Subject No. 4

MIDWIFERY AND OBSTETRICAL NURSING

Total Hours: 690

Total Hours: 225 Total Hours: 225 Third year: Theory: 45 Fourth year: Theory: 45 Internship: 00 Clinical: 180 Clinical: 180 Clinical: 240

AIM:

• 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 hospital and community settings. It also helps to develop skills in managing normal and high risk neonates and participate in family welfare programme.

OBJECTIVES:

At the end of course the student are able to:

- Recognize the trends and issues in midwifery and obstetrical nursing.
- Describe the anatomy and physiology of female reproductive system.
- Describe the diagnosis and management of women during antenatal period.
- Describe the physiology and stages of labor.
- Describe the management of women during intra natal period.
- Describe the physiology of Puerperium.
- Describe the management of women during post natal period.
- Describe the assessment and management of normal neonate.

COURSE CONTENTS:

Unit I - Introduction to Midwifery and Obstetrical Nursing:

- Introduction to concepts of midwifery and obstetrical nursing. Trends in midwifery and obstetrical nursing. Historical perspectives and current issues 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 and welfare. Maternal morbidity, mortality and fertility rates. Perinatal morbidity and mortality rates.
- Unit II Review of Anatomy and Physiology of Female Reproductive System and Fetal Development:
 - Female pelvis: General description of the bones, joints. Ligaments, planes of pelvis, diameters of the true pelvis, important landmarks and variations in the pelvis shape. Female organs of reproduction: External genetalia, internal genital organs and their anatomical relations, musculature, blood supply, nerves lymphatics, pelvic cellular tissue and pelvic peritoneum. Physiology of menstrual cycle.
 - Human sexuality.
 - Review of Structure and function of Male reproductive system & breast
 - Fetal development: cell division Conception, Review of fertilization, implantation (embedding of the ovum), development of the embryo and placenta at term, functions, abnormalities, the

fetal sac, amniotic fluid, the umbilical cord, foetal circulation, fetal skull, bones, sutures and measurements.

• Review of Genetics.

Unit III - Assessment and Management of Pregnancy: (Antenatal)

- Normal pregnancy. Physiological & Psychological changes during pregnancy: Reproductive system, Cardio vascular system, Respiratory system, Urinary system, Gastro Intestinal system, metabolic system, skeletal system, Skin changes, Endocrine system and Psychological changes. Discomforts of pregnancy.
- Diagnosis of pregnancy: Signs, differential diagnosis, confirmatory tests.
- Antenatal Care: Objectives. Assessment: History and physical examination,
- Antenatal examination, signs of previous child birth, relationship of fetus to uterus and pelvis, lie, attitude, presentation, position, per vaginal examination.
- Screening and assessment for high risk. Risk approach. History and physical examination.
- Modalities of diagnosis: Invasive and noninvasive, ultrasonic, cardiotomography, NST, CST.
- Antenatal Preparation: Antenatal Counseling, Antenatal Exercises, Diet, Substance abuse, Education for child birth, Husband and family, preparation for safe confinement, prevention from radiation. Psychosocial and cultural aspect of pregnancy:
- Adjustment to pregnancy, unwed mothers, single parents, Teenage pregnancy, Sexual violence. Prenatal nutrition & fetal Medicines
- Adoption. & process of adoption legal and ethical aspect.
- Adolescents' health.

Unit IV -Assessment and Management of Intra natal Period:

- Physiology and Mechanism of labour. Management of labour.
- First Stage: Signs of onset of labour, Normal and Abnormal duration of labour. Preparation of labour room, women. Assessment and observation of women in labour: Partograph maternal and fetal monitoring. Active management of labour, Induction of labour. Pain relief and comfort in labour.
- Second Stage: Signs and symptoms, normal and abnormal duration. Conduct of delivery Principles and techniques. Episiotomy: Definition, indications, types, procedure and after care. Receiving new born, neonatal resuscitation initial steps and subsequent steps. Care of umbilical cord immediate assessment including screening for congenital anomalies. Identification, bonding, initiates feeding, screening and transporting new born.

Third Stage: Signs and symptoms, normal and abnormal duration. Placental expulsion: management, principles and methods. Examination of placenta and perineum.

Fourth Stage:

- Various child birth practices
- Role of nurse in Biomedical waste management in labour room
- Environmental health hazards
- New innovation in stem cell therapy.
- Alternative and complimentary therapies in labour.
- Evidence Base of Practices on MCH and obstetrical practices

Unit V - Assessment and Management of Women during Post Natal Period:

• Normal Puerperium- physiology, duration. Postnatal assessment and management: promoting physical and emotional well being, Immunization. Family dynamics after child birth. Postnatal exercise Family welfare methods, counseling and services. Follow up. Record and reports. KMC

Unit VI - Assessment and Management of Normal Neonates:

- Normal Neonate- Physiological adaptation, Initial and daily assessment, essential new born care, Thermo regulation, Breastfeeding, prevention of infections, neonatal resuscitation. Immunization. Minor disorders of new born and its management.
- Levels of neonatal care (Level I, II and III) at primary, secondary and tertiary levels.
- Reports and records.

MIDWIFERY AND OBSTETRICAL NURSING

Unit No.	Objectives		Contents								
& Hrs.	Objectives		Must know 60)%		D	esirable to know 30%	0	Nice to know 10%		
Unit I (4 Hrs)	At the end of unit students are able to: Knowledge: Understand and describe regarding trends in midwifery & obstetric nursing. Know the legal and ethical aspects. Skill: Educate the couple regarding preparation of parenthood. Attitude: Discuss expanded role of midwife in Maternity and obstetric nursing practice.	 Trends in mid- nurse in midw morbidity, mo morbidity and 	to Midwifery and Obstetrical Nursing: a midwifery and obstetrical nursing. Role of midwifery and obstetrical care. Maternal y, mortality and fertility rates. Perinatal y and mortality rates. Pre conception care aring for parenthood (2 Hr)			 Introduction to concepts of midwifery and obstetrical nursing. National policy and legislation in relation to maternal health and welfare.(1Hr) 			 Historical perspectives and current trends. Legal and ethical aspects. Current issues. (1 Hr) 		
UNIT:1 I	Introduction to Midwifery and	Obstetrical Nursing	8								
Course of	utcome		Programme ou	tcome							
			Clinical/nurse educator	Professional	Commı	unicators	Leader and member of the health team and system	Lifelong learner	Critical thinker	Researcher	
	iscuss the Trends in midwifery an nd role of nurse in midwifery an		3	3		2	3	3	3	3	
	efine the terms, Maternal morbid ates. Perinatal morbidity and mor		3	3		3	2	3	3	2	
CO: 3- D parenthoo	escribe the Pre conception care a od.	and preparing for	3	3		3	2	3	3	3	
CO: 4- D health.	CO: 4- Describe the National policy related to the maternal health.		3	3		3	3	2	3	3	
	CO: 5- Explain the Legal and ethical aspects in maternal nursing care.		3	3		3	3	3	3	3	
CO: 6- Id	lentify the currents issues in mate	ernal health.	3	3		3	3	2	3	3	

Unit II (8 Hrs)At the end of unit students are able to: Knowledge: Understand and explain the anatomy of female reproductive system and explain fertilization, fetal growth and development.Attitude: Explain the features of female pelvis and examine the placenta correctly.Skill: Recognize placenta, liquramni and umbilical cord.	 Review of Anatomy and Physiology of Female Reproductive System and Fetal Development: Female pelvis: General description of the bones, joints. Ligaments, planes of pelvis, diameters of the true pelvis, important landmarks, variations in the pelvis shape.(2 Hrs) Female organs of reproduction: External genetalia, internal genital organs and their anatomical relations, musculature, blood supply, nerve, lymphatics, pelvic cellular tissue, pelvic peritonium. Cell division, Review of anatomy & physiology of male reproductive system & breast Physiology of menstrual cycle. (2 Hrs) 	 Human sexuality. Foetal development: Conception, Review of fertilization, implantation (embedding of the ovum), Development of the embryo and plancenta at term, functions, abnormalities, the foetal sac, amniotic fluid, the umbilical cord, Foetal circulation, foetal skull, bones, sutures and measurements. (3Hrs) 	• Review of Genetics. (1 Hr)
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UNIT:2 Review of Anatomy and Physiology of Female Reproductive System and Fetal Development:

Course outcome	Programme outcome							
	Clinical/nurse educator	Professional	Communicators	Leader and member of the health team and system	Lifelong learner	Critical thinker	Researcher	
CO: 1- Explain the structure and function of female reproductive organ.	3	3	3	3	3	3	3	
CO: 2- Discuss the structure and function of breast.	3	3	3	2	3	3	3	
CO: 3- Define fertilization.	3	3	3	2	3	3	3	
CO: 4- Explain the principal event of embryonic development	3	3	3	3	2	3	3	
CO: 5- Describe the normal physiology menstrual cycle.	3	3	3	3	3	3	3	
CO: 6- List down the function of placenta.	3	3	3	2	2	3	3	
CO:7- Demonstrate the female pelvis, fetal skull	3	3	3	2	3	3	2	
CO: 8- Drown and label the diagram of placenta at term, the foetal sac, amniotic fluid, the umbilical cord,	3	3	3	3	2	3	2	

	 Assessment and Manag (Antenatal) Normal pregnancy. Psychological chan Reproductive system Respiratory system Intestinal system, m system, Skin chang Psychological chan pregnancy. (1 Hrs) Diagnosis of pregn diagnosis, confirma Antenatal Care: Ob History and physics examination, signs relationship of fetu attitude, presentatio examination. (1 Hr) History and physics of diagnosis: Invas ultrasonic, cardioto Hr) Antenatal Preparati Antenatal Exercise Education for child preparation for safe from radiation. Psychosocial and c pregnancy(1 Hr) 	Physiological of the second se	& gnancy: ular system, n, Gastro n, skeletal system, ts of fferential c) sment: Antenatal ld birth, pelvis, lie, vaginal Modalities isive, Γ, CST. (1 Counseling, ice abuse, I and family, prevention	high risk. Adjustme unwed m Teenage violence.	g and assessment Risk approach. ent to pregnancy others, single pa pregnancy, Sexu ents' health. (2	, irents, ial	Adoption & pro adoption, legal aspect (1hr)	
Course outcome	Tregnancy. (Antenata	Programme ou	tcome					
		Clinical/nurse educator	Professional	Communicat ors	Leader and member of the health team and system	Lifelong learner	Critical thinker	Researcher
CO: 1- Describe the Physiological & Psych during pregnancy	hological changes	3	3	3	2	3	3	3
CO: 2- Discuss the diagnosis of pregnancy		3	3	3	2	3	3	2

CO: 3- Explain the antenatal care in details.

CO: 4- Discuss the new Modalities of fetal early and late period.	3	3	3	3	2	3	3	
CO: 5- Describe the antenatal preparation.	3	3	3	3	3	3	3	
CO: 6- Explain the Screening and assessme mothers.	ent for high risk	3	3	3	3	2	3	3
CO: 7- Describe the safe motherhood amon health	ng the adolescents girls	3	3	3	3	3	3	3
CO: 8- Demonstrate the antenatal assessme	ent.	3	3	3	3	2	3	2
CO: 9- Demonstrate the abdominal palpati	ion .	3	3	3	2	2	3	3
IV (12 Hrs) At the end of unit students are able to: Knowledge: Understand and analyze Partograph. Describe the stages of labour and manage the labour. Skill: Record partograph. Identify and differentiate stages of labour and manage the labour effectively. Assess the new born and perform new born resuscitation. Attitude: Implement and utilize Partograph labour process.	abnormal. Duration women. Assessmen labour: Partogram- Active managemen Pain relief and com Second Stage: Sig abnormal Duration and techniques. Ep types, procedure ar Receiving the new Initial steps and sul umbilical cord. Im screening for cong bonding, initiates fi new born. (1 Hr) Third stage: Signs abnormal, Duration Management- prime of placenta. Exami record and reports • Role of nurse in I in labour room ar hazards(1hr)	cchanism of labo bour: of onset of labo . Preparation of and observati- maternal and for the of labour. Indu- fort in labour. (A ns and symptom: . Conduct of delisiotomy: Defin a after care.(2 I v born : Neonata bsequent resusc mediate assessmenital abnormali ceding, screenir and symptoms- n. Placental expliciples and metho- nation of perine Biomedical was	our.(1 Hr) ur: normal and f labour room, on of women ir etal monitoring. uction of labou 4 Hr) hs- normal and livery: principle ition, Indication Hr) 1 resuscitation- itation. Care of hent including ities. Identificat and transport - normal and ulsion- ods. Examinatio um. Maintainin	l n r. ess ns, tion, ting on ng	Fourth stage. Various child bir Alternative and cherapies in labo Evidence Base of MCH and practices(2hrs)	complimentary ur.	stem (1hr)	nnovation in cell therapy.
UNIT:4 Assessment and Management of	f Intra natal Period:							
Course outcome		Progra	amme outcome					

		Clinical/nurse educator	Professional	Communicators	Leader and member of the health team and system	Lifelong learner	Critical thinker	Researcher
CO: 1- Define the normal labor and explain the events	of normal labor.	3	3	3	3	2	2	3
CO: 2- Describe the management of second stage of labor(active and passive management)			3	3	2	3	3	2
CO: 3- Explain the management of third stage of labo	•	3	3	3	2	3	3	3
CO: 4- Define the induction of labor and its indication and complication			3	3	3	2	3	3
CO: 5- Discuss the Alternative and complimentary the	rapies used in labou	r. 3	3	3	3	3	3	3
CO: 6- Enlist the Evidence Base of Practices in MCH and obstetrical areas			3	3	3	3	3	3
CO: 7- Explain the role of midwife in obstetrical ward and also in community.			3	3	3	3	3	3
CO: 8- Demonstrate the mechanism of labor.		3	3	3	2	2	3	2
CO: 9- Demonstrate the examination of placenta and	imbilical cord.	3	3	3	3	2	3	2
 (6 Hrs) able to: Knowledge: Understand and discuss the physiology of Puerperium and its management. Skill: Provide effective care to new born. 	t and Management od: al Puerperium- phys ment and manageme onal well being, ise & KMC (3 Hr) y welfare methods, d and reports.(1Hr)	iology, duration nt: promoting p Immunization.	n. Postnatal hysical and Postnatal	• Follow up. (1F	lr)		amily dyr hild birth.	namics after (1Hr)
UNIT:5 Assessment and Management of Women of	uring Post Natal Po	eriod:						
Course outcome	Programme outcom	2						
	Clinical/nurse Pro educator	fessional Co	ommunicators	Leader and member of the health team and system	Lifelong learn	er Critica thinker		lesearcher

CO: 1- Define the normal puerperium	3	3	3	2	3	3	3
CO: 2- Describe the normal puerperium	3	3	3	2	3	3	3
CO: 3- Discuss the family welfare method	3	3	3	3	3	3	3
CO: 4- Explain the family dynamics	3	3	3	3	3	3	3
CO: 5- Demonstrate the post natal assessment	3	3	3	3	3	3	3
CO: 6- Demonstrate the postnatal exercise and KMC	3	3	3	3	3	3	3
VI (7 Hrs)At the end of unit students are able to: Knowledge: Understand and describe normal physiology of normal new born. Attitude: Display confidence while caring new born. Motivate mother for exclusive breast feeding. Skill: Assess neonate correctly.Assessment and Management of Normal Neonates: • Normal Neonate- Physiological adaptation, Initial and daily assessment, essential new born care, neonatal resuscitation Thermo regulation, Breastfeeding, prevention of infections, immunization. (3hrs)UNIT:6Assessment and Management of Normal Neonates:				its managenLevels of ne	ders of new born nent. (2 Hr) onatal care (Leve t primary, second	el I,	
Course outcome	Programme outc	come					
	Clinical/nurse educator	Professional	Communicators	Leader and member of the health team and system	Lifelong learner	Critical thinker	Researcher
CO: 1- Define the normal neonate	3	3	3	3	3	3	3
CO: 2- Describe the management of newborn care	3	3	3	2	3	3	3
CO: 3- Enumerate the minor disorders in new born	3	3	3	2	2	3	3
CO: 4- Explain the levels of NICU	3	3	3	3	3	3	3
CO: 5- Demonstrate the neonatal resususcitation.	3	3	3	3	3	3	3
CO: 6- Explain the role of nurse in NICU in datails.	3	3	3	3	3	3	3

MIDWIFERY AND OBSTETRICAL NURSING - PRACTICAL

Areas/Unit	Objectives	Contents		
No. (Hours)		Must know	Desirable to know	Nice to know
I – Antenatal Clinic/ OPD (60 hours)	 Knowledge: Understand the importance of antenatal care in all clinical settings. Skill: Renders effective antenatal care in antenatal OPD. Attitude: Considers cultural issues while rendering antenatal care. 	Antenatal Clinic/OPD: Antenatal history taking. Physical examination, recording of weight and B.P., Hb and urine testing for sugar and albumin. Antenatal examination – abdomen and breast. Immunization, Assessment of risk status. Teaching antenatal mothers, Maintenance of antenatal records.		
II – Labour Room, O.T. (120 hours)	Knowledge: Understand and explain the process of normal labor. Skill: Conduct normal deliveries in hospital and at home. Attitude: Provide psychological support during normal delivery to the mother.	Labour Room, O.T.: Assessment of woman in labour. Per vaginal examinations and interpretations. Monitoring and caring of woman in labour. Maintenance of partograph. Conduct normal delivery. Newborn assessment and immediate care. Resuscitation of newborns. Assessment of risk status of newborn. Episiotomy and suturing. Maintenance of labour and birth records. Arrange for and assist with Caesarean section and care for woman and baby during Caesarean. Arrange for and assist with MTP and other surgical procedures.		
III – Post natal Ward (60 hours)	 Knowledge: Understand the importance of postnatal assessment for the mother and the baby. Skill: Identify deviations from normal postnatal status of the mother and the baby promptly and acts efficiently. Attitude: Provide relevant health teaching regarding care of newborn and growth & development of the child. 	Post natal Ward: 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: Mother craft, Post natal care, Exercises, Immunization.		
IV – Newborn Nursery (38 hours)	Knowledge: Understand the significance of newborn assessment.Skill: Maintain nutrition and hydration of the baby.Attitude: Protect the baby from infection, hypothermia and administer medications as prescribed.	New Born: Newborn assessment. Admission of neonates. Feeding of at risk neonates: Katori, spoon, Palladi, 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 and counseling of parents. Maintenance of neonatal records.		
rotation from	 Knowledge: Describe various methods of family planning. Skill: Identify eligible couple for family planning and meet their needs for family planning. Attitude: Volunteers to disseminate the knowledge about family planning and family planning methods. 	Family Planning Clinic: Counseling technique. Insertion of IUD. Teaching on use of family planning methods. Arrange for & assist for and assist with family planning operations. Maintenance of records and reports.		

Theory Hours: 45

Theory:

Sr. No	Assignments	No./Quantity	Marks Per	Total
			Assignment	Marks
1	Drug Book (Obstetrical related drug-15)	One	20	20
2	Home assignment	Two	20	40
			Total Marks	60

Practical:

Practical:

Sr. No	Assignments	No./Quantity	Marks Per	Total
			Assignment	Marks
1	Clinical Performance Evaluation	One	50	50
2	Nursing Care Plan	One	20	20
			Total Marks	70

• For this Subject, there is no university examination at the end of third year. However, the examination is conducted by the University at the end of Fourth Year. For Calculation of Internal Assessment- Marks, Obtained in the Assignments in the Third Year are Considered together at the End of Fourth Year.

Examination:

Sr.No	Assignments	No./Quantity	Marks Per Assignment	Total Marks
1	Midterm Theory	01	75	75
2	Midterm Practical	01	50	50

- There is no University at the End of Third Year. The above mentioned Examinations may be conducted by Examination Cell/College at the time of Mid Term of other subjects of Third Year as per schedule prepared by the competent authority.
- Marks obtained by the students in this examination shall be considered at the end Fourth Year while calculating internal Assessment for the subject.

TEACHING METHODS:

• Lectures, Seminars, Laboratory Demonstration, Group Discussion, Clinical Observation, Case Presentation, Workshop, Simulation. Integrated teaching program, PBL and Modified Tutorial

A.V. AIDS:

• Over head projector, L.C.D. Computer Assisted Instruction, Flip Chart, Posters, Black Board, Mannequins

DISTRIBUTION OF CLINICAL HOURS:

Sr. No.	Area of Experience	No. of Hours	Sr. No.	Area of Experience	No. of Hours
1	ANC Ward	30	3	Gynecology Ward	30
2	PNC Ward	60	4	Labour Room	60

Essential Requirements for Registration as Midwife: *Note:* All casebooks must be certified by the teacher on completion of essential requirements.

Sr. No.	Assignment	No. of Cases
1	Antenatal examination	30
2	Conducting normal delivery in hospital / home/health centre	20
3	Vaginal examinations	05
4	Episiotomy and suturing	05
5	Neonatal resuscitation	05
6	Assist with caesarean section	02
7	Witness/Assist abnormal deliveries	05
8	Postnatal cases nursed in hospital/home/health centre	20
9	Insertion of IUD	05

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 Gynaecologfy 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,
- 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.