

# ***FIRST YEAR***

**Subject No.4**  
**CLINICAL SPECIALITY-I**  
**OBSTETRIC AND GYNACOLOGICAL NURSING**

Total Hours: 810

Theory Hours: 150

Clinical Hours: 660

**AIM:**

- This course is designed to assist students in developing expertise and in-depth understanding in the field of obstetrics and gynecological nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as an independent midwifery practioners. It will further enable the student to function as educator, manager and researcher in the field of Obstetric and Gynecological nursing.

**OBJECTIVES:**

At the end of the course the students are able to:

- Appreciate the trends in the field of midwifery, obstetrics and gynecology as a Speciality.
- Describe the population dynamics and indicators of maternal and child health.
- Describe the concepts of biophysical, psychological and spiritual aspects of normal pregnancy, labour and puerperium.
- Provide comprehensive nursing care to women during reproductive period.
- Integrate the concepts of family centered nursing care and nursing process approach in obstetric and gynecological nursing.
- Identify and analyze the deviations from normal birth process and refer appropriately.
- Describe the pharmacological agents, their effects during pregnancy, child birth, puerperium, lactation and the role of nurse.
- Counsel adolescents, women and families on issues of pertaining pregnancy, child birth and lactation.
- Describe the role of various types of complementary and alternative therapies in obstetrics and gynecological nursing.
- Incorporate evidence based nursing practice and identify the areas of research in the field of obstetric and gynecological nursing.
- Describe the recent advancement in contraceptive technology and birth control measures.
- Appreciate the Legal and Ethical issues pertaining to obstetric and gynecological nursing.

**COURSE CONTENTS:**

**Unit I -Introduction:**

- Historical and contemporary perspectives.
- Epidemiological aspects of maternal and child health.
- Magnitude of maternal and child health problems.
- Issues of maternal and child health; Age, Gender, Sexuality, psycho socio-cultural factors.
- Preventive obstetrics.
- National health and family welfare programmes related to maternal and child health: Health care delivery system, National Rural Health Mission, Role of NGO's.
- Theories, models and approaches applied to midwifery practice.
- Role and scope of midwifery practice:-Independent Nurse Midwifery practitioner
- Legal and ethical issues: code of ethics and standards of midwifery practice, standing orders.
- Evidence based midwifery practice.
- Research priorities in obstetric and gynecological nursing.

## **Unit II -Human reproduction:**

- Review of anatomy and physiology of human reproductive system:-male and female.
- Hormonal cycle, Embryology, Genetics, teratology and counseling, Clinical implications.
- Placenta at term, functions, uses, abnormalities, fetal sac, amniotic fluid, umbilical cord, fetal circulation , fetal skull.

## **Unit III -Pregnancy:**

- Maternal adaptation: Physiological, psychological.
- Assessment:-Maternal and fetal measures.
- Maternal measures: History taking, Examination-general, physical and obstetrical measures, identification of high risk.
- Foetal measures: Clinical parameters, bio chemical, human estriol, maternal serum Alfa Feto Protein, Acetyl choline esterase (AChE), Triple test Amniocentesis, Cordocentesis, and Chrionicvillus sampling (CVS).
- Biophysical :-US imaging, Foetal movement count, Ultra Sonography ,Cardio tomography, Contraction stress test(CST),Non stress test(NST) , Amnioscopy, Foetoscopy.
- Radiological examination.
- Prenatal Nutrition, Fetal medicine
- Vitamin D supplementation during pregnancy
- Interpretation of diagnostic tests and nursing implications.
- Nursing management of the women, minor disorders of pregnancy and management, preparation for child birth and parenthood, importance of institutional delivery, choice of birth setting, importance and mobilizing of transportation, parental counseling, role of nurse and crisis intervention, identification of high risk pregnancy and referral system.
- Alternative/complimentary therapies.

## **Unit IV -Normal labour and nursing Management:**

- Essential factors of labour, Stages and onset.
- **First stage:** Physiology of normal labour, Use of partograph: - principles, use and critical analysis, evidence based studies, Analgesia and anaesthesia in labour, Nursing management.
- **Second stage:** Physiology, intra partum monitoring, nursing management, Resuscitation, immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India).
- **Third stage:** Physiology and nursing management.
- **Fourth stage: Observation, critical analysis and nursing management**
- Various child birth practices: water birth, position change etc
- Evidence based practice in relation to labour intervention,
- **Role of practitioner nurse midwife**
- Alternative /complimentary therapies.

## **Unit V -Normal puerperium and nursing management:**

- Physiology of puerperium.
- Physiology of lactation, lactation management, exclusive breast feeding, Baby friendly hospital imitative (BFHI).
- Assessment of postnatal women.
- Minor discomforts and complications of puerperium.
- Management of mothers during puerperium: postnatal exercises, Rooming in, bonding, warm chain.
- Evidence based studies.
- **Role of practitioner nurse midwife.**

- Alternative/complementary therapies.
- Milk bank, stem cell banking

#### **Unit VI -Normal New Born:**

- Physiology and characteristics of normal newborn
- Physical and behavioral assessment of newborn
- Needs of newborn
- Essential newborn care: Exclusive breast feeding, Immunization, hygiene measures, newborn nutrition.
- Organization of neonatal care, services (levels), transport, neonatal Intensive care unit, organization and management of nursing unit, organization and management of nursing services in NICU.
- Observation and care of newborn.
- Parenting process.

#### **Unit VII -Pharmoco dynamics in obstetrics:**

- Drugs used in pregnancy, labour, post partum and newborn.
- Calculation of drug dose and administration.
- Effect of drugs used.
- Anesthesia and analgesia in obstetrics.
- Role and responsibilities of midwifery nurse practitioner.
- Painless labour, Nicotine replacement therapy during pregnancy,
- Standing orders and protocols and use of selected life saving drugs and interventions of obstetric emergencies approved by the MOHFW.

#### **Unit VIII -Family welfare services:**

- Population dynamics, Demography trends, vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems.
- Recent advancement in contraceptive technology.
- Role of nurses in family welfare programmes in all settings, Role of independent nurse midwifery practitioner.
- Emergency contraceptives
- Family life education, Evidence based studies.
- Information, education and communication (IEC), Management information and evaluation system (MIES).
- Teaching and supervision of health team members.

#### **Unit IX -Infertility:**

- Primary and secondary causes, Diagnostic procedures.
- Counseling: Ethical and legal aspects of assisted reproductive technology (ART)
- Recent advancement in infertility management, Adoption procedures.
- Surrogacy and its legal and ethical issues
- Role of nurse in infertility management.

#### **Unit X -Menopause:**

- Physiological, psychological and social aspects.
- Hormone replacement therapy, surgical menopause. Male Menopause
- Alternative and complementary therapies and Counseling & guidance,
- Role of practitioner nurse midwife.

#### **Unit XI -Abortion:**

- Types, causes, Legislations, Clinical rights and professional responsibility, Abortion procedures and **MTP ACT**, Complication.
- Nursing management, Role of practitioner nurse midwife.

**PRACTICAL:**

- **Procedures to be Observed:**

Diagnostic Investigations: Amniocentesis, Chordocentesis, Chorionic villi sampling.

Infertility Management: Artificial reproduction – Artificial insemination, in vitro fertilization and related procedures.

- **Procedures to be assisted:** Medical Termination of Pregnancy.

- **Procedures to be performed:**

Sr. No.	Activity	No. of cases
1	Antenatal Assessment	20
2	Post natal Assessment	20
3	Assessment during labour: Use of partograph	20
4	Per vaginal examination	20
5	Conduct of normal delivery	20
6	Episiotomy and suturing	10
7	Insertion of intra uterine devices (copper T)	05
8	Setting up delivery areas (Preferably to conduct abnormal delivery Otherwise student shall set area for conducting normal delivery)	01

- **Others:**

1. Identification of high risk women and referral.
2. Health Education: to women and their family members.
3. Motivation of couples for Planned Parenthood.

**CLINICAL SPECIALITY-I  
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<i>Unit No. &amp; total hours</i>	<i>Objectives</i>	<i>Contents with distributed hours</i>						
I (10 hours)	<p>At the end of unit students are able to</p> <p><b>Knowledge:</b> Recognize the trends and issues in obstetrics and gynecological nursing. Describe the role of nurse in family welfare programme.</p> <p><b>Skill:</b> Identify and differentiate various approaches applied in midwifery practice. Apply the theories and models in midwifery practice.</p> <p><b>Attitude:</b> Appreciate the importance of family welfare programme.</p>	<p><b>Introduction:</b></p> <ul style="list-style-type: none"> <li>• Historical and contemporary perspectives (1 Hr)</li> <li>• Epidemiological aspects of maternal and child health(1 hour)</li> <li>• Magnitude of maternal and child health problems</li> <li>• Issues of maternal and child health; Age, Gender, Sexuality Psycho socio-cultural factors.(1Hr)</li> <li>• Preventive obstetrics (1 hour)</li> <li>• National health and family welfare programmes related to maternal and child health:-Health care delivery system, National Rural health mission, Role of NGO's (2 hours)</li> <li>• Theories, models and approaches applied to midwifery practice.(1Hr)</li> <li>• Role and scope of midwifery practice :-Independent Nurse midwifery practitioner</li> <li>• Legal and ethical issues: code of ethics and standards of midwifery practice, standing orders (2 hour)</li> <li>• Evidence based midwifery practice (1 hour)</li> <li>• Research priorities in obstetric and gynecological nursing.</li> </ul>						
<b>Unit I -Introduction</b>								
CO-1: Define and describe Historical and contemporary perspectives								
CO-2: Define and describe Epidemiological aspects of maternal and child health								
CO-3: Define and describe issues of maternal and child health; Age, Gender, Sexuality ,Psycho socio-cultural factors								
CO-4:Explain about Preventive obstetrics								
CO-5: Define and describe National health and family welfare programmes related to maternal and child health.								
CO-6: Define and describe Theories, models and approaches applied to midwifery practice.								
CO-7:Explain the Role and scope of midwifery practice Independent Nurse midwifery practitioner								
CO-8: Identify and describe legal and ethical issues;.code of ethics and standards of midwifery practice and its standing orders.								
<b>Course Outcome</b>		<b>Programme Outcome</b>						
		<b>Clinician/Nurse Educator</b>	<b>Professional</b>	<b>Communica tor</b>	<b>Leader and member of the health care team and system</b>	<b>Life lon g lea rner</b>	<b>Critical thinker</b>	<b>Researcher</b>
CO-1: Define and describe Historical and contemporary perspectives		<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>

CO-2: Define and describe Epidemiological aspects of maternal and child health	3	3	3	1	2	3	3	
CO-3: Define and describe issues of maternal and child health; Age, Gender, Sexuality ,Psycho socio-cultural factors	3	3	3	1	2	3	3	
CO-4:Explain about Preventive obstetrics	3	3	3	1	2	3	3	
CO-5: Define and describe National health and family welfare programmes related to maternal and child health.	3	3	3	1	2	3	3	
CO-6: Define and describe Theories, models and approaches applied to midwifery practice.	3	3	3	1	2	3	3	
CO-7:Explain the Role and scope of midwifery practice Independent Nurse midwifery practitioner	3	3	3	1	2	3	3	
CO-8: Identify and describe legal and ethical issues:,code of ethics and standards of midwifery practice and its standing orders.	3	3	3	1	2	3	3	
<b>II</b> (15 hours)	<p>At the end of unit students are able to</p> <p><b>Knowledge:</b> Describe the anatomy and physiology of human reproductive system.</p> <p><b>Attitude:</b> Combines various interaction skills for genetic counseling.</p> <p><b>Human Reproduction:</b></p> <ul style="list-style-type: none"> <li>• Review of anatomy and physiology of human reproductive system:-male and female.(2 Hrs)</li> <li>• Placenta at term, functions, uses, abnormalities, fetal sac, amniotic fluid, umbilical cord, fetal circulation , fetal skull.(2hrs)</li> <li>• Hormonal cycle.(1 hour)</li> <li>• Embryology. (2 hours)</li> <li>• Genetics, teratology and counseling. (5 hours)</li> <li>• Clinical implications. (3 hours)</li> </ul>							
<b>Unit II -Human reproduction:</b>								
CO-1:Define and describe anatomy and physiology of human reproductive system male .								
CO-2: Define and describe anatomy and physiology of human reproductive system female.								
CO-3: Define and describe Placenta at term, functions, uses, abnormalities, fetal sac, amniotic fluid, umbilical cord, fetal circulation , fetal skull								
CO-4:Explain about Hormonal cycle								
CO-5:Explain Embryology in detail.								
CO-6: Define and describe Genetics, teratology and counseling regarding human reproduction.								
<b>Course Outcome</b>		<b>Programme Outcome</b>						
		<b>Clinician/Nurse Educator</b>	<b>Professional</b>	<b>Communicator</b>	<b>Leader and member of the health care team and system</b>	<b>Lifelong learner</b>	<b>Critical thinker</b>	<b>Researcher</b>
		<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>
CO-1:Define and describe anatomy and physiology of human reproductive system male .		3	3	3	1	2	3	3
CO-2: Define and describe anatomy and physiology of human reproductive system female.		3	3	3	1	2	3	3

CO-3: Define and describe Placenta at term, functions, uses, abnormalities, fetal sac, amniotic fluid, umbilical cord, fetal circulation, fetal skull	3	3	3	1	2	3	3
CO-4: Explain about Hormonal cycle	3	3	3	1	2	3	3
CO-5: Explain Embryology in detail.	3	3	3	1	2	3	3
CO-6: Define and describe Genetics, teratology and counseling regarding human reproduction.	3	3	3	1	2	3	3
III ( 25 hours)	<p>At the end of unit students are able to</p> <p><b>Knowledge:</b> Describe the diagnosis and management of women during antenatal period. Describe the concepts of biophysical and biochemical methods to assess maternal and fetal well being. Explain the role of midwives in preparation for child birth and parenthood.</p> <p><b>Skill:</b> Identifies physiological changes during pregnancy. Detects the minor disorders of pregnancy. Identifies the high risk pregnancies.</p> <p><b>Attitude:</b> Assist in fetal well being.</p> <p><b>Pregnancy:</b></p> <ul style="list-style-type: none"> <li>• <b>Maternal adaptation:</b> Physiological, psychological (3 hours)</li> <li>• <b>Assessment:-</b> Maternal and foetal measures. (2 hours)</li> <li>• <b>Maternal measures:-</b> History taking, Examination-general, physical and obstetrical measures, identification of high risk. (4 hours)</li> <li>• <b>Fetal measures:</b> Clinical parameters, bio chemical, human estriol, maternal serum Alfa Feto Protein, Acetyl choline</li> <li>• Esterase (AchE), Triple test Amniocentesis, Cordocentesis, Chrionicvillus sampling (CVS).(3 hours)</li> <li>• <b>Biophysical :-</b> US IMAGING, Foetal movement count, Ultrasonography, Cardio tocography, Contraction stress test(CST), Non stress test(NST)</li> </ul> <p>Amnioscopy, Foetoscopy. (3 hours)</p> <ul style="list-style-type: none"> <li>• Prenatal Nutrition, Fetal medicine</li> <li>• Vitamin D supplementation during pregnancy</li> <li>• Radiological examination (2hours)</li> <li>• Interpretation of diagnostic tests and nursing implications.(4 hours)</li> <li>• Nursing management of the women,</li> </ul> <p>Resent advancement in care of pregnant women ,minor disorders of pregnancy and management (3 hours)</p> <ul style="list-style-type: none"> <li>• Alternative/complimentary therapies (1 hour)</li> </ul>						
<b>Unit III -Pregnancy</b>							
CO-1: Identify and describe Physiological and psychological <b>Maternal adaptation in pregnancy.</b>							
CO-2: Identify and describe Maternal Measures and fetal measures							
CO-3: Define and describe Esterase (AchE), Triple test Amniocentesis, Cordocentesis and Chrionicvillus sampling (CVS)							
CO-4: Define and describe <b>Biophysical</b> test Ultrasonography Imageing, Foetal movement count, Cardio tocography, Contraction stress test(CST) ,Non stress test(NST) .Amnioscopy and Foetoscopy							
CO-5: Define and describe Prenatal Nutrition and Fetal medicine							
CO-6: Explain Vitamin D supplementation during pregnancy							
CO-7: Explain Radiological examinations.							
CO-8: Identify the interpretation of diagnostic tests and nursing implications.							
CO-9: Explain Nursing management of the women, Resent advancement in care of pregnant women.							
CO-10: Define and describe minor disorders of pregnancy and its management.							

CO-11:Identify Alternative/complimentary therapies used during pregnancy.							
Course Outcome	Programme Outcome						
	Clinician/Nurse Educator	Professional	Communicator	Leader and member of the health care team and system	Lifelong learner	Critical thinker	Researcher
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO-1:Identify and describe Physiological and psychological <b>Maternal adaptation in pregnancy.</b>	3	3	3	1	2	3	3
CO-2:Identifyand describe Maternal Measures and fetal measures	3	3	3	1	2	3	3
CO-3:Define and describe Esterase (AchE), Triple test Amniocentesis, Cordocentesis and Chrionicvillus sampling (CVS)	3	3	3	1	2	3	3
CO-4:Define and describe <b>Biophysical</b> test Ultrasonography Imageing, Foetal movement count, Cardio tocography, Contraction stress test(CST) ,Non stress test(NST) .Amnioscopy and Foetoscopy	3	3	3	1	2	3	3
CO-5: Define and describe Prenatal Nutrition and Fetal medicine	3	3	3	1	2	3	3
CO-6:Explain Vitamin D supplementation during pregnancy	3	3	3	1	2	3	3
CO-7:Explain Radiological examinations.	3	3	3	1	2	3	3
CO-8:Identify the interpretation of diagnostic tests and nursing implications.	3	3	3	1	2	3	3
CO-9:Explain Nursing management of the women, Resent advancement in care of pregnant women.	3	3	3	1	2	3	3
CO-10: Define and describe minor disorders of pregnancy and its management.	3	3	3	1	2	3	3
CO-11:Identify Alternative/complimentary therapies used during pregnancy.	3	3	3	1	2	3	3

<p>IV (25 hours)</p>	<p>At the end of unit students are able to  <b>Knowledge</b> Interprets the partograph correctly.  <b>Skill:</b> Identifies the early signs of stages of labour. Apply the partograph labour process.  <b>Attitude:</b> Asses the newborn and performs newborn resuscitation.</p>	<p><b>Normal Labor and Nursing Management:</b></p> <ul style="list-style-type: none"> <li>• Essential factors of labour</li> <li>• Stages and onset (1 hrs)</li> <li>• <b>First stage:</b> Physiology of normal labour, Use of partograph: principles, use and critical analysis, evidence based studies. (2 hrs)</li> <li>• Analgesia and anesthesia in labour. (3 hrs)</li> <li>• Nursing management.(2 hrs)</li> <li>• <b>Second stage:</b> Physiology, intra partum monitoring, nursing management, Resuscitation, immediate newborn care and initiate breast feeding (Guidelines of National neonatology forum of India). (3 hrs)</li> <li>• <b>Third stage:</b> Physiology and nursing management (4 hrs)</li> <li>• <b>Fourth stage:-Observation, critical analysis and nursing management.</b></li> <li>• Various child birth practices:-water birth, position change etc. (1 hr)</li> <li>• Evidence based practice in relation to labour intervention.(3hrs)</li> <li>• Role of practitioner nurse midwife. (4hrs)</li> <li>• Alternative /complimentary therapies. (2 hrs)</li> </ul>
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**Unit IV -Normal labour and nursing Management:**

- CO-1:Define and describe Normal Labor and Nursing Management,its Essential factors of labour and its stages and onset.  
CO-2: Define and describe **First stage**,Physiology of normal labour.  
CO-3:Define and describe Use of partograph: principles, use and critical analysis.  
CO-4:Identify analgesia and anesthesia in labour and its management  
CO-5: Define and describe **Second stage-its** Physiology, intra partum monitoring, nursing management, Resuscitation, immediate newborn care and initiate breast feeding.  
CO-6:Define and describe **Third stage**-Physiology and its nursing management  
CO-7: Define and describe **Fourth stage-Observation, critical analysis and nursing management**  
CO-8:Define and describe Various child birth practices-water birth, position change etc  
CO-9:Explain Evidence based practice in relation to labour intervention  
CO-10:Explain Role of practitioner nurse midwife  
CO-11:Identify and describe Alternative /complimentary therapies

Course Outcome	Programme Outcome						
	Clinician/ Nurse Educator	Professional	Communicator	Leader and member of the health care team and system	Lifelong learner	Critical thinker	Researcher
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO-1:Define and describe Normal Labor and Nursing Management,its Essential factors of labour and its stages and onset.	3	3	3	1	2	3	3

CO-2: Define and describe <b>First stage</b> ,Physiology of normal labour.	3	3	3	1	2	3	3
CO-3:Define and describe Use of partograph: principles, use and critical analysis.	3	3	3	1	2	3	3
CO-4:Identify analgesia and anesthesia in labour and its management	3	3	3	1	2	3	3
CO-5: Define and describe <b>Second stage</b> -its Physiology, intra partum monitoring, nursing management, Resuscitation, immediate newborn care and initiate breast feeding.	3	3	3	1	2	3	3
CO-6:Define and describe <b>Third stage</b> -Physiology and its nursing management	3	3	3	1	2	3	3
CO-7: Define and describe <b>Fourth stage-Observation, critical analysis and nursing management</b>	3	3	3	1	2	3	3
CO-8:Define and describe Various child birth practices-water birth, position change etc	3	3	3	1	2	3	3
CO-9:Explain Evidence based practice in relation to labour intervention	3	3	3	1	2	3	3
CO-10:Explain Role of practitioner nurse midwife	3	3	3	1	2	3	3
CO-11:Identify and describe Alternative /complimentary therapies	3	3	3	1	2	3	3
V (20 hours)	<p>At the end of unit students are able to</p> <p><b>Knowledge:</b> Describe the physiology of puerperium and its management. Describe the physiology of lactation.</p> <p><b>Skill:</b> Detect the minor discomforts and complications of puerperium.</p>						
<p><b>Normal puerperium and Nursing management:</b></p> <ul style="list-style-type: none"> <li>• Physiology of puerperium. (2 hrs)</li> <li>• Physiology of lactation, lactation management, exclusive breast feeding, Baby friendly hospital imitative (BFHI). (4 hrs)</li> <li>• Assessment of postnatal women. (3 hrs)</li> <li>• Minor discomforts and complications of puerperium.(2 hrs)</li> <li>• Management of mothers during puerperium:-postnatal exercises, Rooming in, bonding, warm chain.(3hrs)</li> <li>• Evidence based studies. (3 hrs)</li> <li>• Role of practitioner nurse midwife , Milk bank, steam cell banking (2 hrs)</li> <li>• Alternative/complementary therapies. (1 hr)</li> </ul>							
<b>UnitV: Normal puerperium and Nursing management:</b>							
CO-1:Define and describe normal puerperum amd its management.							
CO-2:Explain Physiology of puerperium							
CO-3: Define and describe Physiology of lactation,its lactation management, exclusive breast feeding andBaby friendly hospital imitative (BFHI).							
CO-4:Explain the assessment of postnatal women							
CO-5:Identify Minor discomforts and complications of puerperium.							
CO-6:Explain the management of mothers during puerperium-postnatal exercises, Rooming in, bonding, warm chain.							

CO-7:Explain Role of practitioner nurse midwife in normal puerperium , Milk bank and steam cell banking								
CO-8:Explain Alternative/complementary therapies in Normal puerperium								
Course Outcome		Programme Outcome						
		Clinician/Nurse Educator	Professional	Communicator	Leader and member of the health care team and system	Lifelong learner	Critical thinker	Researcher
		PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO-1:Define and describe normal puerperium amd its management.		3	3	3	1	2	3	3
CO-2:Explain Physiology of puerperium		3	3	3	1	2	3	3
CO-3: Define and describe Physiology of lactation,its lactation management, exclusive breast feeding andBaby friendly hospital imitative (BFHI).		3	3	3	1	2	3	3
CO-4:Explain the assessment of postnatal women		3	3	3	1	2	3	3
CO-5:Identify Minor discomfords and complications of puerperium.		3	3	3	1	2	3	3
CO-6:Explain the management of mothers during puerperium-postnatal exercises, Rooming in, bonding, warm chain.		3	3	3	1	2	3	3
CO-7:Explain Role of practitioner nurse midwife in normal puerperium , Milk bank and steam cell banking		3	3	3	1	2	3	3
CO-8:Explain Alternative/complementary therapies in Normal puerperium		3	3	3	1	2	3	3
VI (20 hours)	At the end of unit students are able to <b>Knowledge:</b> Describe the normal physiology of newborn. Describe the organization and management of neonatal services in NICU <b>Skill:</b> Perform neonatal assessment and identify the normal characteristics of newborn. Identifies the need of newborn. <b>Attitude:</b> Displays confidence while caring newborn.	<b>Normal Newborn:</b> <ul style="list-style-type: none"> <li>• Physiology and characteristics of normal newborn (3 hrs)</li> <li>• Physical and behavioral assessment of newborn. (2 hrs)</li> <li>• Needs of newborn. (2 hrs)</li> <li>• Essential newborn care:-Exclusive breast feeding, Immunization, hygiene measures, newborn nutrition.(5 hrs)</li> <li>• Organization of neonatal care, services (levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU.(3 hrs)</li> <li>• Observation and care of newborn.(3 hrs)</li> <li>• Parenting process.(2 hrs)</li> </ul>						
<b>UnitVI: Normal Newborn:</b>								
CO-1:Define and describe Normal Newborn- Physiology and characteristics of normal newborn.								
CO-2:Explain physical and behavioral assessment of newborn.								

CO-3:Identify needs of newborn n.								
CO-4:Define and describe Essential newborn care:-Exclusive breast feeding, Immunization, hygiene measures, newborn nutrition.								
CO-5:Define and describe Organization of neonatal care, services (levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU.								
CO-6:Explain observation and care of newborn								
CO-7:Explain parenting process in detail.								
<b>Course Outcome</b>		<b>Programme Outcome</b>						
		<b>Clinician/Nurse Educator</b>	<b>Professional</b>	<b>Communicator</b>	<b>Leader and member of the health care team and system</b>	<b>Lifelong learner</b>	<b>Critical thinker</b>	<b>Researcher</b>
		<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>
CO-1:Define and describe Normal Newborn-Physiology and characteristics of normal newborn.		3	3	3	1	2	3	3
CO-2:Explain physical and behavioral assessment of newborn.		3	3	3	1	2	3	3
CO-3:Identify needs of newborn n.		3	3	3	1	2	3	3
CO-4:Define and describe Essential newborn care:-Exclusive breast feeding, Immunization, hygiene measures, newborn nutrition.		3	3	3	1	2	3	3
CO-5:Define and describe Organization of neonatal care, services (levels), transport, neonatal intensive care unit, organization and management of nursing services in NICU.(		3	3	3	1	2	3	3
CO-6:Explain observation and care of newborn		3	3	3	1	2	3	3
CO-7:Explain parenting process in detail.		3	3	3	1	2	3	3
VII (10 hours)	At the end of unit students are able to <b>Knowledge:</b> Describe the pharmacological agents, their effects during pregnancy, labour, puerperium and newborn. Describe the role and responsibility of midwife in administration of drugs. <b>Skill:</b> Calculate the drug dose used. Identify the effects of drugs used.	<b>Pharmacodynamics in Obstetric:</b> <ul style="list-style-type: none"> <li>• Drugs used in pregnancy, labour, post partum and newborn. (2 hrs)</li> <li>• Calculation of drug dose and administration. (1 hr)</li> <li>• Effect of drugs used. (2 hrs)</li> <li>• Anesthesia and analgesia in obstetrics. (1 hr)</li> <li>• Role &amp; responsibilities of midwifery nurse practitioner (2hrs)</li> <li>• Standing orders and protocols and use of selected life saving drugs and Interventions of obstetric emergencies approved by the MOHFW (1 hrs)</li> <li>• Painless labour, Nicotine replacement therapy during pregnancy, (1 hrs)</li> </ul>						
<b>Unit VII: Pharmacodynamics in Obstetric:</b>								
CO-1:Identify drugs used in pregnancy, labour, post partum and newborn.								
CO-2:Explain Calculation of drug dose and administration.								

CO-3:Explain Effect of drugs used.							
CO-4:Identify and describe Anesthesia and analgesia in obstetrics.							
CO-5:Explain Role & responsibilities of midwifery nurse practitioner.							
CO-6:Explain Standing orders and protocols and use of selected life saving drugs and Interventions of obstetric emergencies approved by the MOHFW							
CO-7:Explain Painless labour and Nicotine replacement therapy during pregnancy.							
Course Outcome	Programme Outcome						
	Clinician/Nurse Educator	Professional	Communicator	Leader and member of the health care team and system	Lifelong learner	Critical thinker	Researcher
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO-1:Identify drugs used in pregnancy, labour, post partum and newborn.	3	3	3	1	2	3	3
CO-2:Explain Calculation of drug dose and administration.	3	3	3	1	2	3	3
CO-3:Explain Effect of drugs used.	3	3	3	1	2	3	3
CO-4:Identify and describe Anesthesia and analgesia in obstetrics.	3	3	3	1	2	3	3
CO-5:Explain Role & responsibilities of midwifery nurse practitioner.	3	3	3	1	2	3	3
CO-6:Explain Standing orders and protocols and use of selected life saving drugs and Interventions of obstetric emergencies approved by the MOHFW	3	3	3	1	2	3	3
CO-7:Explain Painless labour and Nicotine replacement therapy during pregnancy.	3	3	3	1	2	3	3
VIII (10 hours)	<p>At the end of unit students are able to</p> <p><b>Knowledge:</b> Describe the population dynamics and indicators of maternal child health. Describe the methods of contraception and role of nurse in family welfare programme.</p> <p><b>Skill:</b> Calculate the indicators of maternal and child health.</p> <p><b>Family Welfare Services:</b></p> <ul style="list-style-type: none"> <li>• Population dynamics. (1 hr)</li> <li>• Demography trends:-vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems.(2 hrs)</li> <li>• Recent advancement in contraceptive technology.</li> <li>• Emergency contraceptives (1 hr)</li> <li>• Role of nurses in family welfare programmes in all settings. (1 hr)</li> <li>• Role of independent nurse midwifery practitioner. (1 hour)</li> <li>• Family life education (1 hr)</li> <li>• Evidence based studies (1 hr)</li> <li>• Information, education and communication (IEC), Management information and evaluation system (MIES).(1 hr)</li> <li>• Teaching and supervision of health team members. ( 1 hr)</li> </ul>						

**Unit VIII: Family Welfare Services:**

- CO-1:Describe Population dynamics.  
 CO-2:Describe Demography trends:-vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems.  
 CO-3:Identify recent advancement in contraceptive technology.  
 CO-4:Explain Emergency contraceptives.  
 CO-5:Explain Role of nurses in family welfare programmes in all settings.  
 CO-6:Explain Role of independent nurse midwifery practitioner.  
 CO-7:Describe Family life education  
 CO-8:Describe Information, education and communication (IEC), Management information and evaluation system (MIES).  
 CO-9:Explain Teaching and supervision of health team members.

Course Outcome	Programme Outcome						
	Clinician/Nurse Educator	Professional	Communicator	Leader and member of the health care team and system	Lifelong learner	Critical thinker	Researcher
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO-1:Describe Population dynamics.	3	3	3	1	2	3	3
CO-2:Describe Demography trends:-vital statistics, calculation of indicators especially maternal and neonatal mortality rates and problems and other health problems.	3	3	3	1	2	3	3
CO-3:Identify recent advancement in contraceptive technology.	3	3	3	1	2	3	3
CO-4:Explain Emergency contraceptives.	3	3	3	1	2	3	3
CO-5:Explain Role of nurses in family welfare programmes in all settings.	3	3	3	1	2	3	3
CO-6:Explain Role of independent nurse midwifery practitioner.	3	3	3	1	2	3	3
CO-7:Describe Family life education	3	3	3	1	2	3	3
CO-8:Describe Information, education and communication (IEC), Management information and evaluation system (MIES).	3	3	3	1	2	3	3
CO-9:Explain Teaching and supervision of health team members.	3	3	3	1	2	3	3

IX (5 hours)	<p>At the end of unit students are able to</p> <p><b>Knowledge:</b> Define infertility, Classify the infertility based on its etiology. Describe the ethical and legal aspects of ART.</p> <p><b>Skill:</b> Identify the different diagnostic procedures used for infertility treatment.</p> <p><b>Attitude:</b> Provide comprehensive nursing care to client with infertility &amp; promote the interpersonal relationship.</p>	<p><b>Infertility:</b></p> <ul style="list-style-type: none"> <li>• Primary and secondary causes, Diagnostic procedures.(1 hr)</li> <li>• Counseling:-Ethical and legal aspects of assisted reproductive technology (ART) (1 hr)</li> <li>• Recent advancement in infertility management. (1 hr)</li> <li>• Adoption procedures and surrogacy and its legal and ethical issues. (1 hr)</li> <li>• Role of nurse in infertility management. (1 hr)</li> </ul>
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**Unit IX: Infertility:**

CO-1:Define and explain Infertility, Its causes,Diagnostic technique,and its management.

CO-2:Explain the Counseling on infertility and Ethical and legal aspects of assisted reproductive technology (ART).

CO-3: Explain recent advancement in infertility management

CO-4: Define and describe Adoption procedures and surrogacy and its legal and ethical issues.

CO-5: Explain the Role of midwifery nurse practitioner in Infertility.

Course Outcome	Programme Outcome						
	Clinician/Nurse Educator	Professional	Communicator	Leader and member of the health care team and system	Lifelong learner	Critical thinker	Researcher
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO-1:Define and explain Infertility, Its causes,Diagnostic technique,and its management	3	3	3	1	2	3	3
CO-2:Explain the Counseling on infertility and Ethical and legal aspects of assisted reproductive technology (ART).	3	3	3	1	2	3	3
CO-3: Explain recent advancement in infertility management	3	3	3	1	2	3	3
CO-4: Define and describe Adoption procedures and surrogacy and its legal and ethical issues.	3	3	3	1	2	3	3
CO-5: Explain the Role of midwifery nurse practitioner in Infertility.	3	3	3	1	2	3	3

X (5 hours)	At the end of unit students are able to <b>Knowledge:</b> Asses the physiological and psychosocial aspects in menopause and participate in counseling & guidance. <b>Skill:</b> Identify t he effects of HRT. <b>Attitude:</b> Recognize the different HRT.	<b>Menopause:</b> <ul style="list-style-type: none"> <li>• Physiological, psychological and social aspects. (1 hr)</li> <li>• Hormone replacement therapy.(1 hr)</li> <li>• Surgical menopause and Male Menopause (1 hr)</li> <li>• Counseling and guidance, <b>Alternative and complimentary therapies. (1 hr)</b></li> <li>• Role of midwifery nurse practitioner. (1 hr)</li> </ul>
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**Unit X: Menopause:**

CO-1:Identify and describe Physiological, psychological and social aspects in Menopause.  
CO-2:Define and explain Hormone replacement therapy its risk ,benefits and management.  
CO-3:Define and desribe Surgical menopause and Male Menopause  
CO-4:Explain Counseling and guidance on Menopause and its **Alternative and complimentary therapies.**  
CO-5:Explain the Role of midwifery nurse practitioner in menopause.

Course Outcome	Programme Outcome						
	Clinician/Nurse Educator	Professional	Communicator	Leader and member of the health care team and system	Lifelong learner	Critical thinker	Researcher
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO-1:Identify and describe Physiological, psychological and social aspects in Menopause.	3	3	2	2	2	3	3
CO-2:Define and explain Hormone replacement therapy its risk ,benefits and management.	3	3	2	2	2	3	3
CO-3:Define and desribe Surgical menopause and Male Menopause	3	3	2	2	2	3	3
CO-4:Explain Counseling and guidance on Menopause and its <b>Alternative and complimentary therapies.</b>	3	3	2	2	2	3	3
CO-5:Explain the Role of midwifery nurse practitioner in menopause.	3	3	2	2	2	3	3

<p>XI (5 hours)</p>	<p>At the end of unit students are able to</p> <p><b>Knowledge:</b> Define abortion &amp; classify the abortion and its causes.</p> <p><b>Skill:</b> Perform different procedures related to abortion.</p> <p><b>Attitude:</b> Initiate the building of interpersonal relationship with clients. Display confidants while caring patients with abortion.</p>	<p><b>Abortion:</b></p> <ul style="list-style-type: none"> <li>• Types, causes. (1 hr)</li> <li>• Legislations, Clinical rights and professional responsibility. (1hr)</li> <li>• Abortion procedures and MTP Act (1 hr)</li> <li>• Complication.</li> <li>• Nursing management. (1 hr)</li> <li>• Role of midwifery nurse practitioner.(1 hr)</li> </ul>
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**Unit XI: Abortion**

CO-1: Define and describe types and its causes ,signs and symptoms and management of Abortion

CO-2:Identify and describe Legislations, Clinical rights and professional responsibility in Abortion.

CO-3:Define and describe Abortion procedures and MTP Act, its complications and management

CO-4: Explain Nursing management in Abortion.

CO-5:Explain the role of midwifery nurse practitioner in abortion.

Course Outcome	Programme Outcome						
	Clinician/Nurse Educator	Professional	Communicator	Leader and member of the health care team and system	Lifelong learner	Critical thinker	Researcher
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO-1: Define and describe types and its causes ,signs and symptoms and management of Abortion	3	3	2	1	2	3	3
CO-2:Identify and describe Legislations, Clinical rights and professional responsibility in Abortion.	3	3	2	1	2	3	3
CO-3:Define and describe Abortion procedures and MTP Act, its complications and management	3	3	2	1	2	3	3
CO-4: Explain Nursing management in Abortion.	3	3	2	1	2	3	3
CO-5:Explain the role of midwifery nurse practitioner in abortion.	3	3	2	1	2	3	3

**AREA AND DISTRIBUTION OF CLINICAL HOURS:**

<i>Sr. No.</i>	<i>Dept/Unit</i>	<i>No. of weeks</i>	<i>Total hours.</i>
1	Antenatal wards & OPD	4weeks	120 hrs
2	Labour room	5 weeks	150 hrs
3	Postnatal ward	3 weeks	90 hrs
4	Family planning clinics	2 weeks	60 hrs
5	PHC/Rural maternity settings.	4 weeks	120 hrs

6.	Gynaec ward.	2 weeks	60 hrs
7	Maternity O.T	2 weeks	60 hrs
	TOTAL	22 WEEKS	660 HRS

### TEACHING STRATEGY:

Total Hours 810

Theory Hours 150

Clinical Hours 660

### TEACHING METHODS:

- Lecture cum discussion, Seminar, Panel discussion, Symposium, Group Discussion Written assignments & SISA (Symbiotic interdepartmental scientific activity) ,IDCD (Interdepartmental case discussion) and Syndicate Journal Club.

### A.V. AIDS:

- Over head Projector, L.C.D, Computer assisted learning, Flip charts, Posters, Black Board.

### ASSIGNMENTS:

#### Theory:

Sr. No.	Assignment	No./Quantity	Marks per Assignment	Total Marks
1	Seminar	Four	1X50	200
2	Panel Discussion (Group Work)	One	1X25	25
3	Speciality Related Journal Presentation	Five	1X10	50
<b>Total Marks</b>				<b>275</b>

#### Practical:

Sr. No.	Assignment	No./Quantity	Marks per Assignment	Total Marks
1	Nursing Care plans	Two	1X25	50
2	Case presentation	One	1X50	50
3	Clinical Performance Evaluation	Two	1X100	200
4	Case Book	One	1X100	100
5	Drug Study	One	1X100	100
6	Case Study	Two	1X25	50
7	Mini CEX	Three	3X10	30
8	DOPS	Three	3X10	30

**LIST OF RECOMMENDED BOOKS AND JOURNALS:**

- Buckley Kathleen and Kulb Nancy W, “ High Risk Maternity Nursing Manual”
- Bennet V Ruth & Brown K Linda, “Myle” text Book for Midwives
- Calander, R & A Miller, ‘Obstetrics illustrated’ IV edn, Churchill & Livigstone
- Dawn C.S, “Textbook of Obstetrics and Neonatology”, Dawn Books, Calcutta.
- Dawn C.S, “Textbook of Gynaecology and contraception”, Dawn Books, Calcutta.
- D.C Dutta, “Text book of Obstetrics”, Vth edition
- D.C Dutta, “Text book of Gynaecology” ,Vth edn,
- Daftary Shrish N EL AL , “ Holland and Brews Manual of Obstetrics”, XVI edn,
- Dickason Elizabeth jean et al , “ Maternal infant Nursing care, II edn,
- Hollan and Brews”, Manual of Obstetrics”, BI Churchill Livingstone
- Ladewing Patricia Wieland et al , “ Essentials of Maternal Newborn Nursing”, II edn,
- Menon Krishna & Palaniappan, “Clinical Obstetrics”, IX EDN
- Rashmi Patil, “ Instruments, Operatuions, Drugs in Obstetrics and Gynaecology”,
- Philips Celeste R , “ Family centered Maternity Newborn care”, III edn,
- Tindall VR, Jeffcoate’s Principles of Gynaecology
- Wonna Donna L, Perry Shannon et al”, Maternal child Nursing”, 1998, Iedn,
- John C. Hobbins, “Obstetric Ultrasound: Artistry in Practice”
- Adel Farouk ,” History Taking Clinical Examination Case Presentation in Obstetrics Gynecology”
- Philip N. Baker, “Obstetrics by Ten Teachers”
- E. Malcolm Symonds “Essential Obstetrics and Gynaecology”
- Arthur T. Evans, “Manual of Obstetrics”
- John David Gordon, “Obstetrics, Gynecology and Infertility: Pocket Edition: Handbook for Clinicians”
- Pranav Pandya, “Fetal Medicine”
- Carolyn Muller, “GYNECOLOGIC CANCER CARE: INNOVATIVE PROGRESS
- DC Dutta's Textbook of Obstetrics: Including Perinatology and Contraception
- Howkins & Bourne Shaw's Textbook of Gynaecology
- J. B. Sharma, Textbook of Obstetrics
- American Journal of Nursing
- Health and population
- Indian Journal of Nursing and Midwifery
- Journal of Obstetrics and Gynaecology
- Journal of Paediatrics

- Journal of Family Welfare
- Nursing Journal of India
- Nursing Times
- Paediatrics today
- Paediatric clinics of India
- Obstetrics and Gynaecology Today.