

Module Schedule Labor and delivery

Duration: 7 Weeks (Clinical Practice will be Parallel to Classroom-based teaching)

Week	Learning Activity	Required Reading (Assignment)
Week I	<p>Interactive lecture, discussion [12 hrs]</p> <p>Overview of the Module (30mins)</p> <ul style="list-style-type: none"> - Structure and design - Education strategies - Core competencies - Teaching and learning methods - Assessment methods <p>Anatomy of female pelvis & fetal skull (2 hrs)</p> <ul style="list-style-type: none"> - Reproductive anatomy <ul style="list-style-type: none"> o Bony pelvis o Pelvimetry - Fetal skull <ul style="list-style-type: none"> o Sutures, fontanelles o Diameters of skull o Molding and caput <p>Describe physiology of normal labor [1 hrs]</p> <ul style="list-style-type: none"> - Theory of labor initiation - Lightening, Braxton Hicks contractions - Myometrial change - Bloody show - Cervical change, Endo cervical endothelial change <p>Normal Labor [1hr]</p> <ul style="list-style-type: none"> - Introduction of normal labor - Cardinal movements of normal labor <p>Clinical Management of Normal Labor[2hrs]</p> <ul style="list-style-type: none"> - First stage of labor [1hrs] 1hrs <ul style="list-style-type: none"> o Management of first stage of labor using partograph o Intra partum fetal monitoring o Mechanisms of labor - Second stage of labor [30minutes] - Management of second stage of labor <ul style="list-style-type: none"> Overview of Episiotomy Overview of pain management - Third stage of labor [30 min] <ul style="list-style-type: none"> o Management of third stage of labor 	<p>Reading Assignment on:</p> <p>Pelvic bones, muscles and ligaments</p>

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	<ul style="list-style-type: none"> - Immediate newborn care [30minutes] <ul style="list-style-type: none"> o Introduction o Components and purposes - Resuscitation [30minutes] <p>Abnormal labor [2hrs]</p> <p>Prolonged latent phase</p> <p>Protraction and arrest disorders</p> <ul style="list-style-type: none"> - Precipitate labor 	
	<ul style="list-style-type: none"> - Health promotion, education and disease prevention Module - [Lecture=3Hrs + self-study 2Hrs] 	
	<p>Skill Development Lab [2hrs]</p> <p>Identify the landmarks in the anatomy of female pelvis and fetal skull (<i>Demonstration of pelvic and fetal skull model</i>)</p> <p>Mechanism of labor</p> <p>Obstetric physical examination</p>	
	<p>PBL [4hrs]</p> <p>Physiologic preparation for labor</p> <p>Intra partum fetal monitoring</p> <p>Management of third stage of labor</p>	
	<p>Clinical practice [8hr]</p> <p>Supervised practice on:</p> <p>Maternity ward units including:</p> <ul style="list-style-type: none"> o Adaptation to health facility environment o Introduction with working senior midwife staff o Practice infection prevention protocols o Medication and other supply storage rooms o Documentation and recording room o Perform appropriate history and physical examination o Order and interpret baseline laboratory investigation <p>Clinical practice [8hr.]</p> <p>Perform appropriate history and physical examination</p> <p>Order and interpret baseline laboratory investigation</p> <p>Evaluation of Labor progress using partograph</p> <p>Mechanism of Labor</p> <p>Management of Second Stage</p> <p>Third Stage of Labor</p>	

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	Fourth stages of labor Immediate newborn care Immediate newborn assessment	
	Whole Group Session [2 Hrs.] Students will discuss on the progress of the week's teaching learning process in the presence of their instructors and coordinators including the department head.	
	Self-study - [5 Hrs]	
Week2	Interactive presentation, case scenario [23 hrs.] Non-reassuring fetal heart rate pattern [1hr] Introduction Pathophysiology Cause Care and management Obstructed labor [3hr] Introduction Risk factors and causes Complications Management of obstructed labor Anesthesia and Analgesics (1hr) <ul style="list-style-type: none"> ○ Review anatomy of muscles and nerves pelvic organ Obstetrics Anesthesia and Analgesics (2hrs) Review mechanism of pain Type of obstetrics Anesthesia Complications Side effects Induction and Augmentation of labor [3hrs] Uterotonic drugs Indications for induction and augmentation Contraindications for induction and augmentation Induction and Augmentation of labor [2hrs] Methods of induction and augmentation Complications of induction and augmentation Abnormalities of passage [2hrs] Abnormalities of pelvis	Reading assignment Personal protective equipment , Obstetric history taking, physical examination & investigation

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	<p>Soft-tissue abnormalities</p> <p>Reproductive tract masses or neoplasia</p> <p>Abnormalities of passenger [3hrs]</p> <ul style="list-style-type: none"> ○ Introduction, diagnosis and management of: <ul style="list-style-type: none"> - Malposition: (Occiput posterior, occiput transverse) - Mal-presentation:(Brow, face, breech, abnormal lie, cord presentation, compound presentation, shoulder presentation and asynclitism) - Fetal Macrosomia - Fetal malformation <p>Complications of third stages of labor [1hr]</p> <ul style="list-style-type: none"> ○ Post-partum hemorrhage <ul style="list-style-type: none"> - Introduction - Definition <p>Post-partum hemorrhage [2hr]</p> <p>Pathophysiology</p> <p>Risk factors and causes</p> <p>Classification</p> <p>Clinical manifestation and management</p>	
	<p>Health promotion, education and disease prevention Module</p> <p>[Lecture=3Hrs + self-study 2Hrs]</p>	
	<p>Skill Development Lab [2hrs]</p> <p>Episiotomy</p> <p>Asynclitism</p> <p>Manual removal of placenta (demonstration)</p> <p>Bimanual compression (demonstration)</p> <p>Abdominal Aortic compression (Demonstration)</p> <p>Malpresentation and malposition (Demonstration)</p>	
	<p>PBL [4hrs]</p> <p>Obstructed labor</p> <p>Non-reassuring fetal heart rate pattern</p>	
	<p>Clinical practice [8hr]</p> <p>Provide immediate newborn care & resuscitation</p> <p>Advice patient about advantage and side effects of drugs</p> <p>Reassure the patient (non-pharmacologic pain management)</p>	

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	Administer medications Record and documentation	
	Whole Group Session [2 Hrs.] Students will discuss on the progress of the week's teaching learning process in the presence of their instructors and coordinators including the department head	
	Self study [5hrs]	

Week	Learning Activity	Required Reading (Assignment)
Week3	<p>Interactive lecture, seminar, group discussion [17hrs]</p> <p>Diagnosis and management obstetrics shock and amniotic fluid embolism [3hrs]</p> <ul style="list-style-type: none"> ○ Introduction, definition ○ General management, drug therapy ○ Emergency care (ABC) ○ Cardiopulmonary resuscitation, NASG ○ Supportive care <p>Shoulder dystocia [1hr]</p> <ul style="list-style-type: none"> ○ Introduction ○ Risk factors, cause ○ Management of shoulder dystocia <p>Cord prolapse, Uterine rupture [2hrs]</p> <ul style="list-style-type: none"> ○ Introduction ○ Definition ○ Risk factors, Cause, type ○ Management options <p>Preeclampsia and Eclampsia [2]</p> <ul style="list-style-type: none"> ○ Introduction, classification ○ Pathophysiology <p>Preeclampsia and Eclampsia [2]</p> <ul style="list-style-type: none"> ○ Risk factors, cause ○ Clinical features ○ Management options <p>Instrumental deliveries: Forceps [2hrs]</p> <ul style="list-style-type: none"> ○ Indication for forceps delivery ○ Contraindication for forceps delivery ○ Pre-requisite for forceps delivery ○ post procedure complications 	<p>Reading assignment</p> <p>Obstetric anesthesia</p>
	<p>Health promotion, education and disease prevention Module [Lecture=5Hrs + self-study 2Hrs]</p>	
	<p>Skill Development Lab [2hrs]</p> <p>Shock management and NASG (demonstration and clinical simulation) Cord prolapse(demonstration)</p>	
	<p>PBL [4hrs]</p> <p>Diagnosis and management obstetrics shock Complication of instrumental delivery</p>	

Week	Learning Activity	Required Reading (Assignment)
	Clinical practice [12 hrs.] Obstructed labor Non-reassuring fetal heart rate pattern (NRFHRP) Bishop score assessment Induction and augmentation Close monitoring of patient with induction & augmentation	
	Whole Group Session [2 Hrs.] Students will discuss on the progress of the week's teaching learning process in the presence of their instructors and coordinators including the department head	
	Self study [4hr]	
Week4	Interactive lecture and discussion [9hrs] Vacuum [3hrs] <ul style="list-style-type: none"> ○ Introduction ○ Indication for vacuum delivery ○ contraindications for vacuum delivery ○ Pre-requisite for vacuum delivery ○ Post procedure complications Vaginal birth after caesarean delivery [1hr] <ul style="list-style-type: none"> ○ Introduction ○ Indications and contraindications of VBAC ○ Complications of VBAC <div> Health promotion, education and disease prevention Module [Lecture=5Hrs + self-study 2Hrs] </div>	Reading assignment Normal durations of labor stages
	Skill Development Lab [4hrs] Vacuum delivery (<i>demonstration</i>)	
	Clinical practice [20 hrs.] Diagnosis of preeclampsia and eclampsia General management of preeclampsia and eclampsia Diagnosis of preeclampsia and eclampsia Management of preeclampsia and eclampsia Drug therapy	

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	Emergency care (ABC) Supportive care	
	PBL [4hrs] Complication of instrumental delivery	
	Whole Group Session [2 Hrs.] Students will discuss on the progress of the week's teaching learning process in the presence of their instructors and coordinators including the department head	
	Self study [6 hrs]	
Week 5	Interactive lecture, Discussion [7hrs] Provide pre and post-operative care for client undergone operative delivery[2hr] <ul style="list-style-type: none"> ○ Introduction operative delivery ○ Vacuum delivery ○ Forceps delivery ○ Type ○ Complications <div>Health promotion, education and disease prevention Module [Lecture=5Hrs + self-study 2Hrs]</div>	
	Skill Development Lab [3hrs] Magnesium sulphate protocol Oxygen administration(demonstration, clinical simulation)	Reading assignment Uterotonic drugs
	PBL [4hrs] Post-operative complications	
	Clinical practice [24 hr] Diagnosis and Management of PPH General Management Manual removal of placenta Uterotonic therapy Bimanual compression	

Week	Learning Activity	Required Reading (Assignment)
	Abdominal Aortic compression Uterine tamponade NASG Application Pre-and post-operative care	
	Whole Group Session [2 Hrs.] Students will discuss on the progress of the week's teaching learning process in the presence of their instructors and coordinators including the department head	
	Self study [5hrs]	
Week6	Interactive lecture, Discussion [2hrs] <ul style="list-style-type: none"> ○ Introduction ○ Caesarian section (CS) ○ Type ○ Complications ○ Pre and post-operative care <div> Health promotion, education and disease prevention Module [Lecture=5Hrs + self-study 2Hrs] </div> Skill Development Lab [3hrs] Low & out let forceps delivery Apply Maneuver for shoulder dystocia(demonstration) Breech delivery (demonstration) and video show PBL [4hrs] Assisted Instrumental vaginal delivery complications Clinical practice [24hrs] Vacuum delivery Manage post procedure complications of vacuum Low & out let forceps delivery Post procedure complications management of forceps	Reading assignment Normal presentation Types of female pelvis
	Whole Group Session [2 Hrs.]	

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	Students will discuss on the progress of the week's teaching learning process in the presence of their instructors and coordinators including the department head		
	Self study [5hrs]		
Week 7	Health promotion, education and disease prevention Module [Lecture=5Hrs + self-study 2Hrs]		
	Final examination week		