

Midwifery and Obstetrical Nursing

Placement : Third Year

Time : Theory - 90 hours

Practical - 180 hours

Course Description : This course is designed for students to appreciate the concepts and principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant women during antenatal, natal and post natal periods in hospitals and community settings. It also helps to develop skills in managing normal & high risk neonates & participate in family welfare programme.

Unit	Time (Hrs)	Learning Objective	Content and Teaching Learning Activities
I	3	<ul style="list-style-type: none"> Recognise the trends & issues in midwifery and obstetrical nursing 	<p>Introduction to midwifery and obstetrical Nursing</p> <ul style="list-style-type: none"> Introduction to concepts of midwifery and obstetrical Nursing Trends in midwifery and obstetrical nursing <ul style="list-style-type: none"> Historical perspectives and current trends Legal and ethical aspects Pre-conception care and preparing for parenthood Role of nurse in midwifery and obstetrical care National policy and legislation in relation to maternal health & welfare Maternal, morbidity, mortality and fertility rates Perinatal, morbidity and mortality rates <p><i>Teaching Learning Activities</i></p> <ul style="list-style-type: none"> Lecture discussion Explain using Charts and graphs
II	8	<ul style="list-style-type: none"> Describe the anatomy & physiology of female reproductive system 	<p>Review of anatomy & physiology of female reproductive system and foetal development</p> <ul style="list-style-type: none"> Female pelvis- general description of the bones joints, ligaments, planes of the pelvis diameters of the true pelvis, important landmarks, variations in pelvis shape Female organs of reproduction - external genitalia, internal genital organs and their anatomical relations, musculature – blood supply, nerves, lymphatics, pelvic cellular tissue, pelvic peritoneum Physiology of menstrual cycle Human sexuality Foetal development <ul style="list-style-type: none"> Conception Review of fertilization, implantation (embedding of the ovum), development of the embryo & placenta at term functions, abnormalities, the foetal sac, amniotic fluid, the umbilical chord, Foetal circulation, foetal skull, bones, sutures and

			<p>measurements</p> <ul style="list-style-type: none"> • Review of Genetics <p><i>Teaching Learning Activities</i></p> <ul style="list-style-type: none"> • Lecture discussion • Review with Charts and models
III	8	<ul style="list-style-type: none"> • Describe the diagnosis & management of women during antenatal period 	<p>Assessment and management of pregnancy (antenatal)</p> <ul style="list-style-type: none"> • Normal pregnancy • Physiological changes during pregnancy <ul style="list-style-type: none"> ○ Reproductive system ○ Cardio vascular system ○ Respiratory system ○ Urinary system ○ Gastro intestinal system ○ Metabolic changes ○ Skeletal changes ○ Skin changes ○ Endocrine system ○ Psychological changes ○ Discomforts of pregnancy • Diagnosis of pregnancy <ul style="list-style-type: none"> ○ Signs ○ Differential diagnosis ○ Confirmatory tests • Ante-natal care <ul style="list-style-type: none"> ○ Objectives ○ Assessment <ul style="list-style-type: none"> - History and physical examination - Antenatal Examination - Signs of previous child-birth <ul style="list-style-type: none"> ○ Relationship of foetus to uterus and pelvis : Lie, Attitude, Presentation, Position ○ Per vaginal examination • Screening & assessment for high risk; • Risk approach • History and Physical Examination • Modalities of diagnosis; Invasive & Non-Invasive, ultrasonics, cardiotomo-graphy , NST, CST • Antenatal preparation <ul style="list-style-type: none"> ○ Antenatal counseling ○ Antenatal exercises ○ Diet ○ Substance use ○ Education for child-birth ○ Husband and families

			<ul style="list-style-type: none"> ○ Preparation for safe-confinement ○ Prevention from radiation ● Psycho-social and cultural aspects of pregnancy ○ Adjustment to pregnancy ○ Unwed mother ○ Single parent ○ Teenage pregnancy ○ Sexual violence ● Adoption <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> ● Lecture Discussion ● Demonstration ● Case discussion/ presentation ● Health talk ● Practice session ● Counseling session ● Supervised Clinical practice ● Assessment of skills with checklist ● Assessment of patient management problems
IV	12	<ul style="list-style-type: none"> ● Describe the physiology and stages of labour ● Describe the management of women during intra-natal period 	<p>Assessment and management of intra-natal period</p> <ul style="list-style-type: none"> ● Physiology of labour, mechanism of labour ● Management of labour ○ First stage <ul style="list-style-type: none"> - Signs and symptoms of onset of labour; normal & abnormal - Duration - Preparation of: <ul style="list-style-type: none"> ➤ Labour room ➤ Woman - Assessment & observation of women in labour ; partogram – maternal and foetal monitoring - Active management of labour, Induction of labour - Pain relief and comfort in labour ● Second stage <ul style="list-style-type: none"> ○ Signs and symptoms; normal & abnormal ○ Duration ○ Conduct of delivery ; principles and techniques ○ Episiotomy (only if required) ○ Receiving the new born <ul style="list-style-type: none"> - Neonatal resuscitation ; initial steps and subsequent resuscitation - Care of umbilical cord - Immediate assessment including screening for congenital anomalies - Identification - Bonding - Initiate feeding

			<ul style="list-style-type: none"> - Screening and transport-tation of the neonate • Third stage <ul style="list-style-type: none"> ○ Signs and symptoms; normal & abnormal ○ Duration ○ Method of placental expulsion ○ Management; Principles and techniques ○ Examination of the placenta ○ Examination of perineum • Maintaining records and reports • Fourth Stage <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Demonst-ration • Case discussion/ presentation • Simulated practice • Supervised Clinical practice • Assessment of skills with checklist • Assessment of patient management problems
V	5	<ul style="list-style-type: none"> • Describe the physiology of puerperium • Describe the management of women during post-natal period 	<p>Assessment and management of women during post natal period</p> <ul style="list-style-type: none"> • Normal puerperium; Physiology Duration • Postnatal assessment and management <ul style="list-style-type: none"> ○ Promoting physical and emotional well-being ○ Lactation management ○ Immunization • Family dynamics after child-birth • Family welfare services; methods, counselling • Follow-up • Records and reports <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Demonstra-tion • Health talk • Practice session • Supervised Clinical practice • Assessment of patient management problems • Assessment of skills with checklist
VI	6	<ul style="list-style-type: none"> • Describe the Identification and management of 	<p>Assessment and management of normal neonates</p> <ul style="list-style-type: none"> • Normal Neonate: <ul style="list-style-type: none"> ○ Physiological adaptation, ○ Initial & Daily assessment ○ Essential newborn care ; Thermal control, ○ Breast feeding, prevention of infections • Immunization

		women with high risk pregnancy	<ul style="list-style-type: none"> • Minor disorders of newborn and its management • Levels of Neonatal care (level I, II, & III) • At primary, secondary and tertiary levels • Maintenance of Reports and Records <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Demonstration • Practice Session • Supervised Clinical practice
VII	10	<ul style="list-style-type: none"> • Describe the Identification and management of women with high risk pregnancy 	<p>High-risk pregnancy-assessment & management</p> <ul style="list-style-type: none"> • Screening and assessment <ul style="list-style-type: none"> ○ Ultrasonics, cardiotomography, NST, CST, non-invasive & invasive, ○ Newer modalities of diagnosis • High –risk approach • Levels of care; primary, secondary & tertiary levels • Disorders of pregnancy <ul style="list-style-type: none"> ○ Hyper-emesis gravidarum, bleeding in early pregnancy, abortion, ectopic ○ Pregnancy, vesicular mole, ○ Ante-partum haemorrhage • Uterine abnormality and displacement • Diseases complicating pregnancy <ul style="list-style-type: none"> ○ Medical and surgical conditions ○ Infections, RTI(STD), UTI, HIV, TORCH ○ Gynaecological diseases complicating pregnancy ○ Pregnancy induced hypertension & diabetes, Toxemia of pregnancy, hydramnios, ○ Rh incompatibility ○ Mental disorders • Adolescent pregnancy, Elderly primi and grand multipara • Multiple pregnancy • Abnormalities of placenta & cord • Intra-uterine growth-retardation • Nursing management of mothers with high-risk pregnancy • Maintenance of Records and Report <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture Discussion • Demonstrate using video films, scan reports, photograph etc • Case discussion/ presentation • Health talk • Practice Session • Supervised Clinical practice

			<ul style="list-style-type: none"> • Assessment of skills with checklist • Assessment of skills with checklist
VIII	10	<ul style="list-style-type: none"> • Describe management of abnormal labour • And obstetrical emergencies 	<p>Abnormal Labour – assessment and management</p> <ul style="list-style-type: none"> • Disorders in labour <ul style="list-style-type: none"> ○ CPD and contracted pelvis ○ Malpositions and malpresentations ○ Premature labour, disorders of uterine actions- precipitate labour, prolonged labour ○ Complications of third stage: injuries to birth canal • Obstetrical procedures and operations; <ul style="list-style-type: none"> ○ Presentation and prolapse of cord, Vasa praevia, amniotic fluid embolism, rupture of uterus, shoulder dystocia, obstetrical shock • Obstetrical procedures and operations; <ul style="list-style-type: none"> ○ Induction of labour, forceps, vacuum version, manual removal of placenta, caesarean section, destructive operations • Nursing management of women undergoing Obstetrical operations & procedures <p><i>Teaching Learning Activities</i></p> <ul style="list-style-type: none"> • Lecture Discussion • Demonstration • Case discussion/ presentation • Practice Session • Supervised Clinical practice • Assessment of skills with checklist • Assessment of patient management problems
IX	4	<ul style="list-style-type: none"> • Describe management of post natal complications 	<p>Abnormalities during Postnatal Periods</p> <ul style="list-style-type: none"> • Assessment and management of women with postnatal complications <ul style="list-style-type: none"> ○ Puerperial infections, breast engorgement & infections, UTI, thrombo- Embolic disorders, post-partum haemorrhage, Eclampsia & subinvolution ○ Psychological complications: <ul style="list-style-type: none"> - Post partum Blues - Post partum Depression - Post partum Psychosis
X	10	<ul style="list-style-type: none"> • Identify the high risk neonates and their nursing management 	<p>Assessment and management of High risk newborn</p> <ul style="list-style-type: none"> • Admission of neonates in the neonatal intensive care units- protocols • Nursing management of : <ul style="list-style-type: none"> - Low birth weight babies - Infections - Respiratory problems - haemolytic disorders

			<ul style="list-style-type: none"> - Birth injuries - Malformations <ul style="list-style-type: none"> • Monitoring of high risk neonates • Feeding of high risk neonates • Organisation & management of neonatal intensive care units • Infection control in neonatal intensive care units • Maintenance of reports and records
XI	4	<ul style="list-style-type: none"> • Describe indication, dosage, action, side effects and nurses responsibilities in the administration of drugs used for mothers 	<p>Pharmaco-therapeutics in obstetrics</p> <ul style="list-style-type: none"> • Indication, dosage, action, contra indication & side effects of drugs • Effect of drugs on pregnancy, labour & puerperium, • Nursing responsibilities in the administration of drug in Obstetrics – oxytocins, antihypertensives, diuretics, tocolytic agents, anti-convulsants; • Analgesics and anesthetics in obstetrics • Effects of maternal medication on foetus & neonate <p>Teaching Learning Activities</p> <ul style="list-style-type: none"> • Lecture discussion • Drug book • Drug presentation
XII	10	<ul style="list-style-type: none"> • Appreciate the importance of family welfare programme • Describe the methods of contraception & role of nurse in family welfare programme 	<p>Family Welfare Programme</p> <ul style="list-style-type: none"> • Population trends and problems in India • Concepts, aims, importance & history of family welfare programme • National Population: dynamics, policy & education • National family welfare programme; RCH, ICDS, MCH Safe motherhood • Organization & administration at national, state, district, block and village levels • Methods of contraception; spacing, temporary & permanent, Emergency contraception • Infertility and its management • Counseling for family welfare • Latest research in contraception • Maintenance of vital statistics • Role of national, international & voluntary organizations • Role of a nurse in family welfare programme • Training/Supervision/Collaboration with other functionaries in community like ANMs, LHVs, Anganwadi workers, TBAs (Traditional birth attendant- Dai) <p>Teaching Learning Activities</p>

			<ul style="list-style-type: none">• Lecture Discussion• Demonstration• Practice session• Assessment of skills with checklist• Assessment of field visits and project reports
--	--	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Midwifery and Obstetrical Nursing – Practical

Placement: Third Year & Fourth Year

Time: Practical - 180 hours each in Third year & Fourth Year

Clinical Training - 240 hours

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment Methods
Antenatal clinic/ OPD	2	<ul style="list-style-type: none"> Assessment of pregnant women 	<ul style="list-style-type: none"> Antenatal history taking Physical examination Recording of Weight & B.P. Hb & Urine testing for sugar and albumin Antenatal examination- abdomen and breast Immunization Assessment of risk status Teaching antenatal mothers Maintenance of Antenatal records 	<ul style="list-style-type: none"> *Conduct Antenatal Examinations 30 Health talk – 1 Case book recordings 	<ul style="list-style-type: none"> Verification of findings of Antenatal examinations Completion of casebook recordings
Labour room O.T.	4	<ul style="list-style-type: none"> Assess women in labour Carry out per-vaginal examinations Conduct normal deliveries Perform episiotomy & suture it Resuscitate newborns Assist with Caesarean Sections, MTP and other surgical procedures 	<ul style="list-style-type: none"> Assessment of women in labour Pervaginal examinations & interpretation Monitoring & caring of woman in labour Maintenance of partograph Conduct normal delivery Newborn assessment & immediate care Resuscitation of newborns Assessment of risk status of newborn Episiotomy & suturing Maintenance of labour & birth records Arrange for & assist with Caesarean section and care for woman & baby during Caesarean Arrange for and assist with MTP and other surgical procedures 	<ul style="list-style-type: none"> * Conduct normal deliveries-20 * Pervaginal examinations - 5 * Perform & suture the episiotomies-5 Resuscitate newborns-5 * Assist with Caesarean sections-2 * Witness abnormal deliveries-5 Assist with MTP & other surgical procedures-1 Case book recordings 	<ul style="list-style-type: none"> Assessment of clinical performance with rating scale Assessment of each skill with checklists Completion of case book recordings

Post natal ward	4	<ul style="list-style-type: none"> • Providing nursing care to post natal mother & baby • Counsel & teach mother & family for parenthood 	<ul style="list-style-type: none"> • Examination and assessment of mother and baby • Identification of deviations • Care of postnatal mother and baby • Perineal care • Lactation management • Breast feeding • Baby bath • Immunization, • Teaching postnatal mother: <ul style="list-style-type: none"> ○ Mother craft ○ Post natal care & ○ Exercises ○ Immunization 	<ul style="list-style-type: none"> • * Give care to Post natal mothers - 20 • Health talks – 1 • Case study – • Case presentation -1 • Case book recordings 	<ul style="list-style-type: none"> • Assessment of clinical performance • Assessment of each skill with checklists • Completion of case book recording • Evaluation of case study & presentation and health education sessions
Newborn nursery	2	<ul style="list-style-type: none"> • Provide nursing care to newborn at risk 	<ul style="list-style-type: none"> • Newborn assessment • Admission of neonates • Feeding of at risk neonates <ul style="list-style-type: none"> ○ Katori spoon, paladi, tube feeding, total parenteral nutrition • Thermal management of neonates-kangaroo mother care, care of baby in incubator • Monitoring and care of neonates • Administering medications • Intravenous therapy • Assisting with diagnostic procedure • Assisting with exchange transfusion • Care of baby on ventilator • Phototherapy • Infection control protocols in the nursery • Teaching & counselling of parents • Maintenance of neonatal records 	<ul style="list-style-type: none"> • Case study-1 • Observation study -1 	<ul style="list-style-type: none"> • Assessment of clinical performance • Assessment of each skill with checklists • Evaluation of and observation study
Family Planning clinic	Rotation from post natal ward 1 wk	<ul style="list-style-type: none"> • Counsel for and provide family welfare services 	<ul style="list-style-type: none"> • Counselling technique • Insertion of IUD • Teaching on use of family planning methods • Arrange for & Assist with family planning operations • Maintenance of records and 	<ul style="list-style-type: none"> • * IUD insertion -5 • Observation study -1 • Counselling -2 • Simulation 	<ul style="list-style-type: none"> • Assessment of each skill with checklists • Evaluation of and observation

			reports	exercise on recording & reporting - 1	study
--	--	--	---------	---------------------------------------	-------

*** Essential Requirements for registration as midwife**

* Antenatal examination	30
* Conducting normal deliveries in hospital/home/health centre	20
* Vaginal examination	5
* Episiotomy and suturing	5
* Neonatal resuscitation	5
* Assist with Caesarean Section	2
* Witness/Assist abnormal deliveries	5
* Postnatal cases nursed in hospital/home/health centre	20
* Insertion of IUD	5

Note : All casebooks must be certified by teacher on completion of essential requirements

Clinical Training Obstetrical Nursing

Clinical Training Duration - 5 weeks

Area	Duration (in weeks)	Objective	Skills	Assignment	Assessment Methods
Labour ward	2	<ul style="list-style-type: none"> Provide comprehensive care to mothers and neonates 	<ul style="list-style-type: none"> Integrated Practice 	<ul style="list-style-type: none"> Completion of other essential requirements Case book recordings 	<ul style="list-style-type: none"> Assess clinical performance with rating scale Completion of case book recordings
Neonatal intensive care unit/ NICU	1				
	2				
Antenatal					

University Examination shall be held at the end of Fourth year.

Scheme of University Examination for Midwifery and Obstetrical Nursing

Theory

There shall be one theory paper of three hours duration carrying 100 marks. Distribution of type of questions and marks for Midwifery and Obstetrical Nursing shall be as given under.

Table 9(A): Distribution of Type of Questions and Marks for Midwifery and Obstetrical Nursing,

Type of Questions	No. of Questions	Marks	Sub-total
Long Essay (LE)	2	10	20
Short Essay (SE)	10	5	50

Short Answer (SA)	10	3	30
Total Marks			100

Practical and Viva Voce

	Internal Assessment	University Examination	Total
Midwifery and Obstetrical Nursing	50	50	100

Note: All practical examinations must be held in the respective clinical areas.
One internal and one external examiner should jointly conduct practical /clinical examination for each student.