LH
CO1, CO2, CO4, CO6Discuss the clinical presentation, and implications of Splenic rupture and Splenomegaly, with their diagnostic approach, and Management strategies.		enic h, and	CC	NK	К	PT,PER ,DIS,L &GD,C D	C-VC,QZ , P-EXAM,V V- Viva,PRN	F&S	ш	-	NLHP45.1	
Non L	ecture H	our Theory		-							-	
S.No		Name of Activity	Desc	ription of	Theory A	ctivity						
Non Lo	ecture H	our Practical										
S.No		Name of Practical	Desc	ription of	Practical	Activity						
NLHP 4	NLHP 45.1 Case presentation of the Splenic Rupture & St Splenomegaly on the patients or simulator. In Bu St		Steps Class Introd Briefl State	Discussion luction: y introduct the objecti	n/Case Pres e splenic ru ves of the o	sentation opture and liscussion	splenomeg /presentatio	galy. on.				

	Case Descriptions: Splenic Rupture: Present a case of a patient with acute abdominal pain, history of trauma, and signs of shock. Splenomegaly: Describe a patient with gradual onset of abdominal discomfort, early satiety, and a palpable mass in the left upper quadrant. Diagnostic Approach: Discuss the diagnostic steps for each condition, including history, physical examination, lab tests, and imaging studies. Highlight the differences in diagnostic approaches for splenic rupture and splenomegaly. Management Strategies: Splenic Rupture: Emphasize the importance of immediate stabilization, fluid resuscitation, and possible surgical intervention (e.g., splenectomy). Splenomegaly: Focus on identifying and treating the underlying cause (e.g., infection, hematologic disorder) and managing symptoms. Q&A Session: Encourage questions and discussions from the audience. Clarify any doubts and provide additional insights. Video Demonstration/Role Play Preparation: Prepare scripts or scenarios for each condition. Assign roles to participants (e.g., patient, doctor, nurse).
	Splenomegaly: Focus on identifying and treating the underlying cause (e.g., infection, hematologic
	disorder) and managing symptoms.
	Q&A Session:
	Encourage questions and discussions from the audience.
	Clarify any doubts and provide additional insights.
	Video Demonstration/Role Play
	Preparation:
	Prepare scripts or scenarios for each condition.
	Assign roles to participants (e.g., patient, doctor, nurse).
	Demonstration:
	Splenic Rupture: Show an emergency room scenario with diagnosis and initial treatment of a patient
	with acute abdominal pain and shock.
	Splenomegaly: Demonstrate a patient consultation, discussing symptoms, examination findings, and
	management plans with the doctor.
	Debriefing:
	Discuss the key points from each demonstration.
	Highlight the learning objectives and take-home messages.

Topic 4	Горіс 46 Vrikka Evam Mutravahini Vikara (Diseases of Kidney and Ureters) (LH :5 NLHT: 4 NLHP: 2)											
A3	B3	C3	D3	E3	F3	G3	Н3	<b>I</b> 3	K3	L3		
CO1, CO2	Describe the Surgical Anatomy and physiology of the Urogenital System and enumerate Aetiopathogenesis, Classification, Clinical Features, Diagnosis, Complications, and Management of Congenital anomalies of Kidney & Ureter, Horse Shoe kidney & Polycystic kidney.	СК	DK	K	SIM,D- M	P-VIVA,SP ,P-MOD	F&S	III	V-RS,V- RS	NLHT46.1		
CO1, CO3, CO5	Illustrate the Aetiopathogenesis, Causes, Characteristics, Clinical signs and symptoms, and Development of Congenital Kidney and Ureter anomalies and Polycystic Kidney Disease with their management and Complications.	CAN	МК	К	BL,CBL ,TUT,D IS,SDL	M-CHT,V V-Viva,T- CS, C- VC,CL-PR	F&S	III	-	NLHT46.2		
CO1, CO3, CO5	Elaborate on the Causes and Mechanisms of Kidney and Ureter injuries with their Clinical Features, Diagnostic Techniques, Management Plan s, and Complications.	CC	МК	К	PER,TU T,D,PS M,RP	CL-PR,P-V IVA,P- PS,SP, C- VC	F&S	III	-	NLHT46.3		
CO1, CO3, CO5	Define the Aetiopathogenesis, Classification, Clinical Features & Management of Hydronephrosis.	СК	MK	K	PL,LRI, L,L&PP T	P-VIVA,PR N,CL-PR,P- EXAM,QZ	F&S	III	-	LH		
CO1, CO3, CO5	Define the Aetiopathogenesis, Classification, Clinical Features & Management of Non-Specific Infection of the Kidneys- Acute & Chronic Pyelonephritis.	СК	МК	K	L,L&G D,L_VC ,L&PPT	PRN,DEB, VV-Viva, C- VC,M-CHT	F&S	III	-	LH		
CO1, CO3, CO5	Describe the Perinephric Abscess & Renal Abscess.	CC	МК	K	L_VC,L &PPT , L,L&G D,CD	PRN,VV-V iva,P-VIVA ,T-CS,PP- Practical	F&S	III	-	LH		

CO1, CO3, CO5	Define Aetiopathogenesis, Types, Clinical Features, Investigations, Complications & Management of Vrikkash (Renal Calculus).	mari	СК	МК	K	L&PPT ,L,L_V C,L&G D	P-VIVA,S A,PRN,PP- Practical,V V-Viva	F&S	III	-	LH
CO1, CO3, CO5	Elaborate Pathophysiology, Causes, and Development of U Calculus and its Clinical Features, Diagnostic tools and Imaging studies, Management Plans, and Complications.	Jreteral	CC	МК	K	SIM,CB L,PER, TUT,BL	PRN,CL-P R,P-VIVA, P-CASE,P- EXAM	F&S	III	-	NLHT46.4
CO1, CO3, CO5	Define Aetiopathogenesis, Classification, Clinical Features Management of Tumours of the Kidney.	s &	CC	МК	K	L,L_VC ,PER,L &PPT ,L&GD	PRN,P-VIV A,P-EXAM ,T-CS	F&S	III	-	LH
CO1, CO3, CO5	CO1, CO3, CO5Discuss the Pathophysiology and Clinical Presentation, Diagnostic approach and Management Strategies of CKD, Perinephric Abscess, and Renal Calculus.		PSY- GUD	МК	K	PSM,PL ,TUT,R LE,CBL	VV- Viva,PRN, C-VC,P-VI VA,P- EXAM	F&S	Ш	-	NLHP46.1
Non Le	ecture Hour Theory					•					
S.No	Name of Activity	Desci	ription of	Theory A	ctivity						
NLHT 4	46.1										
NLHT 4	46.2 Congenital anomalies of Kidney, Ureter & Polycystic Kidney discussion.	Case anoma Diagn MRI t	Study Ana alies and p nostic Tecl to identify	alysis: Rev olycystic k miques W these anom	iew and d idney dise orkshop: nalies.	iscuss case ease. Practice us	studies of pati	ents with o	congeni ultraso	tal kidney	and ureter CT, and

		<ul> <li>Symptom Simulation: Use simulations to understand and identify the clinical presentations of these conditions</li> <li>Classification Exercises: Engage in exercises to classify different congenital anomalies of the kidney and ureter.</li> <li>Complication Scenario Management: Work through scenarios where students must manage complications arising from these conditions.</li> <li>Treatment Plan Development: Create comprehensive management and treatment plans for hypothetical patients.</li> <li>Group Discussions: Facilitate discussions on the aetiopathogenesis and clinical features of these conditions.</li> </ul>
NLHT 46.3	Demonstration of Injuries to the Kidneys And Ureters.	<ul> <li>Case Study Review: Analyze and discuss case studies involving kidney and ureter injuries.</li> <li>Imaging Analysis: Review and interpret imaging studies of kidney and ureter injuries.</li> <li>Role-Playing: Simulate patient interviews and history taking to practice identifying possible causes and symptoms of injuries.</li> <li>Management Scenarios: Engage in scenarios to develop and implement management plans for patients with kidney and ureter injuries.</li> <li>Complication Management: Discuss and simulate the management of complications arising from these injuries.</li> <li>Group Discussions: Facilitate discussions on the mechanisms, diagnosis, and management of kidney and ureter injuries.</li> </ul>
NLHT 46.4	Ureteral Stone examination.	<ul> <li>Case Study Analysis: Review and discuss case studies of patients diagnosed with ureteral stones.</li> <li>Imaging Interpretation: Analyze and interpret imaging studies to locate and assess ureteral stones.</li> <li>Symptom Simulation: Use simulations to understand and identify the clinical presentation and symptoms of ureteral stones.</li> <li>Treatment Plan Exercises: Develop and present comprehensive management and treatment plans for patients with ureteral stones.</li> <li>Surgical Simulation: Participate in surgical simulations of procedures such as ureteroscopy and</li> </ul>

		<ul> <li>lithotripsy.</li> <li>Complication Management: Engage in scenarios to identify and manage complications arising from ureteral stones and their treatment.</li> <li>Group Discussions: Facilitate discussions on best practices and guidelines for the management of ureteral stones.</li> </ul>							
Non Lecture	Hour Practical								
S.No	Name of Practical	Description of Practical Activity							
NLHP 46.1	Case presentation on CKD, Perinephric Abscess & Renal Calculus on patients, or simulator.	Steps         Class Discussion/Case Presentation         Introduction:         Briefly introduce CKD, perinephric abscess, and renal calculus.         State the objectives of the discussion/presentation.         Case Descriptions:         CKD: Present a case of a patient with gradual decline in kidney function, discussing symptoms such as fatigue, edema, and changes in urine output.         Perinephric Abscess: Describe a patient with fever, flank pain, and a history of urinary tract infection.         Renal Calculus: Explain a case of a patient with severe flank pain, hematuria, and a history of kidney stones.         Diagnostic Approach:         Discuss the diagnostic steps for each condition, including history, physical examination, lab tests, and imaging studies.         Highlight the differences in diagnostic approaches for each condition.         Management Strategies:         CKD: Focus on managing underlying causes, controlling blood pressure, and dietary modifications.         Perinephric Abscess: Emphasize the importance of antibiotics, drainage, and monitoring for complications.         Renal Calculus: Discuss pain management, hydration, and the use of medications or procedures like ESWL or PCNL.							

	Q&A Enco Clar Vide Prep Prep Assi Dem CKI Perin Rena and Deb Disc High	<ul> <li>Encourage questions and discussions from the audience.</li> <li>Clarify any doubts and provide additional insights.</li> <li>Video Demonstration/Role Play</li> <li>Preparation:</li> <li>Prepare scripts or scenarios for each condition.</li> <li>Assign roles to participants (e.g., patient, doctor, nurse).</li> <li>Demonstration:</li> <li>CKD: Show a patient consultation, discussing symptoms and management plans with the d</li> <li>Perinephric Abscess: Act out an emergency room scenario with diagnosis and initial treatm</li> <li>Renal Calculus: Demonstrate a patient's experience with acute pain and the steps taken for and treatment.</li> <li>Debriefing:</li> <li>Discuss the key points from each demonstration.</li> <li>Highlight the learning objectives and take-home messages.</li> </ul>								doctor. nent. diagnosis
Topic	47 Mutrashaya Vikara (Diseases of Urinary bladder) (LH	:3 NLHT:	2 NLHP	: 4)						
A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO5	Analyze the anatomy, physiology, and histology of the urinary bladder while evaluating congenital anomalies, diagnostic methods, and management strategies.	CAN	МК	K	L&GD, LRI,TU T,PER, CBL	VV-Viva,M- POS,QZ ,M- CHT, C-VC	F&S	III	V-RS,V -KS,V- RS	NLHT47.1
CO1, CO3, CO5	Define the Aetiopathogenesis, Classification, Clinical Features & Management of Cystitis.	СК	МК	K	L&PPT ,L	C-VC,PP-P ractical,PM, QZ ,P- VIVA	F&S	III	_	LH
CO1,	Define the Aetiopathogenesis, Classification, Clinical Features &	СК	MK	K	L&PPT	T-CS,P-VI	F&S	III	-	LH

CO3, CO5	Manage	ment of Vesicular Calculus.					,L	VA,P-POS, VV-Viva				
CO1, CO3, CO5	Define A Diagnos Dysfund Bladder	Aetiopathogenesis, Classification, Clinical features, sis, Complications and Management of Urinary Blade ction (Neurogenic bladder) and Carcinoma of Urinary	der y	K	МК	K	L&PPT ,PL,PrB L,FC,P ER	T-CS,CL-P R,INT,PRN ,O-QZ	F&S	III	-	LH
CO1, CO2, CO3, CO4, CO5, CO6	Demons process ESWL.	strate the Indications and Contraindications, step-by-strate the Indications and Contraindications, step-by-stor Suprapubic catheterization, Cystoscopy, PCNL,&	step PS 2 GU	Y- ID	МК	КН	TUT,PL ,BL,CD, D-BED	DEB,INT,P -EXAM,C HK,Mini- CEX	F&S	III	-	NLHP47.1
CO1, CO3, CO5	Elabora Physica Haemat	te on the underlying Pathophysiology, Clinical Featu l Examination, Management, and Complications of uria and Anuria.	res, Co	C	МК	К	DIS,BL, L&GD, TUT,PE R	CL-PR,P-E XAM,P-VI VA,PRN, C- VC	F&S	III	-	NLHT47.2
CO1, CO3, CO5	Identify Examin	Aetiopathology, signs and symptoms, and ation of Urinary System Disorders.	CI	K	МК	K	PER,TU T,CD,D -BED,SI M	P-VIVA,P- EXAM,CH K,VV-Viva ,Mini-CEX	F&S	III	-	NLHP47.2
Non Le	ecture H	lour Theory										
S.No		Name of Activity	Descriptio	on of '	Theory A	ctivity						
NLHT 4	NLHT 47.1Surgical Anatomy of Bladder & Congenital Anomalies of Blader.Anatomy Dissection: Conduct detailed dissections to study the bladder's anatomical structure. Histology Lab: Analyze histological slides of bladder tissue. Surgical Simulation: Engage in simulations of common bladder surgeries, focusing on anatomical landmarks and variations. Clinical Case Discussions: Discuss clinical cases involving congenital anomalies of the bladder and						ture. natomical ladder and					

		their surgical management. <b>Group Discussions</b> : Facilitate group discussions on the anatomical and physiological implications of congenital anomalies.
NLHT 47.2	Demonstration of Haematuria, Anuria -An evaluation.	<ul> <li>Case Study Review: Analyze and discuss case studies of patients presenting with haematuria and anuria.</li> <li>Symptom Simulation: Use simulations to understand and identify the clinical presentation of haematuria and anuria.</li> <li>Management Plan Development: Develop management and treatment plans for hypothetical patients.</li> <li>Complication Scenario Exercises: Engage in scenarios where students must identify and manage complications arising from haematuria and anuria.</li> <li>Group Discussions: Facilitate discussions on differential diagnosis and appropriate diagnostic pathways.</li> </ul>
Non Lecture	Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 47.1	Suprapubic catheterization, Cystoscopy, PCNL,& ESWL on patients or simulators.	Steps         Suprapubic Catheterization         Preparation:         Wash hands and wear sterile gloves.         Explain the procedure and obtain consent.         Position the patient in the supine position.         Procedure:         Clean and drape the suprapubic area.         Administer local anesthesia.         Insert the needle above the pubic symphysis into the bladder.

Advance the catheter through the needle into the bl Secure the catheter and connect to a drainage bag. Completion: Ensure proper drainage and monitor for complications. Cystoscopy Preparation: Wash hands and wear sterile gloves. Explain the procedure and obtain consent. Position the patient in the lithotomy position. Procedure: Clean and drape the perineal area. Administer local anesthesia. Insert the cystoscope through the urethra into the bladder. Visualize the bladder and urethra, checking for any abnormalities. Perform any necessary interventions (e.g., biopsy). Completion: Remove the cystoscope and monitor the patient. Percutaneous Nephrolithotomy (PCNL) Preparation: Wash hands and wear sterile gloves. Explain the procedure and obtain consent. Position the patient in the prone position. Procedure: Clean and drape the back and flank area. Administer local or general anesthesia. Insert the needle into the kidney through the skin. Dilate the tract and insert a nephroscope. Fragment and remove kidney stones using appropriate instruments. Completion: Ensure all stones are removed and check for complications. Place a nephrostomy tube for drainage if necessary. Extracorporeal Shock Wave Lithotripsy (ESWL)

		<ul> <li>Preparation:</li> <li>Wash hands and wear sterile gloves.</li> <li>Explain the procedure and obtain consent.</li> <li>Position the patient on the lithotripter table.</li> <li>Procedure:</li> <li>Apply ultrasound gel to the treatment area.</li> <li>Use imaging (X-ray or ultrasound) to locate the kidney stones.</li> <li>Deliver shock waves to break the stones into smaller fragments.</li> <li>Completion:</li> <li>Monitor the patient for complications. Advise the patient on hydration and follow-up imaging.</li> </ul>
NLHP 47.2	Examination of Urinary System Disorders.	Steps         Preparation:         Wash hands and wear appropriate PPE.         Introduce yourself to the patient and explain the procedure.         Obtain consent from the patient.         History Taking:         Ask about urinary symptoms such as frequency, urgency, dysuria, hematuria, and nocturia.         Inquire about past medical history, including urinary tract infections, kidney stones, and any surgeries.         Discuss any medications the patient is taking that may affect the urinary system.         General Inspection:         Observe the patient for signs of discomfort or distress.         Check for any visible abdominal swelling or asymmetry.         Palpation:         Palpate the abdomen for tenderness, masses, or bladder distension.         Perform a focused examination of the kidney area (costovertebral angle tenderness).         Check for any lower abdominal tenderness or masses that may indicate bladder issues.         Percussion:         Percuss the bladder area to assess for distension.

		Check Auscu Listen Specia	for any d ltation: to the abo ll Tests:	ullness ove lominal are	er the blad ea for bow	der region. el sounds t	o rule out any	gastrointe	stinal in	volvement	
		Urine urine. Post-V incom	Dipstick 7 /oid Resid plete emp	Test: Test f lual (PVR) tying.	or the pres	sence of bloot the amoun	ood, protein, gl	lucose, and	d other a der afte	abnormalit r urination	ies in the to assess for
		Documentation:Record the patient's history, symptoms, and examination findings.Note any abnormalities detected during the examination.Recapitulation:Thorough Examination: A comprehensive examination of the urinary system is crand managing urinary disorders. Patient Communication: Clearly explain the findthe patient.								crucial for ndings and	diagnosing next steps to
Topic	48 Mutraghata and Mutrakrichra (LH :2 NLHT: 0 N	NLHP:	2)								
A3	B3		C3	D3	E3	<b>F3</b>	G3	Н3	I3	K3	L3
CO1, CO2, CO4	Explain the Causes, Diagnosis, Clinical Features & Manage of Mutrakrichra.	ement	CC	МК	K	L,L&PP T	PP-Practica l,VV-Viva, P-VIVA,T- CS	F&S	III	-	LH
CO1, CO3, CO4	Explain the Causes, Diagnosis, Clinical Features & Manage of Mutraghata.	ement	CC	MK	К	L&PPT ,L	VV-Viva,P- EXAM,P-V IVA,PRN,P	F&S	III	-	LH

PSY-

GUD

MK

Κ

D,CBL,

Demonstrate the Uttarabasti procedure step-by-step and its

therapeutic benefits, indications and contraindications, and post-

CO1,

CO2,

-

NLHP48.1

**P-Practical** 

QZ ,VV-Vi

BL,DIS, va,PP-Pract

F&S

III

CO4, CO5	procedu	re care				PER	ical,P-CAS E,P-EXAM				
Non Le	cture H	our Theory								-	
S.No		Name of Activity	Description of	Theory A	Activity						
Non Le	cture H	our Practical									
S.No		Name of Practical	Description of	Practical	Activity						
NLHP 4	.8.1	Demonstration of Uttarabasti procedure for Urethral Stricture / BPH with Indication, contraindication, and precautions.	Steps Preparation: Wash hands and Explain the proof Patient Position Position the pati Ensure proper d Catheter Insertion Lubricate the cat Advance the cat Medication Adr Administer the p Ensure the correct Completion: Remove the cath Dispose of the c Post-Procedure Monitor the pati Provide post-pro- Indications Urinary Problem	l wear appreciate appreciate appreciate to the sent in the laraping to non: theter and heter careforministration prescribed act dosage in the sent sent sent sent sent for any pocedure care appreciate appreciat	ropriate PPI ne patient of ithotomy p naintain a si gently inser fully to the h it liquid medi is delivered y and ensur h other used y signs of di re instruction y urinary tra	E. r simulati osition (ly terile field rt it into the bladder of cine (herl and mon e the pation l materials discomfort ons, inclue ct infection	on model and c ying on the bac d. he urethra (for t r uterus, depend bal decoction of itor the patient ent is comfortal s properly. , infection, or a ding hydration a ons, cystitis, an	obtain cons k with kne males) or v ling on the r medicate for any im ble. dverse read and rest. d urethral	sent. es flexe vaginal patien ed oil) th mediat ctions.	ed and fee canal (for t's gender. hrough the e reactions	t in stirrups). females). catheter. s.

	Prostate Enlargement: To reduce symptoms of benign prostatic hyperplasia (BPH).
	Infertility: In females, for conditions like blocked fallopian tubes and endometriosis.
	Menstrual Disorders: Such as dysmenorrhea and amenorrhea.
	Contraindications
	Infections: Active infections in the urinary or genital tract.
	Recent Surgery: Recent surgical procedures in the area.
	Allergies: Known allergies to the medications used in the procedure.
	Precautions
	Hygiene: Maintain strict hygiene to prevent infections.
	Patient Comfort: Ensure the patient is comfortable and informed throughout the procedure.
	Monitoring: Regularly monitor the patient for any adverse reactions or complications.

## Topic 49 Paurusha Granthi Vikara (Diseases of Prostate) (LH :3 NLHT: 1 NLHP: 4)

A3	B3	C3	D3	E3	F3	G3	H3	I3	K3	L3
CO1, CO4, CO5	Illustrate the Anatomical, Physiological Structure, and Histological Features of the prostate. Explain Master Imaging Techniques with common surgical procedures involving the prostate.	САР	МК	K	LRI,RP, D-BED, TUT,DI S	T-CS,PRN, VV-Viva, C- VC,CL-PR	F&S	Ш	-	NLHT49.1
CO1, CO3, CO5	Explain the Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications, and Management of Prostatitis and Prostatic Abscess.	CC	МК	K	L,L&PP T	T-CS,INT, C-VC,VV- Viva,PRN	F&S	III	-	LH
CO1, CO3, CO5	Define Aetiopathogenesis, Clinical Features & Management of Benign Prostate Hypertrophy.	СК	МК	K	LRI,L,L &PPT	PP-Practica l,CL-PR,PR N,T-CS,VV- Viva	F&S	III	-	LH
CO1, CO3,	Demonstrate the skills to identify the clinical features, to perform a systematic examination of BPH, Prostatitis, and Prostatic	PSY- GUD	MK	КН	CD,D- M,CBL,	PP-Practica l,CHK,Mini	F&S	III	-	NLHP49.1

CO5	Abscess. Differentiate between BPH, prostatitis, and prostational abscess.		c			PBL,PE R	-CEX,P-EX AM,OSCE				
CO1, CO3, CO4, CO5	Define the Aetiopathogenesis, C Diagnosis, Complications, and D Prostate.	es, CK f	DK	К	L,L&PP T	P-VIVA,P- EXAM,CL- PR,PP-Prac tical,PRN	F&S	III	-	LH	
CO1, CO2, CO3, CO5	<ul> <li>CO1, Demonstrate the procedural steps of TURP, the use of surgion</li> <li>CO2, instruments and techniques for TURP, and the importance of</li> <li>CO3, precision and care during the procedure.</li> </ul>			DK	КН	PBL,CD ,PER,C BL,TUT	P-EXAM,P -MOD,P-VI VA,PRN,C L-PR	F&S	III	-	NLHP49.2
Non L	Non Lecture Hour Theory										
S.No	S.No Name of Activity			Theory	Activity						
NLHT 49.1     Surgical anatomy and physiology of Prostate gland.     Anatom Histological Imaging the processing of the pr			Anatomy Disse Histology Slide Imaging Techn the prostate. Surgical Simul Clinical Case I Group Discuss functions of the	ction: Har s: Review iques: Pra ation: Eng Discussions ions: Facil prostate	ds-on diss and analyz ctice using age in sim s: Discuss itate group	ection and ze histologi g imaging to ulations of clinical cas discussion	examination of ical slides of p ools like ultras common pros ses involving p as on the anato	of the prost rostate tiss cound, MR tate surger prostate dis mical vari	ate to u ue. I, and C ies, suc orders a ations a	nderstand CT scans to h as prosta and their n nd physiol	its structure. o visualize atectomy. nanagement. logical
Non L	ecture Hour Practical										
S.No	Name of Practical		Description of Practical Activity								
NLHP 4	49.1 Demonstration of BPH Abscess on patients or	, Prostatitis, and Prostatic simulators.	Steps Preparation: Wash hands and wear appropriate PPE.								

		Introduce yourself to the patient or simulation model and explain the procedure. Obtain consent from the patient or explain the purpose of the demonstration. General Inspection: Ask the patient to stand and then lie down. Observe the abdomen and perineal area for any visible swelling, asymmetry, or discoloration. Palpation: BPH: Palpate the prostate through the rectum (digital rectal examination) to assess size, consistency, and tenderness. BPH typically presents as an enlarged, firm, and non-tender prostate. Prostatitis: Palpate the prostate to check for tenderness, warmth, and swelling. Prostatitis often presents with a tender, boggy, and warm prostate. Prostatic Abscess: Palpate the prostate to identify a fluctuating mass or abscess. Prostatic abscesses are usually tender, and warm, and may have fluctuance. Special Tests: Transillumination: Shine a light through the scrotum to differentiate between solid and fluid-filled masses (if applicable). Prehn's Sign: Elevate the scrotum to see if the pain is relieved (positive in epididymitis, negative in testicular torsion). Auscultation (Optional): Listen for bowel sounds if a hernia is suspected. Documentation: Record your findings, including the size, location, and characteristics of any abnormalities. Note any associated symptoms such as pain, fever, or urinary symptoms.
NLHP 49.2	Procedure of TURP on the patients or simulators.	Steps         Preparation:         Set up the simulation environment or patient setup.         Ensure all necessary equipment, including the resectoscope, irrigation system, and electrocautery unit, is ready and functioning.         Introduce the procedure to the audience, explaining the purpose and steps.

	Patient Positioning: Position the patient or simulation model appropriately, typically in the lithotomy position. Ensure proper draping to maintain a sterile field. Insertion of the Resectoscope: Lubricate the resectoscope and gently insert it into the urethra. Advance the resectoscope to the prostate, ensuring clear visualization of the prostate and urethra. Visualization and Resection: Use the resectoscope to visualize the prostate and identify the verumontanum and ureteral orifices. Carefully resect the prostate tissue using the wire loop, ensuring to avoid perforation of the prostate capsule. Use electrocautery to control bleeding during the resection. Irrigation and Removal: Continuously irrigate the surgical field with sterile fluid to clear away resected tissue and maintain visibility. Remove the resected tissue from the bladder through the urethra. Completion: Once the resection is complete, remove the resectoscope. Inspect the surgical field for any remaining tissue or complications. Place a catheter to ensure proper drainage and irrigation post-procedure. Post-Procedure Care: Monitor the patient for any immediate complications such as bleeding or infection. Explain post-operative care instructions to the patient or simulation audience. <b>Recapitulation:</b> Precision and Care: Emphasize the importance of precision and careful technique to avoid complications such as perforation and excessive bleeding. Continuous Learning: Encourage ongoing practice and learning to improve surgical skills and outcomes. Patient Safety: Highlight the critical role of patient safety and proper post-operative care in ensuring
	Continuous Learning: Encourage ongoing practice and learning to improve surgical skills and outcomes. Patient Safety: Highlight the critical role of patient safety and proper post-operative care in ensuring successful recovery.

Topic 50 Mutramarga Vikara (Diseases of Urethra) (LH :2 NLHT: 1 NLHP: 0)														
A3		B3		C3	D3	E3	F3	G3	H3	<b>I</b> 3	K3	L3		
CO1, CO3, CO5	<ul> <li>, Illustrate the Aetiopathology, Clinical Features, Diagnostic tools,</li> <li>, Management and Complications of Urethritis.</li> </ul>		CAN	МК	K	BL,DIS, CBL,PT ,ML	C-VC,P-VI VA,PRN,P- EXAM,PP- Practical	F&S	III	-	NLHT50.1			
CO1, CO3, CO5	<ul> <li>Define Congenital Anomalies of the Urethra and its</li> <li>Aetiopathogenesis &amp; Management.</li> </ul>		CK	МК	К	L&PPT ,L	QZ ,SA,VV -Viva,P- VIVA	F&S	III	-	LH			
CO1, CO3, CO5	, Define Clinical Features & Management of Injuries to Urethra and Urethral Stricture.			СК	МК	K	L,X-Ra y,L&PP T	P-VIVA,M- CHT,PRN, M-POS,VV- Viva	F&S	III	-	LH		
Non L	ecture H	Iour Theory												
S.No		Name of Activity	Desc	ription of	Theory A	Activity								
NLHT :	50.1	Case Presentation of Urethritis.	Sentation of Urethritis.       Case Study Analysis: Review and discuss case studies of patients with urethritis.         Complication Management Simulation: Engage in scenarios where students must manage complications arising from urethritis.         Treatment Plan Development: Create comprehensive treatment plans for hypothetical patients.         Group Discussions: Facilitate group discussions on the etiology and clinical features of urethritis.											
Non L	ecture H	Iour Practical												
S.No	S.No Name of Practical Descr				Description of Practical Activity									
Topic :	Structure     Description of Fractical Activity       Fopic 51 Medhra Vikara (Diseases of Penis) (LH :3 NLHT: 2 NLHP: 2)													

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3	Define Aetiopathogenesis, Classification, Clinical features, Diagnosis, Complications, and Management of Congenital anomalies of Penis, Niruddhaprakasha (Phimosis).	СК	МК	K	L,L&PP T	P-EXAM,P -VIVA,T-C S,PRN,VV- Viva	F&S	III	-	LH
CO1, CO2, CO4	Define Aetiopathogenesis, Classification, Clinical Features, Diagnosis, Complications, and Management of Parivartika (Paraphimosis), Avapatika (Abnormal retraction / Tear of the prepuce).	СК	МК	K	L,L&PP T	PRN,PP-Pr actical,P-E XAM,T- CS,QZ	F&S	III	-	LH
CO1, CO2, CO4	Define Aetiopathogenesis, Classification, Clinical Features, Diagnosis, Complications and Management of Hypospadias & Epispadias.	СК	МК	K	L&PPT ,BL,PE R,L,CD	P-VIVA,P- EXAM,CL- PR, C-VC, VV-Viva	F&S	III	-	LH
CO1, CO3, CO5	Explain Aetiopathogenesis and development of Ectopia Vesicae and Balanoposthitis and identify their Clinical Features, Diagnostic Techniques, Treatment Plans, and Complications.	CAN	МК	K	SIM,CB L,DIS,C D,BL	PRN,P-VIV A,P-CASE, P-EXAM,V V-Viva	F&S	III	-	NLHT51.1
CO1, CO3, CO4, CO5	Enumerate the Causes and Progression of Carcinoma of the Penis, Peyronie's Disease, and Granuloma Inguinale with its Management.	СК	DK	K	LRI,CB L,BL,P ER,TUT	P-VIVA,PR N,COM,V V-Viva	F&S	III	-	NLHT51.2
CO1, CO3, CO4, CO5	Demonstrate the skills to identify normal and abnormal findings in the Male External Genitalia and differentiate between various conditions affecting the genitalia.	PSY- GUD	МК	K	RP,DIS, CBL,C D,TUT	P-EXAM, Mini-CEX, P-VIVA,D EB,CL-PR	F&S	III	-	NLHP51.1
Non Le	ecture Hour Theory									

S.No	Name of Activity	Description of Theory Activity
NLHT 51.1	Examination of Ectopia Vesicae & Balanoposthitis.	<ul> <li>Case Study Analysis: Review and discuss case studies of patients with Ectopia Vesicae and Balanoprosthitis.</li> <li>Diagnostic Tools Workshop: Hands-on practice with diagnostic tools and techniques used in identifying these conditions.</li> <li>Role-Play: Simulate patient-doctor interactions to practice diagnosing and explaining conditions to patients.</li> <li>Group Discussions: Facilitate group discussions on the aetiopathogenesis and clinical features of these conditions.</li> </ul>
NLHT 51.2	Examination of Carcinoma of the Penis, Peyronie's Disease & Granuloma Inguinale.	<ul> <li>Case Study Analysis: Examine and discuss case studies involving each of these conditions.</li> <li>Role-Playing: Simulate patient consultations to practice explaining diagnoses and treatment options.</li> <li>Complication Scenarios: Engage in scenarios where students must address complications arising from these conditions.</li> <li>Treatment Plan Exercises: Develop and present treatment plans for hypothetical patients.</li> <li>Group Discussions: Facilitate discussions on the etiopathogenesis and clinical features of these conditions.</li> </ul>
Non Lecture	Hour Practical	

S.No	Name of Practical	Description of Practical Activity
NLHP 51.1	Examination of Male External Genitalia.	Steps
		Preparation:
		Wash hands with an antiseptic solution and wear Gloves.
		Introduce yourself to the patient explain the procedure and Obtain consent.
		Inspection:
		Ask the patient to undress and stand and then lie down.
		Inspect the pubic region, penis, scrotum, and perineum for any visible abnormalities such as swelling,

discoloration, lesions, or discharge.
Palpation:
Penis: Gently palpate the shaft of the penis, noting any nodules, plaques, or tenderness.
Foreskin: Retract the foreskin (if present) to inspect the glans and urethral meatus. Note any lesions,
discharge, or phimosis.
Testicles: Palpate each testicle between the thumb and fingers, checking for size, consistency, and
tenderness. Normal testicles should be smooth and firm.
Epididymis: Palpate the epididymis located at the back of each testicle. It should feel soft and non-
tender.
Spermatic Cord: Palpate the spermatic cord for any thickening or masses.
Special Tests:
Transillumination: If there is scrotal swelling and fluid-filled masses.
Auscultation (Optional):
If a hernia is suspected, listen for bowel sounds in the scrotal region.
Documentation:
Record your findings, including the size, location, and characteristics of any abnormalities.
Note any associated symptoms such as pain or discharge.

## Topic 52 Mushka Evum Vrishan Vikara (Diseases of Scrotum and Testis) (LH :2 NLHT: 0 NLHP: 4)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO5	Define Aetiopathogenesis, Classification, Clinical Features, Diagnosis, Complications, and Management of Epididymo- orchitis, Epididymal cyst, Varicocele, and Spermatocele.	СК	МК	К	L,L&PP T ,BL,L &GD	DEB,PP-Pr actical,P-E XAM,PRN, P-VIVA	F&S	III	-	LH
CO1, CO3, CO5	Define the Development of Testis & Aetiopathogenesis, Clinical Features, Investigations, Complications & Management of Undescended Testis, Ectopic Testes, and Torsion of the Testis.	СК	МК	K	L&PPT ,L,BL,S DL	P- VIVA,QZ , C-VC,PRN, P-EXAM	F&S	III	-	LH

CO1, Demon CO2, Swellin CO4		emonstrate the skills to identify various types of Scrotal wellings with their physical examination and Differentiation.		PSY- GUD	МК	КН	DIS,TU T,D,D- BED	OSCE,PRN ,VV-Viva, OSPE,P- EXAM	F&S	III	-	NLHP52.1
<ul> <li>CO1, Demonstrate the skills to identify different types</li> <li>CO2, the Inguinoscrotal region with their thorough exactly distinguish between various conditions. Different Hydrocele, Epididymal Cyst, Testicular Tumour swellings.</li> </ul>		strate the skills to identify different types of swelling inoscrotal region with their thorough examination to ish between various conditions. Differentiate betwee ele, Epididymal Cyst, Testicular Tumour, and other gs.	s in o en	PSY- GUD	МК	K	BL,DIS, PER,D, TUT	CHK,OSPE ,P-EXAM, DEB,OSCE	F&S	III	-	NLHP52.2
Non Lecture Hour Theory												
S.No		Name of Activity	Description of Theory Activity									
Non Lecture Hour Practical												
S.No		Name of Practical	Description of Practical Activity									
NLHP 52.1		Examination of Scrotal Swelling.	Steps         Preparation:         Wash hands with an antiseptic solution and wear Gloves.         Introduce yourself to the patient and explain the procedure.         Obtain consent from the patient.         General Inspection:         Ask the patient to undress and stand and then lie down.         Observe the scrotum for any visible swelling, asymmetry, or discoloration.         Palpation:         Hydrocele: Feel for a smooth, firm, fluid-filled swelling. It will transilluminate with a penlight.         Epididymal Cyst: Palpate for a small, painless, fluid-filled cyst located above or behind the testicle.         Varicocele: Feel for a "bag of worms" texture, especially prominent when the patient stands or performs the Valsalva maneuver.         Testicular Tumor: Palpate for a firm, irregular mass within the testicle that does not transilluminate.									

		Orchitis/Epididymitis: Feel for a swollen, tender testicle or epididymis, often accompanied by redness and warmth. Inguinal Hernia: Palpate the inguinal region for any lumps or protrusions that extend into the scrotum. Transillumination: Darken the room. Shine a penlight or small flashlight through the scrotal swelling. Fluid-filled swellings like hydroceles will transilluminate, creating a red glow. Auscultation (Optional): Listen for bowel sounds if a hernia is suspected. Special Tests: Prehn's Sign: Elevate the scrotum to see if the pain is relieved (positive in epididymitis, negative in testicular torsion). Documentation: Record your findings, including the size, location, and characteristics of the swelling. Note any associated symptoms such as pain or discomfort.
NLHP 52.2	Examination of Swelling in the Inguino scrotal region (Except Inguinal and Femoral Hernia).	Steps         Preparation:         Wash hands with antiseptic solution and wear Gloves.         Introduce yourself to the patient and explain the procedure and Obtain consent.         General Inspection:         Ask the patient to stand and then lie down.         Observe the inguino-scrotal region for any visible swelling, asymmetry, or discoloration.         Palpation:         Hydrocele: Feel for a smooth, firm, fluid-filled swelling confined to the scrotum. It will transilluminate with a penlight.         Epididymal Cyst: Palpate for a small, painless, fluid-filled cyst located above or behind the testicle.         Varicocele: Feel for a "bag of worms" texture, especially prominent when the patient stands or performs the Valsalva maneuver.         Testicular Tumor: Palpate for a firm, irregular mass within the testicle that does not transilluminate.         Orchitis/Epididymitis: Feel for a swollen, tender testicle or epididymis, often accompanied by redness
and Auss Liste Spec Tran filled Preh testi Doc Reco sym <b>Rec</b> Sym Folle	d warmth. uscultation (Optional): sten for bowel sounds if a hernia is suspected. becial Tests: ransillumination: Shine a light through the scrotal swelling to differentiate between solid and fluid- led masses. ehn's Sign: Elevate the scrotum to see if pain is relieved (positive in epididymitis, negative in sticular torsion). becomentation: ecord your findings, including the size, location, and characteristics of the swelling with associated mptoms such as pain or discomfort. ecopitulation: ccurate Diagnosis: Early and accurate diagnosis of scrotal swellings is essential for appropriate anagement and treatment. tient Education: Inform patients about the importance of seeking medical advice for worsening mptoms. blow-Up: Regular follow-up is crucial to monitor changes or complications.	
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# Topic 53 Vriddhi Roga (LH :1 NLHT: 0 NLHP: 2)

A3	B3	C3	D3	E3	F3	G3	Н3	I3	K3	L3
CO1, CO3, CO5	Define Aetiopathogenesis, Classification, Clinical Features, Diagnosis, Complications, and Management of Mutravriddhi (Hydrocele).	СК	МК	К	L,L&G D,L&PP T	PP-Practica l,PRN,SP,P -EXAM,V V-Viva	F&S	Ш	-	LH
CO1, CO2, CO4, CO5	Demonstrate the skills to identify the characteristics and symptoms of Hydrocele with a thorough physical examination to detect Hydrocele. Differentiate between Hydrocele and other Scrotal Swellings.	PSY- GUD	DK	КН	DIS,CB L,BL,T UT,PT	CHK,P-VI VA,PRN,M ini- CEX,OSPE	F&S	III	-	NLHP53.1

Non Lecture	e Hour Theory	
S.No	Name of Activity	Description of Theory Activity
Non Lecture	e Hour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 53.1	Examination of Hydrocele.	Steps         Preparation:         Wash hands with an antiseptic solution and wear Gloves.         Introduce yourself to the patient explain the procedure and obtain consent from the patient.         General Inspection:         Undress the patient and ask to stand up.         Observe the scrotum for asymmetry or discoloration.         Palpation:         Ask the patient to lie down.         Gently palpate the scrotum to identify the presence of fluid-filled.         Check if the swelling is confined to the scrotum or extends upward into the inguinal canal.         Darken the room and test for Transillumination. Shine a penlight or small flashlight through the scrotal swelling.         A hydrocele will transilluminate, meaning the light will pass through the fluid-filled swelling, creating a red glow.         Auscultation (Optional):         Listen for bowel sounds over the scrotum if you suspect an inguinal hernia or bowel involvement.         Documentation:         Record your findings- the size, location, and characteristics of the Hydrocele and associated symptoms such as pain or discomfort.
Topic 54 A	ntravriddhi (Hernia) (LH :4 NLHT: 2	2 NLHP: 4)

A3	B3	C3	D3	E3	<b>F3</b>	G3	H3	I3	K3	L3
CO1, CO4, CO5	Enumerate Surgical Anatomy of Inguinal Canal and Aetiopathology and Classification of Hernia.		МК	К	L&PPT ,BL,L	PRN,VV-V iva,CL-PR, P-EXAM,P P-Practical	F&S	III	-	LH
CO1, CO4, CO5	<ul> <li>Explain Aetiopathogenesis, Classification, Clinical Features,</li> <li>Diagnosis of Hernia (AntraVriddhi) (Inguinal Hernia -Direct &amp;</li> <li>Indirect, Enterocele, Omentocele).</li> </ul>		МК	К	PER,L& PPT ,L	P-VIVA,P- EXAM,T-C S,PRN,CL- PR	F&S	III	-	LH
CO1, CO4, CO5	Describe Complications and Management of Inguinal Hernia (Antravriddhi).	CC	МК	К	PER,L& PPT ,L &GD,L, D-BED	P-EXAM,P- VIVA, C-V C,T- CS,PRN	F&S	III	-	LH
CO1, CO2, CO3, CO5	Explain the Surgical Anatomy of the Femoral Canal & Aetiopathogenesis, Clinical Features, Investigations, Complications & Management of Femoral Hernia.	CAN	МК	К	PER,L_ VC,SIM ,L&GD, PT	P-VIVA,D EB,PRN,P- EXAM,T- CS	F&S	III	-	NLHT54.1
CO1, CO2, CO4, CO5	<ol> <li>Enumerate Aetiopathogenesis, Classification, Clinical Features,</li> <li>Examinations, Investigations &amp; Diagnosis, Complications, and</li> <li>Management of Epigastric Hernia, Umbilical Hernia, and</li> <li>Paraumbilical hernia.</li> </ol>		МК	К	CBL,SI M,PT,T UT,D	OSCE,P- VIVA, C-V C,INT,PRN	F&S	III	-	NLHT54.2
CO1, CO4, CO5	Define Aetiopathogenesis, Classification, Clinical Features, Examinations, Investigations & Diagnosis, Complications, and Management of Incisional Hernia.	СК	МК	К	L,L&PP T	CL-PR,PR N,P-EXAM ,P-VIVA	F&S	III	-	LH
CO1, CO2, CO4,	Identify the Anatomical Landmarks associated with Inguinal Hernias. Perform a detailed physical examination to detect Inguinal Hernias and Differentiate between Direct and Indirect	PSY- GUD	МК	КН	DIS,TU T,SIM,P T,D-	PRN,P-VIV A,CHK,Mi ni-CEX,P-	F&S	III	-	NLHP54.1

CO5	Inguina	Hernias.					BED	EXAM				
CO1, CO2, CO4, CO5	Identify the characteristics of Umbilical Hernia and Incisional Hernia and perform a systematic examination to detect Hernias. Differentiate between Umbilical Hernia and Incisional Hernia and Communicate findings effectively to the patients.			PSY- GUD	МК	KH	CBL,T UT,D-B ED,DIS, CD	Mini-CEX, P-EXAM,C HK,PRN,S P	F&S	III	-	NLHP54.2
Non L	Ion Lecture Hour Theory											
S.No		Name of Activity	Descr	iption of	Theory A	Activity						
NLHT	54.1	Examination of Femoral Hernia.		<ol> <li>Anatom anatomic identify</li> <li>Role-Pla "surgeor "patients</li> <li>Investig identify understa</li> <li>Surgical procedur surgeries</li> <li>Guest L femoral manager</li> <li>Group I strategie</li> </ol>	y Lab: Or cal models all relevan aying: Cor is" can exp ," enhanci ation Wor and unders nd their cl Simulation res involve s or hands- ectures: In hernias. The nent. Discussion s of femor	ganize a h to explore t structure aduct role- olain the co ng commu rkshops: U stand femo inical impl on: If avai ed in diagn on practic hvite expen- hey can dis s: Facilitat al hernias.	ands-on lal e the surgic s and unde playing ses ondition, di unication sh Use diagnos oral hernias ications. lable, use s osing and n e with man cienced sur scuss the la	o session using cal anatomy of rstand their spa- ssions where st agnostic proce cills and empat stic tools, such . Teach studen surgical simula managing femo- mequins. geons to share ttest technique scussions on the e students to sh	cadaver d the femora atial relation atial relation atial relation atial relation address act edures, and thy. as ultraso thy. as ultraso thy to their their insig s and chall the complice mare their t	lissection al canal onships. as surg l treatme und, CT interpre to let stu s. This ghts and enges in rations a houghts	eons or high Ensure st eons and p ent option Scans, an t these im- udents pra could incl experience n diagnosi and manag	-quality udents can patients. The s to their d MRIs, to ages and ctice the ude virtual res with s and ement tions, and

		debate different approaches.
NLHT 54.2	Examination of Epigastric Hernia, Umbilical Hernia, and Paraumbilical Hernia.	1. Anatomy Lab: Organize a hands-on lab session using cadaver dissections or high-quality anatomical models to explore the surgical anatomy of the femoral canal. Ensure students can identify all relevant structures and understand their spatial relationships.
		2. <b>Role-Playing</b> : Conduct role-playing sessions where students act as surgeons and patients. The "surgeons" can explain the condition, diagnostic procedures, and treatment options to their "patients," enhancing communication skills and empathy.
		3. <b>Investigation Workshops</b> : Use diagnostic tools, such as ultrasound, CT scans, and MRIs, to identify and understand femoral hernias. Teach students how to interpret these images and understand their clinical implications.
		4. <b>Surgical Simulation</b> : If available, use surgical simulation tools to let students practice the procedures involved in diagnosing and managing femoral hernias. This could include virtual surgeries or hands-on practice with mannequins.
		5. Guest Lectures: Invite experienced surgeons to share their insights and experiences with femoral hernias. They can discuss the latest techniques and challenges in diagnosis and management.
		6. <b>Group Discussions</b> : Facilitate group discussions on the complications and management strategies of femoral hernias. Encourage students to share their thoughts, ask questions, and debate different approaches.
Non Lecture H	lour Practical	
S.No	Name of Practical	Description of Practical Activity
NLHP 54.1	Examination of Inguinal Hernia.	Steps of Preparation:

		<ul> <li>Wash hands and wear Gloves. Introduce yourself to the patient and explain the procedure. Obtain consent from the patient.</li> <li>General Inspection:</li> <li>Undress the patient and Ask him to stand up.</li> <li>Observe the inguinal region for any visible bulges or asymmetry.</li> <li>Palpation:</li> <li>Ask the patient to lie down.</li> <li>Palpate the inguinal region, feeling for any lumps or protrusions.</li> <li>Using your index finger, gently invaginate the scrotal skin into the inguinal canal.</li> <li>Ask the patient to cough or perform a Valsalva maneuver and feel for any impulse against your finger.</li> <li>Differentiation:</li> <li>Indirect Inguinal Hernia: Often extends into the scrotum and is felt as a bulge along the inguinal canal.</li> <li>Direct Inguinal Hernia: Typically does not extend into the scrotum and is felt as a bulge medial to the inferior epigastric vessels.</li> <li>Auscultation (Optional):</li> <li>Listen for bowel sounds over the hernia site to rule out bowel obstruction.</li> <li>Documentation:</li> <li>Record your findings, including the size, location, and characteristics of the hernia and associated symptoms such as pain or discomfort.</li> </ul>
NLHP 54.2	Examination of Umbilical Hernia and Incisional Hernia.	Steps         Preparation:         Wash hands with an antiseptic solution.         Introduce yourself to the patient and explain the procedure.         Obtain consent from the patient.         General Inspection:         Observe the patient's general appearance.         Look for any visible bulges or asymmetry in the abdominal area.         Palpation:

	Ask the patient to lie down and relax. Gently palpate the abdomen, starting from the umbilicus and moving outward. For umbilical hernia, palpate around the umbilicus to feel for a protrusion. For incisional hernia, palpate along the previous surgical scar to check for any bulging. Auscultation: Use a stethoscope to listen for bowel sounds over the hernia site to rule out bowel obstruction. Special Tests: Ask the patient to cough or perform a Valsalva maneuver (bearing down) to see if the hernia becomes more prominent. For incisional hernia, check for tenderness or signs of infection around the scar.
	more prominent. For incisional hernia, check for tenderness or signs of infection around the scar. Documentation: Record your findings, including the size, location, and characteristics of the hernia and associated symptoms such as pain or discomfort.

# (\*Refer table 3 of similar activity number)

Activity No*	CO No	Activity details
1.1	CO1	History of surgery
3.1	CO1,CO7	Vranitagara
4.1	CO1,CO2,CO3,CO5	Preoperative assessment
4.2	CO1,CO2,CO4,CO5, CO7	Safe General Surgery
5.1	C01,C07	Informed consent in a simulated environment
9.1	CO1,CO2,CO7	Demonstration of Kshar & Kshara Sutra – Preparation, and Method of Application
9.2	CO1,CO2,CO4,CO7	Ksharsutra changing
12.1	C01,C02,C04,C05	Training of Bandaging on Simulators with relevant modern techniques
14.1	C01,C02,C03,C04	Electrolyte loss
15.1	CO1,CO2,CO4	Describe Rakta stambhana and methodsof Haemostasis.
15.2	CO1,CO2,CO4,CO6	Describe Blood Transfusion –Blood groups, Compatibility, Indications, Contraindications, Complications, Management. along with Component therapy
19.1	CO1,CO2,CO4	Vranashotha-Nirukti, Nidana, Samprapti, Prakara, Lakshana, Sadhya-asadhyata, Upadrava and Chikitsa
19.2	CO1,CO2,CO5,CO6	Explain etiopathogenesis, types, Clinical Features, Investigations, Differential Diagnosis, complications and management of Kotha (Gangrene)
19.3	C01,C02,C04	Definition, Classification, Clinical features, Complications of Tumour
20.1	CO1,CO2,CO4	Sadhyovrana -(Traumatic wounds) – Nidana, Prakara, Lakshana, Upadrava and Chikitsa.
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20.2	CO1,CO2,CO4	Surgical site infection.
22.1	CO1,CO2,CO4	Thyroid gland - anatomy & physiology
22.2	CO1,CO2,CO4	Toxic goiter, Thyroiditis
22.3	CO1,CO2,CO4	Neoplasm of Galaganda (thyroid) -Nidana, Samprapti, Lakshana and Chikitsa
23.1	CO1,CO2,CO4	Surgical Anatomy & Surgical Pathology
27.1	CO1,CO2,CO4	Fracture of scapula & clavicle
27.2	CO1,CO2,CO4	Clinical features, Diagnosis, Complications, and Management of Femur & Patella
27.3	CO1,CO2,CO4	Clinical features, Diagnosis, Complications, and Management of Tibia and Pelvic bones
27.4	CO1,CO2,CO4	Dislocation of joints
27.5	CO1,CO2,CO4	Management of Shoulder & Elbow Dislocation
28.1	CO1,CO2,CO4	Diagnosis, Treatment & Complications of Cysts, Tumours of bones
28.2	CO1,CO2,CO5	Osteoporosis and Paget's disease
29.1	C01,C03,C05	Brain tumours and their management
30.1	C01,C03,C05	Ankylosing Spondylitis
31.1	C01,C03,C05	Sthana Vidradhi - Breast abscess
31.2	C01,C03,C05	Fibroadenoma and Fibroadenosis
32.1	C01,C03,C05,C06	Examination of Pleurisy, Pleural Abscess, Pleural Effusion, Tumours of the Lung
33.1	C01,C03,C05,C06	Examination of Oesophageal Varices
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36.1	CO1,CO3,CO4	Examination of Ascites
36.2	C01,C03,C04,C05	Examination of Peritonitis
37.1	CO1,CO3,CO6	Examination of Pyloric Stenosis
38.1	CO1,CO3,CO4,CO7	Demonstration of Blind loop syndrome, Short Bowel Syndrome & Typhoid Enteritis
38.2	CO1,CO3,CO6	Examination of Intussusception
39.1	CO1,CO3	Diagnosis of Carcinoma of Colon
40.1	CO1,CO3,CO5	Surgical Anatomy & physiology of Ano Rectal Conditions
40.2	CO1,CO4	Examination of Anorectal Abscesses (Guda Vidradhi) and Bhagandara (Fistula- in-ano)
40.3	C01,C02,C03,C07	Examination of Fissure in Ano (Parikartika)
40.4	CO1,CO2,CO4	Examination of Pilonidal Sinus, Proctitis, Pruritis Ani & Injuries of Anorectal region
42.1	CO1,CO3,CO6	Examination of the case of Acute Liver Injury
43.1	CO1,CO4,CO5	Surgical anatomy of Gall Bladder, congenital anomalies of Gall Bladder & Basic Investigations
44.1	CO1,CO4	Surgical Anatomy & physiology, Congenital Anomalies of Pancreas
46.1	C01,C02	
46.2	C01,C03,C05	Congenital anomalies of Kidney, Ureter & Polycystic Kidney discussion.
46.3	CO1,CO3,CO5	Demonstration of Injuries to the Kidneys And Ureters.
46.4	C01,C03,C05	Ureteral Stone examination.
47.1	C01,C03,C05	Surgical Anatomy of Bladder & Congenital Anomalies of Blader.

47.2	CO1,CO3,CO5	Demonstration of Haematuria, Anuria - An evaluation.
49.1	CO1,CO4,CO5	Surgical anatomy and physiology of Prostate gland.
50.1	CO1,CO3,CO5	Case Presentation of Urethritis.
51.1	CO1,CO3,CO5	Examination of Ectopia Vesicae & Balanoposthitis.
51.2	CO1,CO3,CO4,CO5	Examination of Carcinoma of the Penis, Peyronie's Disease & Granuloma Inguinale.
54.1	CO1,CO2,CO3,CO5	Examination of Femoral Hernia.
54.2	C01,C02,C04,C05	Examination of Epigastric Hernia, Umbilical Hernia, and Paraumbilical Hernia.

(*Refer tabl	le 3 of sim	ilar activity	number)
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Practica l No*	CO No	Practical Activity details
1.1	C01,C03	Surgical case taking
1.2	CO1,CO3,CO4	Special signs and symptoms pertaining to surgery
2.1	CO1,CO2	Demonstration, Comparison & classification of instruments
3.1	CO1,CO2,CO3	Aseptic techniques, sterilization and disinfection of Surgical instruments, OT sterilization
3.2	CO1,CO2,CO4	Hand washing techniques, Donning of Gloves & Gown
4.1	CO1,CO2,CO4,CO6	Demonstration of BLS (Basic life support)
4.2	CO1,CO2,CO4,CO6	Maintenance of an airway / Endotracheal intubation in a mannequin
5.1	CO1,CO2,CO5,CO6	Common minor surgical procedures (Excision of Corn, Cysts, Lipoma, etc)
6.1	CO1,CO2,CO5,CO6	First aid
6.2	CO1,CO2,CO4	Demonstartion of Chhedan(Excision), Bhedan(Incision), Lekhan(scraping) on simulator
6.3	CO1,CO2,CO4	Demonstration of Vedhan & Visravan (Tapping Of abdomen, Hydrocele, ICD) on simulator
6.4	CO1,CO2,CO4	Demonstration of Aharana and Eshana (extraction and probing)on simulator
6.5	CO1,CO2,CO4	Demonstration of Seevan(Suturing & Knots) and minor surgical procedures in patient / simulated environment
7.1	CO1,CO2,CO4,CO6	Hands-on training -Drains
7.2	CO1,CO2,CO4,CO5, CO6	Catheterization -Hands-on training on Simulators
7.3	CO1,CO2,CO6	IV canulation, IM / IV / Subcutaneous / Intradermal Injection

7.4	CO1,CO2,CO4,CO6	Hands On Training- Ryle's tube Insertion
8.1	CO1,CO3,CO7	Marma identification and manipulation techniques in musculoskeletal disorders and Sports injuries
9.1	CO1,CO2,CO4,CO7	Application of Ksharodaka, Kshartaila, Ksharvarti, Ksharpichu in Dushtavrana
9.2	CO1,CO2,CO4,CO7	Demonstration and Hands-on training of Kshar karma in Anorectal disorders ( Arsha, Bhagandara, Nadivrana)
10.1	CO1,CO2,CO4,CO7	Hands-on experience with Agnikarma in the pain management of any one disease (Gridhrasi, Avabahuka, etc)
10.2	CO1,CO2,CO4,CO7	Demonstration of Agnikarma in the management of any one surgical disease (Arsha, Charmakeel, etc)
11.1	CO1,CO2,CO4,CO7	Siravedha in the management of any one surgical disease (Grudhrasi, Uttan Vatarakta, etc)
11.2	CO1,CO2,CO4,CO7	Alabu (cupping) procedure in the management of any one surgical disease (Kati Graham, Manya Graha, etc)
11.3	CO1,CO2,CO4,CO7	Jaloukavcharana (Leech Therapy) in the management of any one surgical disease (Vidradhi, Dushtavrana, Koth, etc)
12.1	CO1,CO2,CO4	Perform training of Bandaging on Simulators with relevant modern techniques
12.2	CO1,CO3,CO5	Demonstration of the Transportation of injured patients (Double Human Crutch, Fireman's Lift, Two-handed Seat, etc) & Recovery Position
13.1	CO1,CO3,CO5	Heimlich maneuver- Hands-on training (Choking)
14.1	CO1,CO3,CO6	Calculations & selections of fluids in various conditions like Dehydration, Shock& Burns
14.2	CO1,CO3,CO6	Acid Base Balance in various conditions like perforation, vomiting, etc
17.1	CO1,CO3,CO6	Demonstration of Chhaya vikiran (X-ray) of Chest, Abdomen, Urology. and Musculoskeletal organs
17.2	CO1,CO5,CO6	Hands on training of different types of Biopsy

17.3	C01,C03,C05,C06	Avayava pariksha (CT,MRI) of Chest, abdomen, Urology bones & joints
18.1	CO1,CO4,CO7	Surgical intervention according to Shatkriyakala - Special focus on Arsha, Bhagandara, and infective pathology ex.Appendicitis, Cholecystitis, etc.
19.1	CO1,CO2,CO4	Examination of Granthi (lump or Swelling)
19.2	C01,C02,C04,C06	Emergency management in different types of shock
19.3	CO1,CO3,CO6	Assessment, examination, and documentation of Pramada Dagda (Burn) case
20.1	CO1,CO2,CO4	Examination of an Ulcer
20.2	C01,C02,C04,C05	Examination of the peripheral nerve lesions
20.3	CO1,CO2,CO4	Demonstration of wound dressings
21.1	CO1,CO2,CO4	Examination of the Hand
22.1	CO1,CO2,CO4	Examination of Galaganda (thyroid gland)
22.2	CO1,CO2,CO4	Examination of the Gala (Neck)
22.3	CO1,CO2,CO4	Examination of a Lymphatic system
23.1	CO1,CO2,CO4	Examination of Varicose Vein
23.2	CO1,CO2,CO4	Examination and differential diagnosis of unilateral and bilateral lower limb edema
24.1	CO1,CO2,CO4	Examination of the Dhamani Vikara (peripheral vascular diseases)
25.1	CO1,CO2,CO3,CO4, CO5	Techniques of Amputation & Complications with examples of individual amputation
25.2	CO1,CO2,CO4	Examinations of Diseases of Snayu Vikara (Muscle, Ligaments, Tendon and Fascia)
26.1	CO1,CO3,CO4	Safety Precautions in the patient of HIV and hepatitis infected Hepatitis B and C Patients

27.1	CO1,CO2,CO4	Examination of the Bone and Joint injuries	
27.2	CO1,CO2,CO4	Examination of Injuries about Individual Joints	
27.3	CO1,CO2,CO4	Hands on training on traction (skin and skeletal)	
27.4	CO1,CO2,CO4	First aid management of fracture cases	
28.1	CO1,CO2,CO4	Demonstrate Examination of the diseases of bone	
28.2	C01,C03,C05	Examination of pathological joints	
28.3	C01,C03,C05	Examination of foot	
29.1	C01,C03,C05,C06	Examination of Head Injuries (Shirobhighaata)	
30.1	CO1,CO3,CO4	Hands-on training on 3 stages of neck fracture stabilization with logroll	
30.2	C01,C02,C04,C06	Examination of Spinal Injuries and Abnormalities	
31.1	C01,C03,C04,C05	Examination of the breast and patient education for 'self-examination of breast.	
32.1	C01,C03,C05,C06	Examination of injuries of the chest (Urah abhigatha)	
32.2	C01,C03,C05,C06	Examination of Diseases of the Chest	
33.1	CO1,CO3,CO5	Examination of Dysphagia	
35.1	C01,C03,C05,C06	Examination of Acute Abdomen	
37.1	CO1,CO2,CO4	Examination of Abdominal lump	
38.1	CO1,CO2,CO4	Per abdominal Clinical Examination.	
39.1	CO1,CO2,CO4	Examination of Chronic Abdomen	
40.1	C01,C02,C04,C05	Examination of a Sinus or Fistula and Hands-on training on Simulators	
40.2	C01,C02,C03	Examination of Rectal case and Hands-on training on Simulators	

41.1	C01,C03,C04,C06	Examination of Abdominal Injuries
42.1	CO1,CO2,CO4	Demonstration of Surgical anatomy of the liver, Acute Liver Injury in patients, or simulator.
42.2	CO1,CO2,CO4	Demonstration of Diagnosis & Management of Surgical Jaundice with ERCP on patients /simulator.
42.3	CO1,CO2,CO4	Examination of Hepatomegaly & PAIR in Liver Abscess and Hands-on Practice.
42.4	C01,C02,C04,C06	Demonstration of Paracentesis inpatient or simulator.
42.5	CO1,CO2,CO4	Surgical management of Portal Hypertension
43.1	CO1,CO2,CO4	MRCP & ERCP Demonstration
43.2	CO1,CO2,CO4,CO6	Cholecystitis and Choledocholithiasis Examination
43.3	CO1,CO2,CO4	Case taking and examination of cholecystitis on the patients.
43.4	CO1,CO2,CO4	Case presentation of Carcinoma of Gall Bladder
44.1	CO1,CO2,CO4	Demonstration of Pseudo Pancreatic cyst on patient or simulator.
44.2	CO1,CO2,CO4	Case taking of Pancreatitis with effective communication skills
44.3	CO1,CO2,CO4,CO5	Case presentation of Neoplasm of Pancreas and its management.
45.1	CO1,CO2,CO4,CO6	Case presentation of the Splenic Rupture & Splenomegaly on the patients or simulator.
46.1	CO1,CO3,CO5	Case presentation on CKD, Perinephric Abscess & Renal Calculus on patients, or simulator.
47.1	CO1,CO3,CO5	Examination of Urinary System Disorders.
47.2	CO1,CO2,CO3,CO4, CO5,CO6	Suprapubic catheterization, Cystoscopy, PCNL,& ESWL on patients or simulators.
48.1	C01,C02,C04,C05	Demonstration of Uttarabasti procedure for Urethral Stricture / BPH with Indication, contraindication, and precautions.

49.1	CO1,CO3,CO5	Demonstration of BPH, Prostatitis, and Prostatic Abscess on patients or simulators.
49.2	CO1,CO2,CO3,CO5	Procedure of TURP on the patients or simulators.
51.1	CO1,CO3,CO4,CO5	Examination of Male External Genitalia.
52.1	CO1,CO2,CO4	Examination of Scrotal Swelling.
52.2	CO1,CO2,CO4	Examination of Swelling in the Inguino scrotal region (Except Inguinal and Femoral Hernia).
53.1	CO1,CO2,CO4,CO5	Examination of Hydrocele.
54.1	CO1,CO2,CO4,CO5	Examination of Inguinal Hernia.
54.2	CO1,CO2,CO4,CO5	Examination of Umbilical Hernia and Incisional Hernia.

Subject	Papers	Theory	]	Practical/Clinical Assessment (200)			Grand	
Code			Practical	Viva	Elective	IA	Sub Total	Total
AYUG-ST	2	200	100	70	-	30	200	400

### 6 A : Number of Papers and Marks Distribution

#### **6 B : Scheme of Assessment (Formative and Summative)**

PROFESSIONAL	FOR	SUMMATIVE		
COURSE	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)	ASSESSMENT
Third	3 PA & First TT	3 PA & Second TT	3 PA	UE**

**PA:** Periodical Assessment; **TT:** Term Test; **UE:** University Examinations; **NA:** Not Applicable. \*\*University Examination shall be on entire syllabus

#### 6 C : Calculation Method for Internal assessment Marks

	PERIODICAL ASSESSMENT*					TERM TEST**	TEI ASSESS	RM SMENT
	A 3	В	С	D	E	F	G	Н
TERM	1 (15 Marks)	2 (15 Marks)	3 (15 Marks)	Average (A+B+C/3 )	Converted to 30 Marks (D/15*30)	Term Test (Marks converted to 30)	Sub Total _/60 Marks	Term Assessmen t (/30)
FIRST							E+F	(E+F)/2
SECOND							E+F	(E+F)/2
THIRD						NIL		Е
Final IA	Average of Three Term Assessment Marks as Shown in 'H' Column.							
	Maximum Marks in Parentheses *Select an Evaluation Method which is appropriate for the objectives of Topics from the Table 6 D for Periodic assessment. Conduct 15 marks assessment and enter marks in A, B, and C. ** Conduct Theory (100 Marks)(MCQ(20*1 Marks), SAQ(8*5), LAQ(4*10)) and Practical (100 Marks) Then convert to 30 marks.							

## 6 D : Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3.

# **Topics for Periodic Assessments**

РА	Paper 1Paper 2				
PA 1	Topic <b>1 To 3</b>	-			
PA 2	Topic <b>4 To 7</b>	-			
PA 3	Topic 8 To 12	-			
Term Test 1	Entire Syllabus of Term 1 of 2 papers				
PA 4	Topic <b>16 To 20</b>	-			
PA 5	Topic 21 To 26 -				
PA 6	- Topic 27 To 32				
Term Test 2	Entire Syllabus of Term 2 of 2 papers				
PA 7	-	Topic <b>36 To 42</b>			
PA 8	-	Topic <b>43 To 48</b>			
PA 9	-	Topic <b>49 To 54</b>			

### III PROFESSIONAL BAMS EXAMINATIONS AyUG-ST PAPER-I

Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

Similar for Paper II.

# 6 F : Distribution of theory examination

Pap	aper 1 (Fundamentals of Shalya Tantra)				
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ
1	Introduction to Shalya Tantra (Introduction to development of surgery)	15	Yes	Yes	Yes
2	Yantra and Shastra (Blunt and sharp instruments)		Yes	Yes	Yes
3	Nirjantukarana (Sterilization)		Yes	Yes	No
4	Sangyaharana (Anaesthesia)		Yes	Yes	No
5	Trividha Karma (Pre, Operative and Post Operative care)		Yes	Yes	Yes
6	Shastra Karma (Operative procedure)		Yes	Yes	Yes
7	Yogya (Experimental Surgical Training)		Yes	Yes	Yes
8	Marma (Vital points)	5	Yes	Yes	No
9	Kshara Karma	15	Yes	Yes	Yes
10	Agnikarma		Yes	Yes	Yes
11	Raktamokshana		Yes	Yes	Yes
12	Bandha Vidhi	6	Yes	Yes	No
13	Pranashta Shalya		Yes	Yes	No
14	Fluid, Electrolyte, Acid Base Balance and Nutrition in surgical practice	5	Yes	No	No
15	Rakta		Yes	No	No
16	Life Saving and Emergency Medicines in surgical practice (Prana Rakshaka and Atyayika Dravya)	4	Yes	No	No
17	Naidanik Vidhi (Diagnostic techniques)		Yes	No	No
18	Shat Kriyakala in surgical practice	5	Yes	Yes	No
19	Samanya Vyadhi Parichaya	10	Yes	Yes	Yes
20	Vrana	10	Yes	Yes	Yes
21	Kshudra Roga	3	Yes	No	No
22	Manya Vikara	5	Yes	Yes	No
23	Sira Vikara (Venous Disorders)	10	Yes	Yes	Yes
24	Dhamani Vikara (Arterial disorders)		Yes	Yes	Yes
25	Snayu Vikara (Diseases of tendons and ligaments)	5	Yes	No	No
26	AIDS - HIV and Hepatitis (B and C)	2	Yes	No	No

Total Marks	100	

Pape	Paper 2 ( Shalya Tantra Chikitsa Siddhanta )				
Sr. No	A List of Topics	B Marks	MCQ	SAQ	LAQ
27	Bhagna (Skeletal Injuries)	10	Yes	Yes	Yes
28	Asthi Sandhi Vikara (Diseases of Bone and Joints)	5	Yes	Yes	No
29	Shirobhighata (Cranio-cerebral Injurie/ Disorders)	6	Yes	Yes	No
30	Kasheruka Vikara (Diseases of Spine)		Yes	No	No
31	Stana Roga (Diseases of Breast)	5	Yes	No	No
32	Urah Vikara (Diseases of Chest)	3	Yes	No	No
33	Anna Nalika Vikara (Diseases of Oesophagus)	2	Yes	No	No
34	Gulma Roga	2	Yes	No	No
35	Shoola Vyadhi		Yes	No	No
36	Udara Roga	5	Yes	Yes	No
37	Aamashaya Evam Adho-Aamashaya Vikara (Diseases of Stomach and Duodenum)	12	Yes	Yes	Yes
38	Kshudrantra Vikara (Diseases of Small Intestine)		Yes	Yes	Yes
39	Brihadantra Vikara (Diseases of Large Intestine)		Yes	Yes	Yes
40	Guda Vikara (Diseases of Rectum and Anal Canal)		Yes	Yes	Yes
41	Udarabhighata (Abdominal Injuries)		Yes	No	No
42	Yakrit Vikara (Diseases of Liver)	15	Yes	Yes	Yes
43	Pittashaya Vikara (Diseases of Gall Bladder)		Yes	Yes	Yes
44	Agnyashaya Vikara (Diseases of Pancreas)	5	Yes	Yes	No
45	Pleeha Vikara (Diseases of Spleen)		Yes	Yes	No
46	Vrikka Evam Mutravahini Vikara (Diseases of Kidney and Ureters)	15	Yes	Yes	Yes
47	Mutrashaya Vikara (Diseases of Urinary bladder)		Yes	Yes	Yes
48	Mutraghata and Mutrakrichra	]	Yes	Yes	Yes
49	Paurusha Granthi Vikara (Diseases of Prostate)		Yes	Yes	Yes
50	Mutramarga Vikara (Diseases of Urethra)		Yes	Yes	Yes

51	Medhra Vikara (Diseases of Penis)	15	Yes	Yes	Yes
52	Mushka Evum Vrishan Vikara (Diseases of Scrotum and Testis)		Yes	Yes	Yes
53	Vriddhi Roga		Yes	Yes	Yes
54	Antravriddhi (Hernia)		Yes	Yes	Yes
Total Marks		100			

#### 6 G : Instructions for UG Paper Setting & Blue print

- 1. All questions shall be compulsory.
- 2. Questions shall be drawn based on Table 6F, which provides the topic name, types of questions (MCQ(Multiple Choice Question), SAQ(Short Answer Question), LAQ(Long Answer Question)).
- 3. The marks assigned in Table 6F for each topic/group of topics shall be considered as the maximum allowable marks for that topic/group of topics.
- 4. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
- 5. Refer to Table 6F before setting the questions. Questions shall be framed only from topics where the type is marked as "YES", and avoided if marked as "NO".
- 6. Each 100-mark question paper shall contain:
  - 20 MCQs
  - 8 SAQs
  - 4 LAQs
- 7. MCQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 3.
  - Questions from the Nice to Know part of syllabus shall not exceed 2.
- 8. SAQs:
  - Majority shall be drawn from the Must to Know part of the syllabus.
  - Questions from the Desirable to Know part of syllabus shall not exceed 1.
  - No questions shall be drawn from the Nice to Know part of syllabus.
  - SAQs shall assess understanding, application, and analysis, rather than simple recall.
- 9. LAQs:
  - All LAQs shall be drawn exclusively from the Must to Know part of the syllabus.
  - No questions shall be taken from the Desirable to Know or Nice to Know part of the syllabus.
  - Number of LAQs should not exceed one per topic unless maximum marks exceed 20 for the topic.
- 10. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
- 11. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

#### 6 H : Distribution of Practical Exam

S.No	Heads	Marks
1	Spotting (Instruments, X-ray and Drugs etc) - 5 spots 4 marks each.	20
2	Clinical case taking (One case)	30
3	Demonstration of procedures: Demonstration of surgical and parasurgical procedures	40
4	<ul> <li>Records :</li> <li>1. 10 Instruments with diagrams</li> <li>2. 10 Records of surgical and parasurgical procedures (CPR,CATHERIZATION,ENDOTRECHIAL INTUBATION)</li> <li>3. 10 IPD case sheets of Shalyatantra</li> <li>4. 10 OPD case sheets of Shalyatantra</li> </ul>	10
5	<ul> <li>Viva Voce</li> <li>Structured Viva</li> <li>Questions (assessing clinical skills) on paper 1 - 30 Marks</li> <li>Questions (assessing clinical skills) on paper 2 - 30 Marks</li> <li>Communication Skill - 10 Marks</li> </ul>	70
6	Marks of Internal assessment	30
Total Ma	rks	200

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#### Abbreviations

Domain		T L Method		Level		Asse	Assessment		Integration	
СК	Cognitive/Knowledge	L	Lecture	К	Know	T-CS	Theory case study	V-RS	V RS	
СС	Cognitive/Comprehensi on	L&PP T	Lecture with PowerPoint presentation	КН	Knows how	T-OBT	Theory open book test	V-KS	V KS	
CAP	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P- VIVA	Practical Viva	Н-КС	НКС	
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	H-SH	н ѕн	
CS	Cognitive/Synthesis	REC	Recitation			P-EXA M	Practical exam	Н-РК	Н РК	
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	H-SHL	H SHL	
PSY- SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	H-SP	H SP	
PSY- GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	н-кв	Н-КВ	
PSY- MEC	Psychomotor/Mechanis m	BS	Brainstorming			P-EN	Practical enact	H-Sam hita	H-Samhita	
PSY- ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-DG	V DG	
PSY- ORG	Psychomotor/Originatio n	PBL	Problem-Based Learning			P- MOD	Practical Model	V-RN	V RN	
AFT- REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-RS	V RS	
AFT- RES	Affective/Responding	PrBL	Project-Based Learning			P- CASE	Practical Case taking	V-AT	V AT	
AFT- VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	V-SW	V SW	
AFT- SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving			
AFT- CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz			
PSY- PER	Psychomotor/perceptio n	BL	Blended Learning			PUZ	Puzzles			
PSY- COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation			
		ML	Mobile Learning			DEB	Debate			
		ECE	Early Clinical Exposure			WP	Word puzzle			
		SIM	Simulation			O-QZ	Online quiz			
		RP	Role Plays			O-GA ME	Online game-based assessment			
		SDL	Self-directed learning			M- MOD	Making of Model			
		PSM	Problem-Solving Method			M- CHT	Making of Charts			
		KL	Kinaesthetic Learning			M- POS	Making of Posters			

	W	Workshops		C-INT	Conducting interview	
	GBL	Game-Based Learning		INT	Interactions	
	LS	Library Session		CR- RED	Critical reading papers	
	PL	Peer Learning		CR-W	Creativity Writing	
	RLE	Real-Life Experience		C-VC	Clinical video cases	
	PER	Presentations		SP	Simulated patients	
	D-M	Demonstration on Model		РМ	Patient management problems	
	РТ	Practical		СНК	Checklists	
	X-Ray	X-ray Identification		Mini- CEX	Mini-CEX	
	CD	Case Diagnosis		DOPS	DOPS	
	LRI	Lab Report Interpretation		CWS	CWS	
	DA	Drug Analysis		RS	Rating scales	
	D	Demonstration		RK	Record keeping	
	D- BED	Demonstration Bedside		СОМ	Compilations	
	DL	Demonstration Lab		Portfol ios	Portfolios	
	DG	Demonstration Garden		Log book	Log book	
	FV	Field Visit		TR	Trainers report	
				SA	Self-assessment	
				PA	Peer assessment	
				360D	360-degree evaluation	
				PP-Pra ctical	Practical	
				VV- Viva	Viva	
				DOAP	Demonstration Observation Assistance Performance	
				SBA	Scenario Based Assessment	
				CBA	Case based Assessment	
				S-LAQ	Structured LAQ	
				OSCE	Observed Structured Clinical Examination	
				OSPE	Observed Structured Practical Examination	
				DOPS	Direct observation of procedural skills	