

**COURSE CURRICULUM FOR THIRD PROFESSIONAL B.S.M.S  
(PRESCRIBED BY NCISM)**



**Sool and Magalir Maruthuvam  
(Obstetrics and Gynaecology)**

**(SUBJECT CODE : SIDUG-SMM)**

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



॥ आयुषे सर्वलोकानाम् ॥

**BOARD OF UNANI, SIDDHA AND SOWA-RIGPA  
NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE  
NEW DELHI-110026**



**III Professional SIDDHA MARUTHUVA ARIGNAR**  
**(Bachelor of Siddha Medicine and Surgery (B.S.M.S))**

**Subject Code : SIDUG-SMM**

Sool and Magalir Maruthuvam

(Obstetrics and Gynaecology)

## Summary

<b>Total number of Teaching hours: 350</b>			
<b>Lecture (LH) - Theory</b>		<b>110</b>	<b>110(LH)</b>
Paper I	55		
Paper II	55		
<b>Non-Lecture (NLHT)</b>		<b>70</b>	<b>240(NLH)</b>
Paper I	35		
Paper II	35		
<b>Non-Lecture (NLHP)</b>		<b>170</b>	
Paper I	85		
Paper II	85		

<b>Examination (Papers &amp; Mark Distribution)</b>					
<b>Item</b>	<b>Theory Component Marks</b>	<b>Practical Component Marks</b>			
		<b>Practical</b>	<b>Viva</b>	<b>Elective</b>	<b>IA</b>
Paper I	100	100	30	-	20
Paper II	100				
<b>Sub-Total</b>	200	150			
<b>Total marks</b>	350				

**Important Note :-** The User Manual III B.S.M.S 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 [syllabus24sid@ncismindia.org](mailto:syllabus24sid@ncismindia.org)

# **PREFACE**

Sool Maruthuvam (Obstetrics) plays a crucial role in maternal and infant healthcare, ensuring the well-being of women during pregnancy, childbirth, and the postpartum period. This syllabus integrates Siddha principles with modern healthcare, equipping BSMS graduates with the knowledge and skills to provide holistic, patient-centered, and personalized care. It covers Sikkalgal (complications), Karanangal (causes), and Parigarangal (management strategies) related to pregnancy, alongside preventive care, maternal monitoring, and evidence-based management of complications. By emphasizing Thirithoda constitutions, Envagai Thervu, and other diagnostic tools, the curriculum ensures that students develop a deep understanding of obstetric principles and Siddha interventions to promote safe motherhood and reduce maternal and neonatal mortality rates.

In addition to obstetrics, Magalir Maruthuvam (Gynaecology) is a vital component of this curriculum, focusing on the female reproductive system, reproductive health, and the management of complex disorders. With women's health gaining increasing recognition, the syllabus is designed to provide comprehensive knowledge of gynaecological principles and advancements, ensuring evidence-based practice and a patient-centric approach. Through a blend of traditional wisdom and emerging research, students will be equipped to diagnose, treat, and manage gynaecological conditions effectively, incorporating modern medical insights while staying rooted in Siddha traditions.

This competency-based curriculum prepares students to adapt to advancements in obstetric and gynaecological care, integrating clinical guidelines, case studies, and innovative therapies to enhance their diagnostic and treatment capabilities. The inclusion of technology-driven healthcare solutions and contemporary methodologies ensures that Siddha graduates emerge as skilled, confident, and ethical practitioners. With a strong foundation in both traditional and modern practices, this syllabus empowers future Siddha physicians to provide high-quality care, contribute to research, and uphold excellence in women's health.

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## Course Code and Name of Course

<b>Course code</b>	<b>Name of Course</b>
SIDUG-SMM	Sool and Magalir Maruthuvam

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

<b>SR1 CO No</b>	<b>A1 Course learning Outcomes (CO) SIDUG-SMM At the end of the course SIDUG-SMM, the students should be able to-</b>	<b>B1 Course learning Outcomes mapped with program learning outcomes.</b>
CO1	Describe the health needs of seven stages of women from childhood to post-menopausal period.	PO1,PO3,PO7,PO9
CO2	Acquire knowledge and treatment on common Magalir noigal (Gynaecological diseases) and their screening.	PO2,PO7,PO8
CO3	Apply the principles of Siddha Piniarri Muraigal (Diagnostic tools) and correlate with modern concepts to treat all Sool and Magalir noigal (Obstetrics and Gynaecology disorders).	PO4,PO5,PO9,PO10
CO4	Diagnose and manage normal Sool kalam, Magaperu, Sool poopu kalam (Pregnancy, Labour and Puerperium) and recognize any deviation from normalcy.	PO3,PO4,PO8
CO5	Demonstrate the importance of Makkal thogai kattuppattu (population control), Kudumbakattupadu Muraigal (contraception), Saatam saarintha maruthuvam (Medico legal and ethical aspects) of practicing Sool and Magalir Maruthuvam (Obstetrics and Gynaecology).	PO1,PO2,PO7
CO6	Illustrate the various aspects of Siddha tools for diagnosis and learn internal and external medicines related to Sool and Magalir maruthuva noigal (Obstetrics and Gynaecological disorders).	PO1,PO6,PO7
CO7	Exhibit the importance of good clinical practice in preventing the morbidity and mortality in Sool and Magalir Maruthuvam. (Obstructers and Gynaecology)	PO2,PO5,PO6
CO8	Perform systematic data handling and statistical presentation in a scientific and organized manner for seminars, symposia, and research papers.	PO11,PO12

**Table 2 : Contents of Course**

<b>Paper 1 (SOOL MARUTHUVAM)</b>						
<b>Sr. No</b>	<b>A2 List of Topics</b>	<b>B2 Term</b>	<b>C2 Marks</b>	<b>D2 Lecture hours</b>	<b>E2 Non- Lecture hours Theory</b>	<b>F2 Non- Lecture hours Practica I</b>
1	<p><b>Koobaga Udalkoorugal (Pelvic Anatomy)</b></p> <p>1.1. Types and measurements of <i>Enbu Koobagam</i> (Bony pelvis)</p> <p>1.2. Diameters of <i>Magavu kabalam</i> (Fetal skull)</p> <p>1.3 Fetopelvic relations and its importance.</p> <p>1.4 <i>Uthayam</i> and different types of <i>Uthayam</i> (Presentation)</p> <p>1.5 Normal and abnormal types of <i>Uthayapagam</i> (Denomination)</p> <p>1.6 <i>Vedabam</i> (Perineum) and its layers.</p>	1	7	6	2	9
2	<p><b>Iyalbana sool (Normal Pregnancy)</b></p> <p>2.1 <i>Karuurpathi</i> - (Fertilization) Siddha aspect.</p> <p>2.2 <i>Karuurpathi</i> - (Fertilization) Modern aspect.</p> <p>2.3 <i>Karupudaidal, Mayai thotram</i>, (Implantation, Placental development) its functions, and Fetal circulation.</p> <p>2.4 <i>Thopulkodi</i>, (Umbilical cord) and <i>Panikudaneer</i> (Amniotic fluid)</p> <p>2.5 <i>Karpini Urubu maruthalgal</i> (Maternal changes during pregnancy)</p> <p>2.6 <i>Sool kanippu</i> (Diagnosis of pregnancy)</p> <p>2.7 <i>Karpini tharkappu</i>-<i>Karpini parisodhanai Muraigal</i> (Antenatal care and antenatal investigations)</p> <p>2.8 <i>Sool kala Sikkalgal</i> (Complications of pregnancy)</p>	1	20	10	9	16

	<p>2.9 <i>Sool kala Yoga, Pranayama and Siddha maruthuva Muraigal</i></p> <p>2.10 <i>Kudumba kattupaadu muraigal</i> (Contraceptive methods)</p>					
3	<p><b>Suga magapperu (Normal delivery)</b></p> <p>3.1 <i>Suga magapperu kurikunangal</i> (Signs of symptoms of normal labour)</p> <p>3.2 <i>Suga magapperu nadai</i> (Stages of normal labour)</p> <p>3.3 <i>Suga magapperu nigalchegal</i> (Mechanism of normal labour)</p> <p>3.4 <i>Suga magapperu sathanangal</i> (Factors influence the normal labour)</p> <p>3.5 <i>Suga magapperu Kankanippu, vedapakizhichal</i> (Course of labour with episiotomy)</p> <p>3.6 Pain management, energy maintance and breathing exercise of normal delivery</p> <p>3.7 <i>Suga magapperu sikalgal</i> (Complication of normal labour)</p>	2	10	7	5	13
4	<p><b>Asaatharana magapperu (Abnormal labour)</b></p> <p>4.1 <i>Pinpedari uthayam</i> (Occipito posterior presentation)</p> <p>4.2 <i>Karnangal, kurikunangal for Putta uthayam</i> (causes and clinical features of Breech presentation)</p> <p>4.3 <i>Noi Kanippu and parigaram for Putta udhayam</i> (Breech presentation)</p> <p>4.4 <i>Muga uthayam</i> (Face presentation)</p> <p>4.5 <i>Puruva uthayam</i> (Brow presentation)</p> <p>4.6 <i>Kuruku uthayam</i> (Transverse presentation)</p> <p>4.7 <i>Erattai kulavi sool, Pan sool</i> (Twin pregnancy and Multiple pregnancy)</p>	2	17	8	5	12

	4.8 <i>Pinthangiya maayai</i> (Retained Placenta)					
5	<b>Asaatharana sool (Pathology of pregnancy)</b> 5.1 <i>kurai magaperu</i> (Preterm labour) 5.2 <i>Purakarupai sool</i> (Ectopic pregnancy) 5.3 <i>Neerkumil kalalai</i> (Hydatiform Mole) 5.4 <i>Athepanineer, Kuraipanineer</i> (Polyhydramnios's and Oligohydramnios's) 5.5 <i>Karuchethaivu</i> (Abortion) 5.6 <i>Magaperu mun utherasalai</i> (Placenta Previa) and <i>Magaperu pin utherasalai</i> (Postpartum haemorrhage) 5.7 <i>Sakthiyatra karuppai</i> (Atonic Uterus)	2	18	7	3	10
6	<b>Soolkaala pothu noigal (General diseases in pregnancy)</b> 6.1 <i>Soolkala Athe kuruthealzutham</i> (Gestational Hypertension) 6.2 <i>Soolvali murkuri</i> (Preeclampsia) 6.3 <i>Sool valeppu</i> (Eclampsia) 6.4 <i>Soolkaala mathumegam</i> (Gestational Diabetes mellitus) 6.5 <i>Sool kaala pandu noi</i> (Gestational Anaemia) 6.6 <i>Soolkala Thotru noigal</i> (Gestational Infections) 6.7 <i>Soolkaala kuruthi thogupu noigal</i> (Rh-Incompact ability disorder) 6.8 State and Central Government schemes 6.9 <i>Soolkaala kuraiveethana noi</i> (Gestational Hypothyroidism) 6.10 <i>Veda soolvanthi</i> (Hyperemesis gravid arum) 6.11 <i>Soolkaala Magalir noigal</i> (Gynaecological	3	18	11	7	15

	diseases which influence pregnancy)					
7	<b>Soolpoopu kalam (Puerperal period)</b>  7.1 <i>Abarenamam</i> (Involution)  7.2 <i>Sool poopu sugaranam</i> (Puerperal changes)  7.3 <i>Sool poopu paramarippu</i> (Management of puerperal period)  7.4 <i>Sool poopu sanchara noigal</i> (Puerperal sepsis)  7.5 <i>Suga Magavu</i> (Term baby)  7.6 <i>Manovigara noigal in sool poopu kalam</i> (Puerperal psychosis)	3	10	6	4	10
<b>Total Marks</b>			<b>100</b>	<b>55</b>	<b>35</b>	<b>85</b>

<b>Paper 2 (MAGALIR MARUTHUVAM)</b>						
<b>Sr. No</b>	<b>A2 List of Topics</b>	<b>B2 Term</b>	<b>C2 Marks</b>	<b>D2 Lecture hours</b>	<b>E2 Non-Lecture hours Theory</b>	<b>F2 Non-Lecture hours Practica I</b>
8	<b>Inaperukka Udalkoorugal (Reproductive Anatomy)</b>  8.1. <i>Karuppaiyin amaippu</i> (Structure of Uterus)  8.2. <i>Sinaippai, Sinaipaathai, Yoni and Koobaga thaaraiyin amaippu.</i> (Structure of ovary and fallopian tube, vagina and pelvic floor)  8.3. <i>Piravi Kuraipadugal in Magalir pirappu uruppugal</i> (Congenital malformations of female genital organs), Turners syndrome, Klinefelter syndrome.	1	9	3	2	4
9	<b>Inaperukka Udalseyalial (Reproductive physiology)</b>  9.1. HPO-axis, and <i>Mun suvali surappugal</i> (Anterior pituitary hormones)	1	10	9	5	15

	<p>9.2. <i>Sinaippai surappugal and Peethaga surappugal</i> (Oestrogen and Progesterone)</p> <p>9.3. <i>Veethana surappugal and Pirukoobari surappugal</i> (Thyroid hormones and Adrenal sex hormones)</p> <p>9.4. <i>Poopu suzharchi nigazhvugal</i> (Phases of Menstrual Cycle)</p> <p>9.5. <i>Muthal poopu</i> (Menarche)</p> <p>9.6. <i>Thuritha mutual poopu</i> (Precocious puberty)</p> <p>9.7. <i>Kadaipoopu kolarugal</i>. (Menopausal symptoms)</p> <p>9.8. <i>Kadai poopu pin noigal</i> (Post-menopausal Diseases)</p> <p>9.9. <i>Irupalina noigal</i> (Intersex diseases)</p>					
10	<p><b>Poopu suzharchi noigal (Menstrual disorders)</b></p> <p>10.1. <i>Soothaga thadai</i> (Amenorrhoea)</p> <p>10.2. <i>Saatharana Perumpadu</i> (Abnormal uterine bleeding - AUB)</p> <p>10.3. <i>Asaatharana Perumpadu</i> (Dysfunctional uterine bleeding - DUB)</p> <p>10.4. <i>Soothaga vali and Poopu murkurigal</i> (Dysmenorrhoea, Premenstrual syndrome)</p> <p>10.5. <i>Kadai poopu pin utherasalai</i> (Postmenopausal bleeding)</p>	1	14	5	4	6
11	<p><b>Magaperinmai (Infertility)</b></p> <p>11.1. Siddha aspects of Magaperinmai (Infertility)</p> <p>11.2. <i>Aan Magaperinmai - Karanangal</i> (Male Infertility-causes).</p> <p>11.3. <i>Pen Magaperinmai - Karanangal</i> (Female Infertility-causes)</p>	2	12	7	5	12

	<p>11.4. <i>Aan Magaperinmai - Noi kanippu, Siddha maruthuvam</i> (Male Infertility - Investigation, Siddha Treatment)</p> <p>11.5. <i>Pen Magaperinmai - Noi kanippu, Siddha maruthuvam</i> (Female Infertility - (Investigation, Siddha Treatment,))</p> <p>11.6. Ethical guidelines of <i>Magaperinmai</i></p> <p>11.7. Assisted Reproduction Techniques - Intra uterine Insemination - (IUI), In vitro fertilization (IVF), Intra cytoplasmic sperm injection (ICSI).</p>					
12	<p><b>Sinaippai noigal (Ovarian disorders)</b></p> <p>12.1. <i>Sinaippai katti</i> (Simple ovarian cyst)</p> <p>12.2. <i>Sinaippai kalalai</i> (Benign ovarian tumours).</p> <p>12.3. <i>Sinaippai Neerkatti</i> (Polycystic ovarian syndrome - PCOS)</p> <p>12.4. <i>Sinaippai piravi katti</i> (Dermoid cyst)</p> <p>12.5. <i>Sinaippai kuruthi katti</i> (Chocolate cyst of ovary) with endometriosis.</p> <p>12.6. <i>Sinaippai seyelpaadu kuraivu</i> (Ovarian insufficiency)</p> <p>12.7. <i>Sinaippai thirugal</i> (Ovarian torsion)</p> <p>12.8. <i>Thuritha Sinaippai seyalizhappu</i> (Premature ovarian failure)</p> <p>12.9. <i>Sinaippai thunduthal noi</i> (Ovarian Hyper stimulation syndrome)</p> <p>12.10. <i>Sinaippai putru noi</i> (Carcinoma of ovary)</p>	2	12	10	5	14
13	<p><b>Marbaga noigal (Diseases of Breast)</b></p> <p>13.1. <i>Nakil katti</i> - (Fibro adenoma breast)</p> <p>13.2. <i>Nakil thabitham</i> - (Mastitis),</p> <p>13.3. <i>Nakil seelkatti</i> - (Breast abscess )</p> <p>13.4. <i>Nakil putru noi - noi karanam and vagaigal</i></p>	2	10	5	4	8

	(Breast Cancer-cause and types)  13.5. <i>Nakil putru noi - Ayyu kooda thervugal and maruthuvam</i> (Breast Cancer - Investigation and treatment)					
14	<b>Karuppai noigal (Uterine disorders)</b>  14.1. <i>Karuppai thasai narkalalai</i> (Fibroid uterus).  14.2. <i>Karuppai kambu kazhalai</i> (Endometrial polyp), <i>Kazhunthu kambu kalalai</i> (Cervical polyp), <i>Karuppai utkavasa neetchi</i> (Adenomyosis), <i>Karuppai utkavasa thadippu</i> (endometrial hyperplasia).  14.3. <i>Karuppai kazhunthu putru noi</i> (Carcinoma of cervix).  14.4. <i>Karuppai kazhunthu thabitham</i> (Cervicitis), ethics for menstrual hygiene, its internal and external management  14.5. <i>Karuppai adithalal</i> (Uterine prolapse) including internal and external management.	3	13	5	3	9
15	<b>Koobaga thotru noigal (Pelvic inflammatory diseases)</b>  15.1. <i>Yoni roga padalam- Siddha aspect and Vellai noi</i> (Leucorrhoea).  15.2. <i>Palvenai noigal</i> (Sexually transmitted diseases - STD) - <i>Vettai noi</i> (Gonorrhoea), <i>Aema noi</i> (Acquired immunodeficiency syndrome - AIDS), <i>Kuruku pun</i> (Syphilis), <i>Earl Sanchara thabitham</i> (Hepatitis B, C)  15.3. <i>Sinaippai thabitham</i> (Oophoritis), <i>Sinaipaathai thabitham</i> (salinities)  15.4. <i>Bartholin surapi thabitham</i> (Bartholinitis), <i>Narpatta Koopaga vali</i> (Chronic pelvic pain)  15.5. <i>Karuppai utkavasa thabitham</i> (Endometritis),  15.6. <i>Koopaga arai thabitham</i> due to <i>Illai pu noi</i> (Pelvic inflammatory disease due to Tuberculosis), <i>Karuppai age Pura azharchi</i> (Parametritis).	3	12	6	4	10

16	<p><b>Siruneer vega kolaarugal (Urogynaecological disorders)</b></p> <p>16.1. <i>Yoni adithalal</i> (Vaginal prolapse)</p> <p>16.2. <i>Siruneer adangamai</i> (Stress Incontinence (SI), Urge Incontinence (UI))</p> <p>16.3. <i>Siruneer paathai thotrugal</i> (Urinary tract Infection)</p> <p>16.4. <i>Siruneer paathai kayangal</i> (Urinary tract injury)</p> <p>16.5. <i>Punarchi vali</i> (Dyspareunia), <i>Poopu, Mangai, Kadaipoopu kala mana matrangal</i> (Psychosomatic problem in reproductive and menopausal period)</p>	3	8	5	3	7
<b>Total Marks</b>			<b>100</b>	<b>55</b>	<b>35</b>	<b>85</b>

**Table 3 : Learning objectives of Course**

<b>Paper 1 (SOOL MARUTHUVAM)</b>										
<b>A3</b> Course outcome	<b>B3</b> Learning Objective (At the end of the session, the students should be able to)	<b>C3</b> Domain/sub	<b>D3</b> MK / DK / NK	<b>E3</b> Level	<b>F3</b> T-L method	<b>G3</b> Assessment	<b>H3</b> Assessment Type	<b>I3</b> Term	<b>J3</b> Integration	<b>K3</b> Type
<b>Topic 1 Koobaga Udalkoorugal (Pelvic Anatomy) (LH :6 NLHT: 2 NLHP: 9)</b>										
<b>A3</b>	<b>B3</b>	<b>C3</b>	<b>D3</b>	<b>E3</b>	<b>F3</b>	<b>G3</b>	<b>H3</b>	<b>I3</b>	<b>J3</b>	<b>K3</b>
CO1, C02	Define the structure of <i>Enbu Koobagam</i> (bony pelvis) its divisions, types, measurements, and its importance in <i>Sool Maruthuvam</i> .	CK	MK	KH	L&PPT, DIS	QZ, Log book	F&S		V-UK	LH
CO1, C02	Describe <i>Magavu Kabalam</i> (Fetal skull) including <i>Mun utchikuli</i> (Anterior fontanelle), <i>Pin utchikuli</i> (Posterior fontanelle), <i>Karakaigal</i> (Sutures), size, shape, fetal skull diameters and adaptation for childbirth.	CK	MK	KH	DIS, PL, L_VC	M-CHT, PUZ	F&S		-	LH
CO1, C02	Describe the diameters of <i>Koobagam</i> related to <i>Magavu</i> (Feto pelvic diameters relation) <i>Kabala vitta alavugal</i> and its clinical importance.	CK	MK	KH	SIM, L&PPT	QZ, T-CS	F&S		-	LH
CO1, C02	Explain about <i>Uthayam</i> (Presentation), such as normal, and abnormal presentation, and the importance of determining presentation about <i>Magaperu</i> (Labour).	CK	MK	KH	TPW, L_VC	T-CS, M-POS	F&S		-	LH
CO1, C02	Explain the types of <i>Uthayapagam</i> (Denomination) related to <i>Magaperu</i> (labour), such as normal and abnormal <i>Uthayapagam</i> (Denomination).	CK	MK	KH	L_VC, DIS	PUZ, INT	F&S		-	LH
CO1, C02	Describe the location, boundaries, layers, nerve supply, blood supply, and lymphatics of <i>Vedabam</i> (Perineum), along with the clinical importance of <i>Vedabam kizhisal</i> (Episiotomy).	CK	NK	KH	DIS, L, SIM, PL	INT, QZ, M-CHT	F&S		-	LH

CO1, C02	Describe the subtypes of <i>Utchi uthayam</i> (Cephalic presentation) related to <i>Suga magaperu</i> (Normal delivery).	CK	MK	KH	IBL,DIS ,D-M	INT,M- CHT,QZ	F&S		-	NLHT1.1
CO1, C02	Describe the normal and abnormal types of <i>Magavu Uthayam</i> (Fetal presentation) and their <i>Uthayapagam</i> (denomination) related to <i>Magaperu</i> (Labour).	CK	MK	KH	DIS,DL, D-M	M- MOD,PUZ	F&S		-	NLHT1.2
CO1, C02	Observe the <i>structure</i> , dimensions, and variations of the Enbu Koobagam (bony pelvis) for managing <i>sool kalam</i> and <i>magaperu</i> (pregnancy and delivery).	PSY- GUD	MK	SH	DIS,D- M	C-VC,M- CHT	F&S		-	NLHP1.1
CO1, C02	Observe and assess the <i>Magavu kabalam</i> (Fetal skull) with its sutures and diameters, which help assess whether vaginal delivery is possible.	PSY- GUD	MK	SH	SIM,RP	P- MOD,WP	F&S		-	NLHP1.2
CO1, C02	Demonstrate the adaptation mechanism between the <i>Magavu kabalam</i> (Fetal skull) and the <i>Enbu Koopagam</i> (Bony pelvis), as well as the mechanism of Cephalo pelvic disproportions.	PSY- GUD	MK	SH	SIM,DL ,DIS	P-ID,Log book	F&S		-	NLHP1.3
CO1, C02	Demonstrate the normal and abnormal <i>Uthayam</i> (Presentation) related to <i>Magaperu</i> (Abnormal labour).	PSY- GUD	MK	SH	CD,DL	INT, C-VC	F&S		-	NLHP1.4
CO1, C02	Observe the normal and abnormal <i>Uthayapagam</i> related to <i>Asaatharana Magaperu</i> (Abnormal labour).	PSY- GUD	MK	SH	DL,DIS, SIM	SP,Log book	F&S		-	NLHP1.5
CO1, C02	Demonstrate the deep and superficial layers of	PSY- GUD	MK	SH	SIM,DI S	INT,QZ	F&S		-	NLHP1.6

*Vedabam* (Perineum) and its clinical importance such as *Vidapakizhisal* (Episiotomy).

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 1.1	Subtypes of <i>Utchi uthayam</i> (Cephalic presentation) related to <i>Suga magaperu</i> (Normal delivery).	<p>1. Demonstration Lab: The teacher explains the anatomy and the process of cephalic presentation, including the fetal skull bones to the students in the demonstration lab. Students will observe and record their case record.</p> <p>2. Quizzes: The teacher will divide the students into small groups and conduct a quiz program related to the subtypes of <i>Utchi uthayam</i> (Cephalic presentation). Finally, based on their performance, the teacher will give those scores.</p> <p>Total duration: 1hr</p>
NLHT 1.2	Normal and abnormal types of <i>Uthayam</i> (presentation) and <i>Uthayapagam</i> (denomination)	<p>1. Demonstration Lab: The teacher will demonstrate the normal and abnormal types of <i>Uthayam</i> (presentation) and <i>Uthayapagam</i> (denomination) to the students in the demonstration lab. Students will observe and record his/her log book.</p> <p>2. Puzzle The Teacher will instruct the students to identify the different types of <i>Uthayam</i> (Presentation) and <i>Uthayapagam</i> (Denomination).</p> <p>Total duration: 1hr</p>

### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 1.1	Enbu Koobagam (bony pelvis).	1. Demonstration Lab / Simulation

		<p>The teacher will demonstrate the Structure and dimensions of <i>Enbu Koobagam</i> (Bony pelvis) in demonstration lab or simulation. Students' will observe and record his/her log book.</p> <p>2. Making of charts Students are instructed to make a chart of different types of <i>Enbu Koobagam</i> related to <i>sool kalam</i> and <i>magaperu</i> (pregnancy and delivery).</p> <p>Total duration: 2 hrs</p>
NLHP 1.2	Diameters and sutures of <i>Magavu kabalam</i> (Fetal skull) related to <i>Magaperu</i> (Labour).	<p>1. Demonstration Lab: The teacher will demonstrate the sutures of the <i>Magavu kabalam</i> (Fetal skull) related to <i>magaperu</i> (labour). Students will observe and record her/his log book.</p> <p>2. Word puzzle Through a word puzzle, students are instructed by teacher to identify the features of fetal skull and its clinical importances.</p> <p>Total duration: 1hr</p>
NLHP 1.3	Cephalo pelvic relation to <i>Magavu kabalam</i> (Fetal skull) with <i>Enbu Koobagam</i> (Bony pelvis)	<p>1. Simulation The teacher demonstrates the adaptation mechanism between the <i>Magavu kabalam</i> (Fetal skull) and the <i>Enbu Koopagam</i> (Bony pelvis) in simulation lab. Students are observe and record his/her observations in a log book..</p> <p>2. Discussion The teacher will discuss with students related to adaptation mechanism between the <i>Magavu kabalam</i> (Fetal skull) and the <i>Enbu Koopagam</i> (Bony pelvis).</p> <p>Total duration: 1hr</p>
NLHP 1.4	Normal and abnormal <i>Uthayam</i> (Presentation) related to <i>Magaperu</i> (Abnormal labour)	<p>Common Standard Operating Procedure - (SOP) Self-introduce yourself to the patients, The Teacher and students will stand on the right side of the patient, and confirm patient data, one female attendee should accompany the patient during examination, follow sterile procedures during examinations, prepare necessary materials, collect</p>

		<p>concerns from the patient, record clinical examination finding in dairy and also informed to the patient, after examination, the used material should be disposed of properly.</p> <p>This common general SOP should be follow all clinical examinations.</p> <p>1. Demonstration lab The teacher will demonstrate the normal and abnormal <i>Uthayam</i> (Presentation) related to <i>Magaperu</i> (Abnormal labour) in demonstration lab. Students are observed and record his/her log book.</p> <p>2. Interactions Students are interacting about normal and abnormal <i>Uthayam</i>-related <i>Asaatharana magaperu</i> Total Duration: 2 hrs</p>
NLHP 1.5	Normal and abnormal <i>Uthayapagam</i> (Denomination) related to <i>Asaatharana Magaperu</i> (Abnormal labour).	<p>1. Simulation In the simulation lab, the teacher will demonstrate normal <i>Uthayapagam</i> (Denomination) and abnormal <i>uthayapagam</i> related to <i>Asaatharana Magaperu</i> (abnormal labour). Students are observed and record his/her observations in a log book</p> <p>2. Group discussion The teacher will discuss with students related to normal and abnormal <i>uthayapagam</i> (Denomination) related to <i>Asaatharana Magaperu</i> (abnormal labour). Total Duration: 2 hrs</p>
NLHP 1.6	Layers of <i>Vedabam</i> (Perineum) and <i>Vidapa kizhisal</i> (Episiotomy).	<p>1. Simulation lab The teacher will demonstrates the layers of <i>Vedabam</i> (Perineum) and <i>Vidapa kizhisal</i> (Episiotomy) in</p>

simulation lab, the students will observe and repeat the same.

2. Quiz

Students are divided into groups by teacher and conducted a quiz program for the layers of the perineum and *vidapakizhisal* (Episiotomy).

Total duration: 1 hr

**Topic 2 Iyalbana sool (Normal Pregnancy) (LH :10 NLHT: 9 NLHP: 16)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO4, CO6, CO7	Describe the process of <i>Karuurpathi</i> (Fertilization) in various aspects of Siddha literature.	CK	MK	KH	DIS,PL, L	Log book, M-MOD	F&S		V-NN1	LH
CO4, CO6, CO8	Discuss <i>Karuurpathi</i> in naveena Maruthuvam (fertilization in modern concepts), such as the approach and recognition of gametes, capacitation, acrosome reaction, sperm penetration and fusion.	CK	MK	KH	DIS,L& PPT	CL-PR,M- CHT	F&S		-	LH
CO4, CO6, CO7	Explain the <i>Karu puthaithal</i> (Implantation), <i>Maayai thotram</i> (Chorionic villi development), and early embryonic development from three germinal layers (Prelaminar germ disc development).	CK	MK	KH	L_VC,L S	CL-PR,M- CHT	F&S		-	LH
CO4, CO6,	Describe the information about the formation and function of <i>Thoppul kodi</i> (Umbilical cord) and <i>Panikudaneer</i>	CK	DK	KH	L,L&PP T	PUZ,M- CHT,T-CS	F&S		-	LH

CO7	<i>urpathi</i> (Amniotic fluid formation) and their clinical importance during <i>sool kalam</i> (Prenatal period).									
CO4, CO6, CO7	Summarize the anatomical changes, physiological changes, hormonal changes, and immunological changes in <i>Sool kaalam</i> (Maternal changes during pregnancy).	CE	MK	KH	DIS,L&PPT	M-CHT,PA,QZ	F&S		-	LH
CO4, CO6, CO8	Describe the <i>Yuga kurikunangal</i> , <i>Nambe thaguntha kurikunangal</i> and <i>Nichaya kurikunangal</i> (subjective, objective and confirmative signs and symptoms) of <i>Sool Kanippu</i> .	CK	MK	KH	PrBL,L&PPT	PUZ,T-CS	F&S		-	LH
CO4, CO6, CO7	Discuss the <i>Karpini tharkappu</i> (Prenatal care) includes various aspects such as health promotion, risk identification, disease prevention, and preparation for birth.	CK	MK	KH	L,L&GD	T-CS,PUZ	F&S		-	LH
CO6, CO7	Describe the potential complications of <i>Suga magaperu</i> (Normal labour) such as maternal complications, fetal complications, Labour-related complications, and postpartum complications.	CK	DK	KH	L&GD, L&PPT	T-CS,WP	F&S		-	LH
CO4, CO6, CO7	Explain the Siddha management including diet and medical advice during <i>Sool kaalam</i> (Prenatal period).	CK	DK	KH	DIS,L,B S	RK,QZ	F&S		-	LH
CO3, CO5	Discuss the <i>Karuthadai Muraigal</i> (contraceptive methods), such as Natural methods, Barrier methods, Hormonal methods, and intra-uterine devices, (Temporary and Permanent contraceptive methods).	CK	MK	KH	L&PPT,TPW,L	INT,M-MOD,QZ	F&S		-	LH
CO4, CO6	Discuss the <i>Thirumoolar</i> concept of <i>Karuurpathi</i> (Fertilization) from the Siddha perspective.	CK	MK	KH	DIS,BL	M-MOD,QZ	F&S		-	NLHT2.1
CO4, CO7	Discuss the male and female causative factors	CK	MK	KH	TPW,DI S,LRI	T-CS,Log book,CL-PR	F&S		-	NLHT2.2

	influencing <i>Karuurpathi</i> (Fertilization) according to the Siddha system.									
CO4, CO6, CO7	Describe the abnormal site of <i>Karu puthaithal</i> and <i>Maayai valarchi</i> (Fetal implantation and Placental development) and its complications.	CK	MK	KH	ML,TU T,DIS	INT,M- CHT, C-VC	F&S		-	NLHT2.3
CO4, CO7, CO8	Describe the abnormal formation and functions of <i>Thopulkodi</i> and <i>Panikudaneer</i> (Umbilical cord and Amniotic fluid)	CK	MK	KH	ML,FV, FC,SY	CL-PR, C- VC	F&S		-	NLHT2.4
CO1, CO4, CO7	Describe the maternal changes during <i>Sool kaalam</i> (pregnancy).	CK	MK	KH	CBL,LR I,FC	CL-PR,QZ , C-VC	F&S		-	NLHT2.5
CO4, CO5	Discuss the Naadi, Neerkuri, and Neikuri, laboratory investigations and evaluate the <i>Sool Kanippu</i> (Diagnosis of pregnancy).	CK	MK	KH	CBL,DI S	T-CS,Log book	F&S		-	NLHT2.6
CO4, CO6, CO7	Illustrate the various stages of <i>Karuurpathi</i> (Fertilization) according to the Siddha aspect.	CK	MK	SH	D-M,DI S,PL	M-CHT,P- MOD,INT	F&S		-	NLHP2.1
CO4, CO7, CO8	Discuss the various stages of <i>Karuurpathi</i> (Fertilization) according to the modern aspect.	PSY- GUD	MK	SH	LS,DIS, CBL	P-VIVA,M- CHT,INT	F&S		-	NLHP2.2
CO4, CO7	Discuss the <i>Karu puthithal</i> and <i>Maayai Valarchi</i> (Fetal implantation and Placental development) and their abnormalities.	CAP	MK	SH	PBL,CB L	C-VC,M- CHT,SBA	F&S		-	NLHP2.3
CO4, CO7	Discuss the importance of medical visits, diet, medical advice, Maternity Benefit Act 1961, and Maternity Amendment Act 2017	CK	MK	KH	PL,DIS	M-POS,QZ	F&S		-	NLHT2.7

	during <i>Sool kaalam</i> (Ante-natal period).									
CO4, CO7, CO8	Discuss the USG findings to assess the Amniotic Fluid Index [AFI].	CAP	MK	SH	DIS,LRI, CBL,D L	P- PRF,DOPS, C- VC,DOPS	F&S		-	NLHP2.4
CO4, CO6, CO7	Describe the anatomical and physiological changes in women during <i>Sool Kaalam</i> (Pregnancy)	CK	MK	SH	PL,CBL	CL-PR,P-V IVA,P- PRF,CBA	F&S		-	NLHP2.5
CO3, CO4, CO8	List out the confirmative signs of pregnancy, such as fetal heart sounds, visualization of the fetus, and fetal movements using an Ultra sonogram (USG).	CK	MK	SH	CBL,SI M,LRI, DL	O-QZ,INT	F&S		-	NLHP2.6
CO3, CO4, CO6	State the abdominal and pelvic grip examination during <i>Sool kaalam</i> (Ante-natal period).	CK	MK	SH	CBL,PE R	SP,DOPS,P- PRF	F&S		-	NLHP2.7
CO4, CO6, CO7	Explain the systemic maternal complications of <i>Sool kaalam</i> (Ante-natal period).	CK	MK	SH	CBL,DI S	PA,P-PRF	F&S		-	NLHP2.8
CO4, CO6, CO7	Elaborate and apply the administration of specific Siddha medicines, such as the <i>Magapperu Sanjeevi</i> medicine kit, during the <i>Sool kaalam</i> (Ante-natal period) and explain its importance.	CAP	MK	SH	PSM,Pr BL	P-PRF,RK	F&S		-	NLHP2.9
CO4, CO6, CO7	Describe the method of temporary <i>Karuthadai Murai</i> of Copper-T	CK	MK	SH	DIS,D- M,CBL	C-VC,PA	F&S		-	NLHP2.10

	insertion.									
CO4, CO6, CO7	Discuss the complications of mother during <i>Sool kaalam</i> (Pregnancy period).	CK	MK	KH	LS,PBL	M-POS, C-VC	F&S		-	NLHT2.8
CO4, CO6, CO7	Describe the advantages and disadvantages of natural, temporary, permanent, and recent types of <i>Karuthadai Muraigal</i> (Contraceptive methods).	CK	MK	KH	D-M,DIS	QZ ,T-OBT	F&S		-	NLHT2.9

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 2.1	<i>Thirumoolar</i> concept of <i>Karuurpathi</i> (Fertilization).	<p>1. Discussion The teacher will discuss with students related to <i>Thirumoolar</i> concept of <i>Karuurpathi</i> (Fertilization) in the Siddha system. Students will observe and record their log book.</p> <p>2. Quiz The teacher will give the outline of the topic like the <i>Thirumoolar</i> concept of <i>Karuurpathi</i> (Fertilization) in the Siddha system students will attend the quiz to get their scores at the end. Total Duration: 1 hour</p>
NLHT 2.2	Male and female causes influence the <i>Karuurpathi</i> (Fertilization) in the Siddha system.	<p>1. Theory case study The teacher will discuss with students the male and female factors influencing the <i>Karuurpathi</i> (Fertilization) in the Siddha system.</p> <p>2. Class presentations Students will be able to prepare and make a class presentation on the topic of male and female causes influencing the <i>Karuurpathi</i> (Fertilization) in the Siddha system. Total Duration: 1 hour</p>
NLHT 2.3	Abnormal site of <i>Karu puthithal</i> and <i>Maayai valarchi</i> (Fetal implantation and Placental	<p>1. Clinical case videos The teacher will interact with students about monitoring <i>Karu puthithal, and Maayai valarchi</i> (fetal</p>

	development)	implantation and placental development) in the abnormal site through Clinical case videos. 2. Making of charts Students will be instructed about preparing the charts for <i>Karu puthithal, and Maayai valarchi</i> (fetal implantation and placental development). Total Duration: 1 hour
NLHT 2.4	Abnormal formation and functions of <i>Thopulkodi</i> and <i>Panikudaneer</i> (umbilical cord and amniotic fluid)	1. Making of posters The teacher will discuss general maternal complications during <i>Sool kalam</i> (Pregnancy period) with the students. Students will be divided into small groups to discuss the topics and create posters on general maternal complications during <i>Sool kaalam</i> (Pregnancy period). 2. Discussion Students will be divided into small groups by the teacher to discuss General maternal complications during <i>Sool Kaalam</i> (Pregnancy period) and gain more knowledge about this topic. Total duration: 1hr
NLHT 2.5	Maternal changes during <i>Sool kaalam</i> (pregnancy).	1. Making of posters The teacher will discuss general maternal complications during <i>Sool kaalam</i> (Pregnancy period) with the students. Students will be divided into small groups to discuss the topics and create posters on general maternal complications during <i>Sool kalam</i> (Pregnancy period). 2. Discussion Students will be divided into small groups by the teacher to discuss General maternal complications during <i>Sool Kaalam</i> (Pregnancy period) and gain more knowledge about this topic. Total duration: 1hr
NLHT 2.6	Siddha and modern diagnostic methods of <i>Sool Kanippu</i> (Diagnosis of pregnancy).	1. Case-based learning The teacher will discuss with students the Siddha (Naadi, Neerkuri, and Neikuri), and laboratory investigations are used to evaluate the <i>Sool Kanippu</i> (Diagnosis of pregnancy) by Case-based learning. Students will understand and perform the same clinically. Duration: 1 hour

NLHT 2.7	Diet and medical advice, and Maternity Benefit Act 1961 and Maternity Amendment Act 2017 for <i>Sool kaalam</i> (Ante-natal period).	<p>1. Quiz The Teacher will conduct a Quiz program with students based on an outline of topics such as the importance of medical visits, diet, medical advice, the Maternity Benefit Act 1961, and the Maternity Amendment Act 2017, these legislation are important for the antenatal period in India as they provide provisions for maternity leave and workplace benefits to promote maternal health and well-being. Students will attend the quiz and receive the cores at the end.</p> <p>2. Making of posters Students are instructed to create posters on topics such as medicine, medical advice, diet, and the Maternity Benefit Act 1961 along with the Maternity Amendment Act 2017 for <i>Sool kaalam</i> (Ante-natal period). Total duration: 1 hour</p>
NLHT 2.8	Complications of mother during <i>Sool kaalam</i> (Pregnancy period).	<p>1. Making of posters The teacher will discuss general maternal complications during <i>Sool kalam</i> (Pregnancy period) with the students. Students will be divided into small groups to discuss the topics and create posters on general maternal complications during <i>Sool kaalam</i> (Pregnancy period).</p> <p>2. Discussion Students will be divided into small groups by the teacher to discuss General maternal complications during <i>Sool Kaalam</i> (Pregnancy period) and gain more knowledge about this topic. Total duration: 1hr</p>
NLHT 2.9	Advantages and disadvantages of <i>Kudumba kattuppattu Muraigal</i> (Contraceptive method).	<p>1. Making of posters The teacher will discuss general maternal complications during <i>Sool kalam</i> (Pregnancy period) with the students. Students will be divided into small groups to discuss the topics and create posters on general maternal complications during <i>Sool kaalam</i> (Pregnancy period).</p>

		<p>2. Discussion Students will be divided into small groups by the teacher to discuss General maternal complications during <i>Sool Kaalam</i> (Pregnancy period) and gain more knowledge about maternal complications during <i>Sool Kaalam</i> (Pregnancy period) Total duration: 1 hour</p>
<b>Non Lecture Hour Practical</b>		
<b>S.No</b>	<b>Name of Practical</b>	<b>Description of Practical Activity</b>
NLHP 2.1	Various stages of <i>Karuurpathi</i> (Fertilization) according to Siddha aspect.	<p>1. Practical Model The tyeacher will instruct to students make practical models related with Various stages of <i>Karuurpathi</i> (Fertilization) according to Siddha aspect.</p> <p>2. Discussion Students will be divided into groups by teacher and discuss the <i>karuurpathi</i> for the Siddha aspect. Students will observe and record their log book. Total duration: 2 hours</p>
NLHP 2.2	Various stages of <i>Karuurpathi</i> (Fertilization) according to modern aspects.	<p>1. Chart making The teacher will be instructed by students make chart related to various stages of <i>Karuurpathi</i> (Fertilization) according to modern aspects.</p> <p>2 Discussions The teacher will discuss with students will interact about fertilization according to modern aspects. The students will gain more knowledge about this topic. Total duration: 2 hours</p>
NLHP 2.3	<i>Karu puthaithal</i> and <i>Maayai Valarchi</i> (Fetal implantation and Placental development) and its	<p>1.Clinical video case The teacher will demonstrate the <i>Karu puthaithal</i> and <i>Maayai Valarchi</i> (Foetal implantation and</p>

	abnormalities.	Placental development) and its abnormalities, such as placenta praevia, and placental abruption through clinical videos. 2. Making of charts Students will be instructed to make a chart for <i>karu puthaithal</i> and <i>Maayai valarchi</i> . (Fetal implantation and Placental development) Total duration: 1 hour
NLHP 2.4	USG findings to assess the Amniotic Fluid Index [AFI].	1. Case-based learning The teacher will discuss the USG findings to assess the Amniotic Fluid Index [AFI]. Students were discussing on the normal AFI range, the range of <i>Kurai panineer and Athi panineer</i> (Oligohydramnios's, Polyhydramnios). To evaluation of pregnancy risk, fetal anomaly screening and its clinical importance. Duration: 1 hour
NLHP 2.5	Anatomical and physiological changes of the women during <i>Sool Kaalam</i> (Pregnancy).	1. Practical performance The teacher will describe the anatomical and physiological changes of the women during <i>Sool Kaalam</i> (Pregnancy). Students will follow the SOP of History taking, general examination, pelvic examination, haematological investigation, physiological changes. 2. Class Presentation Students will be instructed to students prepare recording anatomical and physiological changes of the women during <i>Sool Kaalam</i> (Pregnancy). Total duration: 2 hours
NLHP 2.6	Confirmative signs of <i>Sool kaalam</i> (pregnancy) are detected by Ultra sonogram (USG).	1. Interactions The teacher will demonstrate the confirmative signs such as fetal heart sounds, Visualization of the fetus, and fetal movements are detected by using an Ultra sonogram. Students will follow the SOP of

		<p>History taking, general examination, pelvic examination, fetal heart rate, positive pregnancy test, USG finding, and fetal movement for <i>Sool Kaalam</i> (Prenatal period).</p> <p>2. Case-based learning The teacher will discuss the confirmative signs of pregnancy, such as fetal heart sounds, visualization of the fetus, and fetal movements in case based learning. .</p> <p>Duration: 2 hours</p>
NLHP 2.7	Abdominal and pelvic grip examination of <i>Sool kaalam</i> (Ante-natal period)	<p>1. Practical performance The teacher will demonstrate abdominal and pelvic grip examination of the <i>Sool kaalam</i> (Ante-natal period). Students will be divided into groups and patients will be allotted. SOP will be followed for History taking, General examination, Pelvic examination, fundal height, and pelvic grip examinations.</p> <p>2. Simulated patients Students will be instructed to perform abdominal and pelvic grip examinations on simulated patients. Total duration: 2 hours</p>
NLHP 2.8	Systemic complications of <i>Sool kaalam</i> (Ante-natal period )	<p>1 Practical performance The teacher will demonstrate systemic maternal complications during <i>Sool kaalam</i> (Ante-natal period). Students will provide details on their assigned topics an of the topic and identify issues that could affect maternal health. Case presentations will be done by the students.</p> <p>2. Discussion Students will be separated into small groups to discuss topics such as systemic complications during <i>sool kaalam</i> (Antenatal period). Total duration: 2 hours</p>

NLHP 2.9	<i>Magapperu Sanjeevi</i> medicine kit administered during <i>Sool kaalam</i> (Ante natal period) and its importances.	<p>1. Making of posters The teacher will discuss general maternal complications during <i>Sool kalam</i> (Pregnancy period) with the students. Students will be divided into small groups to discuss the topics and create posters on general maternal complications during <i>Sool kalam</i> (Pregnancy period).</p> <p>2. Discussion Students will be divided into small groups by the teacher to discuss General maternal complications during <i>Sool Kaalam</i> (Pregnancy period) and gain more knowledge about maternal complications during <i>Sool Kaalam</i> (Pregnancy period)</p> <p>Total duration: 1hr</p>
NLHP 2.10	Copper-T insertion.	<p>1. Simulation The teacher will demonstrate copper-T insertion on simulated patients to help students gain clinical knowledge about copper-T- -insertion.</p> <p>2. Discussion Teacher will discuss with students about indication and contraindication of insertion of Copper-T into uterus.</p> <p>Total duration: 1 hour</p>

**Topic 3 Suga magapperu (Normal delivery) (LH :7 NLHT: 5 NLHP: 13)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO4, CO6, CO7	Describe the early signs and symptoms such as dropping, increased vaginal discharge, frequent urination, and regular uterine contraction of <i>Suga magapperu</i> (Normal Labour).	CK	DK	KH	PL,DL, L	QZ ,INT	F&S		-	LH
CO4, CO7	Describe the three stages of <i>Suga magapperu nadai</i> (Normal Labour) such as <i>karuppai kzhunthu virivadaithal</i> (cervical dilatation), <i>Magavu velithallal</i> (fetal expulsion), and <i>maayai</i>	CK	MK	KH	L_VC,D IS	QZ ,INT	F&S		-	LH

	<i>pirithal mattrum velithallal</i> (placental separation and expulsion).									
CO4	Describe the mechanisms which are essential for a successful process of <i>Suga magapperu</i> (Normal Labour).	CC	MK	KH	CBL,L &PPT	T-CS,INT	F&S		-	LH
CO4, CO7	Describe the <i>Suga magapperu sathanangal</i> (essential factors for normal labour) like <i>Sakthi, paathai, and prayani</i> (Power, Delivery passage, and Fetus).	CK	MK	KH	FC,L_V C	INT,PUZ	F&S		-	LH
CO4, CO7	Describe the <i>Suga magapperu nigazhchigal</i> (Mechanism of labour) such as <i>thalai sorugal</i> (engagement), <i>Magavu Iran gal</i> (fetal descent), <i>matrangal</i> (flexion), <i>ul suzharchi</i> (internal rotation), <i>neetal</i> (extension), <i>thirugal</i> (restitution), <i>veli suzharchi</i> (external rotation).	CK	MK	KH	DIS,FC, L_VC	QZ ,INT,T-CS	F&S		-	LH
CO4, CO6, CO7	Explain and discuss the Siddha pain management, positioning, and breathing techniques used during <i>Suga magapperu</i> (Normal Labour).	CC	NK	KH	L,IBL,G BL	QZ ,INT,PM	F&S		-	LH
CO4, CO7	Describe some potential complications like Maternal and fetal complications, and labour-related and post-partum complications of <i>Suga magapperu</i> (Normal Labour).	CK	DK	KH	L&PPT ,CBL,D L	RK,CL- PR,QZ	F&S		-	LH
CO4, CO6, CO7	Illustrate the cardiotocography (CTG) finding and monitors the fetal heart rate and different false and true labour pain evaluates.	CK	MK	KH	LRI,PE R,DIS	P-PRF,PRN	F&S		-	NLHT3.1
CO4, CO6, CO7	Discuss the causes and clinical features of the second stage of prolonged labour.	CC	MK	KH	CBL,DI S	INT,PRN	F&S		-	NLHT3.2
CO4, CO7	Discuss the different mechanisms also known as the cardinal movement of <i>Suga magapperu nigazhchigal</i> (Mechanism of	CK	MK	KH	TUT,SI M	CBA,INT	F&S		-	NLHT3.3

	labour).									
CO4, CO7	Describe the maternal and fetal factors which influence <i>Suga magapperu nadai</i> (stages of normal labour).	CK	MK	KH	BS,RP, SIM	O-GAME,T- CS	F&S		-	NLHT3.4
CO4, CO6, CO7	Discuss about the phases and pain management in labour.	CK	MK	KH	BS,CBL	PRN	F&S		-	NLHT3.5
CO4, CO7	Distinguish the clinical manifestations from pre phase to the true phase of <i>Suga magapperu nadai</i> (stages of normal labour).	CK	MK	SH	DIS,D- BED,C BL	P- PRF,DOPS	F&S		-	NLHP3.1
CO4, CO7	Elaborate the three stages of <i>Suga magapperu nadai</i> (stages of normal labour) such as <i>karuppai kazhunthu virivadaithal</i> (cervical dilatation), <i>Magavu velithallal</i> (fetal expulsion), <i>maayai pirithal mattrum velithallal</i> (placental separation and expulsion).	CAP	MK	SH	D,D-BE D,DIS	SP,P- PS,OSCE	F&S		-	NLHP3.2
CO4, CO7	Discuss the clinical manifestations in the <i>Suga magapperu nigazhchigal</i> (mechanism of labour).	CK	MK	SH	FV,PL, SIM	P-PRF,SP	F&S		-	NLHP3.3
CO4, CO7	Discuss the factors which affect mechanisms of <i>suga magapperu</i> (normal labour)	CAP	MK	SH	D-BED, DIS,FV	P-PRF,INT	F&S		-	NLHP3.4
CO4, CO6, CO7	Elaborate the third stage management of <i>Suga magapperu</i> (Normal delivery).	CK	MK	SH	DIS,D- BED	DOPS,PRN	F&S		-	NLHP3.5
CO4, CO6, CO7	Discuss the Siddha medicine, <i>Varma therapy (Patchy Nema Varmam)</i> , and positioning which reduces the need for medical interventions by supporting the natural processes of <i>Suga magapperu</i> (Normal delivery).	CK	MK	SH	DIS,D- BED,F V	P-PRF,P- PS	F&S		-	NLHP3.6
CO4,	Enlist the <i>Suga magapperu</i> (Normal delivery) related to <i>Sool</i>	CAN	MK	SH	FV,D-B	P-	F&S		-	NLHP3.7

CO7 | *poopu kugaranam* (post-partum complications).

ED,DIS

PS,DOAP

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 3.1	Labour pain is evaluated with cardiotocography (CTG) and monitors the fetal heart rate.	<ol style="list-style-type: none"><li>1. Discussion Students will discuss with teacher related to how the labour pain is evaluated with cardiotocography (CTG) and monitors the fetal heart rate.</li><li>2. Case presentation Students will be instructed by teacher to give case presentation related to Labour pain is evaluated with cardiotocography (CTG) and monitors the fetal heart rate.</li></ol> Total Duration: 1 hour
NLHT 3.2	Causes and clinical features of the second stage of prolonged labour.	<ol style="list-style-type: none"><li>1. Interactions: Students are instructed to participate in group discussions and interactions about the second stage of prolonged labour</li><li>2. Case-based learning Provide students with case based learning of the prolonged second stage of labour and ask them to analyze the causes and clinical features.</li></ol> Total Duration: 1 hours
NLHT 3.3	Mechanism of <i>Suga magapperu nigazhchigal</i> (Mechanism of labour)	<ol style="list-style-type: none"><li>1. Case-based assessment: Students are instructed to use models to demonstrate the cardinal movements of <i>Suga magapperu nigazhchigal</i> (Mechanism of labour) labour. Students can visualise the process and understand how each movement contributes to the birth process.</li><li>2. Interactions: Students are instructed to divide into groups and ask them to interact about the cardinal movements of <i>Suga magapperu</i> (mechanism of labour).</li></ol>

		Total Duration: 1 hour.
NLHT 3.4	Influencing factors of <i>Suga magapperu nadai</i> (stages of normal labour).	<p>1. Theory case study: The teacher will provide students with case studies of different pregnancies and ask them to analyze the maternal and fetal factors that influence the <i>Suga magapperu nadai</i> (stages of normal labour)</p> <p>2. Online game based assessment: Create a game that tests knowledge of the maternal and fetal factors that influence <i>Suga magapperu nadai</i> (stages of normal labour).</p> <p>Total Duration: 1 hour.</p>
NLHT 3.5	Phases of labour and pain management in labour.	<p>1. Scenario based learning The teacher will provide students with case scenario of laboring women who received different pain management options. Ask students to analyze the effectiveness of each option and discuss potential alternatives.</p> <p>2. Case-based learning The teacher will divide students into groups to discuss with phases of labour and pain management in labour. Students will observe and record their log book.</p> <p>Total Duration: 1 hour.</p>
<b>Non Lecture Hour Practical</b>		
<b>S.No</b>	<b>Name of Practical</b>	<b>Description of Practical Activity</b>
NLHP 3.1	Clinical manifestations of <i>Suga magapperu nadai</i> (stages of normal labour).	<p>1. Practical performance According to SOP, the teacher will demonstrate the clinical manifestations of pre-phase to the true phase of <i>Suga magapperu Nadai</i> (stages of normal Labour). Students will take a clinical history according to the standard operating procedures. Students will monitor the procedure and record their observations in their logbooks.</p> <p>Duration: 1hour</p>

NLHP 3.2	Three stages of <i>Suga magapperu nadai</i> (stages of normal labour).	<p>1. Demonstration Bedside / Simulation</p> <p>According to SOP, the teacher will demonstrate the three stages of <i>Suga magapperu nadai</i> (stages of normal labour) such as <i>karuppai kazhunthu virivadaithal</i> (cervical dilatation), <i>agave velithallal</i> (fetal expulsion), <i>maayai pirithal mattrum velithallal</i> (placental separation and expulsion) through bedside demonstration or simulation lab.</p> <p>Students will monitor the procedure and record their observations in their logbooks.</p> <p>Duration: 2 hours</p>
NLHP 3.3	Clinical manifestations in the <i>Suga magapperu nigazhchigal</i> (mechanism of labour).	<p>1. Case-based learning</p> <p>According to SOP, the teacher will discuss the clinical manifestations in <i>Suga magapperu nigazhchigal</i> (Mechanism of Labour) such as <i>thalai sorugal</i> (engagement), <i>Magavu Iran gal</i> (fetal descent), <i>madangal</i> (flexion), <i>ul suzharchi</i> (internal rotation), <i>neetal</i> (extension), <i>thirugal</i> (restitution), <i>veli suzharchi</i> (external rotation) through simulated patients.</p> <p>Students will monitor the clinical findings and record them in his/her log book.</p> <p>Duration: 2 hours</p>
NLHP 3.4	Factors that affect the mechanisms of <i>Suga magapperu</i> (Normal labour).	<p>1. Case presentation</p> <p>According to SOP, the teacher will describe the factors affecting the mechanisms of <i>Suga magapperu</i> (normal labour) through clinical videos.</p> <p>Students will observe the procedures and record their observations in his/her logbook.</p> <p>2. Discussion</p> <p>Students will interact with teacher regarding factors that affect the mechanisms of <i>Suga magapperu</i> (normal labour).</p> <p>Students will observe the procedures and record their observations in his/her logbook.</p>

		Duration: 2 hours
NLHP 3.5	Third stage management of <i>Suga magapperu</i> (Normal delivery).	<p>1. Demonstration Bedside</p> <p>According to SOP, the teacher will demonstrate the third stage of management of <i>Suga magapperu</i> (Normal Delivery). Students will be instructed to follow the SOP, which includes a general examination, abdominal examination of third stage management of <i>Suga magapperu</i> (Normal Delivery).</p> <p>Students will monitor the procedure and record it in his/her logbook</p> <p>Duration: 2 hours</p>
NLHP 3.6	Siddha management (both internal and external therapy) for <i>Suga magapperu</i> (Normal delivery).	<p>1. Practical performance</p> <p>According to SOP, the teacher will demonstrate the Siddha medicine, Varma therapy (Patchy Nema Varmam), and positioning techniques that reduce the need for medical interventions by supporting the natural processes of <i>Suga magapperu</i> (Normal Delivery) in the simulation lab with students.</p> <p>Students will monitor the procedure and record it in his/her log book.</p> <p>2. Discussion</p> <p>The teacher will discuss with students such as the Siddha medicine, <i>Varma therapy (Patchy Nema Varmam)</i>, and positioning which reduces the need for medical interventions during labour.</p> <p>Total duration: 2 hours</p>
NLHP 3.7	<i>Suga magapperu</i> (Normal delivery) related to <i>Sool poopu kugaranam</i> (post-partum complications).	<p>1. Demonstration Bedside</p> <p>According to SOP, the teacher will demonstrate the <i>Suga Magapperu</i> (Normal Delivery) related to <i>sool poopu kugaranam</i> (Postpartum Complications). Students will be instructed to take a history, conduct general examinations, and identify complications like PPH (Postpartum Haemorrhage), infections, episiotomy, perineal tears, and their clinical management for <i>Suga magapperu</i> (Normal Delivery).</p> <p>Students will monitor the procedure and record it in his/her logbook</p>

Duration: 2 hours

**Topic 4 Asaatharana magapperu (Abnormal labour) (LH :8 NLHT: 5 NLHP: 12)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO6, CO7	Define <i>Pinpedari udhayam</i> (Occipito posterior presentation) and describe the <i>Karanangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>magapperu nigazhchigal</i> (mechanism of labour), <i>sikalgal</i> (complications), and <i>parikara muraigal</i> (management) of <i>Pinpedari udhayam</i> (Occipito posterior presentation).	CK	MK	KH	L&PPT	QZ ,T-CS	F&S		-	LH
CO6, CO7	Define <i>Asaatharana magapperu</i> (abnormal labour) and elaborate the maternal causes, fetal causes, placental or umbilical cord issues, cervical factors, psychological factors, and iatrogenic causes for <i>Asaatharana magapperu</i> (Abnormal labour).	CK	MK	KH	L&GD, FC	T-CS,WP,C L-PR	F&S		-	LH
CO6, CO7	Define <i>Putta udhayam</i> (Breech presentation) and describe the <i>vagaigal</i> (types), <i>Karanangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>sikalgal</i> (risks and complications) and <i>parigaram muraigal</i> (management) of <i>Putta udhayam</i> (Breech presentation).	CK	MK	KH	L&GD, SY	T-CS,SBA, PUZ	F&S		-	LH

CO6, CO7	Distinguish between <i>Mugam mattrum Puruva udhayam</i> (Face and Brow presentation) and describe the <i>Karanangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>magapperu nigazhchigal</i> (mechanism of labour), <i>sikalgal</i> (complications) and <i>parikara muraigal</i> (management) of <i>Mugam mattrum Puruva udhayam</i> (Face and Brow presentation).	CK	DK	KH	L&PPT ,L_VC	M-POS	F&S		-	LH
CO6, CO7	Define <i>kurukku paduththal</i> (Transverse and oblique lie) and describe the <i>kaaranangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>magapperu nigazhchigal</i> (mechanism of labour), and <i>parikara muraigal</i> (management) of <i>Kurukku paduththal</i> (Transverse and oblique lie).	CK	MK	KH	BL,L,Pr BL	INT,COM, CL-PR	F&S		-	LH
CO6, CO7	Define <i>Irattai kuzhavi sool</i> (twin pregnancy) and discuss the causes including biological and genetic factors, environmental and lifestyle factors, and clinical manifestations for <i>Irattai kuzhavi sool</i> (twin pregnancy).	CK	MK	KH	DIS,L_ VC	CL-PR,QZ	F&S		-	LH
CO6, CO7	Describe the <i>noikanippu</i> (diagnosis), <i>sikkalgal</i> (complications), and <i>maruthuva parigaram</i> (management) of <i>Irattai kuzhavi sool</i> (Twin pregnancy).	CK	MK	KH	L&PPT ,PBL	QZ ,CL-PR	F&S		-	LH
CO6, CO7	Define - <i>Asaatharana magapperu</i> (Dystocia) and discuss its causes, types, diagnosis, risk factors, complications, and management.	CK	DK	KH	DIS,SI M,L&P PT	T-CS,M- POS	F&S		-	LH
CO6, CO7	Describe the abnormal mechanism of <i>Pinpedari Udhayam</i> (Occipito posterior position) and its complications.	CK	MK	KH	DIS,CD	T-CS,QZ	F&S		-	NLHT4.1
CO6, CO7	Discuss the management of <i>Putta udhayam</i> (Breech presentation)	CK	MK	KH	DIS,CB L	C-VC,T- CS	F&S		-	NLHT4.2

CO6, CO7	Discuss about the different fetal and maternal complications of <i>Muga udhayam</i> (Face presentation)	CC	MK	KH	TBL,DI S,FC	T-CS,M- CHT	F&S		-	NLHT4.3
CO6, CO7	Discuss the maternal and fetal complications of <i>Kurukku paduththal</i> (Transverse and oblique lie).	CK	MK	KH	DIS,ML	C-VC,INT, PUZ	F&S		-	NLHT4.4
CO6, CO7	Define conjoined twins and discuss the conjoined twins such as thoracopagus, omphalopagus, and craniopagus and their complications.	CK	MK	KH	PBL,M L	INT,T-CS	F&S		-	NLHT4.5
CO6, CO7	Discuss the clinical manifestations of <i>Pin pidari udhayam</i> (Occipito posterior position) through pelvic and vaginal examination.	PSY- GUD	MK	SH	D-M,D- BED,PS M	DOPS,OSC E,P-ID,INT	F&S		-	NLHP4.1
CO6, CO7	Describe the clinical manifestations of <i>Putta udhayam</i> (Breech presentation) through abdominal and pelvic examinations.	PSY- GUD	MK	SH	CD,SIM ,D-BED	SP,INT,DO PS	F&S		-	NLHP4.2
CO6, CO7	Describe and apply the diagnostic techniques and further evaluation of <i>Putta udhayam</i> (Breech presentation)	PSY- GUD	MK	SH	CD,SIM	DOAP,SP	F&S		-	NLHP4.3
CO6, CO7	Identify the signs for abdominal palpation, and vaginal examination of <i>Muga udhayam</i> (Face presentation)	PSY- GUD	MK	SH	CBL,SI M,D-M	P-PRF,OSC E,DOPS,D OPS	F&S		-	NLHP4.4
CO6, CO7	Describe the clinical manifestations, abdominal palpation, and vaginal examination of <i>Puruva udhayam</i> (Brow presentation) through pelvic and vaginal examination.	PSY- GUD	MK	SH	D-BED, DIS,SI M	OSCE,SP,D OAP,P-PR F,P-CASE	F&S		-	NLHP4.5
CO6, CO7	Demonstrate the abdominal and pelvic examination to assess the fetal lie to identify <i>Kurukku paduththal</i> (transverse and oblique lie).	PSY- GUD	MK	SH	D-BED, CBL	DOAP,P- PRF,OSCE	F&S		-	NLHP4.6
CO6,	Apply skills in physical examination for twin pregnancies,	PSY-	MK	SH	SIM,D	DOAP,P-	F&S		-	NLHP4.7

CO7	including uterine fundal height, fetal positioning, and abdominal palpation for <i>Irattai kuzhavi sool</i> (Twin pregnancy).	GUD				ID				
CO6, CO7	Describe the clinical manifestations of <i>Pin thangiya maayai</i> (Retained placenta) by manual and vaginal examination.	CK	MK	SH	SIM,DI S,D- BED	OSCE,P- PRF,SP	F&S		-	NLHP4.8

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 4.1	Discussion on <i>Pinpedari udhayam</i> (Occipito posterior position)	<p>1. Theory case study: The teacher will provide students with case studies of women with <i>Pinpedari udhayam</i> (Occipito posterior position) and ask them to analyse the complications and management options.</p> <p>2. Quiz: The teacher will conduct a quiz that tests asses students' knowledge about <i>Pinpedari udhayam</i> (Occipito posterior position) and its complications. Total Duration: 1 hour</p>
NLHT 4.2	Management of <i>Putta udhayam</i> (Breech presentation)	<p>1. Theory case study: The teacher will provide students with case studies of <i>Putta udhayam</i> (breech presentation) and ask them to analyze the management and its complications.</p> <p>2. Interaction The teacher will interact with students like management of <i>Putta udhayam</i> (Breech presentation). Students will observe and record their log book. Total Duration: 1 hour</p>
NLHT 4.3	Complications of <i>Muga udhayam</i> (Face presentation)	<p>1. Case-based learning The teacher will discuss about the different fetal and maternal complications of <i>Muga udhayam</i> (Face presentation). Students are observe and record their log book.</p> <p>2. Group Discussion:</p>

		Students are divided into groups to discuss the fetal and maternal complications of <i>Muga udhayam</i> (face presentation) Total Duration: 1 hour.
NLHT 4.4	Complications of <i>Kurukku paduththal</i> (Transverse and oblique lie)	1. Puzzles: The teacher will create a puzzle that tests the student's knowledge about the maternal and fetal complications of <i>Kurukku paduththal</i> (Transverse and oblique lie). 2. Interactions: The teacher will interact with students through create interactive diagrams illustrating the maternal and fetal complications of <i>Kurukku paduththal</i> (Transverse and oblique lie). Total Duration: 1 hour.
NLHT 4.5	Conjoined twins and their complications.	1. Theory case study: The teacher will provide students with case studies of conjoined twins such as thoracopagus, omphalopagus, and craniopagus's and their complications and ask the students to analyse surgical separation options for each case. 2. Interactions: The teacher will divide students into groups and ask them to discuss the conjoined twins such as thoracopagus, omphalopagus, and craniopagus, and their complications. Total Duration: 1 hour.

### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 4.1	Clinical manifestations of <i>Pin pidari udhayam</i> (Occipito posterior position).	1. Demonstration bed side According to SOP, the teacher will demonstrate clinical manifestations of the <i>pin pidari udhayam</i> (Occipito posterior position) through pelvic and Vaginal examination. A case history will be taken according to SOP per abdominal, and vaginal examination, prolonged labour duration will be

		<p>explained for identification of the <i>pin pidari udhayam</i> (Occipito posterior position).  Students will monitor the procedure and record it in his/her logbook  Duration: 2 hours</p>
NLHP 4.2	Clinical examinations of <i>Putta udhayam</i> (Breech presentation).	<p>1. Demonstration Bedside / Simulation  According to SOP, the teacher will demonstrate the clinical manifestations of <i>Putta udhayam</i> (Breech presentation) through abdominal and pelvic examinations and its management such as <i>Petti kaalam in</i> demonstration lab or Simulation. Case history will be taken by the students according to SOP per abdominal, vaginal examination, Leopold's Manoeuvres, frank breech or complete breech, footling breech, fetal position, prolonged labor, placental location, lack of fetal heart sounds, USG findings will be explained for identification of the <i>Putta udhayam</i> (Breech presentation)  Students will monitor the procedure and record it in his/her logbook  Duration: 2 hours.</p>
NLHP 4.3	Diagnostic techniques and evaluation of <i>Putta udhayam</i> (Breech presentation).	<p>1. Simulation lab  According to SOP, the teacher will demonstrate the clinical manifestations of <i>Putta udhayam</i> (Breech presentation) through abdominal and pelvic examinations, Imaging study, and further evaluation by pelvic, maternal, and fetal factors, gestational age and size, and maternal conditions that might complicate the delivery through simulation.  Students will monitor the procedure and record it in his/her logbook  Duration: 1 hour</p>
NLHP 4.4	Identification, abdominal palpation, and vaginal examination of <i>Muga udhayam</i> (Face presentation)	<p>1. Practical performance  According to SOP, the teacher will demonstrate the identification, abdominal palpation, and vaginal examination of <i>Muga udhayam</i> (Face presentation). A case history will be taken by students according to SOP per abdominal, vaginal examination, fundal height, and shape, palpating fetal parts, and fetal</p>

		<p>position, USG findings will be explained for identification of the <i>muga udhayam</i> (Face presentation)  Students will monitor the procedure and record it in his/her logbook.  Duration: 1 hour.</p>
NLHP 4.5	<p>Clinical manifestations of <i>Puruva udhayam</i> (Brow presentation).</p>	<p>1. Demonstration Bedside / Simulation  The teacher will demonstrate the clinical manifestations of <i>Puruva udhayam</i> in bed side demonstration or simulation. A case history will be taken by students according to SOP per abdominal, vaginal examination, fundal height, and shape, palpating fetal parts, fetal position, prolonged labour, and placental location will be explained for identification of the <i>Puruva udhayam</i> (Brow presentation)  Students will monitor the procedure and record it in his/her logbook  Duration: 1 hour.</p>
NLHP 4.6	<p>Abdominal and pelvic examination to assess the fetal lie and identify <i>Kurukku paduththal</i> (transverse and oblique lie).</p>	<p>1. Simulation  According to SOP, the teacher will demonstrate the <i>undhi and koobaga sothanai</i> (abdominal and pelvic examination) students are able to assess the fetal lie and identify <i>Kurukku paduththal</i> (transverse and oblique lie) in simulation.  2. Case presentation  History will be taken according to SOP per abdominal, pelvic examination, fundal height and shape, palpating fetal parts, and the fetal position will be explained for identification of the <i>Kurukku paduththal</i> (transverse and oblique lie).  Students will monitor the procedure and record it in his/her log book.  Total Duration: 2 hours</p>
NLHP 4.7	<p>Clinical examination and abdominal palpation for <i>Irattai kuzhavi sool</i> (Twin pregnancy).</p>	<p>1. Simulation  According to SOP, the teacher will demonstrate physical examination for twin pregnancies including fundal height, fetal positioning, and abdominal palpation for <i>Irattai kuzhavi sool</i> (Twin pregnancy).  Students are divided into groups and SOP will be followed for history taking, confirming the number of foetuses, two different fetal heartbeat monitoring, USG findings, and clinical management for</p>

		<p><i>Irattai kuzhavi sool</i> (Twin pregnancy). Students will monitor the procedure and record it in his/her logbook Duration: 2 hours</p>
NLHP 4.8	Clinical manifestations of <i>Pin thangiya maayai</i> (Retained placenta) by manual and vaginal examination.	<p>1. Demonstration bedside / Simulation The teacher will demonstrate clinical manifestations of <i>Pin thangiya maayai</i> (Retained placenta) in demonstration bed side or simulated patients. Students will be instructed to follow the SOP and take the general examination, pelvic and vaginal examination, identify post-partum haemorrhage (PPH), post-procedure monitoring, uterine massage, cord traction, medication and its clinical management for <i>pin thangiya maayai</i> (Retained placenta) Students will monitor the procedure and record it in his/her logbook. Duration: 1 hour</p>

**Topic 5 Asaatharana sool (Pathology of pregnancy) (LH :7 NLHT: 3 NLHP: 10)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO3, CO7	Describe the <i>Noi Karanangal</i> (causes), Risk factors, <i>kurikunangal</i> (clinical manifestations), <i>noi kanippu</i> (Diagnosis), and <i>parigaram</i> (treatment and management) of <i>Kurai Magaperu</i> (Preterm labour).	CK	NK	KH	FC,L&P PT	PUZ,INT	F&S		-	LH
CO3, CO7	Describe the <i>Noi karanangal</i> (causes) <i>kurikunangal</i> (clinical features) <i>sikalgal</i> (complications) and <i>parigara muraigal</i> (treatment and management) of <i>Pura karuppai sool</i> . (Ectopic pregnancy).	CK	MK	KH	L&PPT ,PBL,Pr BL	WP,M- CHT	F&S		-	LH
CO3, CO6,	Explain the Pathogenesis, Genetics, HCG Elevation, Neoplastic Potential clinical features, and <i>Parigara Muraigal</i> (management)	CK	MK	KH	DIS,L_ VC	WP,T-CS	F&S		-	LH

CO7	of <i>Neer Kumizhl Kalalai</i> (Hydatiform mole)									
CO3, CO7	Describe the <i>Noi karangal</i> , (causes) <i>kurikunangal</i> (Clinical features), <i>Sikalgal</i> (complications), and <i>Noi kanippu</i> ( <i>Diagnosis</i> ) of <i>Athi Pani Neer</i> and <i>Kurai Pani Neer</i> (Polyhydramnios's and Oligo hydroamniosis)	CK	DK	KH	DIS,L&PPT ,PBL	QZ ,INT	F&S		-	LH
CO3, CO7	Define <i>Karuchethaivu</i> (Abortion) and Describe its <i>Noi karanagal</i> , (causes) <i>vagaigal</i> (Types), <i>Kurikunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis) <i>noi kanippu vivatham</i> , (differential diagnosis) and <i>Parigara muraigal</i> (management) in <i>Karuchethaivu</i> (Abortion).	CK	MK	KH	CBL,L &PPT	T-CS,INT, QZ	F&S		-	LH
CO3, CO6, CO7	Distinguish between the of <i>Magaperu Mun Uthira Salai</i> (Ante-partum haemorrhage) and <i>Magaperu Pin Utherasalai</i> (Post-partum haemorrhage) like <i>Iyel</i> (definition), <i>noi karanagal</i> (causes), <i>kurikunangal</i> (clinical features), <i>vagaigal</i> (types), <i>noi kanippu</i> (diagnosis), and <i>Parigara muraigal</i> (management).	CK	MK	KH	IBL,L&PPT	M-CHT,INT, T-T-CS	F&S		-	LH
CO3, CO7	Describe the <i>Iyel</i> (definition), <i>noi karanagal</i> (causes), <i>kurikunangal</i> (clinical features), <i>vagaigal</i> (types), <i>noi kanippu</i> (diagnosis) and <i>Parigara muraigal</i> (management) of <i>Magaperu pin Uthira Salai</i> (Postpartum haemorrhage) and <i>Sakthiyatra karuppai</i> (Atonic uterus). .	CK	MK	KH	L&PPT ,LRI,Pr BL	Log book,PUZ	F&S		-	LH
CO3, CO7	Describe the <i>noi kanippu</i> (diagnosis), <i>sikalgal</i> (complications), and <i>Parikara muraigal</i> (management) of <i>Pura karuppai Sool</i> (Ectopic pregnancy).	CK	MK	KH	PBL,SI M,LRI	CL-PR,INT ,P-ID	F&S		-	NLHT5.1
CO3, CO6, CO8	Discuss the congenital anomalies associated with <i>Athi panineer</i> (Polyhydramnios's)	CK	MK	KH	TBL,DI S	QZ , C-VC,SBA	F&S		-	NLHT5.2

CO3, CO6, CO8	Discuss the ethical, moral, philosophical, and cultural considerations of <i>Karuchethaivu</i> . (Abortion).	CK	MK	KH	IBL,CB L	P-RP,DEB	F&S		-	NLHT5.3
CO3, CO7	Describe the clinical manifestations of <i>Kurai Magapperu</i> (Preterm delivery) through pelvic and vaginal examination.	CK	MK	SH	CBL,LR I,PBL	OSCE,P- PRF,P-RP	F&S		-	NLHP5.1
CO3, CO7	Differentiate the clinical manifestations of <i>Pura karuppai sool</i> (Ectopic pregnancy) through abdominal, pelvic, and vaginal examinations.	CAN	MK	SH	DIS,CB L	OSCE,P- PRF,INT	F&S		-	NLHP5.2
CO3, CO7	Describe the abdominal, pelvic, and vaginal examination interpret with the USG findings to assess the <i>Neer kumil kazhalai</i> (Hydatiform mole).	CK	MK	SH	LRI,DIS	P- PRF,DOAP	F&S		-	NLHP5.3
CO3, CO7	Define and describe the abdominal examination and interpret the findings with USG findings such as the amniotic fluid index (AFI) in correlation with <i>Athepanineer</i> (Polyhydramnios).	CAN	MK	SH	LRI,CB L	DOPS,RK	F&S		-	NLHP5.4
CO3, CO7	Distinguish the signs and symptoms, of abdominal, pelvic, and vaginal examinations of different types of <i>Karuchethaivu</i> (Abortion).	CAN	MK	SH	DIS	P-PRF,DO AP,OSCE	F&S		-	NLHP5.5
CO3, CO7	Define and describe the clinical manifestations of <i>Magaperu mun utherasalai</i> (Antepartum haemorrhage).	CK	MK	SH	D- M,DIS	M-CHT,P- PRF	F&S		-	NLHP5.6
CO3, CO7	Perform clinical demonstration of <i>Magaperu pin utherasalai</i> (Post-partum hemorrhage) and <i>Sakthiyatra karuppai</i> (Atonic uterus).	CAP	MK	SH	D-BED, DIS,CB L	SBA	F&S		-	NLHP5.7

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
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NLHT 5.1	<i>Noi kanippu</i> (diagnosis), <i>sikalgal</i> (complications), <i>Parikara muraigal</i> (management) of <i>Pura karuppai Sool</i> (Ectopic pregnancy).	<p>1. Class presentation Students will be instructed to prepare topics such as <i>noi kanippu</i> (diagnosis), <i>sikalgal</i> (complications), and <i>Parikara muraigal</i> (management) of <i>Pura karuppai Sool</i> (Ectopic pregnancy) and to present in the classroom.</p> <p>2. Lab report interpretation The teacher will interact with the student to the laboratory investigation and USG findings for <i>Pura Karuppai Sool</i> (Ectopic pregnancy)</p> <p>Total Duration: 1 hour</p>
NLHT 5.2	Congenital anomalies due to <i>Athi panineer</i> (Polyhydramnios).	<p>1. Quiz Students will be given the outline of the topic such as congenital anomalies due to <i>Athi panineer</i> (Polyhydramnios) to attend the quiz to get their scores at the end.</p> <p>2. Case-based learning The teacher will discuss with students related to congenital anomalies due to <i>Athi panineer</i> (Polyhydramnios) through a case study like symptoms, management of <i>Athi panineer</i> (Polyhydramnios).</p> <p>Total Duration: 1 hour</p>
NLHT 5.3	Ethical, moral, philosophical, and cultural considerations of <i>Karuchethaivu</i> (Abortion).	<p>1. Practical Roleplay Practical role-play will be given to the students, about how to differentiate and relate the different types of <i>Karuchethaivu</i> and its ethical, moral, philosophical, and cultural considerations.</p> <p>2. Debate Students will be sectioned into two teams, and discuss the different types, signs, and symptoms of <i>Karuchethaivu</i> (Abortion), also it includes MTP act ethical procedures, arguments, rebuttals, and also conducting a Q&amp;A session by teacher.</p> <p>Total Duration: 1hour</p>

<b>Non Lecture Hour Practical</b>		
<b>S.No</b>	<b>Name of Practical</b>	<b>Description of Practical Activity</b>
NLHP 5.1	Clinical manifestations of <i>Kurai Magapperu</i> (Preterm delivery).	<p>1. Practical performance The teacher will demonstrate the clinical manifestations of <i>Kurai Magapperu</i> (Preterm delivery) followed by students who will be advised to follow the SOP of vaginal and pelvic examination. Find out the diagnosis of the <i>Kurai magaperu</i> by the symptoms, physical signs like low birth weight, neonatal jaundice, and behavioural signs, laboratory investigation, and the management for <i>Kurai magaperu</i> (Preterm baby)</p> <p>Duration: 1 hour</p>
NLHP 5.2	Clinical examination of <i>Pura karuppai sool</i> (Ectopic pregnancy).	<p>1. Practical performance The teacher will demonstrate clinical manifestations of <i>Pura Karuppai Sool</i> (ectopic pregnancy) through abdominal, pelvic, and vaginal examinations. Students will be advised to follow the SOP of abdominal and pelvic examination to find out the diagnosis of <i>Pura Karuppai Sool</i> (Ectopic pregnancy).</p> <p>2. Interactions Students will interact about the topic like clinical examination of <i>Pura karuppai sool</i> (Ectopic pregnancy).</p> <p>Total Duration: 2 hours</p>
NLHP 5.3	Clinical manifestations of <i>Neer kumil kazhalai</i> (Hydatiform mole).	<p>1. Practical performance The teacher will demonstrate the abdominal, pelvic, and vaginal examinations and interpret them with the USG findings to assess the <i>Neer kumil kazhalai</i> (hydatid form mole). Students will be followed SOP for abdominal and vaginal examination symptoms like enlarged uterus, GTD (Gestational Trophoblastic neoplasia), and clinical management for <i>Neer kumil kazhalai</i> (hydatid form mole).</p> <p>2. Online Quiz</p>

		<p>Students will participate in an online quiz on the Clinical manifestations of <i>Neer kumil kazhalai</i> (Hydatid form mole) to get scores at the end.</p> <p>Total Duration: 1 hour</p>
NLHP 5.4	Clinical manifestations of <i>Athepanineer</i> (Polyhydramnios's)	<p>1. Case-based learning The teacher will discuss with students like the Clinical manifestations of <i>Athepanineer</i> (Polyhydramnios's) in type of case study with abdominal examination and interpret the USG findings such as amniotic fluid index (AFI) correlated with <i>Athepanineer</i> (Polyhydramnios).</p> <p>2. Lab report interpretation Students will discuss the clinical manifestations of <i>Athepanineer</i> (Polyhydramnios) including the USG scan report.</p> <p>Total Duration: 1 hour</p>
NLHP 5.5	Diagnosis of different types of <i>Karuchethaivu</i> (Abortion).	<p>1. Practical performance The teacher will demonstrate the sign and symptoms of abdominal, pelvic, and vaginal examinations of different types of <i>Karuchethaivu</i> (Abortion). Students will be advised to follow the SOP of General, pelvic and vaginal examination to find out the diagnosis of the topic, USG findings, differential diagnosis, and the management of <i>Karuchethaivu</i> (Abortion).</p> <p>2. Discussion Students discuss with the teacher about signs and symptoms, of abdominal, pelvic, and vaginal examinations of different types of <i>Karuchethaivu</i> (Abortion).</p> <p>Total Duration: 2 hours</p>
NLHP 5.6	Diagnosis of <i>Magaperu mun utherasalai</i> (Antepartum haemorrhage).	<p>1. Practical performance Students will be advised to follow the SOP of abdominal and pelvic examination to find out the clinical manifestations of <i>Magaperu mun utherasalai</i> (Antepartum haemorrhage).</p> <p>2. Case Diagnosis</p>

		Students will be trained to diagnose the <i>Magaperu mun utherasalai</i> (Antepartum haemorrhage). Total duration: 1 hour
NLHP 5.7	Clinical manifestations of <i>Magaperu pin utherasalai</i> (Post-partum haemorrhage) and <i>Sakthiyatra karuppai</i> (Atonic uterus).	1. Case scenario The teacher will give case scenario related to clinical manifestations of <i>Magaperu pin utherasalai</i> (Post-partum haemorrhage) and <i>Sakthiyatra karuppai</i> (Atonic uterus). Students will be able to find out the diagnosis and discuss with teacher. 2. Interactions After the demonstration students will interact with the teacher about the clinical manifestation of <i>Magaperu pin utherasalai</i> (Post-partum haemorrhage) and <i>Sakthiyatra karuppai</i> (Atonic uterus). Total duration: 2 hours

**Topic 6 Soolkaala pothu noigal (General diseases in pregnancy) (LH :11 NLHT: 7 NLHP: 15)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO4, CO6, CO7	Describe the <i>kaaranangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>noi kanippu</i> (diagnosis) and <i>Parigarangal</i> (management) of <i>Sool kaala Athi kuruthi azhuththam</i> (Gestational Hypertension).	CK	MK	KH	BL,CBL ,L&PPT	INT,QZ	F&S		-	LH
CO4, CO6, CO7	Define <i>Soolvali murkuri</i> (Pre-eclampsia) and Describe the <i>kaaranangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), Investigations, <i>sikalgal</i> (risks and complications) and <i>maruthuvam</i> (treatment) of <i>Soolvali murkuri</i> (Pre-eclampsia).	CK	MK	KH	PBL,L& GD	T-CS,QZ	F&S		-	LH

CO4, CO6, CO7	Define <i>sool valippu</i> (eclampsia) and explain in detail the <i>noi karanam</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>noi kanippu</i> (diagnosis), Investigations, and <i>Maruthuvam</i> (treatment and management) of <i>sool valippu</i> (Eclampsia).	CK	MK	KH	L&PPT ,BL	Log book, M- POS,PUZ	F&S		-	LH
CO4, CO6, CO7	Define <i>Sool kaala mathumega noi</i> (Gestational diabetes mellitus) and describe the <i>kaaranangal</i> (causes), <i>noi undaagum vitham</i> (etiopathogenesis), <i>kurikunangal</i> (signs and symptoms), <i>sikalgal</i> (complications), diagnosis and <i>maruthuvam</i> (treatment) of <i>Sool kaala mathumega noi</i> (Gestational diabetes mellitus).	CK	MK	KH	CD,L& GD	T-CS,WP	F&S		-	LH
CO4, CO6, CO7	Enumerate and detail about <i>Sool kaala pandu noi</i> (Gestational Anaemia) and describe the <i>kaaranangal</i> (causes), <i>noi undaagum vitham</i> (etiopathogenesis), <i>kurikunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis), <i>sikalgal</i> (complications) and <i>maruthuvam</i> (treatment) of <i>Sool kaala pandu noi</i> (Gestational Anaemia).	CK	MK	KH	L&PPT ,CBL	Log book,CL- PR	F&S		-	LH
CO4, CO6, CO7	Classify and describe the <i>kaaranangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>noi kanippu</i> (diagnosis), fetal complications, <i>thadupu muraigal</i> (prevention) and <i>parikara muraigal</i> (management) of <i>sool kaala Thotru noigal</i> (Maternal infectious diseases).	CK	MK	KH	TPW,L &GD,IB L	QZ ,T-CS	F&S		-	LH
CO4, CO6, CO7	Define Rh incompatibility and describe the pathogenesis of <i>Rh</i> Incompatibility and its complications, risk factors, prevention, and management of <i>Rh</i> Incompatibility in pregnancy.	CK	DK	KH	L&GD, CBL	PA,QZ ,CL- PR	F&S		-	LH
CO7, CO8	Explain National anaemia schemes such as Anaemia Mukh Bharat (AMB), National Iron Plus Initiative (NIPI), and WHO recommendations for <i>Sool kaala paandu noi</i> (Gestational Anaemia).	CC	NK	KH	L&GD, PrBL	QZ ,Log book,P- SUR	F&S		-	LH
CO4,	Define <i>Sool kaala Kurai Veethana kolarugal</i> (Gestational	CK	MK	KH	PL,L&	T-CS,QZ	F&S		-	LH

CO6, CO7	Hypothyroidism) and describe about the <i>kaaranangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>sikalgal</i> (complications) <i>noi kanippu</i> (diagnosis), and <i>parikara muraigal</i> (management) of <i>Sool kaala Kurai Veethana kolarugal</i> (Gestational Hypothyroidism).				GD,PrB L					
CO4, CO6, CO7	Define <i>Vida sool vaanthi</i> (Hyperemesis gravidarum) and describe about the <i>noi kaaranangal</i> (causes), <i>kurikunangal</i> (signs and symptoms), <i>noi kanippu</i> (diagnosis), prevention, <i>sikalgal</i> (complications) and <i>Parigarangal</i> (management) of <i>Vida sool vaanthi</i> (Hyperemesis gravidarum).	CK	MK	KH	L&PPT ,FC,PB L	T-OBT,WP	F&S		-	LH
CO4, CO6, CO7	Describe about the <i>gynaecological disorders which are influence the sool kaalam</i> (pregnancy) and <i>magapperu</i> (Labour).	CK	NK	KH	L,CBL	M- CHT,DEB	F&S		-	LH
CO6, CO7, CO8	Discuss about the maternal and fetal complications of <i>Sool valippu</i> (Eclampsia)	CK	MK	KH	PBL,DI S	T-CS,QZ	F&S		-	NLHT6.1
CO4, CO6, CO7	Discuss about the prevention and complications of <i>Sool kaala mathumega noi</i> (Gestational diabetes mellitus).	CK	MK	KH	DIS,PS M	T-CS,M- POS	F&S		-	NLHT6.2
CO4, CO7	Discuss about the maternal and fetal complications during pregnancy due to <i>Sool kaala paandu noi</i> (Gestational Anaemia)	CK	MK	KH	PBL,IB L	QZ ,M- CHT	F&S		-	NLHT6.3
CO4, CO7	Enlist the detail about the different types of <i>Sool kaala Thotru noigal</i> (Maternal infections) and their effects on pregnancy.	CK	MK	KH	GBL,C BL	QZ ,CR-W	F&S		-	NLHT6.4
CO4, CO7	Discuss about the importance of blood grouping in <i>Sool kaalam</i> (Pregnancy) and complications of Rh-Incompatibility	CK	MK	KH	TBL,IB L	M-CHT,T- CS	F&S		-	NLHT6.5
CO3, CO4	State the several factors which influence <i>Vida sool vaanthi</i> (Hyperemesis gravidarum) and its pathophysiology	CK	MK	KH	DIS,CD ,PL	INT,T-CS	F&S		-	NLHT6.6

CO7, CO8	Discuss the gynecological diseases that influence abortion during <i>sool kaalam</i> (pregnancy).	CK	MK	KH	DIS,PS M	DEB,PUZ	F&S		-	NLHT6.7
CO4, CO7	Explain the early detection and management of <i>sool kaala Athi kuruthi azhuththam</i> (Gestational hypertension).	CC	MK	SH	D,D-BE D,PBL	DOAP,P- SUR,RK	F&S		-	NLHP6.1
CO4, CO6, CO7	Describe the clinical manifestations of <i>Sool vali murkuri</i> (Pre-eclampsia).	CK	MK	SH	BL,D- BED	DOAP,OS CE,P-PRF	F&S		-	NLHP6.2
CO4, CO6, CO7	Describe the clinical assessment and management of <i>Sool valippu</i> (Eclampsia).	CC	MK	KH	DIS,D- BED	INT,P-PRF	F&S		-	NLHP6.3
CO4, CO6, CO8	Demonstrate the clinical assessment, complications, and management of <i>Sool kaala mathumegam</i> (Gestational diabetes)	PSY- GUD	MK	SH	LRI,D- BED,PB L	P- PRF,DOAP	F&S		-	NLHP6.4
CO4, CO7	Demonstrate the clinical features, maternal and fetal complications of <i>Sool kala Paandu noi</i> (Gestational Anaemia)	PSY- GUD	MK	KH	D-BED, DIS	P-PRF,P- CASE	F&S		-	NLHP6.5
CO4, CO6, CO7	Demonstration of maternal and fetal complications due to <i>Sool kaala Thotru noigal</i> (Maternal Infections during pregnancy)	PSY- GUD	MK	SH	D-BED, PBL	OSCE,P- PRF	F&S		-	NLHP6.6
CO4, CO6, CO7	Discuss the clinical features of Erythroblastosis foetalis and management of Rh incompatibility in pregnancy.	CAN	MK	SH	CBL,DI S,LRI	P-PS,DOA P,P-CASE	F&S		-	NLHP6.7
CO4, CO8	Discuss and apply the National schemes related to <i>Sool Kaalam</i> and State scheme such as <i>Magapperu Sanjeevi Petagam</i> for safe motherhood program.	CC	MK	KH	PSM,DI S	OSCE,INT, P-RP	F&S		-	NLHP6.8
CO4, CO6,	Demonstrate the clinical manifestations of <i>sool kaala kurai Veethana kolarugal</i> (Gestational hypothyroidism).	PSY- GUD	MK	SH	DIS,PS M	OSCE,RK	F&S		-	NLHP6.9

CO7										
CO4, CO6	Discuss the pathophysiology, signs and symptoms, and diagnosis of <i>Vida sool vaanthi</i> (Hyperemesis gravidarum).	CC	MK	KH	D-BED, LS,PSM	P-PRF,Mini- CEX	F&S		-	NLHP6.10
CO3, CO4, CO6	Discuss the Impact of gynaecological diseases which complicate <i>sool kaalam</i> (pregnancy) and <i>magapperu</i> (Labour), such as <i>Karuppai naar thasai kattigal</i> (Fibroid uterus), <i>Sinaippai kattigal</i> (Ovarian tumours), <i>Karuppai kazhunthu putru noi</i> (Carcinoma of cervix), and <i>magapperu</i> (Labour).	CC	MK	SH	CD,PBL ,SIM	SBA,P- CASE,P-ID	F&S		-	NLHP6.11

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 6.1	Complications of <i>Sool valippu</i> (Eclampsia).	<p>1. Theory case study: The teacher will provide students with case studies of eclampsia and ask them to analyze the maternal and fetal complications of <i>Sool valeppu</i> (Eclampsia).</p> <p>2. Quiz: The teacher will create interactive quizzes that test the student's knowledge about the maternal and fetal complications of <i>Sool valeppu</i> (Eclampsia).</p> <p>Total Duration: 1 hour</p>
NLHT 6.2	Complications and preventions of <i>Sool kaala mathumega noi</i> (Gestational diabetes mellitus).	<p>1. Theory case study: The teacher will provide students with case studies about the prevention and complications of <i>Sool kaala mathumega noi</i> (Gestational diabetes mellitus) and ask them to analyze the strategies.</p> <p>2. Group Discussion: The teacher will ask the students to divide into groups to discuss the prevention and complications of <i>Sool kaala mathumega noi</i> (Gestational diabetes mellitus).</p> <p>Total Duration: 1 hour.</p>

NLHT 6.3	Maternal and fetal complications due to <i>Sool kaala paandu noi</i> (Gestational Anaemia)	<p>1. Quiz: The teacher will create a quiz to test the student's knowledge about maternal and fetal complications during pregnancy due to <i>Sool kaala paandu noi</i> (Gestational Anaemia).</p> <p>2. Group Discussion: The teacher will ask the students to divide into groups to discuss the maternal and fetal complications during pregnancy due to <i>Sool kaala paandu noi</i> (Gestational Anaemia).</p> <p>Total Duration: 1 hour.</p>
NLHT 6.4	Different types of <i>Sool kaala Thotru noigal</i> (Maternal infections)	<p>1. Quiz The teacher will create a quiz to test the student's knowledge about the different types of <i>Sool kaala Thotru noigal</i> (Maternal infections) and their effects on pregnancy.</p> <p>2. Creativity writing: The teacher will ask the students to develop a prevention plan and an education brochure for different types of <i>Sool kaala Thotru noigal</i> (Maternal infections) and their effects on pregnancy</p> <p>Total Duration: 1 hour.</p>
NLHT 6.5	Importance of blood grouping in <i>Sool kaalam</i> (Pregnancy).	<p>1. Theory case study: The teacher will provide case studies of Rh incompatibility and ask them to analyze the complications and strategies.</p> <p>2. Making of charts: The teacher will ask the students to make charts related to blood grouping and complications of Rh incompatibility.</p> <p>Total Duration: 1 hour.</p>

NLHT 6.6	Factors that influence <i>Vida sool vaanthi</i> (Hyperemesis gravidarum) and its pathophysiology.	<p>1. Theory case study: The teacher will provide a case study to the student about the several factors that influence <i>Vida sool vaanthi</i> (Hyperemesis gravidarum) and its pathophysiology.</p> <p>2. Interactions: The teacher will divide the students into groups to discuss the several factors that influence <i>Vida sool vaanthi</i> (Hyperemesis gravidarum) and its pathophysiology.</p> <p>Total Duration: 1 hour</p>
NLHT 6.7	Gynecological diseases that influence abortion during <i>sool kaalam</i> (pregnancy).	<p>1. Debate: The teacher will divide the students into groups and make debate about the gynecological diseases which influence abortion during <i>sool kaalam</i> (pregnancy).</p> <p>2. Puzzles: The teacher will create a puzzle that tests the student's knowledge related to gynecological diseases that influence abortion during <i>sool kaalam</i> (pregnancy).</p> <p>Total Duration: 1 hour</p>

### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 6.1	Early detection and management of <i>sool kaala Athi kuruthi azhuththam</i> (Gestational hypertension)	<p>1. Demonstration Bedside According to Sthe OP, the teacher will demonstrate to the students, follow the SOP for the previous history of <i>Athi kuruthi azhuththam</i> (Hypertension) and its general examination, laboratory investigation, diet, medical advice, and management for <i>sool kaala Athi kuruthi azhuththam</i> (Gestational hypertension). Students will monitor the procedure record it in his/her log book and repeat the same.</p> <p>Duration: 2 hours</p>

NLHP 6.2	Clinical manifestations of <i>Sool vali murkuri</i> (Pre-eclampsia).	<p>1. Demonstration bedside</p> <p>According to SOP, the teacher will demonstrate to the students taking history of <i>Athi kuruthi azhutham</i> (Hypertension), related general examination, systemic examination, laboratory investigation, diet, medical advice, and management for <i>Sool vali murkuri</i> (Pre-eclampsia).</p> <p>Students will monitor the procedure record it in his/her log book and repeat the same.</p> <p>Duration: 1 hour</p>
NLHP 6.3	Clinical assessment and management of <i>Sool valippu</i> (Eclampsia).	<p>1. Demonstration Bedside</p> <p>According to SOP, the teacher will demonstrate to the students taking history of <i>Athi kuruthi azhutham</i> (Hypertension), albuminuria, edema in lower limbs, general examination, systemic examination, laboratory investigation, diet, medical advice and management of <i>Sool valippu</i> (Eclampsia).</p> <p>Students will monitor the procedure and record it in his/her logbook</p> <p>Duration: 1 hour</p>
NLHP 6.4	Clinical assessment and complications of <i>Sool kaala Mathumegam</i> (Gestational diabetes).	<p>1. Practical performance</p> <p>According to SOP, the teacher will demonstrate with the students for history taking, general examination for <i>Sool kaala Mathumegam</i> (Gestational diabetes) Students will monitor the procedure and record it in his/her logbook</p> <p>The teacher will demonstrate with the student laboratory investigations like GTT, OGCT, diet, medical advice, and its management for <i>sool kaala Mathumegam</i> (Gestational diabetes)</p> <p>Students will monitor the procedure and record it in his/her logbook</p> <p>Duration: 2 hours</p>
NLHP 6.5	Diagnosis and complications of <i>Sool kala paandu noi</i> (Gestational Anaemia).	<p>1. Demonstration Bed side</p> <p>According to SOP, teacher will demonstrate the students about history taking, general examination for <i>Sool kala paandu noi</i> (Gestational Anaemia)</p> <p>Students will monitor the procedure and record it in his/her log book</p>

		<p>According to SOP, teacher will demonstrate the students for systemic examination, laboratory investigations, diet and management for <i>Sool kala paandu noi</i> (Gestational Anaemia). Students will monitor the procedure and record it in his/her log book Duration: 2 hours</p>
NLHP 6.6	Clinical assessment of complications due to <i>Sool kaala Thotru noigal</i> (Maternal Infections during pregnancy).	<p>1. Case-based learning The teacher will discuss with student's related to clinical assessment of complications due to <i>Sool kaala Thotru noigal</i> (Maternal Infections during pregnancy) like examination, and laboratory investigation like TORCH infections, and other infections. Discuss with clinical manifestations of maternal and fetal complications due to <i>Sool kaala Thotru noigal</i> (Maternal Infections during pregnancy). Students will monitor the procedure and record it in his/her log book. Duration: 2 hours</p>
NLHP 6.7	Clinical features of Erythroblastosis foetalis and its management.	<p>1. Lab report interpretation According to SOP, the teacher will demonstrate with students for general examinations, laboratory investigations like blood group positive or negative, clinical features of Erythroblastosis fetal is, and management of <i>Rh</i> incompatibility in pregnancy. Students will monitor the procedure and record it in his/her logbook Duration: 1 hour</p>
NLHP 6.8	Clinical importance of state and central government schemes related to pregnancy.	<p>1. Practical role play According to the SOP, the teacher will demonstrate and discuss with students the National schemes related to <i>sool kaalam</i> (pregnancy) and state-ga schemes such as <i>Magapperu Sanjeevi Petagam</i> administrated for safe motherhood program. Students will observe and record it in his/her log book. Duration: 1 hour</p>

NLHP 6.9	Clinical management of <i>sool kaala kurai Veethana kolarugal</i> (Gestational hypothyroidism).	1. Demonstration bedside According to SOP, the teacher will demonstrate with the students history taking, thyroid gland examination, thyroid profile, and management for <i>sool kaala kurai Veethana kolarugal</i> (Gestational Hypothyroidism). Students will monitor the procedure and record it in his/her logbook Duration: 1 hour
NLHP 6.10	Pathophysiology, signs and symptoms, and diagnosis of <i>Vida sool vaanthi</i> (Hyperemesis gravidarum).	1. Demonstration Bedside According to SOP, the teacher will demonstrate to the student's pathophysiology, signs and symptoms, general examination, laboratory investigations, medical advice, and management for <i>Vida sool vaanthi</i> (Hyperemesis gravidarum). Students will monitor the procedure record it in his/her log book and repeat the same. Duration: 1 hour
NLHP 6.11	Impact of gynaecological diseases which complicate <i>sool kaalam</i> (pregnancy) and <i>magapperu</i> (labour).	1. Simulation According to SOP, the teacher will demonstrate to students for the impact of gynaecological diseases which complicate <i>sool kaalam</i> (pregnancy) and <i>magapperu</i> (labour), such as <i>karuppai naar thasai kattigal</i> (fibroid uterus), <i>sinaippai kattigal</i> (ovarian tumours), <i>karuppai kazhunthu putru noi</i> (carcinoma of the cervix), and <i>magapperu</i> (labour) through simulation. Students will monitor the procedure and record it in his/her log book. Duration: 1 hour

**Topic 7 Soolpoopu kalam (Puerperal period) (LH :6 NLHT: 4 NLHP: 10)**

<b>A3</b>	<b>B3</b>	<b>C3</b>	<b>D3</b>	<b>E3</b>	<b>F3</b>	<b>G3</b>	<b>H3</b>	<b>I3</b>	<b>J3</b>	<b>K3</b>
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CO4, CO7	Define <i>Abarenamam</i> (Involution) and explain the stages of uterine Involution, factors influencing Involution, and its signs and symptoms.	CK	MK	KH	L&PPT ,IBL,BL	INT,Log book,PUZ	F&S		-	LH
CO4, CO6, CO7	Describe the <i>Sool poopu sugarana nigazhchigal</i> (puerperium) such as urinary and gastrointestinal changes, cardiovascular changes, psychological changes, and post-partum bleeding.	CK	MK	KH	L&GD, FC	T-CS,WP	F&S		-	LH
CO4, CO6	Interpret the <i>Sool poopu paramarippu</i> and intervention of Siddha medications during <i>Sool Poopu Kaalam</i>	CK	DK	KH	TPW,L &GD,F C	WP,RK	F&S		-	LH
CO3, CO6, CO7	Explain the <i>noi kaaranangal</i> (causes), risk factors, <i>kurikunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis), <i>parigaram</i> (management) and prevention of <i>Sool poopu sanchara noi</i> (puerperal Infection).	CK	MK	KH	DIS,L& PPT ,FC	T-CS,WP	F&S		-	LH
CO3, CO4	Describe Newborn care after birth, including breastfeeding, routine monitoring, APGAR Score, neonatal reflexes, physical examination, and anthropometry of a <i>Suga Magavu</i> (Term baby).	CK	NK	KH	IBL,L& GD	T-CS,QZ	F&S		-	LH
CO3, CO7	Discuss the <i>kaaranangal</i> (causes), risk factors, <i>kurikunangal</i> (clinical features) <i>noi kanippu</i> (diagnosis), and <i>Parigara muraigal</i> (treatment) of <i>Sool poopu ula pirazhlvu noigal</i> (Puerperal psychosis)	CK	NK	KH	PBL,L& GD,PS M	WP,CL-PR	F&S		-	LH
CO4, CO6, CO7	Discuss the <i>kaaranangal</i> (causes), <i>kurikunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis), <i>paramarippu muraigal</i> (management) and prevention of <i>Asaatharana sool poopu kaalam</i> (Abnormal Involution)	CK	MK	KH	BL,DIS	PRN,SBA	F&S		-	NLHT7.1
CO4, CO6,	Discuss the importance of care of <i>Sool poopu sugaranam</i> (puerperal care) and the clinical features of an	CK	MK	KH	PL,PBL ,L&GD	QZ ,M-POS	F&S		-	NLHT7.2

CO7	abnormal puerperium.									
CO3, CO6, CO7	Classified the specific infections that cause <i>Sool poopu sanchara noigal</i> (Puerperal infection).	CK	MK	KH	FC,PBL	PA,INT	F&S		-	NLHT7.3
CO1, CO3	Describe the principles of Siddha puerperal care such as herbal medicines, oil massage, and diet, and rest, spiritual and emotional support.	CK	MK	KH	CBL,DI S	CHK,WP,I NT	F&S		-	NLHT7.4
CO4, CO6, CO7	Deplain the <i>Karuppai matrangal</i> (Uterus changes) in <i>Sool poopu kaalam</i> (Puerperal period).	CK	MK	SH	DIS,CB L,PSM	CBA,Log book	F&S		-	NLHP7.1
CO3, CO4, CO7	Demonstrate the systemic physiological changes in <i>Sool Poopu kaalam</i> (Post-partum period).	PSY- GUD	MK	SH	CBL,PS M	SBA,CBA	F&S		-	NLHP7.2
CO3, CO6, CO7	Elaborate the clinical manifestations of the <i>Sool poopu paramarippu</i> (Postpartum management)	CC	MK	SH	DIS,PS M	P-ID,QZ	F&S		-	NLHP7.3
CO3, CO6, CO7	Describe the clinical manifestations of <i>Sool poopu sanjchara noigal</i> (Puerperal sepsis)	CK	MK	SH	CBL,PB L	DOPS,P-R P,DOPS,M- CHT	F&S		-	NLHP7.4
CO3, CO7	Demonstrate the physical features and care of <i>Suga Magavu</i> (Term baby) and their development.	PSY- GUD	MK	SH	FC,DIS	PM,P-PRF	F&S		-	NLHP7.5
CO3, CO7	Demonstrate the clinical examination of <i>Sool poopu kaala ula pirazhivu noigal</i> (Puerperal psychosis)	PSY- GUD	MK	SH	PSM,PB L,DIS	P-PRF,OSC E,M-CHT	F&S		-	NLHP7.6

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
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NLHT 7.1	<i>Kaaranangal</i> (causes), <i>kurikunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis), and prevention of <i>Asaathool poopu kaalam</i> (Abnormal Involution).	<p>1. Discussion Students will discuss with teacher related to <i>kaaranangal</i> (causes), <i>kurikunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis), and prevention of <i>Asaathool poopu kaalam</i> (Abnormal Involution).</p> <p>2. Scenario-based assessment Students will give the outline of the topic such as <i>kaaranangal</i> (causes), <i>kurikunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis), <i>paramarippu muraigal</i> (management), and prevention for <i>Asaatharana sool poopu kaalam</i> (Abnormal Involution) to take part in scenario-based and marks will be given based on their performance.</p> <p>Total Duration: 1 hour</p>
NLHT 7.2	Clinical manifestations of abnormal puerperium.	<p>1. Quiz Students will be given the outline of the topic like the importance of care of <i>Sool poopu sugaranam</i> (puerperal care) and clinical features of abnormal puerperium, to attend the quiz to get their scores at the end.</p> <p>2. Discussions Students will be divided into small groups by the teacher and discuss the clinical features of abnormal puerperium to gain more knowledge about <i>Sool poopu sugaranam</i> (puerperium).</p> <p>Total Duration: 1 hour</p>
NLHT 7.3	Specific infections that cause <i>Sool pooppu sanjchara noigal</i> (Puerperal infection)	<p>1. Lab report interpretation Students will be given the outline of the topic such as specific infections that cause <i>Sool pooppu sanjchara noigal</i> (Puerperal infection) to go through and accompanied by Lab report Interpretations of <i>Sool pooppu sanjchara noigal</i> (Puerperal infection) cases.</p> <p>2. Interactions Students will interact with teacher about the Specific infections that cause <i>Sool pooppu sanjchara noigal</i> (Puerperal infection)</p> <p>Total Duration: 1 hour</p>

NLHT 7.4	Principles of Siddha puerperal care.	<p>1. Check list Students will be directed to the library for referring books according to topics like Siddha puerperal care such as herbal medicines, oil massage, and diet, and rest, spiritual and emotional support. And they are asked to list out the Siddha medicine, and presentation at the end.</p> <p>2. Word puzzle Students will split into groups, to play word puzzles on topics like Siddha puerperal care such as herbal medicines, oil massage, diet, rest, and spiritual and emotional support.</p> <p>Total Duration: 1 hour</p>
<b>Non Lecture Hour Practical</b>		
<b>S.No</b>	<b>Name of Practical</b>	<b>Description of Practical Activity</b>
NLHP 7.1	<i>Karuppai matrangal</i> (Uterus changes) during <i>Sool poopu kaalam</i> (Puerperal period)	<p>1. Case-based learning The teacher will discuss with students related to <i>Karuppai matrangal</i> (Uterus changes) in <i>Sool poopu kaalam</i> (Puerperal period) through case study. Students will observe and record their logbooks.</p> <p>2. Discussions Students will discuss with the teacher to related <i>karuppai matrangal</i> (Uterus changes) in <i>Sool poopu kaalam</i> (Puerperal period) and gain their knowledge.</p> <p>Total Duration: 2 hours</p>
NLHP 7.2	Systemic physiological changes in the <i>Sool Poopu kalam</i> (Post-partum period).	<p>1. Secnario based learning The teacher will discuss systemic physiological changes in the <i>Sool Poopu kalam</i>. (Post-partum period) in case secnario. Students will observe and record the observations and apply the knowledge in the corresponding clinical setting.</p> <p>Duration: 1 hour</p>
NLHP 7.3	Demonstrate the clinical manifestations of the	1. Practical identification

	<i>Sool poopu paramarippu</i> (Postpartum management)	The teacher will demonstrate the physiological and pathological clinical manifestations of the <i>Sool poopu paramarippu</i> (Postpartum management). Students will be advised to follow timely postpartum care, including regular assessments of vital signs, identifying complications early, and ensuring recovery during the puerperium. Duration: 1 hour
NLHP 7.4	Clinical manifestations of <i>Sool poopu sanjchara noigal</i> (Puerperal sepsis).	1. Practical Identification Students will be trained to identify the causative pathogen and explain the clinical manifestations of puerperal sepsis. 2. Discussion Students will be divided into small groups by teacher and discuss with clinical manifestations of <i>sool poopu sanjara noigal</i> (puerperal sepsis) Total duration: 2 hours
NLHP 7.5	Physical features and care of <i>Suga Magavu</i> (Term baby).	1. Practical performance The teacher will demonstrate the features and care of <i>Suga Magavu</i> [Term baby] and their development, students will observe and record their logbook. 2. Discussions: Students will discuss with the teacher how to handle the newborn baby and its management. Total Duration: 2 hours
NLHP 7.6	Clinical examination of <i>Sool poopu kaala ula pirazhlvu noigal</i> (Puerperal psychosis).	1. Practical performance The teacher will demonstrate the clinical examination for <i>Sool poopu kaala ula pirazhlvu noigal</i> (Puerperal Psychosis). Students will be instructed to follow the SOP of post-partum examination and do the examination after childbirth. Advice is given to the patient through counselling and medication. 2. Discussions Students will be divided into small groups by teacher and discuss with clinical examination of <i>Sool poopu kaala ula pirazhlvu noigal</i> (Puerperal psychosis) and gain more knowledge about <i>Sool poopu</i>

*kaala ula pirazhivu noigal* (Puerperal psychosis)

Total duration: 2 hours

Paper 2 (MAGALIR MARUTHUVAM)										
A3 Course outcome	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domain/sub	D3 MK / DK / NK	E3 Level	F3 T-L method	G3 Assessment	H3 Assessment Type	I3 Term	J3 Integration	K3 Type
<b>Topic 8 Inaperukka Udalkoorugal (Reproductive Anatomy) (LH :3 NLHT: 2 NLHP: 4)</b>										
A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, C02, C03	Describe in detail the structure, layers, blood supply, nerve supply, ligaments, and functions of <i>karuppai</i> (uterus).	CK	MK	K	L&PPT, D-M, PL	M-CHT, IN T, WP	F&S		V-UK	LH
CO1, C02, C03	Enumerate the <i>Udalkoorugal</i> of <i>Sinaippai</i> , <i>Sinaippathai</i> , <i>Yoni</i> , and <i>Koobaga tharai</i> (Anatomy of ovary, fallopian tube, vagina, and pelvic floor).	CK	MK	K	D-M, DIS, L&PPT	M-CHT, IN T, CL-PR	F&S		V-UK	LH
CO1, C02, C03	Explain the <i>Piravi Kuraipadugal</i> of <i>Magalir pirappu uruppugal</i> (congenital malformations of female genital organs). Enumerate the <i>noi varum vazhi</i> , <i>noi kurikunangal</i> , and <i>noi kanippu</i> (Aetiology, clinical features, and diagnosis) of Turner's syndrome and Klinefelter syndrome.	CK	DK	KH	L_VC, DIS, L&PPT	WP, O-QZ, M-CHT	F&S		-	LH
CO1, C02, C03	Define <i>Pin sarintha karuppai</i> (Retroverted Uterus) and describe its complications.	CK	MK	KH	LS, DIS, D-M	QZ, M-CHT, CL-PR	F&S		-	NLHT8.1

CO1, CO2, CO3, CO6	Explain the Yogasanas and Pranayama for strengthening Pelvic floor muscles.	CK	MK	KH	DIS,PBL	M-CHT,T-CS	F&S		-	NLHT8.2
CO3, CO6, CO7, CO8	State the clinical importance of <i>karuppai visigal</i> (Uterine ligaments) and their relations.	CK	MK	SH	D-BED, CBL, SIM	P-PRF,PRN,INT	F&S		-	NLHP8.1
CO1, CO2, CO3	Describe the anatomy, physiology, and clinical relevance of <i>Sinaippai and Sinaippathai</i> (ovary and fallopian Tube).	CK	MK	SH	X-Ray, SIM, D-M	P-PRF, P-EXAM, PRN	F&S		-	NLHP8.2
CO3, CO7, CO8	Demonstrate the deep and superficial layers of <i>Koobaga tharai</i> (pelvic floor), including palpation and digital examination and discuss pelvic floor dysfunctions with USG findings.	PSY-GUD	MK	SH	CBL, PBL	P-ID, CBA	F&S		-	NLHP8.3
CO3, CO7, CO8	Describe the clinical manifestations of <i>Piravi Kuraipadugal</i> (Congenital Malformations) of female genital organs.	CK	MK	SH	DIS, L_V, CBL	PRN, COM, C-VC	F&S		-	NLHP8.4

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 8.1	Complications of <i>Pin sarintha Karuppai</i> (Retroverted Uterus).	<p>1. Demonstration on model Students will explain the <i>Pin sarintha karuppai</i> (Retroverted uterus) and it's complications using a mannequin.</p> <p>2. Quiz Students will be divided into groups. A quiz will be conducted based on the topic such as complications of <i>Pin sarintha karuppai</i> (Retroverted uterus) to determine scores.</p> <p>Total duration: 1 hour.</p>

NLHT 8.2	Yogasanas and Pranayama for strengthening Pelvic floor muscles.	<p>1. Group discussion The teacher will discuss with students such as of Yogasanas and Pranayama for strengthening ow them and apply the pelvic floor muscles. Students are able to know and apply in clinical side.</p> <p>2. Making of charts Students will be divided into groups by teacher to create charts on name the Yogasanas and Pranayama for strengthening the pelvic floor muscles. Total duration: 1 hour.</p>
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### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 8.1	Clinical importance of <i>Karuppai visigal</i> (Uterine ligaments).	<p>1. Demonstration lab The teacher will explain the clinical aspects of <i>Karuppai visigal</i> (Uterine ligaments), including their anatomical attachments, functions, and clinical applications such as pelvic floor disorders, pelvic organ prolapse. Additionally, the stretching of these ligaments to accommodate the gravid uterus during pregnancy, which can cause pain and discomfort, will be discussed. Students will observe and record their log book. Duration: 1 hour.</p>
NLHP 8.2	Clinical relevance of <i>Sinaippai and Sinaippathai</i> (ovary and fallopian tube).	<p>1. Demonstration on Model The teacher will explain the location, structure through model and clinical , surgical applications of <i>sinaippai</i> (ovary), and the anatomy, clinical relevance of <i>sinaippathai</i> (fallopian tube).</p> <p>2. X-ray identification The teacher will explain the clinical applications of HSG (hysterosalpingography) imaging modalities of <i>sinaippathai</i> (fallopian tube) through X-ray identification. Total duration: 1 hour.</p>

NLHP 8.3	Layers of <i>Koobaga tharai</i> (Pelvic floor), and discuss the pelvic floor dysfunction.	<p>1. Case based learning The teacher will demonstrate the deep and superficial layers of <i>Koobaga tharai</i> (pelvic floor) including palpation and digital examination and discuss pelvic floor dysfunctions such as weakness (hypotonicity) and tightness (hypertonicity) by using mannequin, USG findings and Kegel exercises.</p> <p>2. Discussion The teacher will discuss with students on applied anatomy of deep and superficial layers of <i>Koobaga tharai</i> (pelvic floor). Students will observe and record their observation.</p> <p>Total duration: 1 hour</p>
NLHP 8.4	Clinical manifestations of <i>Piravi Kuraipadugal</i> (Congenital Malformations) of female genital organs	<p>1. Lecture with Video clips The teacher will describe the video clips related to the clinical manifestations of <i>Piravi Kuraipadugal</i> (congenital malformations) of female genital organs such as <i>karuppai</i>, <i>sinaippai</i>, <i>sinaippathai</i> and <i>yoni</i> (uterus, ovary, fallopian tube, and vagina).</p> <p>2. Discussion The teacher will discuss with students related to the clinical manifestations of <i>Piravi Kuraipadugal</i> (congenital malformations) of female genital organs such as <i>karuppai</i>, <i>sinaippai</i>, <i>sinaippathai</i> and <i>yoni</i> (uterus, ovary, fallopian tube, and vagina).</p> <p>Total duration: 1 hour.</p>

**Topic 9 Inaperukka Udalseyalial (Reproductive physiology) (LH :9 NLHT: 5 NLHP: 15)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, CO2, CO3	Explain in detail the HPO (Hypothalamic-Pituitary-Ovarian) axis, describe <i>Mun Suvali Surappugal</i> (anterior pituitary hormones), and their role in <i>Magalir Maruthuvam</i> (gynaecology).	CK	MK	KH	L&PPT, PL, FC	CL-PR, O-GAME, QZ	F&S		-	LH

CO1, C02, C03	Describe <i>Sinaippai surappu</i> (oestrogen) and <i>Peethaga surappu</i> (progesterone) and their roles in female reproduction.	CK	MK	KH	LS, L&PPT, BL	T-CS, WP, QZ	F&S		V-UT	LH
CO1, C02, C03	Enumerate the <i>Veethana surappu</i> (Thyroid hormones) and <i>Pirukoobari Surappu</i> (Adrenal hormones) and their roles in female reproduction.	CK	MK	KH	L&PPT, DIS	M-CHT, QZ	F&S		-	LH
CO1, C02, C03	Define <i>Muthal Poopu</i> (menarche), and discuss the factors influencing it from biological, social, psychological and evolutionary perspectives.	CK	MK	KH	L&PPT, DIS	M-POS, DEB	F&S		-	LH
CO1, C02, C03	Describe the biological, psychological, environmental and lifestyle impacts of <i>Poopu suzharchi nivalvugal</i> (phases of the menstrual cycle).	CK	MK	KH	L&PPT, TPW	DEB, CL-PR	F&S		-	LH
CO1, C02, C03	Explain the <i>noi varum vazhi</i> (causes), <i>noi kurikunangal</i> (clinical features) and <i>noi kanippu</i> (diagnosis) of <i>Thuritha Muthal Poopu</i> (Precocious puberty).	CK	DK	KH	DIS, L&GD	PA, QZ	F&S		-	LH
CO1, C02, C03, C06	Describe in detail the <i>kurikunangal</i> (clinical features), <i>Kadai poopu kala uruppu maruthalgal</i> (menopausal changes), and <i>noi kanippu</i> (diagnosis), along with <i>Siddha maruthuva parigaram</i> (Siddha treatment) of <i>Kadaipoopu kolarugal</i> (menopausal syndrome).	CK	MK	KH	L&PPT, CBL	CL-PR, WP	F&S		-	LH
CO1, C02, C03, C06	Illustrate the <i>Kadaipoopu pin noigal</i> (Post menopausal Diseases) along with its <i>kurigunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis) and <i>Siddha Maruthuvam</i> (Siddha Treatment).	CAN	MK	KH	L&PPT, DIS, CBL	QZ, S-LAQ, T-CS	F&S		-	LH
CO1, C02, C03, C06	Enumerate the chromosomal variations, hormonal influences, anatomical differences, ethical considerations, human rights issues, and psychological support related to intersex diseases.	CK	DK	KH	L&PPT, LS	QZ, WP	F&S		-	LH

O5										
CO1, C02, C03	Discuss in detail about the diseases associated with hyperestrogenism.	CK	MK	KH	PER,DIS	DEB,CL-PR	F&S		-	NLHT9.1
CO1, C02, C03	Describe the correlation between <i>Veethana surappu</i> (Thyroid hormones), <i>Pirukoobari surappu</i> (adrenal hormones) and <i>Poopusularchi</i> (menstrual cycle).	CK	MK	KH	IBL,DIS	M-CHT,DEB	F&S		-	NLHT9.2
CO1, C02, C03, C06	Discuss the <i>kaaranangal</i> (aetiology), risk factors, <i>noi kanippu</i> (diagnosis), <i>parikaram</i> (Treatment) and life style modifications of Premenstrual Dysphoric Disorder (PMDD).	CK	MK	KH	PSM,IBL,DIS	P-RP,QZ	F&S		-	NLHT9.3
CO1, C02, C03	Discuss the physical, psychological, and emotional complications, long term health risks, and management of <i>Thuritha muthal poopu</i> (precocious puberty).	CK	MK	KH	PBL,PL	DEB,QZ	F&S		-	NLHT9.4
CO1, C02, C03	Discuss the nutrition, diet, bone health, mental, emotional well-being, and regular health screenings after <i>Kadaipoopu kalam</i> (post-menopausal period).	CK	MK	KH	IBL,TPW	P-SUR,M-POS	F&S		-	NLHT9.5
CO1, C02, C03	Discuss the HPO (Hypothalamic-Pituitary-Ovarian) axis, particularly in addressing menstrual disorders, infertility, and hormonal imbalances.	CC	MK	SH	CBL,DIS,PBL	PRN, C-VC	F&S		-	NLHP9.1
CO1, C02, C03, C08	Interpret the clinical significance and diagnostic applications of FSH and LH hormones.	CAN	MK	SH	LRI,CBL	PRN,INT,L og book	F&S		-	NLHP9.2
CO1, C02, C03, C06	Enlist how <i>Sinaippai surappu</i> (oestrogen) and <i>Peethaga surappu</i> (progesterone), which are female sex hormones, play vital roles in reproductive health, menstruation, and pregnancy.	CAN	MK	SH	PBL,W,TBL	INT,CBA,PRN	F&S		-	NLHP9.3

O7										
CO1, CO2, CO3	Demonstrate the significant roles of <i>Veethana Surappu</i> (thyroid hormone) and <i>Pirukoobari surappu</i> (adrenal hormones) in regulating the menstrual cycle by influencing the balance of sex hormones and overall reproductive health.	PSY-GUD	MK	SH	LRI,DIS ,CBL	P-CASE,INT	F&S		-	NLHP9.4
CO1, CO2, CO3, CO7	Demonstrate the clinical manifestations of <i>Poopu suzharchi nigazhvugal</i> (phases of the menstrual cycle) and it's hygiene management.	PSY-GUD	MK	SH	EDU,PBL,D	PRN,QZ , C-VC	F&S		-	NLHP9.5
CO1, CO3, CO5	Discuss the impact of lifestyle changes on <i>Poopu suzharchi nigazhvugal</i> (phases of the menstrual cycle).	CC	MK	SH	PBL,DIS	P-CASE,P-PRF	F&S		-	NLHP9.6
CO1, CO3, CO8	Specify the diagnostic tools and clinical considerations of <i>Muthal poopu</i> (menarche).	CAN	MK	SH	CBL,SIM	P-PRF,P-CASE,SP	F&S		-	NLHP9.7
CO1, CO3, CO7, CO8	Discuss the clinical manifestations of <i>Thuritha muthal poopu</i> (Precocious puberty).	CC	MK	SH	CBL,DIS	C-VC,SBA ,INT	F&S		-	NLHP9.8
CO1, CO3, CO7, CO8	Discuss the stages, and clinical assessment of <i>Kadaipoopu</i> (Menopause).	CK	MK	SH	DIS,CBL	P-EXAM,SBA	F&S		-	NLHP9.9
CO1, CO3, CO7, CO8	Enumerate the clinical manifestations, and diagnosis of <i>Kadaipoopu pin noigal</i> (Post -menopausal diseases).	CK	MK	SH	CD,CBL,LRI	P-PRF,P-EXAM,SBA	F&S		-	NLHP9.10

CO3, CO7, CO8	Discuss the diagnostic evaluation and management of <i>Irupalina noigal</i> (Intersex diseases).	CK	MK	SH	DIS,CB L	CBA,INT	F&S		-	NLHP9.11
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### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 9.1	Diseases associated with hyperestrogenism.	<p>1. Presentation Students will be divided into groups by teacher with each group assigned a topic, such as diseases associated with hyperestrogenism. A discussion and presentation will follow at the end..</p> <p>2. Debate Students will be divided into groups by teacher and a debate will be conducted on diseases associated with hyperestrogenism. Total duration: 1 hour.</p>
NLHT 9.2	Correlation between thyroid hormones and adrenal hormones with the menstrual cycle.	<p>1. Debate Students will be given an outline of topics, such as the correlation between thyroid hormones, adrenal hormones related with menstrual cycle, and a debate will be held at the end of the lecture.</p> <p>2. Making of Charts Students will be divided into groups by teacher instruct to make charts on the correlation between thyroid hormones, adrenal hormones, and the menstrual cycle. Total duration: 1 hour.</p>
NLHT 9.3	Premenstrual Dysphoric Disorder (PMDD) and life style modifications.	<p>1. Quiz Students will be divided into groups to conduct a quiz program by teacher like the Premenstrual Dysphoric Disorder (PMDD), and life style modifications, and scores will be given at the end.</p> <p>2. Practical Role play The teacher will instruct to students will be divided into groups to perform role plays on the Premenstrual Dysphoric Disorder (PMDD), and life style modifications, and marks will be given based</p>

		on their performance. Total duration: 1 hour.
NLHT 9.4	Factors influencing and management of <i>Thuritha muthal poopu</i> (Precocious puberty).	<p>1. Quiz Students will be divided into groups by teacher and a quiz will be conducted based on the topic such as long term health risks and management of <i>Thuritha muthal poopu</i> (Precocious puberty) determine scores at the end.</p> <p>2. Debate Students will be divided into groups by teacher and a debate will be conducted on the topic like, long-term health risks and management of <i>Thuritha muthal poopu</i> (Precocious puberty). Total duration: 1 hour.</p>
NLHT 9.5	Health management after <i>Kadaipoopu kalam</i> (Post- Menopausal period).	<p>1. Practical Survey The teacher will instruct to students will be divided into groups, and the designed questionnaires on the topic such as health management after <i>Kadaipoopu kalam</i> (Post-Menopausal period) will be shared to collect data. After analysing the data, decision will be made.</p> <p>2. Making of Posters Students will be divided into groups to make posters on the health management after <i>Kadaipoopu kalam</i> (Post-Menopausal period), and followed by a presentation at the end. Total duration: 1 hour.</p>
<b>Non Lecture Hour Practical</b>		
<b>S.No</b>	<b>Name of Practical</b>	<b>Description of Practical Activity</b>
NLHP 9.1	Influences of the HPO (Hypothalamic-Pituitary-Ovarian) axis on menstrual disorders.	<p>1.Group discussion The teacher will discuss with students about the clinical conditions involving the HPO (Hypothalamic-</p>

		<p>Pituitary-Ovarian) axis to understand gynaecological diseases such as menstrual disorders, infertility and hormonal imbalances.</p> <p>Duration: 1 hour.</p>
NLHP 9.2	Clinical significance and diagnostic applications of FSH and LH hormones.	<p>1. lab report interpretations</p> <p>The teacher will explain the laboratory report interpretations, diagnostic applications, clinical significance of FSH and LH hormones such as Infertility, Menstrual disorders, and premature ovarian failure.</p> <p>Duration: 1 hour.</p>
NLHP 9.3	Functions of <i>Sinaippai surappu</i> (oestrogen), and <i>Peethaga surappu</i> (progesterone) in relation to reproductive health.	<p>1. Symposium</p> <p>A Symposium will be conducted on how <i>Sinaippai surappu</i> (oestrogen) and <i>Peethaga surappu</i> (progesterone), which are female sex hormones, play vital roles in reproductive health, menstruation, and pregnancy.</p> <p>2. Discussions</p> <p>Group discussions will be conducted by teacher regarding functions of <i>Sinaippai surappu</i> (oestrogen), and <i>Peethaga surappu</i> (progesterone) in relation to reproductive health menstruation, and pregnancy.</p> <p>Total duration: 1 hour.</p>
NLHP 9.4	Role of <i>Veethana surappu</i> (Thyroid hormone) and <i>Pirukoobari surappu</i> (adrenal hormones) in regulating the menstrual cycle.	<p>1. Case-based learning</p> <p>The teacher will demonstrate the significant roles of <i>Veethana surappu</i> (Thyroid hormone) and <i>Pirukoobari surappu</i> (Adrenal hormones) in regulating the menstrual cycle and the clinical manifestations of increased and decreased levels of these hormones.</p> <p>2. Discussion:</p> <p>Students will separate small groups by teacher and discuss the topic like role of <i>Veethana surappu</i> (Thyroid hormone) and <i>Pirukoobari surappu</i> (adrenal hormones) in regulating the menstrual</p>

		<p>cycle. Finally they have more knowledge about this topic.</p> <p>Total duration: 1 hour.</p>
NLHP 9.5	Clinical manifestations of <i>Poopu suzharchi nigazhvugal</i> (phases of menstrual cycle).	<p>1. Demonstration of video clips The teacher will demonstrate video clips of endometrial and ovarian changes during the <i>Poopu suzharchi nigazhvugal</i> (phases of the menstrual cycle). Students will observe and record their log book.</p> <p>2. Quiz The Teacher will conduct quiz program related to clinical manifestations of <i>Poopu suzharchi nigazhvugal</i> (phases of menstrual cycle) with students, finally the score will be recorded.</p> <p>Total duration: 1 hour.</p>
NLHP 9.6	The impact of lifestyle changes on <i>Poopu suzharchi nigazhvugal</i> (phases of the menstrual cycle).	<p>1. Discussions The teacher will discuss with students how lifestyle changes can impact <i>Poopu suzharchi nigazhvugal</i> (phases of the menstrual cycle).</p> <p>Duration: 1 hour</p>
NLHP 9.7	Diagnosis and clinical features of <i>Muthal poopu</i> (menarche).	<p>1. Case - Based learning - The teacher will specify the diagnostic tools and clinical considerations of <i>Muthal poopu</i> (menarche). Students will be divided into groups, and patients will be allotted. SOP will be followed for history taking and general examination for pubertal development.</p> <p>2. Simulation Students will be directed by teacher to simulation lab to demonstrate about clinical features of <i>Muthal poopu</i> (menarche).</p> <p>Total duration: 2 hours.</p>

NLHP 9.8	Clinical manifestations of <i>Thuritha muthal poopu</i> (Precocious puberty).	<p>1. Discussions The teacher will discuss with students about the clinical manifestations of <i>Thuritha muthal poopu</i> (Precocious puberty).</p> <p>2. Scenario based learning The teacher will give case scenario like Clinical manifestations of <i>Thuritha muthal poopu</i> (Precocious puberty). Students will observe and record their observations. Total duration: 2 hours.</p>
NLHP 9.9	Stages and clinical assessment of <i>Kadaipoopu</i> (Menopause).	<p>1. Scenario Based Assessment Students will be given a case scenario by teacher related to stages, and clinical assessment of <i>Kadaipoopu</i> (Menopause) to diagnose the disease, and final marks will be given based on their performance.</p> <p>2. Discussions Students will discuss with teacher the topic like stages, and clinical assessment of <i>Kadaipoopu</i> (Menopause). Thereafter, they will have more knowledge about <i>Kadaipoopu</i> (Menopause). Total duration: 2 hours.</p>
NLHP 9.10	Clinical manifestations and diagnosis, of <i>Kadaipoopu pin noigal</i> (Post-menopausal diseases).	<p>1. Scenario based Assessment Students will be given a case scenario by teacher related to clinical manifestations, and diagnosis of <i>Kadaipoopu pin noigal</i> (Post -menopausal diseases) to diagnose the disease, and final marks will be given based on their performance.</p> <p>2. Lab Report Interpretations The teacher will demonstrate the interpretations of Pap smear reports and BMD (Bone Mineral Density) reports on Osteoporosis in post-menopausal women. Total duration: 2 hours.</p>

NLHP 9.11	Diagnostic evaluation and management of <i>Irupalina noigal</i> (Intersex diseases).	<p>1. Discussions The teacher will discuss with students about the diagnostic evaluation, management of <i>Irupalina Noigal</i> (intersex diseases). Students are gain more knowledge about them.</p> <p>2. Case-based learning The teacher will give case study related to with students about diagnostic evaluation, management of <i>Irupalina Noigal</i> (intersex diseases). Students will observe and record their log book.</p> <p>Total duration: 1 hour</p>
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**Topic 10 Poopu suzharchi noigal (Menstrual disorders) (LH :5 NLHT: 4 NLHP: 6)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, CO2, C O3, C O6	Define <i>Soothaga thadai</i> (Amenorrhea). Describe its <i>noi varum vazhi, vagaigal, kurikunangal, noi kanippu</i> and <i>Siddha Maruthuva muraigal</i> (aetiology, types, clinical features, and diagnosis and Siddha treatment methods).	CK	MK	KH	L&PPT ,DIS	CL-PR,QZ	F&S		-	LH
CO1, CO2, C O3	Describe the <i>noi varum vazhi, vagaigal, kurikunangal, noi kanippu</i> , and <i>Siddha Maruthuva muraigal</i> of <i>Saatharana Perumpadu</i> (aetiology, types, symptoms, diagnosis, and Siddha Treatment of Abnormal uterine bleeding).	CK	MK	KH	DIS,L& PPT ,CBL	INT,DEB,C L-PR	F&S		-	LH
CO1, CO2, C O3, C O5, C O6, C O8	Describe the <i>noi varum vazhi, vagaigal, kurikunangal, noi kanippu</i> and <i>Maruthuva muraigal</i> of <i>Asaatharana Perumpadu</i> (aetiology, types, symptoms, diagnosis, and Treatment of Dysfunctional uterine bleeding).	CK	MK	KH	DIS,L& PPT ,CBL	INT,VV-Vi va,CL-PR	F&S		-	LH
CO1, CO2, C O3, C	Define <i>Poopu Murkurigal</i> (Premenstrual Syndrome). Classify the <i>Soothaga vali</i> (Dysmenorrhea), and describe its <i>noi varum vazhi, kurikunangal, noi kanippu muraigal</i> and <i>maruthuvam</i> .	CK	MK	KH	LS,L&P PT ,CBL	S-LAQ,CL- PR,M-POS	F&S		-	LH

O6	(Aetiology, clinical features, diagnostic methods and treatment).									
CO1, CO2,C O3,C O6	Describe the <i>noi kaaranangal</i> (aetiology), <i>noi kanippu</i> (diagnosis), and management of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding).	CK	MK	KH	L,DIS	RK,INT	F&S		-	LH
CO1, CO2,C O3	Illustrate the pathophysiology, <i>kurikunangal</i> (signs and symptoms) and <i>parikara muraigal</i> (Management) for <i>Poli soothaga thadai</i> (Cryptomenorrhea).	CAP	MK	KH	SIM,DI S	DEB,QZ	F&S		-	NLHT10.1
CO1, CO2,C O3	Discuss <i>Saatharana Perumpadu</i> (Abnormal Uterine Bleeding) based on the PALM-COEIN classification.	CK	MK	KH	DIS,BS	INT,O- QZ,CL-PR	F&S		-	NLHT10.2
CO1, CO2,C O3	Discuss the different theoretical perspectives of <i>Soothaga vali</i> (Dysmenorrhea).	CK	MK	KH	BS,DIS, FC	QZ ,M-POS	F&S		-	NLHT10.3
CO1, CO2,C O3,C O7	Enumerate the complications of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal Bleeding), and the screening methods for <i>Karuppai kazhunthu putrunoi</i> (Carcinoma of the Cervix).	CK	MK	KH	CBL,DI S	T-CS,O- QZ,INT	F&S		-	NLHT10.4
CO3, CO6, CO7, CO8	Describe the clinical manifestations of <i>Soothaga thadai</i> (Amenorrhea).	CC	MK	SH	KL,SIM, D-BED	SP,P-PRF	F&S		-	NLHP10.1
CO3, CO7, CO8	Describe the clinical manifestations and complications of <i>Perumpadu</i> (Menorrhagia).	CK	MK	SH	D-BED, PSM,C BL	P-PRF,Log book	F&S		-	NLHP10.2
CO3, CO6,	Explain the Siddha management of <i>Perumpadu</i> (Menorrhagia).	CC	MK	SH	PSM,C BL	P-PRF,INT	F&S		-	NLHP10.3

CO7, CO8										
CO3, CO6, CO7, CO8	Summarize the diagnostic evaluation and external therapy management of <i>Soothaga vali</i> (Dysmenorrhea).	CC	MK	SH	CBL,D- BED,K L	PRN,P-EX AM,P-PRF	F&S		-	NLHP10.4
CO3, CO7, CO8	State the clinical manifestations of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding).	CC	MK	SH	CBL,DI S	P-PRF,P-E XAM,PRN	F&S		-	NLHP10.5

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 10.1	Pathophysiology and <i>aruvai maruthuva muraigal</i> (Surgical interventions) for <i>Poli soothaga thadai</i> (Cryptomenorrhea).	<p>1. Debate Students will be divided into groups to conduct a debate on the pathophysiology and <i>aruvai maruthuva muraigal</i> (Surgical interventions) for <i>Poli soothaga thadai</i> (Cryptomenorrhea).</p> <p>2. Simulation The teacher will demonstrate to students related to <i>pathophysiology</i>, and <i>parikara muraigal</i> (Management) for <i>Poli soothaga thadai</i> (Cryptomenorrhea). Students will observe and record their log book. Total duration: 1 hour.</p>
NLHT 10.2	<i>Saatharana Perumpadu</i> (Abnormal Uterine Bleeding) based on the PALM-COEIN classification.	<p>1. Online Quiz Students will participate in an online quiz on the topic such as <i>Saatharana Perumpadu</i> (Abnormal Uterine Bleeding) based on the PALM-COEIN classification system to get scores at the end.</p> <p>2. Class presentation Students will be given an outline of the <i>Saatharana Perumpadu</i> (Abnormal Uterine Bleeding) based on the PALM-COEIN classification system. To review, followed by a participatory discussion, and finally a presentation at the end of the session</p>

		Total duration: 1 hour.
NLHT 10.3	Theoretical perspectives of <i>Soothaga vali</i> (Dysmenorrhea).	<p>1. Quiz Students will be divided into groups to conduct a Quiz on the <i>Soothaga vali</i> (Dysmenorrhea) and receive scores at the end.</p> <p>2. Making of Posters Students will be divided into groups to make posters on the topic like <i>Soothaga vali</i> (Dysmenorrhea).</p> <p>Total duration: 1 hour.</p>
NLHT 10.4	Complications of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding), and the screening methods for <i>Karuppai kazhunthu putru noi</i> (Carcinoma of the Cervix).	<p>1. Theory case study The teacher will discuss with students will discuss with complications of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding), and the screening methods for <i>Karuppai kazhunthu putru noi</i> (Carcinoma of the Cervix) through theory case study. Students will observe and record their log book.</p> <p>2. Online Quiz Students will participate in an online quiz on the complications of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding), and the screening methods for <i>Karuppai kazhunthu putru noi</i> (Carcinoma of the Cervix). And receive scores at the end.</p> <p>Total duration: 1 hour.</p>

**Non Lecture Hour Practical**

S.No	Name of Practical	Description of Practical Activity
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NLHP 10.1	Clinical manifestations of <i>Soothaga thadai</i> (Amenorrhea).	<p>1. Demonstration Bedside The teacher will explain the clinical manifestations of <i>Soothaga thadai</i> (Amenorrhea). Then, students will be divided into groups, and patients will be allotted. The SOP will be followed for history taking, general examination, abdominal examination, pelvic examination, PV examination, and clinical management for <i>Soothaga thadai</i> (Amenorrhea).</p> <p>2. Simulation Students will be directed to the simulation lab, then the teacher will demonstrate the Clinical manifestations of <i>soothaga thadai</i> (Amenorrhea). Total duration: 2 hours.</p>
NLHP 10.2	Clinical manifestations and complications of <i>Perumpadu</i> (Menorrhagia).	<p>1. Bedside demonstration The teacher will enlist the clinical manifestations, and complications of <i>Perumpadu</i> (Menorrhagia). Students will be divided into groups, and allowed to discuss about the history taking, general examination, abdominal examination, and pelvic examination of <i>Perumpadu</i> (Menorrhagia).</p> <p>2. Log book Students will observe and record the clinical manifestations and complications of <i>Perumpadu</i> (Menorrhagia) in their log book. Total duration: 1 hour.</p>
NLHP 10.3	Siddha management of <i>Perumpadu</i> (Menorrhagia).	<p>1. Case Based learning The teacher will explain the Siddha management of <i>Perumpadu</i> (Menorrhagia) to students, including herbal remedies, Siddha external and internal Medicines, dietary guidelines, lifestyle modifications.</p> <p>2. Interactions After demonstration students will interact with the teacher about Siddha management of <i>Perumpadu</i> (Menorrhagia). Total duration: 1 hour.</p>
NLHP 10.4	Diagnostic evaluation and external therapy management of <i>Soothaga vali</i> (Dysmenorrhea)	<p>1. Case- Based learning The teacher will explain the diagnostic evaluation and external therapy management of <i>Soothaga</i></p>

		<p><i>Vali</i> (Dysmenorrhea) to students, including history taking, general examination, abdominal examination, investigations, hot water fomentation, abdominal massage, and <i>Varmam</i> therapy.</p> <p>2. Log book</p> <p>Students will observe the diagnostic evaluation and external therapy management of <i>Soothaga vali</i> (Dysmenorrhea) and record in their log book.</p> <p>Total duration: 1 hour.</p>
NLHP 10.5	Clinical manifestations of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding).	<p>1. Case - Based learning</p> <p>The teacher will elaborate the clinical manifestations of <i>Kadaipoopu Pin utherasalai</i> (Postmenopausal bleeding). Students will be divided into groups, and allowed to discuss the SOP and procedure for history taking, general examination, abdominal examination, pelvic examination, and PV examination to diagnose Postmenopausal bleeding.</p> <p>2. Discussion:</p> <p>Students will discuss with the topic like clinical manifestations of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding) with teacher to gain more knowledge to the topic.</p> <p>Total duration: 1 hr.</p>

**Topic 11 Mageparinmai (Infertility) (LH :7 NLHT: 5 NLHP: 12)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, C02, C03	Classify and describe <i>Magaperinmai</i> (infertility) according to various Siddha concepts.	CK	MK	KH	PBL,L	INT,M-CH T,CL-PR	F&S		-	LH
CO1, C02, C03	Explain in detail the pre-testicular, testicular, and post-testicular causes (aetiology) of <i>Aan Magaperinmai</i> (male infertility).	CK	MK	KH	PBL,L& PPT ,PL	QZ ,CL-PR	F&S		-	LH
CO1,	Illustrate in detail the investigation, <i>Siddha</i>	CK	MK	KH	DIS,L&	QZ ,CL-PR	F&S		-	LH

C02,C O3,C O8	<i>maruthuvam</i> (Siddha Treatment), and medical advice for <i>Aan Magaperinmai</i> (male infertility).				PPT					
CO1, C02,C O3,C O6	Illustrate in detail ovulatory dysfunction, tubal factors, uterine abnormalities, endocrine disorders, and age-related factors in <i>Pen Magaperinmai</i> (female infertility).	CK	MK	KH	DIS,L& PPT	O-GAME, CL-PR	F&S		-	LH
CO1, C02,C O3,C O6	Enumerate the investigation, <i>maruthuvam</i> (treatment), and medical advice for <i>Pen Magaperinmai</i> (female infertility).	CK	MK	KH	PBL,L& PPT ,LRI	CL-PR,T- CS	F&S		-	LH
CO1, C02,C O3,C O5	Discuss the ethical guidelines for IVF procedures, sperm donation, donor eggs, surrogacy, cryopreservation, prenatal diagnosis, and screening.	CK	MK	KH	ML,L& GD	CL-PR,INT	F&S		-	LH
CO1, C02,C O3	Describe Assisted Reproduction Techniques (ART) such as IUI, GIFT, ZIFT, IVF, ICSI and Surrogacy.	CK	DK	KH	L_VC,D IS	WP,INT	F&S		-	LH
CO1, C02,C O3	Discuss the emotional support and counselling for <i>Magaperinmai</i> (Infertility).	CK	MK	KH	SDL,TB L,PBL, ML	INT,P- RP,QZ	F&S		-	NLHT11.1
CO1, C02,C O3	Discuss the diet and life style modifications in the management of <i>Aan Magaperinmai</i> (Male Infertility).	CK	MK	KH	DIS,PE R	INT,P-RP	F&S		-	NLHT11.2
CO1, C02,C	Enumerate the importance of hormonal assays along with AMH in <i>Pen Magaperinmai</i> (female infertility).	CK	MK	KH	LRI	M- CHT,QZ	F&S		-	NLHT11.3

O3										
CO1, CO2,C O3	Discuss in detail about Semen analysis.	CK	MK	KH	LRI,DIS	WP,INT	F&S		-	NLHT11.4
CO1, CO2,C O3	Discuss in detail about unexplained infertility and the management of ART.	CK	MK	KH	CBL,PS M	PM,INT	F&S		-	NLHT11.5
CO3, CO7, CO8	Specify the diagnostic approaches of <i>Pen Magaperinmai</i> (female infertility).	CAN	MK	SH	PSM,C D	P-ID,PM	F&S		-	NLHP11.1
CO3, CO7, CO8	Explain the clinical manifestations of <i>Aan Magaperinmai</i> (Male Infertility).	CC	MK	SH	LRI,CB L	P-PRF,P- CASE	F&S		-	NLHP11.2
CO3, CO7, CO8	Describe the clinical manifestations of <i>Pen Magaperinmai</i> (female Infertility).	CC	MK	SH	PER,CB L	P-PRF,PRN	F&S		-	NLHP11.3
CO3, CO6, CO7, CO8	Elaborate the siddha medical management of <i>Aan Magaperinmai</i> (Male Infertility).	CAP	MK	SH	W,CBL	P-PS,PRN	F&S		-	NLHP11.4
CO3, CO6, CO7, CO8	Explain the Siddha medical management of <i>Pen Magaperinmai</i> (female Infertility).	CC	MK	SH	CBL,TP W	P-PRF,P- CASE	F&S		-	NLHP11.5
CO3, CO7	Elaborate the videos of Assisted Reproduction Techniques like IUI, IVF, and ICSI.	CAN	MK	SH	PBL,D	P-ID, C-VC	F&S		-	NLHP11.6

<b>Non Lecture Hour Theory</b>		
<b>S.No</b>	<b>Name of Activity</b>	<b>Description of Theory Activity</b>
NLHT 11.1	Emotional support and counselling for <i>Magaperinmai</i> (Infertility).	<p>1. Practical Role play The teacher will instruct to students will be divided into groups to conduct practical role plays on the topic such as emotional support and counselling for <i>Magaperinmai</i> (Infertility).</p> <p>2. Quiz Students will be divided into groups by teacher to conduct a quiz on the topic like emotional support and counselling for <i>Magaperinmai</i> (Infertility).</p> <p>Total duration: 1 hour.</p>
NLHT 11.2	Diet and life style modifications in the management of <i>Aan Magaperinmai</i> (Male Infertility).	<p>1. Presentation Students will be given an outline of the topic such as diet and life style modifications in the management of <i>Aan Magaperinmai</i> (Male Infertility). To review, followed by a participatory discussion, and finally a presentation at the end of the session.</p> <p>2. Practical Role play Students will be divided into groups to take part in a role plays on the diet and life style modifications in the management of <i>Aan Magaperinmai</i> (Male Infertility), Marks will be given based on their performance.</p> <p>Total duration: 1 hour.</p>
NLHT 11.3	Hormonal assays along with AMH in <i>Pen Magaperinmai</i> (female Infertility).	<p>1. Lab report Interpretations Students will be given an outline of the importance of hormonal assays along with AMH in <i>Pen Magaperinmai</i> (female Infertility). To review, accompanied by lab report interpretations of female infertility cases.</p> <p>2. Making of charts Students will be divided into groups to make charts based on the importance of hormonal assays</p>

		along with AMH in <i>Pen Magaperinmai</i> (female Infertility) Total duration: 1 hour.
NLHT 11.4	Interpretations of Semen analysis.	1. Lab report Interpretations The teacher will instruct to students will be given an outline of the interpretations of Semen analysis. To review, accompanied by lab report interpretations of semen analysis. 2. Discussion Discussions will be conducted by teacher with the students on research articles based on the interpretations of Semen Analysis. Total duration: 1 hour.
NLHT 11.5	Unexplained infertility and management of ART.	1. Patient management problem The teacher will discuss with students related to unexplained infertility and management of ART. Students are gain more knowledge about unexplained infertility. 2. Case-based learning The teacher will discuss with students like case study of unexplained infertility and management of ART. Students will observe and record their log book. Total duration: 1 hour
<b>Non Lecture Hour Practical</b>		
<b>S.No</b>	<b>Name of Practical</b>	<b>Description of Practical Activity</b>
NLHP 11.1	Diagnostic approaches of <i>Pen Magaperinmai</i> (female infertility).	1. Case diagnosis The teacher will demonstrate the diagnostic approaches for <i>Pen Magaperinmai</i> (female infertility). Students will be given an outline of the topic, followed by a participatory discussion, and diagnose <i>Pen Magaperinmai</i> (female infertility) with the specific causes. 2. Problem solving method The teacher will discuss with students related to diagnostic approaches of <i>Pen Magaperinmai</i> (female infertility) such as history taking, general examination, pelvic examination followed by diagnostic

		<p>approaches of <i>Pen Magaperinmai</i> ( female infertility). Students will observe and record their observations.</p> <p>Total duration: 2 hours.</p>
NLHP 11.2	Clinical manifestations of <i>Aan Magaperinmai</i> (Male Infertility).	<p>1. Case - Based Learning The teacher will explain the clinical approach for <i>Aan Magaperinmai</i> (male infertility). Students will be divided into groups, and patients will be allotted. The SOP will be followed for history taking, general examination, abdominal examination, scrotal examination and investigations for male infertility.</p> <p>2. USG report and Lab report interpretations The teacher will show the Scrotal Ultrasound findings such as varicocele, semen analysis, hormone levels, and Post-ejaculation urine analysis report interpretations.</p> <p>Total duration: 2 hours.</p>
NLHP 11.3	Clinical manifestations of <i>Pen Magaperinmai</i> (female Infertility).	<p>1. Case - Based Learning The teacher will enlist the clinical manifestations of <i>Pen Magaperinmai</i> (female infertility). Students will be divided into groups, and patients will be allotted. The SOP will be followed for history taking, general examination, abdominal examination, pelvic examination, and P/V examination for female infertility.</p> <p>2. Presentation Students will take part in a presentation to gain knowledge on the clinical manifestations of <i>Pen Magaperinmai</i> (female Infertility).</p> <p>Total duration: 2 hours.</p>
NLHP 11.4	Siddha medical management of <i>Aan Magaperinmai</i> (Male Infertility).	<p>1. Presentation The teacher will discuss the siddha medical management of <i>Aan Magaperinmai</i> (Male Infertility). Students will be given an outline of the topic to review, followed by a participatory discussion, and finally, a presentation at the end of the session.</p>

		<p>2. Workshop</p> <p>The teacher will instruct the students to participate in a workshop to gain knowledge on siddha medical management of <i>Aan Magaperinmai</i> (Male Infertility).</p> <p>Total duration: 2 hours.</p>
NLHP 11.5	Siddha medical management of <i>Pen Magaperinmai</i> (female Infertility).	<p>1. Case - Based Learning</p> <p>The teacher will discuss the Siddha medical management of <i>Pen Magaperinmai</i> (Female Infertility). Students will be divided into groups. The SOP will be followed for history taking, general examination, abdominal examination, pelvic examination, P/V examination, and Siddha medical management for <i>Pen Magaperinmai</i> (female Infertility).</p> <p>2. Team project work</p> <p>The teacher will instruct to students will be divided into team, should discuss various kinds of siddha medical management of <i>Pen Magaperinmai</i> (female Infertility).</p> <p>Total duration: 2 hours.</p>
NLHP 11.6	Video demonstration of assisted reproduction techniques like IUI, IVF, ICSI.	<p>1. Clinical video cases</p> <p>The teacher will explain the videos of Assisted Reproduction Techniques like IUI, IVF, and ICSI. Students will observe and record given the details of ART to review, accompanied by participatory discussion.</p> <p>2. Practical Identification</p> <p>Students will be trained to understand the clinical applications of equipment / instruments used in ART and its procedures.</p> <p>Total duration: 2 hours.</p>

**Topic 12 Sinaippai noigal (Ovarian disorders) (LH :10 NLHT: 5 NLHP: 14)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, C02,C	Describe in detail the <i>noi kaaranangal</i> , <i>noi kurikunangal</i> , and <i>Maruthuvam</i> of <i>Sinaippai katti</i> (aetiology, clinical features,	CK	MK	KH	DIS,L&PPT	INT,QZ	F&S		-	LH

O3,C O6	and treatment of Simple ovarian cyst).									
CO1, C02,C O3,C O6	Discuss in detail the <i>noi kaaranangal, noi kurikunangal, vangaigal</i> and <i>Maruthuvam</i> of <i>Sinaippai kazhalaigal</i> (aetiology, clinical features, types and treatment of benign ovarian tumours and cystadenomas).	CK	MK	KH	L_VC,D IS	INT,PUZ,D EB	F&S		-	LH
CO1, C02,C O3,C O6	Interpret the <i>noi kaaranangal</i> (causes), pathophysiology, <i>noi kurikunangal, sikalgal</i> and <i>maruthuvam</i> (clinical features, complications, and Siddha Treatment) of <i>Sinaippai Neerkatti</i> (Poly Cystic Ovarian Disease).	CK	MK	KH	DIS,L& PPT ,RP	T-CS,M- POS,O-QZ	F&S		-	LH
CO1, C02,C O3,C O6	Illustrate the <i>noi varum vazhi, noi kurikunangal, noi kanippu,</i> and <i>maruthuvam</i> (causes, clinical features, diagnosis and Treatment) of <i>Sinaippai piravi katti</i> (Dermoid cyst).	CAN	DK	KH	PBL,L& PPT	CL-PR,M- CHT	F&S		-	LH
CO1, C02,C O3,C O6	Illustrate the <i>noi varum vazhi, noi kurikunangal, noi kanippu</i> and <i>Siddha Maruthuvam</i> of <i>Sinaippai kuruthi katti</i> (aetiology, clinical features, diagnosis and Siddha treatment of Chocolate cyst of Ovary) with <i>Soothaga sane</i> (Endometriosis).	CK	MK	KH	DIS,L& PPT ,PL	S-LAQ,T- CS,QZ	F&S		-	LH
CO1, C02,C O3,C O6	Interpret the <i>noi kaaranangal, noi kurikunangal, noi kanippu and Siddha Maruthuva muraigal</i> (aetiology, clinical features, and diagnosis and Siddha treatment methods) of <i>Sinaippai seyelpaadu kuraivu</i> (Ovarian Insufficiency).	CAN	NK	KH	DIS,L& PPT ,PBL	PM,CL- PR,WP	F&S		-	LH
CO1, C02,C O3,C O6	Describe in detail the <i>noi varum vazhi, noi kurikunangal, noi kanippu,</i> and <i>parigaram</i> of <i>Sinaippai thirugal</i> (aetiology, clinical features, diagnosis and management of ovarian torsion).	CK	DK	KH	L,DIS,P SM	Log book, WP,T-CS	F&S		-	LH

CO1, C02,C O3,C O6	Discuss in detail the <i>noi kaaranangal, noi kurikunangal, noi kanippu and Parigara muraigal</i> of <i>Thuritha Sinaippai seyalzhappu</i> (aetiology, clinical features, diagnosis and management of premature ovarian failure).	CK	NK	KH	PSM,DI S,L&PP T	T-CS,DEB, QZ	F&S		-	LH
CO1, C02,C O3,C O6	Describe in detail the <i>kaaranangal, kurikunangal, sikalgal</i> and <i>Parigara muraigal</i> of <i>Sinaippai thunduthal noi</i> (aetiology, clinical features, risk factors, and management of Ovarian Hyper Stimulation Syndrome -OHSS).	CK	NK	KH	ML,L& PPT ,DIS	M- CHT,DEB	F&S		-	LH
CO1, C02,C O3,C O6	Interpret the <i>kaaranangal, (causes)</i> pathogenesis, <i>vagaigal, (types) kurikunangal, (clinical features) noi kanippu, (investigations)</i> and <i>Siddha Maruthuva muraigal</i> (treatment) of <i>Sinaippai putru noi (Carcinoma of Ovary)</i>	CAN	NK	KH	L&PPT ,TPW,P BL,DIS	CL-PR,O- QZ	F&S		-	LH
CO1, C02,C O3,C O6	Discuss the role of life style modifications in <i>Sinaippai Neerkatti</i> (PCOD).	CK	MK	KH	DIS,FC	QZ ,P-PRF	F&S		-	NLHT12.1
CO1, C02,C O3	Discuss in detail the various theories and common sites of Endometriosis.	CK	MK	KH	LS,DIS	DEB,M- CHT	F&S		-	NLHT12.2
CO1, C02,C O3	Discuss in detail the complications of <i>Thuritha sinaippai seyalzhappu</i> (Premature ovarian failure).	CK	MK	KH	PBL,IB L	WP,P-RP	F&S		-	NLHT12.3
CO1, C02,C O3	Discuss the clinical importance of tumour markers in the diagnosis of gynaecological cancers.	CK	MK	KH	DIS,ML	M-CHT,O- QZ	F&S		-	NLHT12.4
CO1, C02,C	Describe in detail the <i>maruthuva muraigal</i> (Treatment methods) for premalignant and borderline ovarian tumours.	CK	MK	KH	DIS,CB L	CBA,CL- PR	F&S		-	NLHT12.5

O3,C O6										
CO3, CO6, CO7, CO8	Discuss the clinical manifestations of <i>sinaippai katti</i> (simple ovarian cyst).	CC	MK	SH	CBL,TB L,KL	PRN,P- PS,P-PRF	F&S		-	NLHP12.1
CO3, CO6, CO7, CO8	Discuss the clinical manifestations for <i>Sinaippai kazhalaigal</i> (benign tumours in the ovary)	CC	MK	SH	TBL,CB L	P-ID,Log book,P- PRF	F&S		-	NLHP12.2
CO3, CO6, CO7, CO8	Explain the clinical manifestations of <i>Sinaippai Neerkatti</i> (PCOD).	CC	MK	SH	CBL,PL	SBA,P-ID	F&S		-	NLHP12.3
CO3, CO6, CO7, CO8	Discuss the clinical management of <i>Sinaippai piravi katti</i> (dermoid cyst).	CC	MK	SH	DIS,PB L,CBL	P-PRF,M- CHT	F&S		-	NLHP12.4
CO3, CO6, CO7, CO8	Describe the clinical manifestations of <i>Sinaippai kuruthi katti</i> (Chocolate cyst of ovary).	CK	MK	SH	LRI,CB L	P-ID,PA,O SCE	F&S		-	NLHP12.5
CO3, CO6, CO7, CO8	Elaborate the clinical features of <i>Sinaippai seyalpadu kuraivu</i> (Ovarian insufficiency).	PSY- GUD	MK	SH	PBL,TB L	P-PRF,M- CHT	F&S		-	NLHP12.6
CO3,	Explain the clinical features of <i>Sinaippai thirugal</i> (Ovarian	CC	MK	SH	PBL,DI	P-PS	F&S		-	NLHP12.7

CO6, CO7, CO8	torsion).				S					
CO3, CO6, CO7, CO8	Enumerate the clinical features of <i>Thuritha sinaippai seyalizhappu</i> (Premature ovarian failure).	CC	MK	SH	CD,CB L	SBA,CBA	F&S		-	NLHP12.8
CO3, CO6, CO7, CO8	Discuss the risk factors and clinical features of <i>Sinaippai thunduthal noi</i> (Ovarian Hyper Stimulation Syndrome).	CAN	MK	SH	D,PBL, DIS	C-VC,CO M,PRN	F&S		-	NLHP12.9
CO3, CO6, CO7, CO8	Elaborate the stages and management of <i>Sinaippai putru noi</i> (Carcinoma of Ovary).	PSY- GUD	MK	SH	SY,CBL ,CD	DOAP,P- PRF	F&S		-	NLHP12.10

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 12.1	Life style modifications in <i>Sinaippai Neerkatti</i> (PCOD).	<p>1. Flipped Classroom Students engage with instructional content like life style modifications for <i>Sinaippai Neerkatti</i> (PCOD),at home and classroom time is used for interactive, hands-on learning.</p> <p>2. Practical Performance Students will advise to balanced diet, low glycaemic and high fibre intake, regular physical activity like <i>Surya Namaskar</i>, adequate sleep and stress management such as <i>Yoga</i> and <i>meditation</i> for <i>Sinaippai Neerkatti</i> (PCOD) patients. Total duration: 1 hour.</p>

NLHT 12.2	Various theories and common sites of Endometriosis.	<p>1. Making of charts The teacher will instruct to students will be divided into groups to make Charts to understand the topic like various theories and common sites of Endometriosis.</p> <p>2. Debate Students will be divided into groups by teacher to conduct debate on the topic such as various theories and common sites of Endometriosis.</p> <p>Total duration: 1 hour.</p>
NLHT 12.3	Complications of <i>Thuritha sinaippai seyalizhappu</i> (Premature ovarian failure).	<p>1. Practical Role play Students will be given an outline of the topic like complications of <i>Thuritha sinaippai seyalizhappu</i> (Premature ovarian failure).to take part in a role play, and marks will be given based on their performance.</p> <p>2. Word puzzle Students will be divided into groups to play a word puzzle based on the topic like complications of <i>Thuritha sinaippai seyalizhappu</i> (Premature ovarian failure).</p> <p>Total duration: 1 hour.</p>
NLHT 12.4	Clinical importance of tumour markers in the diagnosis of gynaecological cancers.	<p>1. Online Quiz Students will be given an outline of the topic like clinical importance of tumour markers in the diagnosis of gynaecological cancers. to attend an online quiz and receive their scores at the end.</p> <p>2. Making of charts Students will be divided into groups to make charts based on the topic, such as clinical importance of tumour markers in the diagnosis of gynaecological cancers.</p> <p>Total duration: 1 hour.</p>
NLHT 12.5	<i>Maruthuva muraigal</i> (Treatment aspect) for pre malignant and borderline ovarian tumours.	<p>1. Case-based learning The teacher will discuss with Students related to <i>maruthuva muraigal</i> (Treatment aspect) for pre</p>

		<p>malignant and borderline ovarian tumours. Students will observe and record their log book.</p> <p>2. Group Discussion</p> <p>Students will be divided into groups by teacher to discuss research articles based on the <i>maruthuva muraigal</i> (Treatment aspect) for pre malignant and borderline ovarian tumours.</p> <p>Total duration: 1 hour.</p>
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**Non Lecture Hour Practical**

S.No	Name of Practical	Description of Practical Activity
NLHP 12.1	Clinical features for <i>sinaippai katti</i> (simple ovarian cyst).	<p>1. Case - Based Learning</p> <p>The teacher will demonstrate the clinical manifestations of <i>sinaippai katti</i> (Simple ovarian cyst). Students will be divided into groups and patients will be allotted. SOP will be followed for history taking, general examination and abdominal, pelvic examination, and clinical management for <i>sinaippai katti</i> (simple ovarian cyst).</p> <p>Duration: 1 hour.</p>
NLHP 12.2	Clinical features for <i>Sinaippai kazhalaigal</i> (benign tumours in the ovary).	<p>1. Case - Based Learning</p> <p>The teacher will demonstrate the clinical manifestations of <i>Sinaippai Kazhalaigal</i> (benign tumours) in the Ovary. Students will be divided into groups, and patients will be allotted. SOP will be followed for history taking, general examination, abdominal examination, and clinical management for <i>Sinaippai kazhalaigal</i> (benign tumours in the Ovary).</p> <p>Duration: 1 hour.</p>
NLHP 12.3	Clinical manifestations of <i>Sinaippai Neerkatti</i> (PCOD).	<p>1. Case - Based Learning</p> <p>The teacher will demonstrate the clinical manifestations of <i>Sinaippai Neerkatti</i> (PCOD). Students will be divided into groups, and patients will be allotted. SOP will be followed for history taking,</p>

		<p>general examination, abdominal, pelvic examination, management for <i>Sinaippai Neerkatti</i> (PCOD).</p> <p>2. Scenario based Assessment Students will be given a case scenario to diagnose the disease, and final marks will be given based on their performance</p> <p>3. Practical identification Students will be trained to identify the specimen and explain the clinical manifestations of <i>Sinaippai Neerkatti</i> (PCOD). Total duration: 2 hours.</p>
NLHP 12.4	Clinical management of <i>Sinaippai piravi katti</i> (dermoid cyst).	<p>1. problem-Based Learning The teacher will demonstrate the clinical management of <i>sinaippai piravi katti</i> (Dermoid cyst). Students will be divided into groups and patients will be allotted. SOP will be followed for history taking, general examination, abdominal examination and clinical management for <i>sinaippai piravi katti</i> (dermoid cyst).</p> <p>2. Discussion Students will discuss with teacher recording clinical management of <i>sinaippai piravi katti</i> (Dermoid cyst). Total duration: 1 hour.</p>
NLHP 12.5	Clinical manifestations of <i>Sinaippai kuruthi katti</i> (Chocolate cyst of ovary).	<p>1. Case - Based Learning The teacher will demonstrate the clinical manifestations of <i>Sinaippai kuruthi katti</i> (Chocolate cyst of ovary). Students will be divided into groups and patients will be allotted. SOP will be followed for history taking, general examination and abdomino pelvic examination for <i>Sinaippai kuruthi katti</i> (Chocolate cyst of ovary).</p> <p>2. Lab report Interpretations The teacher will demonstrate the USG findings of a Chocolate cyst of the ovary.</p> <p>3. Practical Identification Students will be trained to identify the specimen and explain the clinical manifestations of a</p>

		chocolate cyst of the ovary. Total duration: 2 hours.
NLHP 12.6	Clinical features of <i>Sinaippai seyelpaadu kuraivu</i> (Ovarian insufficiency).	<p>1. Case - Based Learning - The teacher will demonstrate the clinical management of <i>Sinaippai seyelpaadu kuraivu</i> (Ovarian insufficiency). Students will be divided into groups and patients will be allotted. SOP will be followed for history taking, general examination, and clinical management for <i>Sinaippai seyelpaadu kuraivu</i> (Ovarian insufficiency).</p> <p>2. Making charts Students will divide into groups to make charts based on the clinical management of <i>Sinaippai seyelpaadu kuraivu</i> (Ovarian insufficiency). Total duration: 1 hour.</p>
NLHP 12.7	Clinical features of <i>Sinaippai thirugal</i> (Ovarian torsion).	<p>1. Discussion The teacher will discuss the clinical management of <i>Sinaippai thirugal</i> (Ovarian torsion). Students will be divided into groups and patients will be allotted. SOP will be followed for history taking, general examination, abdominal examination and clinical management for <i>Sinaippai thirugal</i> (Ovarian torsion).</p> <p>2. Problem solving method The teacher will demonstrate the clinical management of <i>Sinaippai thirugal</i> (Ovarian torsion). Students will observe and repeat the same in clinical postings. Total duration: 1 hour.</p>
NLHP 12.8	Clinical features of <i>Thuritha sinaippai seyalizhappu</i> (Premature ovarian failure).	<p>1. Case - Based Learning The teacher will demonstrate the clinical management of <i>Thuritha sinaippai seyalizhappu</i> (Premature ovarian failure). Students will be divided into groups, and patients will be allotted. SOP will be</p>

		<p>followed for history taking, general examination and abdomino pelvic examination and clinical management for <i>Thuritha Sinaippai seyalizhappu</i> (Premature ovarian failure).</p> <p>2. Scenario Based Assessment</p> <p>Students will be given a case scenario by teacher related to clinical management of <i>Thuritha sinaippai seyalizhappu</i> (Premature ovarian failure). To diagnose the disease, and final marks will be given based on their performance.</p> <p>Total duration: 2 hours.</p>
NLHP 12.9	Clinical features of <i>Sinaippai thunduthal noi</i> (Ovarian Hyper Stimulation Syndrome)	<p>1. Compilation of Video clips</p> <p>The teacher will demonstrate the risk factors and management of <i>Sinaippai thunduthal noi</i> (Ovarian Hyper Stimulation Syndrome). Students will be instructed to compile and demonstrate video clips related to the topic to gain more knowledge.</p> <p>2. Discussion</p> <p>Students will discuss with teacher regarding management of <i>Sinaippai thunduthal noi</i> (Ovarian Hyper Stimulation Syndrome) and learn more knowledge related to this topic.</p> <p>Total duration: 1 hour.</p>
NLHP 12.10	Stages related to management of <i>Sinaippai putru noi</i> (Carcinoma of Ovary).	<p>1. Case - Based Learning</p> <p>The teacher will demonstrate the stages, and management of <i>Sinaippai putru noi</i> (Carcinoma of Ovary). Students will be divided into groups, and patients will be allotted. SOP will be followed for history taking, examinations, investigations, and clinical management for <i>Sinaippai putru noi</i> (Carcinoma of Ovary).</p> <p>2. Case diagnosis</p> <p>Students will be trained to diagnose the stages of <i>sinaippai putru noi</i> (Carcinoma of Ovary) by relevant investigations and management of ovarian carcinoma.</p> <p>3. Symposium</p> <p>Students will take part in a symposium to gain more knowledge on the topic.</p> <p>Total duration: 2 hours.</p>

Topic 13 Marbaga noigal (Diseases of Breast) (LH :5 NLHT: 4 NLHP: 8)										
A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, C02, C03	Summarize <i>noi varum vazhi, vagaigal, kurikunangal, noi kanippu, sikalgal, maruthuvam</i> for <i>Nakil katti</i> (causes, types, clinical features, diagnosis, complications and treatment for Fibro adenoma of breast).	CS	MK	KH	DIS,L&PPT	QZ ,M-CHT	F&S		-	LH
CO1, C02, C03	Interpret the <i>Nakil thabitham</i> (Mastitis) and its <i>noi varum vazhi, noi kurikunangal, vagaigal, noi kanippu, sikalgal and maruthuvam</i> (etiological factors, causes, types, diagnosis, complications and treatment for Mastitis)	CAP	MK	KH	L&PPT,LS	PUZ,QZ	F&S		-	LH
CO1, C02, C03	Interpret the <i>noi varum vazhi, kurikunangal, noi kanippu; sikalgal and maruthuvam</i> for <i>Nakil seal katti</i> (causes, symptoms, diagnosis, complications and management for Breast abscess).	CE	MK	KH	FC,L,PL	WP,QZ	F&S		-	LH
CO1, C02, C03	Describe the <i>noi varum vazhi, vagaigal, kurikunangal, stages of Nakil putru noi</i> (cause, types, and clinical features of breast cancer)	CK	MK	K	L&PPT,FC	M-POS,QZ,CL-PR	F&S		-	LH
CO1, C02, C03	Describe the prevention, early detection, <i>Noi kanippu (diagnosis) maruthuvam (treatment)</i> for <i>Nakil putru noi</i> (breast cancer).	CK	MK	KH	DIS,L&PPT	PUZ,M-CHT	F&S		-	LH
CO1, C02, C03	Discuss <i>the</i> screening methods such as clinical breast examination and self-breast examinations for detecting <i>Nakil Katti</i> (fibro adenoma) in women.	CK	MK	KH	FV,SIM,TBL	CL-PR,M-CHT	F&S		-	NLHT13.1
CO1, C02, C03	Discuss the <i>vagaigal</i> (types) of <i>Nakil putrunoi</i> (Breast cancer) based on its location, behaviour and receptor status.	CK	MK	KH	LS,DIS	CR-RED,O-QZ,O-GAME	F&S		-	NLHT13.2
CO1,	Discuss how lifestyle modifications significantly influence the	CK	MK	KH	BS,LS	WP,M-	F&S		-	NLHT13.3

CO2,C O3	risk, progression and outcomes of <i>Nakil putrunoi</i> (breast cancer).					CHT,INT				
CO1, CO2,C O3	Discuss a <i>Nakil putrunoi vizhipunarvu thittam</i> (Breast cancer awareness program) like interactive workshops, screening campaign, aware events, support services and monitoring evaluation.	CK	MK	KH	W,DIS	WP,INT	F&S		-	NLHT13.4
CO3, CO7, CO8	Elaborate the clinical manifestations of <i>Marbaga naarthasai katti</i> (Fibro adenoma breast) and its diagnosis, treatment and medical advice.	CC	MK	SH	CD,D- BED	RK,SBA	F&S		-	NLHP13.1
CO3, CO7, CO8	Distinguish the clinical manifestations of <i>Nakil thabitham</i> (Mastitis) and <i>Nakil seelkatti</i> (Breast abscess).	CAN	MK	SH	LRI,D- BED	CBA,RK,P- CASE	F&S		-	NLHP13.2
CO3, CO7, CO8	Discuss the diagnostic approaches and management of <i>Nakil putrunoi</i> (Breast cancer)	CC	MK	SH	D-BED, CBL	RK,P-ID,P- CASE	F&S		-	NLHP13.3
CO3, CO7, CO8	Discuss the clinical manifestations of <i>Nakil putrunoi</i> (Breast cancer) across its different stages, emphasizing the distinct signs and symptoms associated with each stage.	CC	MK	SH	D-BED, LRI	RK,P-EXA M,P-CASE	F&S		-	NLHP13.4

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 13.1	Screening method such as breast examination for <i>Nakil katti</i> (fibro adenoma).	<p>1. Simulation Teacher will demonstrate clinical breast examination and self-breast examinations for detecting <i>Nakil katti</i> (fibro adenoma). Students will be demonstrated to gain the clinical knowledge about clinical breast examination for detecting <i>Nakil Katti</i> (fibro adenoma in breast) simulated patients.</p> <p>2. Team based learning Students will be directed to split into small groups by teacher and discuss and review about clinical breast examination for detecting <i>Nakil katti</i> (fibro adenoma) in women and to get more knowledge</p>

		<p>about soya <i>parisodhanai muraigal</i> (<i>self-examination</i> methods) and its significance. Total duration: 1 hour.</p>
NLHT 13.2	<i>Vagaigal</i> (types) of <i>Nakil putrunoi</i> (Breast cancer).	<p>1. Library session Students will be instructed by teacher to analyse and collecting data from books and recent research papers on <i>Nakil putrunoi vagaipadu</i> (Breast Cancer classification) based on its location, behaviour and receptor status.</p> <p>2. Online Quiz Teacher will conduct online quiz to students will be attended the objective type online quiz questionnaires to assess students understanding about <i>Nakil putrunoi vagaipadu</i> (Breast cancer classification). Total duration: 1 hour.</p>
NLHT 13.3	Lifestyle modifications which influence the risk, progression and outcomes of <i>Nakil putrunoi</i> (breast cancer).	<p>1. Library session Teacher will directed to students will go to the library for refer the top journals and books for understanding about the topic of lifestyle modifications significantly influence the risk, progression, and outcomes of <i>Nakil putrunoi</i> (breast cancer).</p> <p>2. Brainstorming Brainstorm creative assessment will be given to the students by teacher about how lifestyle modifications significantly influence the risk, progression, and outcomes of <i>Nakil putrunoi</i> (breast cancer) then an evaluator will assess the student's performance by ask some questions to patient for asses the level of students to patient interaction and performance. Total duration: 1 hour.</p>
NLHT 13.4	<i>Nakil putrunoi vizhipunarvu thittam</i> (Breast cancer awareness program)	<p>1. Discussion Students will divide into small groups by teacher to discuss topics of "<i>Nakil putrunoi vizhipunarvu</i></p>

	<p><i>thittam</i>"(Breast cancer awareness program). After that they will be evaluated by their knowledge, communication and teamwork skills.</p> <p>2. Workshop</p> <p>Students will be instructed by teacher to organize and participate in the workshop on <i>Nakil putrunoi vizhipunarvu thittam</i> (Breast cancer awareness program) it will be help to assess their knowledge and critical thinking.</p> <p>Total duration: 1 hour.</p>
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### Non Lecture Hour Practical

S.No	Name of Practical	Description of Practical Activity
NLHP 13.1	Clinical manifestations of <i>Marbaga naarthasai katti</i> (Fibro adenoma breast) .	<p>1. Demonstration bed side</p> <p>Teacher will demonstrate the clinical manifestations of <i>Marbaga naarthasai katti</i> (Fibro adenoma breast) and its diagnosis, treatment and medical advice according to regular protocol. Students will observe, repeat and record the same.</p> <p>2. Scenario based assessment</p> <p>Students will be assigned by teacher to evaluate a case scenario suspected to <i>Marbaga naarthasai katti</i> (Fibro adenoma breast), considering the clinical findings, diagnosis, differential diagnosis, and its management.</p> <p>Total duration: 2 hours.</p>
NLHP 13.2	Clinical features of <i>Nakil thabitham</i> (Mastitis) and <i>Nakil seelkatti</i> (Breast abscess).	<p>1. Demonstration bedside</p> <p>Teacher will demonstrate the clinical manifestations of <i>Nakil thabitham</i> (Mastitis) and <i>Nakil seelkatti</i> (Breast abscess) in clinical presentation. Students will be advised to repeat in another five patients.</p> <p>2. Lab report interpretation</p> <p>Students will be advised to review the provided ultrasound (USG) report, focusing on key findings like tissue thickening, fluid collection and presence of abscess formation also identify the</p>

		distinguishing features between <i>Nakil thabitham</i> (Mastitis) and <i>Nakil seelkatti</i> (Breast Abscess). Total duration: 2 hours.
NLHP 13.3	Diagnosis and management of <i>Nakil putru noi</i> (Breast cancer).	1. Case based learning Teacher will demonstrate about the diagnostic approaches like examination of breast, self-examination, FNA procedures, the Siddha medicines prescribed for <i>Nakil putru noi</i> and also the modern management strategies. The students will be applied the same and record the findings in their log book. 2. Spotter identification Students will be instructed by teacher to identify the <i>Nakil putrunoi</i> (Breast cancer) via provided clinical image, such as a mammogram or biopsy slide, focusing on key signs like mass irregularity or micro calcifications. Total duration: 2 hours.
NLHP 13.4	Clinical manifestation of different stages of <i>Nakil putrunoi</i> (Breast cancer)	1. Demonstration bedside Teacher will demonstrate the clinical manifestations of <i>Nakil putrunoi</i> (Breast cancer) in clinical presentation. Students will be advised to take a brief medical history, focusing on the presenting and past complaint. Inspect and palpate the breast, investigations, discuss differential diagnosis, and confirm the diagnosis of <i>Nakil putrunoi</i> (Breast cancer), finally educate the patient about <i>Nakil putrunoi</i> (Breast cancer) and document the assessment findings and management plan. 2. Lab report interpretation Students will be instructed by teacher to analyse the provided PET (positron emission tomography) scan report identifying regions with increased FDG (fluorodeoxyglucose) uptake in the breast tissue and any signs of metastasis to lymph nodes or distant organs. Total duration: 2 hours.
<b>Topic 14 Karuppai noigal (Uterine disorders) (LH :5 NLHT: 3 NLHP: 9)</b>		

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, C02,C O3	Describe the <i>kaaranangal</i> , <i>vagaigal</i> , <i>kuri kunangal</i> , <i>noi kanippu</i> , <i>sikalgal</i> and <i>maruthuvam</i> of <i>Karuppai thasai narkalalai</i> (aetiology, types, signs and symptoms, diagnosis, complications and treatment of Fibroid uterus).	CK	MK	KH	BS,FC, L&PPT	PUZ,M- CHT,Log book	F&S		-	LH
CO1, C02,C O3	Discuss the <i>noi varum vazhi</i> , (causes) <i>kurikunam</i> (clinical features) <i>noi kanippu</i> , (diagnosis) <i>sikalgal</i> (complication) and <i>parigara muraigal</i> of <i>Karuppai kambu kazhalai</i> (Endometrial polyp), <i>Kazhunthu kambu kazhalai</i> , (Cervical polyp), <i>Karuppai utkavasa neetchi</i> , (Adenomyosis) and <i>Karuppai utkavasa thadippu</i> (Endometrial hyperplasia).	CK	MK	KH	L&PPT ,PBL	M- CHT,QZ	F&S		-	LH
CO1, C02,C O3	Describe the <i>kaaranangal</i> (causes), <i>vagaigal</i> (types) <i>kurikunam</i> (clinical features) <i>noi kanippu</i> , (diagnosis) <i>sikalgal</i> (complication) and <i>Parigara muraigal</i> of <i>Karuppai kazhunthu putru noi</i> . (Carcinoma of cervix).	CK	MK	KH	L_VC,D IS	QZ ,M- CHT	F&S		-	LH
CO1, C02,C O3	Describe the <i>kaaranangal</i> (causes), <i>vagaigal</i> (types) <i>kurikunam</i> (clinical features) <i>noi kanippu</i> , (diagnosis) <i>sikalgal</i> (complication) and <i>Parigara muraigal</i> of <i>Karuppai kazhunthu thabitham</i> (Cervicitis).	CK	MK	KH	L&PPT ,PSM	P-POS	F&S		-	LH
CO1, C02,C O3	Describe the <i>kaaranangal</i> (causes), <i>vagaigal</i> (types) <i>kurikunam</i> (clinical features) <i>noi kanippu</i> and (diagnosis) <i>sikalgal</i> (complication) and <i>Parigara muraigal</i> , including <i>external therapy</i> of <i>Karuppai adithalal</i> (Uterine prolapse).	CK	MK	KH	L_VC,D IS	QZ ,O- GAME	F&S		-	LH
CO1, C02,C O3	Discuss the complications of <i>Karuppai kazhunthu thabitham</i> (cervicitis) and its <i>thadupu muraigal</i> (prevention methods).	CK	MK	KH	SY,FC	INT,WP	F&S		-	NLHT14.1

CO1, CO2, CO3	Describe the risk factors, screening methods, prevention, lifestyle modifications and the importance of regular health care visits for <i>Karuppai kazhunthu putru</i> (Cervical Cancer).	CK	MK	KH	PrBL	INT,QZ	F&S		-	NLHT14.2
CO1, CO2, CO3	Enumerate the pelvic support system and risk factors of <i>Karuppai adithalal</i> (Uterine prolapse).	CAP	MK	KH	BS,PBL	QZ ,INT	F&S		-	NLHT14.3
CO3, CO7, CO8	Discuss the clinical manifestations of <i>Karuppai thasai naarkazhalai</i> (Fibroid Uterus) and their interpretations.	CC	MK	SH	DIS,D-BED	RK,DOAP, OSCE	F&S		-	NLHP14.1
CO3, CO7, CO8	Differentiate clinical manifestations of <i>Karuppai kambu kazhalai</i> (Endometrial polyp), <i>kazhunthu kambu kazhalai</i> (cervical polyp) and <i>Karuppai utkavasa neetchi</i> (Adenomyosis), <i>Karuppai utkavasa thadippu</i> (endometrial hyperplasia).	CAN	MK	SH	D-BED	P-CASE,RK,INT	F&S		-	NLHP14.2
CO3, CO7, CO8	Differentiate the stages of <i>Karuppai kazhunthu putru</i> (Cancer of the cervix), which reflects the extent of cancer spread and its specific clinical features.	CAN	MK	SH	PBL,CBL	DOAP,P-CASE,OSCE	F&S		-	NLHP14.3
CO3, CO7, CO8	Describe the clinical manifestations of acute and chronic <i>Karuppai kazhunthu thabitham</i> (Cervicitis), which will typically reveal changing characteristic of the inflammatory process.	CK	MK	SH	D,D-BED	OSCE,P-VIVA, C-VC	F&S		-	NLHP14.4
CO3, CO7, CO8	Discuss the clinical manifestations of <i>Karuppai adithalal</i> (Uterine prolapse).	CC	MK	SH	CD,CBL,D-BED	P-PRF,INT	F&S		-	NLHP14.5

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 14.1	Complications of <i>Karuppai kazhunthu thabitham</i> (cervicitis) and its <i>thadupu</i>	1. Symposium Students will be instructed by teacher to participate the symposium about the topic of <i>Sikkalgal</i> of

	<i>muraigal</i> (prevention methods).	<p><i>Karuppai kazhunthu thabitham</i> (complications of cervicitis) and its <i>thadupu muraigal</i> (prevention methods) it will assist to interact with expert speakers, participate in discussions, present their research.</p> <p>2. Flipped classroom Activity will be allotted to students on “<i>Sikkalgal</i> of <i>Karuppai kazhunthu thabitham</i> (complications of cervicitis) and its <i>thadupu muraigal</i> (prevention methods), where they watch pre-recorded videos or complete online modules before class and then student will present their understanding followed by teacher will be providing their feedback. Total duration: 1 hour.</p>
NLHT 14.2	Screening, prevention, life style modifications of <i>Karuppai kazhunthu putru</i> (cervical cancer).	<p>1. Project based learning Teacher will divide the students into small groups and assign each group a specific project. From this assignment students will design and implement a public awareness to educate the importance of risk factors, screening methods, prevention strategies, lifestyle modifications and the importance of regular health care visits for <i>Karuppai kazhunthu putru</i> (Cervical cancer).</p> <p>2. Quiz Teacher will conduct quiz program to students related will be instructed screening, prevention, life style modifications of <i>Karuppai kazhunthu putru</i> (cervical cancer) and asses the students’ knowledge about <i>Karuppai kazhunthu putru noi</i> (Cervical cancer). Total duration: 1 hour.</p>
NLHT 14.3	Pelvic support system and risk factors of <i>Karuppai adithalal</i> (uterine prolapse)	<p>1. Brainstorming A brainstorming activity will be given to the students to encourage critical thinking on the topic. Students will collaborate in small groups to discuss and list factors that affect pelvic health. Each group will present their findings using creative methods such as mind maps, posters or skits, fostering</p>

		<p>teamwork, engagement and deeper understanding of the topic.</p> <p>2. Quiz Teacher will conduct quiz program regarding pelvic support system and risk factors of <i>Karuppai adithalal</i> (uterine prolapse). To assess and enhance student knowledge. Total duration: 1 hour.</p>
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**Non Lecture Hour Practical**

S.No	Name of Practical	Description of Practical Activity
NLHP 14.1	Clinical features of <i>Karuppai thasai naarkazhalai</i> (Fibroid Uterus).	<p>1. Demonstration bedside Teacher will demonstrate the clinical manifestations of <i>Karuppai thasai naar kazhalai</i> (Fibroid Uterus) in clinical presentation. Students will be observe and record his/her record note.</p> <p>2. Discussion Students will separate small groups by teacher and discuss the topic like clinical manifestations of <i>Karuppai thasai naarkazhalai</i> (Fibroid Uterus). Finally they have more knowledge about this topic. Total duration: 2 hours.</p>
NLHP 14.2	Clinical manifestations of <i>Karuppai kambu kazhalai</i> (Endometrial polyp), <i>Karuppai kazhunthu kambu kazhalai</i> (cervical polyp), <i>Karuppai utkavasa neetchi</i> (Adenomyosis), <i>Karuppai utkavasa thadippu</i> (endometrial hyperplasia).	<p>1. Demonstration bedside Teacher will demonstrate and differentiate he clinical manifestations of <i>Karuppai kambu kazhalai</i> (Endometrial polyp), <i>Karuppai kazhunthu kambu kazhalai</i> (cervical polyp) and <i>Karuppai utkavasa neetchi</i> (Adenomyosis), <i>Karuppai utkavasa thadippu</i> (endometrial hyperplasia) in clinical presentation. Students will observe and document the assessment findings and management plan. Duration: 1 hour.</p>
NLHP 14.3	Stages of <i>Karuppai kazhunthu putru</i> (Cervical cancer)	<p>1. Problem based learning The teacher will discuss with students the clinical manifestations of difference stages of <i>Karuppai kazhunthu putru</i> (Cervical Cancer) in clinical presentation. Students will be advised to introduce self</p>

		<p>and obtain patient consent for the assessment and take a brief medical history, as well confirm the diagnosis of <i>Karuppai kazhunthu putru</i> (Cervical cancer) through clinical examination and investigations.</p> <p>2. Lab report interpretation</p> <p>Students will be instructed to analyse the provided Pap smear (Papanicolaou test) report, identifying any abnormal cell changes, or precancerous lesions. They should interpret the results to assess the likelihood of cervical dysplasia, metaplasia or neoplasia.</p> <p>Total duration: 2 hours.</p>
NLHP 14.4	Clinical features of acute and chronic <i>Karuppai kazhunthu thabitham</i> (Cervicitis).	<p>1. Demonstration bedside</p> <p>Teacher will demonstrate the clinical manifestations of acute and chronic <i>Karuppai kazhunthu thabitham</i> (Cervicitis) in clinical presentation. Students will be advised to focusing on the presenting and past complaint and palpate through P/v examination. Discuss the differential diagnosis, as well as confirm the diagnosis of <i>Karuppai kazhunthu thabitham</i> (Cervicitis)</p> <p>2. Discussions</p> <p>Students will be divided into small groups by teacher and discuss with clinical manifestations of acute and chronic <i>Karuppai kazhunthu thabitham</i> (Cervicitis) gain more knowledge about acute and chronic <i>Karuppai kazhunthu thabitham</i> (Cervicitis).</p> <p>Total duration: 2 hours.</p>
NLHP 14.5	Clinical features of <i>Karuppai adithalal</i> (Uterine prolapse).	<p>1. Demonstration bedside</p> <p>Teacher will demonstrate the clinical manifestations of <i>Karuppai adithalal</i> (Uterine prolapse) in clinical presentation. Students will be observed and record the same. Later on students will repeat the same manner in different patients</p> <p>2. Spotter identification</p> <p>Students will be instructed to identify <i>Karuppai adithalal</i> (Uterine Prolapse) using the provided spotter such as clinical posters. They should carefully observe the spotter and recognize the clinical condition and signs indicative of stages of uterine prolapse.</p> <p>Total duration: 2 hours.</p>

**Topic 15 Koobaga thotru noigal (Pelvic inflammatory diseases) (LH :6 NLHT: 4 NLHP: 10)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, C02,C O3	Describe the kaaranangal (causes), <i>vagaigal</i> (types) <i>kurikunam</i> (clinical features), <i>noi kanippu</i> (diagnosis), <i>sikalgal</i> (complication) and <i>Parigara muraigal</i> and medical advice for <i>Vellai noi</i> (Leucorrhoea).	CK	MK	KH	DIS,L&PPT	QZ ,WP	F&S		-	LH
CO1, C02,C O3	Describe the kaaranangal (mode of transmission), <i>vagaigal</i> (types) <i>kurikunam</i> (clinical features), <i>noi kanippu</i> (diagnosis), <i>sikalgal</i> (complication) and <i>Parigara muraigal</i> and medical advice for <i>Palvenai noigal</i> (STD).	CK	MK	K	FC,ML, L&PPT	Log book,O- QZ,PA	F&S		-	LH
CO1, C02,C O3	Discuss and differentiate the kaaranangal (causes), <i>vagaigal</i> (types) <i>kurikunam</i> (clinical features) <i>noi kanippu</i> , (diagnosis) <i>sikalgal</i> (complication) and <i>Parigara muraigal</i> and medical advice for <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salinities).	CK	MK	KH	FC,BL, L&PPT	M-CHT,CL- PR,CWS	F&S		-	LH
CO1, C02,C O3	Describe the <i>kaaranangal</i> , <i>kurikunangal</i> , <i>Ayvu kooda thervugal</i> and <i>maruthuvam</i> (causes, clinical features, investigations, and treatment ) of <i>Bartholin surapi thabitham</i> (Bartholinitis).	CK	DK	KH	L&PPT ,DIS,C D	QZ ,INT,M- CHT	F&S		-	LH
CO1, C02,C O3	Explain the kaaranangal (causes), <i>vagaigal</i> (types) <i>kurikunam</i> (clinical features) <i>noi kanippu</i> , (diagnosis) <i>sikalgal</i> (complication) and <i>Parigara muraigal</i> and medical advice for of <i>Karuppai utkavasa thabitham</i> (Endometritis) .	CK	DK	KH	PSM,L	M-MOD,C L-PR,CR- W	F&S		-	LH
CO1, C02,C O3	Describe the kaaranangal (causes), <i>vagaigal</i> (types) <i>kurikunam</i> (clinical features) <i>noi kanippu</i> , (diagnosis) <i>sikalgal</i> (complication) and <i>Parigara muraigal</i> and medical advice for <i>Koobaga Illaipu noi</i> (genital TB) and <i>karuppai agapura alarchi</i>	CK	MK	KH	L,DIS,L &PPT	T-OBT,WP ,QZ ,CL- PR	F&S		-	LH

	(Parametritis).									
CO1, CO2, CO3	Discuss the <i>Vellai noi</i> (Leucorrhoea), due to hormonal imbalance and its clinical features, management and medical advice.	CK	MK	KH	PER, DIS	INT, O-QZ	F&S		-	NLHT15.1
CO1, CO2, CO3	Discuss the <i>thadupu muraigal</i> (preventive measures), risk factors, early detection and screening methods of <i>Paalvenai noigal</i> (Sexually transmitted diseases).	CK	MK	KH	RP, TBL, DIS	DEB, VV-Viva, INT	F&S		-	NLHT15.2
CO1, CO2, CO3	Enumerate the diagnostic evaluation and complications of <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salpingitis)	CK	MK	KH	DIS, GB, L, EDU, BL	QZ, PUZ, O-GAME	F&S		-	NLHT15.3
CO1, CO2, CO3	Discuss the objectives and implementation steps of the <i>Koobaga eliaipu noi</i> (Genital tuberculosis) awareness program.	CK	MK	KH	DIS, PE, R, LS	CL-PR, M-CHT, PA	F&S		-	NLHT15.4
CO3, CO7, CO8	Differentiate the clinical manifestations and preparation of a vaginal smear for <i>Vellai noi</i> (Leucorrhoea).	CAN	MK	SH	CBL, DIS	DOPS, P-PRF, OSCE	F&S		-	NLHP15.1
CO3, CO7, CO8	Discuss the clinical manifestations of <i>Paalvenai noigal</i> (Sexually transmitted diseases - STDs).	CC	MK	SH	D-BED, CBL, LR, I, D	P-PRF, DO AP, OSPE	F&S		-	NLHP15.2
CO3, CO7, CO8	Elaborate the clinical manifestations of <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salpingitis) and its management.	CC	MK	SH	PBL, D-BED, C, D	OSCE, DO AP	F&S		-	NLHP15.3
CO3, CO7, CO8	Differentiate the clinical manifestations of <i>Bartholin surapi thabitham</i> (Bartholinitis) and <i>Yoni neerkatti</i> (Vaginal cyst) and its management .	CAN	MK	SH	CBL, D-BED	RK, INT	F&S		-	NLHP15.4
CO3,	Discuss the clinical manifestations of <i>Karuppai utkavasa</i>	CC	MK	SH	CBL, C	PM, OSCE,	F&S		-	NLHP15.5

CO7, CO8	<i>thabitham</i> (Endometritis).				D,D- BED	P-PRF				
CO3, CO7, CO8	Summarise the clinical manifestations of <i>Koobaga ellaippunoi</i> (Pelvic tuberculosis-TB).	CC	MK	SH	D,DIS, D-BED	Log book,OSCE	F&S		-	NLHP15.6

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 15.1	Clinical features, management and medical advice for <i>Vellai noi</i> (Leucorrhoea)	<p>1. Case-based learning The teacher will discuss with students related to <i>Vellai noi</i> (Leucorrhoea) to due to hormonal imbalance and its clinical features, management and medical advice. Students will observe and record their log book.</p> <p>2. Presentation Students will be instructed to give a presentation session about hormonal imbalance and its clinical features, management and medical advice. <i>Vellai noi</i> (Leucorrhoea). The teacher will evaluate them based on content accuracy, presentation skills and their ability to answer questions effectively. Total duration: 1 hour.</p>
NLHT 15.2	<i>Thadupu muraigal</i> (prevention), early detection and screening of <i>Paalvenai noigal</i> (Sexually transmitted diseases).	<p>1. Debate The teacher will be divided the students into two groups and advise them to discuss the topic <i>Thadupu muraigal</i> (preventive measures), risk factors, early detection and screening of <i>Paalvenai noigal</i> (Sexually transmitted diseases). such as The discussion will be including statements, procedures, arguments rebuttals and Q&amp;A session. Afterward, the teacher will evaluate the students based on their participation and understanding.</p> <p>2. Role play Students will be directed to role-play as teacher, guiding a patient through this topic. They should be required to collect informed consent, ensure patient comfort and clearly explain the treatment procedure.</p>

		Total duration: 1 hour.
NLHT 15.3	Diagnostic evaluation of <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (salpingitis).	<p>1. Quiz Students will be divided to groups and assigned to a quiz activity that combines education and entertainment related to <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salpingitis). This activity will help them identify the symptoms and signs of both conditions in an engaging and interactive manner.</p> <p>2. Edutainment Students will be advised to participate in a trivia competition on <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salpingitis), assessing their ability to diagnose and manage the conditions. Total duration: 1 hour.</p>
NLHT 15.4	<i>Koobaga ellaippunoi</i> (Genital tuberculosis ) awareness program.	<p>1. Group Discussion Students will be divided into small groups to discuss topics related to the <i>Koobaga eliaipu Noi</i> (Genital Tuberculosis) awareness program and asked to present their findings. Afterward, they will be evaluated based on their knowledge, communication and teamwork skills.</p> <p>2. Presentation Students will be instructed to give a presentation session on this topic, after the presentation session, advised to improve their knowledge, critical thinking and application skills, focusing on any flawed parts of their presentation. Total duration: 1 hour.</p>
<b>Non Lecture Hour Practical</b>		
<b>S.No</b>	<b>Name of Practical</b>	<b>Description of Practical Activity</b>
NLHP 15.1	Clinical features and preparation of a vaginal smear for <i>Vellai noi</i> (Leucorrhoea).	<p>1. Case Based Learning Teacher will demonstrate the clinical manifestations of <i>Vellai noi</i> ( Leucorrhoea) in clinical</p>

		<p>presentation. Students will be observe and repeat the same procedure and management for <i>Vellai noi</i> (Leucorrhoea).</p> <p>2. Discussion</p> <p>Students will discuss the topic like clinical manifestations and preparation of a vaginal smear for <i>Vellai noi</i> (Leucorrhoea). Finally they have more knowledge about this topic.</p> <p>Total duration: 2 hours.</p>
NLHP 15.2	Clinical features of <i>Paalvenai noigal</i> (STD - Sexually transmitted diseases).	<p>1. Demonstration bed side:</p> <p>The teacher will demonstrate with students to analyse the provided serological test report, identifying any abnormalities related to <i>Paalvinai noigal</i> (Sexually Transmitted Diseases - STDs like HIV, syphilis, hepatitis, herpes) and correlate these findings with clinical symptoms for accurate diagnosis.</p> <p>2. Discussion:</p> <p>The teacher will discuss with students related to clinical manifestations of <i>Paalvenai noigal</i> (Sexually transmitted diseases - STDs). Students will observe and repeat the same.</p> <p>Total duration: 2 hours.</p>
NLHP 15.3	Clinical features of <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salpingitis).	<p>1. Case diagnosis</p> <p>Teacher will demonstrate the clinical manifestations of <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salpingitis) and its management. Students will inspecting and palpating the genital area, discussing differential diagnoses and confirming <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salpingitis) through clinical examination and relevant investigations and management.</p> <p>Duration: 1 hour.</p>
NLHP 15.4	Clinical features of <i>Bartholin surapi thabitham</i> (Bartholinitis) and <i>Yoni neerkatti</i> (vaginal cyst) and its management.	<p>1. Demonstration bedside</p> <p>Teacher will demonstrate the clinical manifestations of <i>Bartholin surapi thabitham</i> (Bartholinitis) and <i>Yoni neerkatti</i> (vaginal cyst) as simulation. Students will inspect and palpating the genital areas, differential diagnosis and confirming <i>Bartholin surapi thabitham</i> (Bartholinitis) and <i>Yoni Neerkatti</i> (Vaginal cyst) through clinical examination and discuss the relevant investigations.</p>

		Duration: 1 hour.
NLHP 15.5	Clinical features of <i>Karuppai utkavasa thabitham</i> (Endometritis).	1. Case -based learning Teachers will demonstrate with students to a case-based learning activity focusing on <i>Karuppai utkavasa thabitham</i> (Endometritis). Students will review a real-life case study of a patient with <i>Karuppai utkavasa thabitham</i> and work collaboratively in groups to analyse the case, identify risk factors and develop appropriate management strategies. Duration: 2 hours.
NLHP 15.6	Clinical features of <i>Koobaga ellaippunoi</i> (Pelvic tuberculosis-TB).	1. Demonstration bedside Teacher will demonstrate the clinical manifestations of <i>Koobaga ellaippunoi</i> (Pelvic tuberculosis-TB) in clinical presentation. Students will be guided discussing and relevant investigations, management. 2. Discussion Students will separate small groups and discuss the topic like <i>Koobaga ellaippunoi</i> (Pelvic tuberculosis-TB). Finally students have more knowledge about clinical manifestations of <i>Koobaga ellaippunoi</i> (Pelvic tuberculosis-TB). Total duration: 2 hours.

**Topic 16 Siruneer vega kolaarugal (Urogynaecological disorders) (LH :5 NLHT: 3 NLHP: 7)**

A3	B3	C3	D3	E3	F3	G3	H3	I3	J3	K3
CO1, CO2, C O3	Describe the kaaranangal (causes), <i>vagaigal</i> (types) <i>kurikunangal</i> (clinical features) <i>noi kanippu</i> , (diagnosis) <i>sikalgal</i> (complication) and <i>parigara muraigal including external therapy for Yoni Adithalal</i> (Vaginal wall prolapse).	CK	MK	KH	PL,L&P PT ,DIS	QZ ,M-POS	F&S		-	LH
CO1,	Describe the <i>kaaranangal, vagaigal, kurikunangal, noi kanippu</i> ,	CK	MK	KH	W,L&G	INT,PUZ	F&S		-	LH

C02,C O3	<i>maruthuvam</i> for <i>Siruneer vega kolarugal</i> (causes, types, symptoms, diagnosis and its <i>siddha</i> management for stress incontinence-SI and Urge incontinence-UI).				D,FC					
CO1, C02,C O3	Describe the <i>noi varum vazhi, kurikunangal, noi kanippu</i> and <i>maruthuvam</i> for <i>Siruneer paathai thotrugal</i> (Causes, sign and symptoms, diagnosis and treatment for urinary tract infections ) in females.	CK	MK	KH	BL,L&P PT	VV-Viva, WP,O-QZ	F&S		-	LH
CO1, C02,C O3	Summarize the <i>noi varum vazhi, kurikunangal, noi kanippu,</i> and <i>maruthuvam</i> for <i>Siruneer paathai kayangal</i> (causes, clinical features, diagnosis and treatment for trauma in urinary tract)	CAN	DK	KH	L&GD,I BL,PL	INT,O- GAME	F&S		-	LH
CO1, C02,C O3	Describe the <i>kaaranangal</i> (causes), <i>kurikunangal</i> (clinical features) <i>noi kanippu</i> ,(diagnosis) and management for Psychosomatic changes in adolescent, reproductive and menopausal period) and also discuss the <i>Punarchi vali noi</i> (Dyspareunia).	CK	MK	KH	FC,L& GD	QZ ,INT	F&S		-	LH
CO1, C02,C O3	Describe the theory behind <i>Yoni suvar adithalal</i> (Vaginal wall prolapse),specifically anterior or posterior vaginal wall prolapse, which primarily relates to the weakening of the structures that support the pelvic organs. 4o mini	CK	MK	KH	LS	O-QZ,Log book	F&S		-	NLHT16.1
CO1, C02,C O3	Discuss the lifestyle modifications for managing <i>Siruneer adangamai</i> (Urinary incontinence) in women, including fluid management, dietary changes, and life style modifications.	CK	MK	KH	PL,SIM	CL-PR,Log book	F&S		-	NLHT16.2
CO1, C02,C O3	Discuss the risk factors and complications of urinary tract infections (UTI) in pregnant and postmenopausal women.	CK	MK	KH	FC	CR-W,T- CS	F&S		-	NLHT16.3
CO3, CO7,	Observe and discuss the clinical manifestations of <i>Yoni suvar adithalal</i> (Vaginal wall prolapse).	CC	MK	SH	D-BED	P-PRF,SBA	F&S		-	NLHP16.1

CO8										
CO3, CO7, CO8	Differentiate the clinical manifestations of <i>Siruneer vega kolaarugal</i> (urinary incontinence), such as stress incontinence and urge incontinence.	CAN	MK	SH	D-BED	DOPS,P-PRF,OSCE, DOPS	F&S		-	NLHP16.2
CO3, CO7, CO8	Discuss and elaborate the clinical manifestations of <i>Siruneer paathai thotrugal</i> (Urinary tract infection).	CC	MK	SH	D-BED, CBL	OSCE,P-CASE	F&S		-	NLHP16.3
CO3, CO7, CO8	State the clinical manifestations of <i>Siruneer paathai kayangal</i> (Urinary tract injury).	CC	MK	SH	CBL	SBA,DOPS ,OSCE,P-PRF,DOPS	F&S		-	NLHP16.4
CO3, CO7, CO8	Discuss the clinical manifestations of <i>Manovigara noigal</i> (psychosomatic disorders) in adolescent, reproductive and menopausal age groups of women.	CC	MK	SH	CBL	P-PRF,INT	F&S		-	NLHP16.5

### Non Lecture Hour Theory

S.No	Name of Activity	Description of Theory Activity
NLHT 16.1	Theory behind <i>Yoni suvar adithalal</i> (vaginal wall prolapse).	<p>1. Online quiz Teacher will instruct and conduct online quiz to students related to theory behind <i>Yoni suvar adithalal</i> (Vaginal wall prolapse) to assess student's understanding of theory behind <i>Yoni suvar adithalal</i> (Vaginal wall prolapse) .</p> <p>2. Library session Students will be directed by the teacher to the library for referring the top journals and books for understanding about "Theory behind <i>Yoni suvar adithalal</i> (Vaginal wall prolapse) . Total duration: 1hour.</p>
NLHT 16.2	Medical advice and pelvic floor exercise of	1. Class Presentation

	<i>Siruneer adangamai</i> (Urinary Incontinence) in women.	<p>Students will be instructed to give a class presentation session to create a poster including information about this topic.</p> <p>2. Simulation Students will be instructed to use a Mannequin to simulate a patient with <i>Siruneer adangamai</i> (Urinary incontinence), then allowing students to practice physical examination and bladder catheterization skills.</p> <p>Total duration: 1 hour.</p>
NLHT 16.3	Discuss risk factors and complications, urinary tract infections (UTI) in pregnant post-menopausal women.	<p>1. Flipped classroom Flipped classroom activity will be given to students about risk factors, complications of urinary tract infections (UTI) in special populations such as pregnant women and postmenopausal women. Students will watch pre-recorded videos or complete online modules before the class and then students will present their understanding followed by teacher providing their feedback.</p> <p>2. Creativity Writing Students will be commanded to write a reflective essay on the topic then an evaluator will assess the student's performance by their writing skill.</p> <p>Total duration: 1 hour.</p>

**Non Lecture Hour Practical**

S.No	Name of Practical	Description of Practical Activity
NLHP 16.1	Clinical features of <i>Yoni suvar adithalal</i> (Vaginal wall prolapse).	<p>1. Demonstration bedside Teacher will demonstrate the clinical manifestations of <i>Yoni suvar adithalal</i> (Vaginal wall prolapse) in clinical presentation. Students will observe and repeat the same like detailed medical history, general examination, vaginal examination, differential diagnoses and management in clinical postings.</p> <p>2. Scenario based assessment Students will be advised to assess a patient with a suspected <i>Yoni suvar adithalal</i> (Vaginal wall prolapse) considering the clinical findings, diagnosis and possible differential diagnosis. They should</p>

		<p>also outline a management plan, including internal and external treatment options, patient education and follow-up recommendations.</p> <p>Total duration: 2 hours.</p>
NLHP 16.2	Clinical features of <i>Siruneer vega kolaarugal</i> like stress incontinence and urge incontinence.	<p>1. Demonstration bedside Teacher will demonstrate the clinical manifestations of <i>Siruneer vega kolaarugal</i> like stress incontinence and urge incontinence in clinical presentation. Students will observe and repeat the same in clinical side.</p> <p>2. Discussion Teacher will discuss with students like differentiate the clinical manifestations of <i>Siruneer vega kolaarugal</i> (urinary incontinence), such as stress incontinence and urge incontinence.</p> <p>Total duration: 2 hours.</p>
NLHP 16.3	Clinical features of <i>Siruneer paathai thotrugal</i> (Urinary tract infection).	<p>1. Case based learning Teacher will elaborate the clinical manifestations of <i>Siruneer paathai thotrugal</i> (Urinary tract infection) in bedside presentation. Students will observe and repeat the same like taking medical history, perform genital and urinary tract examination as well as confirm <i>Siruneer paathai thotrugal</i> (Urinary tract infection) through relevant investigations and discuss a proper management.</p> <p>Duration: 1 hour</p>
NLHP 16.4	Clinical features of <i>Siruneer paathai kayangal</i> (Urinary tract injury).	<p>1. Case Based Learning Teacher will present a case with the clinical manifestations of <i>Siruneer paathai kayangal</i> (Urinary tract injury) in clinical presentation. Students will observe and record in their log book to enhance their clinical knowledge.</p> <p>2. Scenario based learning The teacher will discuss with students to case scenario like <i>Siruneer paathai kayangal</i> (Urinary tract injury). Students are able to know and diagnose in this topic.</p> <p>Duration: 1 hour.</p>

NLHP 16.5	Clinical features of <i>Manovigara noigal</i> (Psychosomatic disorders) in women's.	1. Scenario based Learning: Teacher will discuss the possible clinical manifestations of <i>Manovigara noigal</i> (Psychosomatic disorders) in different age groups such as adolescent, reproductive and at menopause in clinical presentation. Students will observe and repeat the same as simulation Duration: 1 hour.
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**Table 4 : NLHT Activity**

(\*Refer table 3 of similar activity number)

Activity No*	CO No	Activity details
1.1	CO1,C02	Subtypes of <i>Utchi uthayam</i> (Cephalic presentation) related to <i>Suga magaperu</i> (Normal delivery).
1.2	CO1,C02	Normal and abnormal types of <i>Uthayam</i> (presentation) and <i>Uthayapagam</i> (denomination)
2.1	CO4,C05	Siddha and modern diagnostic methods of <i>Sool Kanippu</i> (Diagnosis of pregnancy).
2.2	CO4,C06	<i>Thirumoolar</i> concept of <i>Karuurpathi</i> (Fertilization).
2.3	CO4,C07	Male and female causes influence the <i>Karuurpathi</i> (Fertilization) in the Siddha system.
2.4	CO4,C06,C07	Abnormal site of <i>Karu puthithal</i> and <i>Maayai valarchi</i> (Fetal implantation and Placental development)
2.5	CO4,C07,C08	Abnormal formation and functions of <i>Thopulkodi</i> and <i>Panikudaneer</i> (umbilical cord and amniotic fluid)
2.6	CO1,C04,C07	Maternal changes during <i>Sool kaalam</i> (pregnancy).
2.7	CO4,C07	Diet and medical advice, and Maternity Benefit Act 1961 and Maternity Amendment Act 2017 for <i>Sool kaalam</i> (Ante-natal period).
2.8	CO4,C06,C07	Complications of mother during <i>Sool kaalam</i> (Pregnancy period).
2.9	CO4,C06,C07	Advantages and disadvantages of <i>Kudumba kattuppattu Muraigal</i> (Contraceptive method).
3.1	CO4,C06,C07	Causes and clinical features of the second stage of prolonged labour.

3.2	CO4,CO6,CO7	Phases of labour and pain management in labour.
3.3	CO4,CO6,CO7	Labour pain is evaluated with cardiotocography (CTG) and monitors the fetal heart rate.
3.4	CO4,CO7	Mechanism of <i>Suga magapperu nigazhchigal</i> (Mechanism of labour)
3.5	CO4,CO7	Influencing factors of <i>Suga magapperu nadai</i> (stages of normal labour).
4.1	CO6,CO7	Discussion on <i>Pinpedari udhayam</i> (Occipito posterior position)
4.2	CO6,CO7	Management of <i>Putta udhayam</i> (Breech presentation)
4.3	CO6,CO7	Complications of <i>Muga udhayam</i> (Face presentation)
4.4	CO6,CO7	Complications of <i>Kurukku paduththal</i> (Transverse and oblique lie)
4.5	CO6,CO7	Conjoined twins and their complications.
5.1	CO3,CO7	<i>Noi kanippu</i> (diagnosis), <i>sikalgal</i> (complications), <i>Parikara muraigal</i> (management) of <i>Pura karuppai Sool</i> (Ectopic pregnancy).
5.2	CO3,CO6,CO8	Congenital anomalies due to <i>Athi panineer</i> (Polyhydramnios).
5.3	CO3,CO6,CO8	Ethical, moral, philosophical, and cultural considerations of <i>Karuchethaivu</i> (Abortion).
6.1	CO6,CO7,CO8	Complications of <i>Sool valippu</i> (Eclampsia).
6.2	CO4,CO6,CO7	Complications and preventions of <i>Sool kaala mathumega noi</i> (Gestational diabetes mellitus).
6.3	CO4,CO7	Maternal and fetal complications due to <i>Sool kaala paandu noi</i> (Gestational Anaemia)
6.4	CO4,CO7	Different types of <i>Sool kaala Thotru noigal</i> (Maternal infections)

6.5	CO4,CO7	Importance of blood grouping in <i>Sool kaalam</i> (Pregnancy).
6.6	CO3,CO4	Factors that influence <i>Vida sool vaanthi</i> (Hyperemesis gravidarum) and its pathophysiology.
6.7	CO7,CO8	Gynecological diseases that influence abortion during <i>sool kaalam</i> (pregnancy).
7.1	CO4,CO6,CO7	<i>Kaaranangal</i> (causes), <i>kurikunangal</i> (clinical features), <i>noi kanippu</i> (diagnosis), and prevention of <i>Asaathool poopu kaalam</i> (Abnormal Involution).
7.2	CO4,CO6,CO7	Clinical manifestations of abnormal puerperium.
7.3	CO3,CO6,CO7	Specific infections that cause <i>Sool pooppu sanjchara noigal</i> (Puerperal infection)
7.4	CO1,CO3	Principles of Siddha puerperal care.
8.1	CO1,CO2,CO3	Complications of <i>Pin sarintha Karuppai</i> (Retroverted Uterus).
8.2	CO1,CO2,CO3,CO6	Yogasanas and Pranayama for strengthening Pelvic floor muscles.
9.1	CO1,CO2,CO3	Diseases associated with hyperestrogenism.
9.2	CO1,CO2,CO3	Correlation between thyroid hormones and adrenal hormones with the menstrual cycle.
9.3	CO1,CO2,CO3,CO6	Premenstrual Dysphoric Disorder (PMDD) and life style modifications.
9.4	CO1,CO2,CO3	Factors influencing and management of <i>Thuritha muthal poopu</i> (Precocious puberty).
9.5	CO1,CO2,CO3	Health management after <i>Kadaipoopu kalam</i> (Post- Menopausal period).
10.1	CO1,CO2,CO3	Theoretical perspectives of <i>Soothaga vali</i> (Dysmenorrhoea).
10.2	CO1,CO2,CO3	Pathophysiology and <i>aruvai maruthuva muraigal</i> (Surgical interventions) for <i>Poli soothaga thadai</i> (Cryptomenorrhoea).

10.3	CO1,C02,CO3	<i>Saatharana Perumpadu</i> (Abnormal Uterine Bleeding) based on the PALM-COEIN classification.
10.4	CO1,C02,CO3,CO7	Complications of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding), and the screening methods for <i>Karuppai kazhunthu putru noi</i> (Carcinoma of the Cervix).
11.1	CO1,C02,CO3	Interpretations of Semen analysis.
11.2	CO1,C02,CO3	Unexplained infertility and management of ART.
11.3	CO1,C02,CO3	Emotional support and counselling for <i>Magaperinmai</i> (Infertility).
11.4	CO1,C02,CO3	Diet and life style modifications in the management of <i>Aan Magaperinmai</i> (Male Infertility).
11.5	CO1,C02,CO3	Hormonal assays along with AMH in <i>Pen Magaperinmai</i> (female Infertility).
12.1	CO1,C02,CO3	Various theories and common sites of Endometriosis.
12.2	CO1,C02,CO3,CO6	Life style modifications in <i>Sinaippai Neerkatti</i> (PCOD).
12.3	CO1,C02,CO3	Complications of <i>Thuritha sinaippai seyalizhappu</i> (Premature ovarian failure).
12.4	CO1,C02,CO3	Clinical importance of tumour markers in the diagnosis of gynaecological cancers.
12.5	CO1,C02,CO3,CO6	<i>Maruthuva muraigal</i> (Treatment aspect) for pre malignant and borderline ovarian tumours.
13.1	CO1,C02,CO3	Screening method such as breast examination for <i>Nakil katti</i> (fibro adenoma).

13.2	CO1,C02,CO3	<i>Vagaigal</i> (types) of <i>Nakil putrunoi</i> (Breast cancer).
13.3	CO1,C02,CO3	Lifestyle modifications which influence the risk, progression and outcomes of <i>Nakil putrunoi</i> (breast cancer).
13.4	CO1,C02,CO3	<i>Nakil putrunoi vizhipunarvu thittam</i> (Breast cancer awareness program)
14.1	CO1,C02,CO3	Complications of <i>Karuppai kazhunthu thabitham</i> (cervicitis) and its <i>thadupu muraigal</i> (prevention methods).
14.2	CO1,C02,CO3	Screening, prevention, life style modifications of <i>Karuppai kazhunthu putru</i> (cervical cancer).
14.3	CO1,C02,CO3	Pelvic support system and risk factors of <i>Karuppai adithalal</i> (uterine prolapse)
15.1	CO1,C02,CO3	Clinical features, management and medical advice for <i>Vellai noi</i> (Leucorrhoea)
15.2	CO1,C02,CO3	<i>Thadupu muraigal</i> (prevention), early detection and screening of <i>Paalvenai noigal</i> (Sexually transmitted diseases).
15.3	CO1,C02,CO3	Diagnostic evaluation of <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (salpingitis).
15.4	CO1,C02,CO3	<i>Koobaga ellaippunoi</i> (Genital tuberculosis ) awareness program.
16.1	CO1,C02,CO3	Theory behind <i>Yoni suvar adithalal</i> (vaginal wall prolapse).
16.2	CO1,C02,CO3	Medical advice and pelvic floor exercise of <i>Siruneer adangamai</i> (Urinary Incontinence) in women.
16.3	CO1,C02,CO3	Discuss risk factors and complications, urinary tract infections (UTI) in pregnant post-menopausal women.

**Table 5 : List of Practicals**

(\*Refer table 3 of similar activity number)

<b>Practical No*</b>	<b>CO No</b>	<b>Practical Activity details</b>
1.1	CO1,C02	Enbu Koobagam (bony pelvis).
1.2	CO1,C02	Diameters and sutures of <i>Magavu kabalam</i> (Fetal skull) related to <i>Magaperu</i> (Labour).
1.3	CO1,C02	Cephalo pelvic relation to <i>Magavu kabalam</i> (Fetal skull) with <i>Enbu Koobagam</i> (Bony pelvis)
1.4	CO1,C02	Normal and abnormal <i>Uthayam</i> (Presentation) related to <i>Magaperu</i> (Abnormal labour)
1.5	CO1,C02	Normal and abnormal <i>Uthayapagam</i> (Denomination) related to <i>Asaatharana Magaperu</i> (Abnormal labour).
1.6	CO1,C02	Layers of <i>Vedabam</i> (Perineum) and <i>Vidapa kizhisal</i> (Episiotomy).
2.1	CO4,CO6,CO7	Copper-T insertion.
2.2	CO4,CO6,CO7	Various stages of <i>Karuurpathi</i> (Fertilization) according to Siddha aspect.
2.3	CO4,CO7,CO8	Various stages of <i>Karuurpathi</i> (Fertilization) according to modern aspects.
2.4	CO4,CO7	<i>Karu puthaithal</i> and <i>Maayai Valarchi</i> (Fetal implantation and Placental development) and its abnormalities.
2.5	CO4,CO7,CO8	USG findings to assess the Amniotic Fluid Index [AFI].
2.6	CO4,CO6,CO7	Anatomical and physiological changes of the women during <i>Sool Kaalam</i> (Pregnancy).
2.7	CO3,CO4,CO8	Confirmative signs of <i>Sool kaalam</i> (pregnancy) are detected by Ultra sonogram

		(USG).
2.8	CO3,CO4,CO6	Abdominal and pelvic grip examination of <i>Sool kaalam</i> (Ante-natal period)
2.9	CO4,CO6,CO7	Systemic complications of <i>Sool kaalam</i> (Ante-natal period )
2.10	CO4,CO6,CO7	<i>Magapperu Sanjeevi</i> medicine kit administered during <i>Sool kaalam</i> (Ante natal period) and its importances.
3.1	CO4,CO7	Clinical manifestations of <i>Suga magapperu nadai</i> (stages of normal labour).
3.2	CO4,CO7	Three stages of <i>Suga magapperu nadai</i> (stages of normal labour).
3.3	CO4,CO7	Clinical manifestations in the <i>Suga magapperu nigazhchigal</i> (mechanism of labour).
3.4	CO4,CO7	Factors that affect the mechanisms of <i>Suga magapperu</i> (Normal labour).
3.5	CO4,CO6,CO7	Third stage management of <i>Suga magapperu</i> (Normal delivery).
3.6	CO4,CO6,CO7	Siddha management (both internal and external therapy) for <i>Suga magapperu</i> (Normal delivery).
3.7	CO4,CO7	<i>Suga magapperu</i> (Normal delivery) related to <i>Sool poopu kugaranam</i> (post-partum complications).
4.1	CO6,CO7	Clinical manifestations of <i>Pin pidari udhayam</i> (Occipito posterior position).
4.2	CO6,CO7	Clinical examinations of <i>Putta udhayam</i> (Breech presentation).
4.3	CO6,CO7	Diagnostic techniques and evaluation of <i>Putta udhayam</i> (Breech presentation).
4.4	CO6,CO7	Identification, abdominal palpation, and vaginal examination of <i>Muga udhayam</i> (Face presentation)
4.5	CO6,CO7	Clinical manifestations of <i>Puruva udhayam</i> (Brow presentation).
4.6	CO6,CO7	Abdominal and pelvic examination to assess the fetal lie and identify <i>Kurukku</i>

		<i>paduththal</i> (transverse and oblique lie).
4.7	CO6,CO7	Clinical examination and abdominal palpation for <i>Irattai kuzhavi sool</i> (Twin pregnancy).
4.8	CO6,CO7	Clinical manifestations of <i>Pin thangiya maayai</i> (Retained placenta) by manual and vaginal examination.
5.1	CO3,CO7	Clinical manifestations of <i>Kurai Magapperu</i> (Preterm delivery).
5.2	CO3,CO7	Clinical examination of <i>Pura karuppai sool</i> (Ectopic pregnancy).
5.3	CO3,CO7	Clinical manifestations of <i>Neer kumil kazhalai</i> (Hydatiform mole).
5.4	CO3,CO7	Clinical manifestations of <i>Athepanineer</i> (Polyhydramnios's)
5.5	CO3,CO7	Diagnosis of different types of <i>Karuchethaivu</i> (Abortion).
5.6	CO3,CO7	Diagnosis of <i>Magaperu mun utherasalai</i> (Antepartum haemorrhage).
5.7	CO3,CO7	Clinical manifestations of <i>Magaperu pin utherasalai</i> (Post-partum haemorrhage) and <i>Sakthiyatra karuppai</i> (Atonic uterus).
6.1	CO4,CO6,CO7	Clinical features of Erythroblastosis foetalis and its management.
6.2	CO4,CO8	Clinical importance of state and central government schemes related to pregnancy.
6.3	CO4,CO6	Pathophysiology, signs and symptoms, and diagnosis of <i>Vida sool vaanthi</i> (Hyperemesis gravidarum).
6.4	CO4,CO7	Early detection and management of <i>sool kaala Athi kuruthi azhuththam</i> (Gestational hypertension)
6.5	CO4,CO6,CO7	Clinical manifestations of <i>Sool vali murkuri</i> (Pre-eclampsia).
6.6	CO4,CO6,CO7	Clinical assessment and management of <i>Sool valippu</i> (Eclampsia).

6.7	CO4,CO6,CO8	Clinical assessment and complications of <i>Sool kaala Mathumegam</i> (Gestational diabetes).
6.8	CO4,CO7	Diagnosis and complications of <i>Sool kala paandu noi</i> (Gestational Anaemia).
6.9	CO4,CO6,CO7	Clinical assessment of complications due to <i>Sool kaala Thotru noigal</i> (Maternal Infections during pregnancy).
6.10	CO4,CO6,CO7	Clinical management of <i>sool kaala kurai Veethana kolarugal</i> (Gestational hypothyroidism).
6.11	CO3,CO4,CO6	Impact of gynaecological diseases which complicate <i>sool kaalam</i> (pregnancy) and <i>magapperu</i> (labour).
7.1	CO3,CO4,CO7	Systemic physiological changes in the <i>Sool Poopu kalam</i> (Post-partum period).
7.2	CO3,CO6,CO7	Demonstrate the clinical manifestations of the <i>Sool poopu paramarippu</i> (Postpartum management)
7.3	CO3,CO6,CO7	Clinical manifestations of <i>Sool poopu sanjchara noigal</i> (Puerperal sepsis).
7.4	CO3,CO7	Physical features and care of <i>Suga Magavu</i> (Term baby).
7.5	CO4,CO6,CO7	<i>Karuppai matrangal</i> (Uterus changes) during <i>Sool poopu kaalam</i> (Puerperal period)
7.6	CO3,CO7	Clinical examination of <i>Sool poopu kaala ula pirazhivu noigal</i> (Puerperal psychosis).
8.1	CO3,CO6,CO7,CO8	Clinical importance of <i>Karuppai visigal</i> (Uterine ligaments).
8.2	CO1,CO2,CO3	Clinical relevance of <i>Sinaippai and Sinaippathai</i> (ovary and fallopian tube).
8.3	CO3,CO7,CO8	Layers of <i>Koobaga tharai</i> (Pelvic floor), and discuss the pelvic floor dysfunction.
8.4	CO3,CO7,CO8	

		Clinical manifestations of <i>Piravi Kuraipadugal</i> (Congenital Malformations) of female genital organs
9.1	CO1,C02,C03	Influences of the HPO (Hypothalamic-Pituitary-Ovarian) axis on menstrual disorders.
9.2	CO1,C02,C03,C08	Clinical significance and diagnostic applications of FSH and LH hormones.
9.3	CO1,C03,C05	The impact of lifestyle changes on <i>Poopu suzharchi nigazhvugal</i> (phases of the menstrual cycle).
9.4	CO1,C02,C03,C07	Functions of <i>Sinaippai surappu</i> (oestrogen), and <i>Peethaga surappu</i> (progesterone) in relation to reproductive health.
9.5	CO1,C02,C03	Role of <i>Veethana surappu</i> (Thyroid hormone) and <i>Pirukoobari surappu</i> (adrenal hormones) in regulating the menstrual cycle.
9.6	CO1,C02,C03,C07	Clinical manifestations of <i>Poopu suzharchi nigazhvugal</i> (phases of menstrual cycle).
9.7	CO1,C03,C08	Diagnosis and clinical features of <i>Muthal poopu</i> (menarche).
9.8	CO1,C03,C07,C08	Clinical manifestations of <i>Thuritha muthal poopu</i> (Precocious puberty).
9.9	CO1,C03,C07,C08	Stages and clinical assessment of <i>Kadaipoopu</i> (Menopause).
9.10	CO1,C03,C07,C08	Clinical manifestations and diagnosis, of <i>Kadaipoopu pin noigal</i> (Post-menopausal diseases).
9.11	CO3,C07,C08	Diagnostic evaluation and management of <i>Irupalina noigal</i> (Intersex diseases).
10.1	CO3,C06,C07,C08	Siddha management of <i>Perumpadu</i> (Menorrhagia).
10.2	CO3,C06,C07,C08	Clinical manifestations of <i>Soothaga thadai</i> (Amenorrhea).
10.3	CO3,C07,C08	Clinical manifestations and complications of <i>Perumpadu</i> (Menorrhagia).
10.4	CO3,C06,C07,C08	Diagnostic evaluation and external therapy management of <i>Soothaga vali</i> (Dysmenorrhea)

10.5	CO3,CO7,CO8	Clinical manifestations of <i>Kadaipoopu pin utherasalai</i> (Postmenopausal bleeding).
11.1	CO3,CO7,CO8	Diagnostic approaches of <i>Pen Magaperinmai</i> ( female infertility).
11.2	CO3,CO7,CO8	Clinical manifestations of <i>Aan Magaperinmai</i> (Male Infertility).
11.3	CO3,CO7,CO8	Clinical manifestations of <i>Pen Magaperinmai</i> (female Infertility).
11.4	CO3,CO6,CO7,CO8	Siddha medical management of <i>Aan Magaperinmai</i> (Male Infertility).
11.5	CO3,CO6,CO7,CO8	Siddha medical management of <i>Pen Magaperinmai</i> (female Infertility).
11.6	CO3,CO7	Video demonstration of assisted reproduction techniques like IUI, IVF, ICSI.
12.1	CO3,CO6,CO7,CO8	Clinical features for <i>sinaippai katti</i> (simple ovarian cyst).
12.2	CO3,CO6,CO7,CO8	Clinical features for <i>Sinaippai kazhalaigal</i> (benign tumours in the ovary).
12.3	CO3,CO6,CO7,CO8	Clinical manifestations of <i>Sinaippai Neerkatti</i> (PCOD).
12.4	CO3,CO6,CO7,CO8	Clinical management of <i>Sinaippai piravi katti</i> (dermoid cyst).
12.5	CO3,CO6,CO7,CO8	Clinical manifestations of <i>Sinaippai kuruthi katti</i> (Chocolate cyst of ovary).
12.6	CO3,CO6,CO7,CO8	Clinical features of <i>Sinaippai seyelpaadu kuraivu</i> (Ovarian insufficiency).
12.7	CO3,CO6,CO7,CO8	Clinical features of <i>Sinaippai thirugal</i> (Ovarian torsion).
12.8	CO3,CO6,CO7,CO8	Clinical features of <i>Thuritha sinaippai seyalzhappu</i> (Premature ovarian failure).
12.9	CO3,CO6,CO7,CO8	Clinical features of <i>Sinaippai thunduthal noi</i> (Ovarian Hyper Stimulation

		Syndrome)
12.10	CO3,CO6,CO7,CO8	Stages related to management of <i>Sinaippai putru noi</i> (Carcinoma of Ovary).
13.1	CO3,CO7,CO8	Clinical manifestations of <i>Marbaga naarthasai katti</i> (Fibro adenoma breast) .
13.2	CO3,CO7,CO8	Clinical features of <i>Nakil thabitham</i> (Mastitis) and <i>Nakil seelkatti</i> (Breast abscess).
13.3	CO3,CO7,CO8	Diagnosis and management of <i>Nakil putru noi</i> (Breast cancer).
13.4	CO3,CO7,CO8	Clinical manifestation of different stages of <i>Nakil putrunoi</i> (Breast cancer)
14.1	CO3,CO7,CO8	Clinical features of <i>Karuppai thasai naarkazhalai</i> (Fibroid Uterus).
14.2	CO3,CO7,CO8	Clinical manifestations of <i>Karuppai kambu kazhalai</i> (Endometrial polyp), <i>Karuppai kazhunthu kambu kazhalai</i> (cervical polyp), <i>Karuppai utkavasa neetchi</i> (Adenomyosis), <i>Karuppai utkavasa thadippu</i> (endometrial hyperplasia).
14.3	CO3,CO7,CO8	Stages of <i>Karuppai kazhunthu putru</i> (Cervical cancer)
14.4	CO3,CO7,CO8	Clinical features of acute and chronic <i>Karuppai kazhunthu thabitham</i> (Cervicitis).
14.5	CO3,CO7,CO8	Clinical features of <i>Karuppai adithalal</i> (Uterine prolapse).
15.1	CO3,CO7,CO8	Clinical features of <i>Karuppai utkavasa thabitham</i> (Endometritis).
15.2	CO3,CO7,CO8	Clinical features and preparation of a vaginal smear for <i>Vellai noi</i> (Leucorrhoea).
15.3	CO3,CO7,CO8	Clinical features of <i>Paalvenai noigal</i> (STD - Sexually transmitted diseases).
15.4	CO3,CO7,CO8	Clinical features of <i>Sinaippai thabitham</i> (Oophoritis) and <i>Sinaippathai thabitham</i> (Salpingitis).
15.5	CO3,CO7,CO8	Clinical features of <i>Bartholin surapi thabitham</i> (Bartholinitis) and <i>Yoni neerkatti</i> (vaginal cyst) and its management.

15.6	CO3,CO7,CO8	Clinical features of <i>Koobaga ellaippunoi</i> (Pelvic tuberculosis-TB).
16.1	CO3,CO7,CO8	Clinical features of <i>Manovigara noigal</i> (Psychosomatic disorders) in women's.
16.2	CO3,CO7,CO8	Clinical features of <i>Yoni suvar adithalal</i> (Vaginal wall prolapse).
16.3	CO3,CO7,CO8	Clinical features of <i>Siruneer vega kolaarugal</i> like stress incontinence and urge incontinence.
16.4	CO3,CO7,CO8	Clinical features of <i>Siruneer paathai thotrugal</i> (Urinary tract infection).
16.5	CO3,CO7,CO8	Clinical features of <i>Siruneer paathai kayangal</i> (Urinary tract injury).

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

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

Subject Code	Papers	Theory	Practical/Clinical Assessment (150)					Grand Total
			Practical	Viva	Elective	IA	Sub Total	
SIDUG-SMM	2	200	100	30	-	20	150	350

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

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

Term	Periodical Assessment*				Term Test**	Term Assessment	
	A	B	C	D		F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C/3) (20)	Term Test (MCQ+SAQ+LAQ and Practical) (Converted to 20)	Sub Total	Term Assessment
First						D+E	D+E /2
Second						D+E	D+E /2
Third					NIL		D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						
	* Select an Evaluation Methods which is appropriate for the objectives of Topics from the Table 6 D. Convert it to 20 marks. ** Conduct Theory (100 Marks) (MCQ (20*1 Marks), SAQ (8*5), LAQ (4*10)) and Practical (100 Marks) Then convert to 20 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

Exam type	Paper 1	Paper 2
PA1	Topic No - 1	Topic No – 8
PA 2	Topic No - 1,2	Topic No – 9
PA 3	Topic No - 2	Topic No – 10
TT 1	Topic No - 1,2	Topic No – 8,9,10
PA 4	Topic No - 3	Topic No – 11
PA 5	Topic No - 4	Topic No – 12
PA 6	Topic No - 5	Topic No – 13
TT 2	Topic No - 3,4,5	Topic No – 11,12,13
PA 7	Topic No - 6	Topic No -14
PA 8	Topic No - 6/7	Topic No – 15
PA 9	Topic No - 7	Topic No -16

## 6 E : Question Paper Pattern

### III PROFESSIONAL B.S.M.S EXAMINATIONS SIDUG-SMM PAPER-I

Time: 3 Hours Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

		<b>Number of Questions</b>	<b>Marks per question</b>	<b>Total Marks</b>
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**

<b>Paper 1 (SOOL MARUTHUVAM)</b>					
<b>Sr. No</b>	<b>A List of Topics</b>	<b>B Marks</b>	<b>MCQ</b>	<b>SAQ</b>	<b>LAQ</b>
1	Koobaga Udalkoorugal (Pelvic Anatomy)	7	Yes	Yes	No
2	Iyalbana sool (Normal Pregnancy)	20	Yes	Yes	Yes
3	Suga magapperu (Normal delivery)	10	Yes	Yes	Yes
4	Asaatharana magapperu (Abnormal labour)	17	Yes	Yes	Yes
5	Asaatharana sool (Pathology of pregnancy)	18	Yes	Yes	Yes
6	Soolkaala pothu noigal (General diseases in pregnancy)	18	Yes	Yes	Yes
7	Soolpoopu kalam (Puerperal period)	10	Yes	Yes	Yes
<b>Total Marks</b>		<b>100</b>			

<b>Paper 2 (MAGALIR MARUTHUVAM)</b>					
<b>Sr. No</b>	<b>A List of Topics</b>	<b>B Marks</b>	<b>MCQ</b>	<b>SAQ</b>	<b>LAQ</b>
8	Inaperukka Udalkoorugal (Reproductive Anatomy)	9	Yes	Yes	No
9	Inaperukka Udalseyalial (Reproductive physiology)	10	Yes	Yes	Yes
10	Poopu suzharchi noigal (Menstrual disorders)	14	Yes	Yes	Yes
11	Mageparinmai (Infertility)	12	Yes	Yes	Yes
12	Sinaippai noigal (Ovarian disorders)	12	Yes	Yes	Yes
13	Marbaga noigal (Diseases of Breast)	10	Yes	Yes	Yes
14	Karuppai noigal (Uterine disorders)	13	Yes	Yes	Yes
15	Koobaga thotru noigal (Pelvic inflammatory diseases)	12	Yes	Yes	Yes
16	Siruneer vega kolaarugal (Urogynaecological disorders)	8	Yes	Yes	No
<b>Total Marks</b>		<b>100</b>			

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

1. All questions shall be compulsory.
2. The maximum marks for one question paper shall be 100.
3. 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)).
4. 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.
5. Ensure that the total marks allocated per topic/group of topics do not exceed the limits specified in Table 6F.
6. 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”.
7. Each 100-mark question paper shall contain:
  - 20 MCQs
  - 8 SAQs
  - 4 LAQs
8. 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.
9. 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.
10. 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.
11. Long Answer Questions shall be structured to assess higher cognitive abilities, such as application, analysis, and synthesis.
12. Follow the guidelines in User Manual III for framing MCQs, SAQs, and LAQs.

**Demo Blueprint for Illustration. Blue printing should be done based on Instructions for Question paper setting and using 6 F table.**

<b>Paper No:1</b>		
<b>Question No</b>	<b>Type of Question</b>	<b>Question Paper Format</b>
<b>Q1</b>	<p><b>Multiple choice Questions</b>  <b>20 Questions</b>  <b>1 mark each</b>  <b>All compulsory</b></p>	<ol style="list-style-type: none"> <li>1. Koobaga Udalkoorugal (Pelvic Anatomy)</li> <li>2. Iyalbana sool (Normal Pregnancy)</li> <li>3. Iyalbana sool (Normal Pregnancy)</li> <li>4. Iyalbana sool (Normal Pregnancy)</li> <li>5. Asaatharana magapperu (Abnormal labour)</li> <li>6. Asaatharana magapperu (Abnormal labour)</li> <li>7. Asaatharana sool (Pathology of pregnancy)</li> <li>8. Asaatharana sool (Pathology of pregnancy)</li> <li>9. Asaatharana sool (Pathology of pregnancy)</li> <li>10. Soolkaala pothu noigal (General diseases in pregnancy)</li> <li>11. Soolkaala pothu noigal (General diseases in pregnancy)</li> <li>12. Soolkaala pothu noigal (General diseases in pregnancy)</li> <li>13. Soolpoopu kalam (Puerperal period)</li> <li>14. Soolpoopu kalam (Puerperal period)</li> <li>15. Soolpoopu kalam (Puerperal period)</li> <li>16. Soolpoopu kalam (Puerperal period)</li> <li>17. Soolpoopu kalam (Puerperal period)</li> <li>18. Koobaga Udalkoorugal (Pelvic Anatomy)</li> <li>19. Suga magapperu (Normal delivery)</li> <li>20. Suga magapperu (Normal delivery)</li> </ol>
<b>Q2</b>	<p><b>Short answer Questions</b>  <b>8 Questions</b>  <b>5 Marks Each</b>  <b>All compulsory</b></p>	<ol style="list-style-type: none"> <li>1. Koobaga Udalkoorugal (Pelvic Anatomy)</li> <li>2. Iyalbana sool (Normal Pregnancy)</li> <li>3. Suga magapperu (Normal delivery)</li> <li>4. Suga magapperu (Normal delivery)</li> <li>5. Asaatharana magapperu (Abnormal labour)</li> <li>6. Asaatharana sool (Pathology of pregnancy)</li> <li>7. Soolkaala pothu noigal (General diseases in pregnancy)</li> <li>8. Soolpoopu kalam (Puerperal period)</li> </ol>
<b>Q3</b>	<p><b>Long answer Questions</b>  <b>4 Questions</b>  <b>10 marks each</b>  <b>All compulsory</b></p>	<ol style="list-style-type: none"> <li>1. Asaatharana magapperu (Abnormal labour)</li> <li>2. Asaatharana sool (Pathology of pregnancy)</li> <li>3. Soolkaala pothu noigal (General diseases in pregnancy) / Suga magapperu (Normal delivery)</li> <li>4. Soolpoopu kalam (Puerperal period) / Iyalbana sool (Normal Pregnancy)</li> </ol>
<b>Paper No:2</b>		
<b>Question No</b>	<b>Type of Question</b>	<b>Question Paper Format</b>

<p><b>Q1</b></p>	<p><b>Multiple choice Questions</b>  <b>20 Questions</b>  <b>1 mark each</b>  <b>All compulsory</b></p>	<ol style="list-style-type: none"> <li>1. Inaperukka Udalkoorugal (Reproductive Anatomy)</li> <li>2. Inaperukka Udalkoorugal (Reproductive Anatomy)</li> <li>3. Inaperukka Udalkoorugal (Reproductive Anatomy)</li> <li>4. Poopu suzharchi noigal (Menstrual disorders)</li> <li>5. Poopu suzharchi noigal (Menstrual disorders)</li> <li>6. Poopu suzharchi noigal (Menstrual disorders)</li> <li>7. Mageparinmai (Infertility)</li> <li>8. Mageparinmai (Infertility)</li> <li>9. Sinaippai noigal (Ovarian disorders)</li> <li>10. Sinaippai noigal (Ovarian disorders)</li> <li>11. Karuppai noigal (Uterine disorders)</li> <li>12. Karuppai noigal (Uterine disorders)</li> <li>13. Koobaga thotru noigal (Pelvic inflammatory diseases)</li> <li>14. Koobaga thotru noigal (Pelvic inflammatory diseases)</li> <li>15. Siruneer vega kolaarugal (Urogynaecological disorders)</li> <li>16. Siruneer vega kolaarugal (Urogynaecological disorders)</li> <li>17. Inaperukka Udalseyalial (Reproductive physiology)</li> <li>18. Inaperukka Udalseyalial (Reproductive physiology)</li> <li>19. Marbaga noigal (Diseases of Breast)</li> <li>20. Marbaga noigal (Diseases of Breast)</li> </ol>
<p><b>Q2</b></p>	<p><b>Short answer Questions</b>  <b>8 Questions</b>  <b>5 Marks Each</b>  <b>All compulsory</b></p>	<ol style="list-style-type: none"> <li>1. Inaperukka Udalkoorugal (Reproductive Anatomy)</li> <li>2. Inaperukka Udalseyalial (Reproductive physiology)</li> <li>3. Sinaippai noigal (Ovarian disorders)</li> <li>4. Koobaga thotru noigal (Pelvic inflammatory diseases)</li> <li>5. Mageparinmai (Infertility)</li> <li>6. Marbaga noigal (Diseases of Breast)</li> <li>7. Poopu suzharchi noigal (Menstrual disorders)</li> <li>8. Siruneer vega kolaarugal (Urogynaecological disorders) / Karuppai noigal (Uterine disorders)</li> </ol>
<p><b>Q3</b></p>	<p><b>Long answer Questions</b>  <b>4 Questions</b>  <b>10 marks each</b>  <b>All compulsory</b></p>	<ol style="list-style-type: none"> <li>1. Marbaga noigal (Diseases of Breast)</li> <li>2. Poopu suzharchi noigal (Menstrual disorders) / Inaperukka Udalseyalial (Reproductive physiology)</li> <li>3. Sinaippai noigal (Ovarian disorders) / Mageparinmai (Infertility)</li> <li>4. Koobaga thotru noigal (Pelvic inflammatory</li> </ol>



## 6 H : Distribution of Practical Exam

S.No	Heads	Marks
1	<p>Major-clinical examination (Long case - 1)</p> <p>Duration 1&amp;1/2 hrs</p> <p>Procedure: IPD case diagnosis</p> <p>Distribution of Marks</p> <ol style="list-style-type: none"><li>1. Complaints and duration- 5 marks</li><li>2. History Taking - 5 marks</li><li>3. Pothu parisodhanai, vital signs - 5 marks</li><li>4. Sirappu parisodhanai (Pelvic, vaginal, and breast examinations) -10 marks</li><li>5. Udal thathukkal- 5 marks</li><li>6. Envagai thervu - 10 marks</li><li>7. Investigations, Neer kuri and Nei kuri - 5 marks</li><li>8. Noi kanippu vivatham - 5 marks</li><li>9. Mukkutra verupadugal - 5 marks</li><li>10. Noi kanippu - 5 marks</li><li>11. One day medicine - 5 marks</li><li>12. Medical advice - 5 marks</li></ol>	70
2	<p>Minor clinical examination (Spotters)</p> <p>Total no of spotters / Marks (5 x 4 = 20)</p> <p>Duration: Each spotter has 6 minutes.</p> <ol style="list-style-type: none"><li>1. Instrument</li><li>1. Identify the instrument.</li></ol>	20

	<p>2. What is the use of these instrument?</p> <p>3. Write its application.</p> <p>4. Write clinical relevant about the instruments</p> <p>2 .Specimens / Slides</p> <p>1. Identify the specimen / slide.</p> <p>2. What are the typical features?</p> <p>3. Write the clinical implication and relevance.</p> <p>4. Write its relevant differential diagnosis.</p> <p>3. Imaging studies</p> <p>1. Identify the image study.</p> <p>2. Name the diseases diagnose by the image study.</p> <p>3. Write its differential diagnosis</p> <p>4. Write its complication</p> <p>4. Case scenario</p> <p>1. What is the most likely diagnosis?</p> <p>2. Write its differential diagnosis.</p> <p>3. Write its investigations.</p> <p>4. Write its treatment aspect</p> <p>5. Procedures</p> <p>1. What is its indication?</p> <p>2. Write its mechanism</p> <p>3. Write the performance of the procedure</p> <p>4. Write its relevent medical advice</p>	
3	Case sheet record	10

4	Viva	30
5	Internal assessment	20
<b>Total Marks</b>		<b>150</b>

## References Books/ Resources

S.No	Resources
1	Venugopal BM. Sool Maruthuvam. Chennai: Directorate of Indian Medicine and Homeopathy. (Text book)
2	Venugopal BM. Magalir Maruthuvam. 1st ed. Chennai: Department of Indian Medicine and Homeopathy; 1971. (Text book)
3	Konar.,Hiralal ., DC Dutta's Textbook of Obstetrics,10 th Edn., New Delhi: Jaypee Brothers Medical Publishers Pvt.Ltd., 2022,ISBN ; 978-9352702428.
4	Gopalan,Sarala,et.al., (editors) , Mudaliar and Menon's Clinical Obstetrics, 12 th Edn.,Hyderabad,Universities Press Pvt Ltd., 2015,ISBN;978-8173719530.
5	Hiralal Konar. DC Dutta's Textbook of Gynecology. 9th ed. New Delhi: Jaypee Brothers Medical Publishers; 2024.
6	Howkins J, Padubidri VG, Daftary SN. Textbook of Shaw's Gynaecology. 18th ed. Noida: Elsevier India; 2022.
7	Government of India Ministry of Ayush. Siddha Standard Treatment Guidelines. 1st ed.; 2019.
8	Pillai CK. Chikitcha Rathna Deepam Ennum Vaithya Nool. 1st ed. Chennai: Thirumagal Achagam-26; 2007.
9	Pillai CK. Kannusamy Parambarai Vaithyam. 9th ed. Chennai: Thirumagal Achagam-26; 2012.
10	Uthamarayan KS. Siddhar Aruvai Maruthuvam. 6th ed. Chennai: Directorate of Indian Medicine and Homeopathy; 2013.
11	Thiyagarajan R. Gunapadam Thathu Vagupu. 3rd ed. Chennai: Directorate of Indian Medicine and Homeopathy; 2019.
12	Mohan RC. Pulipani Vaithyam-500. 4th ed. Chennai: Thamarai Noolagam26; 2019.
13	Mudhaliyar KN. Siddha Maruthuvam (Podhu). 2nd ed. Chennai: Directorate of Indian Medicine and Homeopathy; 2012.
14	Palaramaiya V. Siddha Marunthu Sei Muraigal. 2nd ed. Chennai: Directorate of Indian Medicine & Homeopathy; 1980.

15	Mudaliyar KS. Gunapadam Mooligai Vaguppu, 1st Part. Chennai: Directorate of Indian Medicine & Homeopathy.
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## Abbreviations

Domain		T L Method		Level		Assessment		Integration	
CK	Cognitive/Knowledge	L	Lecture	K	Know	T-CS	Theory case study	V-SATV	V-SATV
CC	Cognitive/Comprehension	L&PPT	Lecture with PowerPoint presentation	KH	Knows how	T-OBT	Theory open book test	V-UK	V-UK
CAP	Cognitive/Application	L&GD	Lecture & Group Discussion	SH	Shows how	P-VIVA	Practical Viva	V-UT	V-UT
CAN	Cognitive/Analysis	L_VC	Lecture with Video clips	D	Does	P-REC	Practical Recitation	V-UV	V-UV
CS	Cognitive/Synthesis	REC	Recitation			P-EXAM	Practical exam	V-NU	V-NU
CE	Cognitive/Evaluation	SY	Symposium			PRN	Presentation	V-MT	V-MT
PSY-SET	Psychomotor/Set	TUT	Tutorial			P-PRF	Practical Performance	V-GMM	V-GMM
PSY-GUD	Psychomotor/Guided response	DIS	Discussions			P-SUR	Practical Survey	V-GMK	V-GMK
PSY-MEC	Psychomotor/Mechanism	BS	Brainstorming			P-EN	Practical enact	V-SSM-NM	V-SSM-NM
PSY-ADT	Psychomotor Adaptation	IBL	Inquiry-Based Learning			P-RP	Practical Role play	V-NN1	V-NN1
PSY-ORG	Psychomotor/Origination	PBL	Problem-Based Learning			P-MOD	Practical Model	V-NN2	V-NN2
AFT-REC	Affective/ Receiving	CBL	Case-Based Learning			P-POS	Practical Poster	V-NAVO	V-NAVO
AFT-RES	Affective/Responding	PrBL	Project-Based Learning			P-CASE	Practical Case taking	H-MM	H-MM
AFT-VAL	Affective/Valuing	TBL	Team-Based Learning			P-ID	Practical identification	H-VPS	H-VPS
AFT-SET	Affective/Organization	TPW	Team Project Work			P-PS	Practical Problem solving	H-AM	H-AM
AFT-CHR	Affective/ characterization	FC	Flipped Classroom			QZ	Quiz	H-SMM	H-SMM
PSY-PER	Psychomotor/perception	BL	Blended Learning			PUZ	Puzzles	H-KM	H-KM
PSY-COR	Psychomotor/ Complex Overt Response	EDU	Edutainment			CL-PR	Class Presentation	H-RM	H-RM
		ML	Mobile Learning			DEB	Debate		
		ECE	Early Clinical Exposure			WP	Word puzzle		
		SIM	Simulation			O-QZ	Online quiz		
		RP	Role Plays			O-GAME	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			PM	Patient management problems		
		PT	Practical			CHK	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			COM	Compilations		
		DL	Demonstration Lab			Portfolios	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-Practical	Practical		
						VV-Viva	Viva		
						DOAP	Demonstration Observation Assistance Performance		
						SBA	Scenario Based Assessment		
						CBA	Case based Assessment		
						S-LAQ	Structured LAQ		
						OSCE	Objective Structured Clinical Examination		
						OSPE	Objective Structured Practical Examination		

						DOPS	Direct observation of procedural skills		
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