



STUDY GUIDE	
PROGRAM	MBBS
MODULE TITLE	REPRODUCTIVE SYSTEM- II
ACADEMIC YEAR	4th year -2026
INTRODUCTION	<p>This module builds on the module Reproductive 1, taught in Year-2 of MBBS, and the concepts learnt in the Foundation module. The emphasis in this module is on providing information to students regarding common conditions and diseases concerned with reproductive health, identifying the common issues in men and women, investigating them, and making decisions based on patient information. They must also know the main concepts of molecular structure, regulation and functions of hormones. While studying principles of treatment in this module, learners are advised to revise details of relevant drugs used in the maintenance and restoration of reproductive health. Students must learn the principles of management but are <i>not</i> expected to know, at this stage, details of treatment procedures; medical or surgical.</p>
RATIONALE	<p>The clinical and basic science aspects of reproductive Health are taught since Pakistan is a country with not only a very high birth rate but also with high infant and maternal mortality and morbidity rates. Our graduates need to comprehend the issues that cause such poor outcomes so that they are better able to manage the prevalent conditions.</p>
OUTCOMES	<p>By the end of the module, all the students will be able to justify the diagnosis and management plans of various reproductive diseases based on their knowledge of relevant basic sciences.</p>

JINNAH SINDH MEDICAL UNIVERSITY

DEPARTMENTS INVOLVED	<ol style="list-style-type: none"> 1. Behavioral Sciences / Psychiatry 2. Community Medicine 3. Gynecology & Obstetrics 4. Pathology 5. Pharmacology 6. Urology
COURSE OBJECTIVES	<p>By the end of the course, the students will be able to:</p>
<u>LECTURES</u> BEHAVIORAL SCIENCES/ PSYCHIATRY	<ol style="list-style-type: none"> 1. Management of male & female sexual and reproductive dysfunction <ul style="list-style-type: none"> • Describe the psychosocial issues associated with infertility • Describe ethical issues confronted by patients with infertility 2. Sexual and domestic violence <ul style="list-style-type: none"> • List characteristics of people at increased risk for sexual assault • Describe the medical and psychosocial management of a victim of sexual assault
<u>LECTURES</u> COMMUNITY MEDICINE	<ol style="list-style-type: none"> 1. Introduction to Reproductive health <ul style="list-style-type: none"> • Describe Reproductive Health • Explain the phases of Reproductive Health • Identify the components of Reproductive Health • Discuss Reproductive Health in Islam 2. Maternal care <ul style="list-style-type: none"> • Describe maternal care • Describe maternal mortality • Explain three delay model • Discuss safe motherhood initiative • Identify the interventions to reduce maternal mortality 3. Infant Care & weaning

- Describe infant care
- Identification of "at risk" infant
- Describe infant mortality
- Define weaning and its importance for infant development
- List appropriate first foods for infants and their nutritional value.
- Describe preventive measures of infant mortality

4. Integrated Management of Neonatal & Childhood Illness (IMNCI)- I

- Describe the components of IMNCI
- Discuss the role of community and family practice in IMNCI
- Explain the process of assessment of danger signs in IMNCI
- Describe the IMNCI approach to assessing, classifying, and managing pneumonia

5. Integrated Management of Neonatal & Childhood Illness (IMNCI) -II

- Explain the integration of case management in managing diarrheal diseases.
- Classify dehydration using IMNCI criteria.
- Discuss the role of community and family practice in IMNCI to prevent diarrheal diseases.
- Identify and classify other diseases managed under IMNCI.

6. Family Planning

- Describe family planning
- Explain methods used in family planning
- List the common reasons for unmet need of Family Planning (UMNFP)

7. Reproductive Tract Infections

- Classify reproductive tract infections
- Discuss epidemiology of Reproductive Tract Infections

JINNAH SINDH MEDICAL UNIVERSITY

	<ul style="list-style-type: none">• Discuss the syndromic management of reproductive tract infections• Describe the preventive measures of HIV/AIDs• Describe HIV/AIDS control Programme in Pakistan
LECTURES GYNAECOLOGY	<p>8. Fertility determinants</p> <ul style="list-style-type: none">• Differentiate between fertility and fecund ability• Describe determinants of fertility• Calculate the measures of fertility <p>9. Diet in Pregnancy and Lactation management</p> <ul style="list-style-type: none">• Describe the nutritional requirements during pregnancy and lactation and their role in maternal and child health.• Identify key macronutrients and micronutrients essential for healthy fetal growth and milk production.• Recognize the consequences of inadequate or excessive nutrition during pregnancy and lactation.• Explain the importance of breastfeeding <p>10. Baby Friendly Hospital Initiative (BFHI):</p> <ul style="list-style-type: none">• Describe BFHI and its purpose in promoting breastfeeding.• Explain the Ten Steps to Successful Breastfeeding proposed by WHO/UNICEF• Identify Common breastfeeding challenges

8. Fertility determinants

- Differentiate between fertility and fecund ability

- Describe determinants of fertility

- Calculate the measures of fertility

9. Diet in Pregnancy and Lactation management

- Describe the nutritional requirements during pregnancy and lactation and their role in maternal and child health.

- Identify key macronutrients and micronutrients essential for healthy fetal growth and milk production.

- Recognize the consequences of inadequate or excessive nutrition during pregnancy and lactation.

- Explain the importance of breastfeeding

10. Baby Friendly Hospital Initiative (BFHI):

- Describe BFHI and its purpose in promoting breastfeeding.

- Explain the Ten Steps to Successful Breastfeeding proposed by WHO/UNICEF

- Identify Common breastfeeding challenges

1. Female hormones in the menstrual cycle

- Define primary & secondary amenorrhea, oligo menorrhea, menorrhagia, dysmenorrhea, dyspareunia, post-

	<p>menopausal bleeding, post- coital bleeding, pre-menstrual syndrome</p> <ul style="list-style-type: none">• Describe symptoms and signs of primary and secondary amenorrhea, and oligomenorrhea• Differentiate among the three types of amenorrhea• Define primary & secondary dysmenorrhea• Interpret the clinical abnormalities of the menstrual cycle and its biochemical investigations <p>2. Bleeding PV and early pregnancy complications</p> <ul style="list-style-type: none">• List the most common pregnancy complications• Define ectopic pregnancy• Discuss differential diagnosis of acute abdomen in women• Diagnose ectopic pregnancy, based on provided data (history, examination findings, investigation reports)• Define abortion according to WHO criteria• Differentiate among the various types of abortions based on data provided (history, examination findings, investigation reports)• Describe the treatment options for each type of abortion• Discuss the definition, etiology, risk factors and the classification of GTN• Discuss Gestational Trophoblastic diseases/ neoplasia (molar) GTD/GTN <p>3. Physiology of normal puerperium, Puerperal disorder & Postnatal care</p> <ul style="list-style-type: none">• Define puerperium• Describe signs and symptoms, and management of normal and abnormal puerperium, including puerperal pyrexia and puerperal sepsis
--	---

JINNAH SINDH MEDICAL UNIVERSITY

- Recognize the risk factors for depression (postpartum blues) and the role of psychosocial support
- Identify the capacity of mother to take care of her newborn
- Discuss the issues in postnatal care effectively with patient

4. Lactation management and breast care

- Discuss the benefits & complications of breastfeeding for the baby, mother, family, and country
- Discuss the role of health care provider about counseling breast feeding at term
- Explain the significance of self-breast examination and clinical examination

5. Poly-Cystic Ovary Syndrome (PCOS)

- Interpret the hormone profile report for PCOS
- Discuss the etiology, pathophysiology, diagnosis, and management options for PCOS

6. Vulvo-vaginal infections

- List the causes of vaginal discharge (candida, bacterial vaginosis, trichomonas's)
- Differentiate between a normal vaginal discharge and pathological vaginal discharge (Leucorrhea) on the basis of clinical history
- Describe symptoms, signs, investigations and treatment options for vaginal discharge due to infection
- Discuss steps of prevention and recurrence of vaginal discharge

7. Pelvic Inflammatory Disease

- Define Pelvic Inflammatory disease (PID, Post-delivery PID, Post-abortion PID, Post-Surgical PID)

JINNAH SINDH MEDICAL UNIVERSITY

- Diagnose PID based on symptoms, signs and investigation findings
- Discuss the differential diagnosis of PID and its possible complications
- Discuss the management options for acute and chronic PID

8. Sexually transmitted diseases

- Classify STD
- Differentiate among the various types based on their etiology, modes of infections, clinical features, investigations and treatment option for each.

9. Human Immunodeficiency Virus (HIV)

- Differentiate between HIV and AIDS
- Discuss the etiology, modes of infection, clinical features, investigations and principles of management of patients infected with HIV

10. UTI in Gynecology

- Diagnose UTI in pregnant women with relation to Cystitis, Lower Urinary Tract Symptoms
- Discuss the principles for their effective investigation and treatment

11. Infertility

- Define infertility and sub-fertility
- Discuss the causes and relevant investigations of ovulation in women
- Interpret the reports of Semen analysis in males and fertility-related hormone profiles in female

12. Benign valval disorders

- Identify the clinical features and risk factors of various vulvovaginal conditions including Warts, Bartholin cysts, and

Abscess.

13. Benign tumors of the genital tract I

- Explain benign tumors of female genital tract
- Differentiate among the various types of ovarian cysts, polyps & fibroids based on their etiology, symptoms, signs and pathophysiology
- Justify the selection of investigations for ovarian cysts, polyps & fibroid uterus

14. Gynecological Investigations

- Describe the role of Hysteroscopy & Hysterosalpingogram
- Interpret the lab investigation X-Rays & laparoscopic views of different disorders
- Identify the hard and soft copy views of X-rays and contrast X-rays
- Identify the laparoscopic views of adnexal mass, ruptured and unruptured ectopic pregnancy, PID and TO mass, endometriosis, and pelvic adhesions
- Identify the hysteroscopy views (endometrial polyp, normal uterine cavity, sub mucous fibroid, septate uterus) including Colposcopy views of the cervix
- Describe the role of ultrasound in the evaluation & diagnosis of different disorders in gynae
- Discuss Point of care ultrasound (POCOS) in gynae
- Discuss Doppler ultrasound in gynae

15. Public health issues related to reproductive health

- Discuss the maternal health situation in Pakistan (Total fertility, maternal mortality, perinatal mortality, contraceptive prevalence rate)
- Discuss the important causes of maternal mortality and

	<p>morbidity</p> <ul style="list-style-type: none"> • Describe maternal health services • Describe the levels of obstetric care including obstetric first aid, basic EmNOC, comprehensive EmNOC • List the basic steps of counselling in reproductive health, with emphasis • on family planning • Discuss the role of contraception in population dynamics <p>16. Family planning (contraceptive) methods</p> <ul style="list-style-type: none"> • Describe the commonly used methods of family planning and their indications • Explain their significance
<p>LECTURES OBSTETRICS</p>	<p>1. Antenatal Care & Assessment</p> <ul style="list-style-type: none"> • Explain the importance of routine prenatal laboratory investigations, prenatal diagnostic options (IPS, Quad screen, amniocentesis, CVS) and fetal ultrasound assessment • Explain the process/schedule of antenatal care and investigations (GDM screening, Rh prophylaxis, GBS screening, term cervical assessment) and its importance in ensuring maternal health and normal fetal growth and well-being <p>2. Antenatal investigation</p> <ul style="list-style-type: none"> • Explain the importance and process of antenatal care and investigations • Interpret Rh prophylaxis, GBS screening, and term cervical assessment to ensure maternal health and normal fetal growth and well-being <p>3. Normal Labor</p>

- Define labour
- Explain the stages of normal labor
- Describe the basic mechanisms of labor evaluation
- Describe the seven cardinal movements of labor
- Explain the technique of delivery, traction, and handling of the infant after delivery
- Define the WHO Labor Guide and CTG
- List the uses of partograph and CTG in the management of normal labor
- Interpret the result of the Who Labor Guide

4. Anemia in pregnancy

- Discuss the causes, signs and symptoms, investigations & management.
- Discuss fetal and maternal complications of anemia in pregnancy.

5. Preterm Labor

- Define preterm labor
- Explain indications, contraindications and complications of induction of labor
- Discuss the advantages, and disadvantages of augmentation of labor
- Discuss the monitoring and management of induced and augmented labor
- Differentiate between Threatened preterm labor, Preterm pre-labor rupture of membranes and preterm labor
- Discuss the clinical features, diagnosis and management of preterm labor and preterm prelab or rupture of membranes
- Appraise the principles of diagnosis and management of Threatened preterm labor, Preterm pre-labor rupture of

membranes and Preterm labor

- List the causes of IUD

6. Abnormal Labor-I (Fetal malpresentation and malposition)

- Define mal-presentation & malposition
- List the different types of mal-presentation & malposition
- Describe the causes of Breech, Transverse lie and other mal-presentations and malposition
- Describe the management options for mal-presentation and abnormal labor.

7. Abnormal Labor-II (Obstructed Labor)

- Define obstructed labor
- List the main causes of obstructed labor
- Describe how each cause contributes to the development of this complication
- Describe the clinical signs of obstructed labor and the common maternal and fetal complications that result from uterine obstruction
- Describe the management of obstructed labor

8. Induction of Labor

- Define induction and augmentation of labor
- Explain indications, contraindications, advantages and disadvantages of induction and augmentation of labor
- Discuss the advantages, and disadvantages of augmentation of labor
- Discuss the monitoring and management of induced and augmented labor
- Discuss the management of abnormal pantograph and CTG

9. Analgesia & Anesthesia in Obstetrics

	<ul style="list-style-type: none"> • Describe analgesic techniques used in labour and cesarean delivery • Describe different anaesthetic options used in labor and cesarean delivery including the risks and benefits of general, spinal, & epidural anaesthesia, pudendal nerve block, and narcotics <p>10. Role of ultrasound in Obstetrics</p> <ul style="list-style-type: none"> • Describe the role of Ultrasound, point of care ultrasound (POCUS), and Doppler ultrasound in Obstetrics including antepartum fetal surveillance in normal and high-risk pregnancy & evaluation of fetal growth restriction <p>11. Safe Motherhood</p> <ul style="list-style-type: none"> • Define Pillars of safe motherhood • Discuss components of safe motherhood • Discuss WHO strategies for safe motherhood <p>12. Respectful maternity care</p> <ul style="list-style-type: none"> • Discuss the seven principles of RMC
<p><u>LECTURES</u></p> <p>PATHOLOGY AND MICROBIOLOGY</p>	<p>1. Congenital anomalies of the female and male genital tract; Epididymo-orchitis</p> <ul style="list-style-type: none"> • Describe the various congenital anomalies of the female genital tract with their important salient features • Discuss developmental abnormalities and related features of the hypospadias, epispadias, phimosis & Cryptorchidism. • Discuss the microorganism, pathogenesis and morphology of specific and non-specific types of epididymo-orchitis <p>2. Infectious agents causing genital ulcer disease</p> <ul style="list-style-type: none"> • List the important microorganism causing genital ulcer disease • Discuss in detail the pathophysiology, clinical manifestation,

Laboratory diagnosis, treatment and prevention of:

- i. HSV 2 infection
- ii. HPV infection

3. Infectious agents causing vaginitis

- List the important microorganisms causing vaginitis
- Briefly discuss candida infections
- Discuss in detail the important properties, pathophysiology, clinical manifestation, diagnosis, treatment and prevention of:
 - i. Trichomonas vaginalis infection
 - ii. Gardnerella vaginalis infection

4. Pelvic Inflammatory Disease (PID)

- Define Pelvic Inflammatory Disease
- List the important microorganisms causing cervicitis and PID
- Discuss the risk factors, pathophysiology, morphology clinical presentation and complications of PID
- Discuss the role of Staphylococcus in causing toxic shock syndrome
- Discuss in detail the important properties, pathophysiology, clinical manifestation, laboratory diagnosis, treatment and prevention of Neisseria gonorrhoea infection

5. Sexually Transmitted Infections (STI)

- Define STI
- List the important microorganisms causing STI
- Discuss the risk factors, pathophysiology, morphology and clinical presentation of STIs
- Discuss in detail the pathophysiology, clinical manifestation, laboratory diagnosis, and treatment of:
 - i. CMV Chlamydial infection

ii. Syphilis (*Treponema pallidum*)

- Briefly discuss the role of HIV as a sexually transmitted infection

6. Non-neoplastic and neoplastic conditions of the vulva and vagina

- Discuss the morphology, pathogenesis and clinical presentation of Bartholin cyst, Lichen Sclerosis, Squamous Cell Hyperplasia, Condyloma Acuminatum, Papillary Hidradenoma and Extramammary Paget Disease, Vulvar Intraepithelial Neoplasia and vulvar carcinoma
- Discuss the pathogenesis and morphology of Vaginal Intraepithelial Neoplasia and squamous cell carcinoma, Embryonal rhabdomyosarcoma

7. Non-neoplastic and neoplastic conditions of the cervix

- Discuss the infections of the cervix including acute & chronic cervicitis, and End Cervical Polyps
- Discuss the risk factors, pathogenesis and morphology of cervical intraepithelial lesions and cervical carcinoma
- Elaborate the role of HPV in cervical cancer,
- Discuss cervical screening methods and pap smear

8. Endometrial Hyperplasia & Functional Endometrial Disorders

- Define dysfunctional uterine bleeding (DUB)
- Classify abnormal uterine bleeding according to age group and etiology
- Discuss the etiology, pathogenesis, morphology and clinical features of abnormal uterine bleeding and An ovulatory Cycle
- Discuss the etiology, pathogenesis, morphology and clinical features of acute and chronic Endometritis, Endometriosis, adenomyosis and Endometrial Polyps

JINNAH SINDH MEDICAL UNIVERSITY

- Classify Endometrial hyperplasia
- Discuss the etiology, pathogenesis, morphology and clinical features of Endometrial hyperplasia

9. Tumors of Uterine corpus (Benign and Malignant endometrial tumors)

- Classify tumors of the uterus/endometrium
- Discuss the etiology, pathogenesis, morphology and clinical features of Carcinoma of the Endometrium, Tumors of Endometrial Stroma & mixed Mullerian tumors

10. Non-neoplastic cysts and functional cysts of ovary and Poly Cystic Ovaries

- Discuss the follicular and luteal cysts and their morphology
- Define Polycystic Ovaries (PCOs)
- Discuss its etiology, pathogenesis, morphology and complications

11. Ovarian Tumors - I (Tumors of ovary & fallopian tube)

- Classify Ovarian tumors
- Discuss the etiology, pathogenesis, morphology and clinical features of Serous tumors, Mucinous tumors, Endometrioid tumors, Clear cell tumors, Transitional cell tumors, Adenosarcoma and Malignant mixed Müllerian tumor, and tumors of the fallopian tube

12. Ovarian Tumors - II

- Discuss the etiology, pathogenesis, morphology and clinical features of Sex Cord-Stromal Tumors, Teratoma, Dysgerminoma,

Yolk sac tumor, Mixed germ cell tumors and Metastatic Cancer

13. Testicular Tumors

- Classify testicular tumors
- Discuss the etiology, pathogenesis, morphology and clinical features of various types of testicular cancer

14. Early and late disorders of Pregnancy/ Placenta; pre-eclampsia & eclampsia

- Discuss the etiology, pathogenesis, morphology and clinical features of:

Spontaneous abortion, Ectopic pregnancy, Twin Placenta, Abnormalities of placental insertion, the disorders of placenta viz. Placenta Previa, Placental Abruptio, Placental Insufficiency, Placental Infarcts, Placenta Accrete, Placental infection, Preeclampsia and eclampsia

15. Gestational Trophoblastic Diseases

- Discuss the etiology, pathogenesis and morphology of hydatidiform mole including complete, partial and invasive mole
- Explain the pathogenesis and morphology of choriocarcinoma and placental site trophoblastic tumor

16. Gestational Trophoblastic Diseases

- Discuss the etiology, pathogenesis and morphology of hydatidiform mole including complete, partial and invasive mole
- Explain the pathogenesis and morphology of choriocarcinoma and placental site trophoblastic tumor

17. Non-proliferative & proliferative breast diseases

18.Tumors of breast

- Classify Breast tumors
- Discuss the etiology, risk factors, pathogenesis, morphology, molecular profile and clinical features of various types of breast cancer
- Discuss risk factors, pathogenesis, morphology and clinical features of stromal tumors of breast (Fibro adenoma, Phyllo ides)

LECTURES PHARMACOLOGY	<ol style="list-style-type: none"> 1. Androgens & Anti-androgens <ul style="list-style-type: none"> • Discuss classification of Androgens & Anti-androgens with their basic & Clinical pharmacology of these agents 2. Estrogens & Anti-estrogens <ul style="list-style-type: none"> • Discuss classification of estrogens & anti-estrogens • Explain the basic & clinical pharmacology of these agents 3. Progestins & Anti-progestins <ul style="list-style-type: none"> • Discuss classification of Progestins, Anti-progestins • Explain the basic & clinical pharmacology of these agents 4. Drugs used in pregnancy &lactation <ul style="list-style-type: none"> • Discuss the contraindicated and safer drugs in pregnancy & lactation 5. Contraceptive Drugs <ul style="list-style-type: none"> • Discuss the classification, kinetics and dynamics of different hormonal contraceptive drugs
LECTURES SURGERY	<ol style="list-style-type: none"> 1. Breast Lump <ul style="list-style-type: none"> • Discuss the clinical features and investigations of breast lumps • Discuss the differential diagnosis of breast lump • Describe the Triple assessment of breast lump 2. Diseases of the Nipple and Areola <ul style="list-style-type: none"> • Describe the etiology, clinical presentation, investigations and plan of treatment of diseases of Nipple and Areola 3. Benign breast diseases (Gynecomastia, Bacterial infections, Fibrocystic disease, Cyst, Fibroadenoma, Periductal mastitis,

JINNAH SINDH MEDICAL UNIVERSITY

	<p>Primary breast cancer)</p> <ul style="list-style-type: none">• Describe the surgical Anatomy of the breast• Discuss the clinical features, investigations and treatment plans of Benign Breast diseases• Discuss the differential diagnosis
<u>LECTURES</u> UROLOGY	<p>1. STIs in the male genital tract; including epididymitis, orchitis, prostatitis</p> <ul style="list-style-type: none">• Describe the etiology, pathophysiology, symptoms and signs, investigations and treatment plan for STIs in males (viz. Epididymitis, orchitis, prostatitis gonorrhoea, non-specific urethritis, genital herpes, genital warts, syphilis and HIV) <p>2. Male sexual dysfunction</p> <ul style="list-style-type: none">• Explain the anatomy and physiology of penile erection• Classify the causes of erectile dysfunction• Discuss the various investigations for diagnosis of erectile dysfunction• Discuss the treatment options for Erectile dysfunction including penile im- plant <p>3. Male Infertility</p> <ul style="list-style-type: none">• Define infertility• Describe the stages of spermatogenesis and fertilization• List the causes of male infertility• Discuss steps of evaluation of male infertility including history, examination and investigations• Describe the treatment options for the common conditions causing male infertility

<p><u>TUTORIALS</u> COMMUNITY MEDICINE</p>	<p>1. IMNCI</p> <ul style="list-style-type: none">• Perform a systematic assessment to identify danger signs and symptoms based on IMNCI guidelines.• Accurately classify conditions based on observed signs and symptoms.• Formulate appropriate treatment strategies for each classification <p>2. IUCD insertion</p> <ul style="list-style-type: none">• Identify the different types of IUCDs available• Demonstrate the procedure for IUCD insertion and removal on a mannequin <p>3. Fertility Determinants</p> <ul style="list-style-type: none">• Discuss the concepts of age-specific fertility rates (ASFR), total fertility rate (TFR), and crude birth rate (CBR)• Calculate ASFR, TFR, and CBR using the relevant formulas and data provided• Interpret the results of ASFR, TFR, and CBR calculations and mention their significance
<p><u>TUTORIALS</u> PATHOLOGY & MICROBIOLOGY</p>	<p>1. Ovarian tumors</p> <ul style="list-style-type: none">• Discuss the etiology and morphological features of ovarian

	<p style="text-align: center;">tumors</p> <p>2. Testicular tumors</p> <ul style="list-style-type: none"> • Discuss the etiology and morphological features of testicular tumors <p>3. Breast tumors</p> <ul style="list-style-type: none"> • Discuss the etiology and morphological features of breast tumors <p>4. Lesions of Cervix</p> <ul style="list-style-type: none"> • Discuss histopathology of premalignant and malignant lesions of the cervix • Discuss screening methods for cervical lesions <p>5. Lab diagnosis related to genital infection</p> <ul style="list-style-type: none"> • Discuss high vaginal swab • Discuss pH test and Whiff test
<u>TUTORIALS</u> PHARMACOLOGY	<p>1. Androgens & Anti-androgens</p> <ul style="list-style-type: none"> • Explain the clinical importance of Androgen and Anti-androgens with their basic and clinical pharmacology <p>2. Estrogens & Anti-estrogens</p> <ul style="list-style-type: none"> • Explain the clinical importance of Estrogens & Anti-estrogens with their basic and clinical pharmacology <p>3. Progestin's & Anti-progestin's</p> <ul style="list-style-type: none"> • Explain the clinical importance of Progestin & Anti-progestin with their basic and clinical pharmacology <p>4. Drugs used in Pregnancy & Lactation</p> <ul style="list-style-type: none"> • Explain contraindicated and safer drugs in pregnancy & lactation <p>5. Contraceptive Preparations</p> <ul style="list-style-type: none"> • Explain the clinical importance of Contraceptive Preparations The skills to be learnt in the clinical rotations

JINNAH SINDH MEDICAL UNIVERSITY

	are listed below:
<u>PRACTICAL</u> PHARMACOLOGY	<p>3. Effects of different drugs on the rat uterus</p> <ul style="list-style-type: none"> • Observe the effects of the drug oxytocin on rat uterus by using a power lab
CLINICAL SKILLS	<p>1. History taking</p> <p>2. Perform on patient</p> <ul style="list-style-type: none"> • Per abdominal examination <p>3. Perform on manikin (Skill lab & video)</p> <ul style="list-style-type: none"> • Per abdominal examination • Per speculum examination • Pap smear • High vaginal swab • DNC (on manikin) • Manual vacuum aspiration MVA • Forceps delivery • Foleys Observe on patient (Ward) • Mechanism of labor & normal Vaginal delivery • Pap smear • High vaginal swab • DNC • Examination of Breast <p>4. Instruments in Gynecology</p> <ul style="list-style-type: none"> • Identify the following instruments: <ul style="list-style-type: none"> I. Cusco speculum II. Sims speculum III. Ayers spatula IV. Instruments of DNC & MVA V. Forceps & vacuum

	<p>VI. Family planning tray</p> <ul style="list-style-type: none">• Discuss their uses, indications and contraindications, and complications <p>5. Investigations in Gynae: Hysteroscopy X-Rays & Laparoscopic views of different disorders</p> <ul style="list-style-type: none">• Identify the hard and soft copy views of:<ol style="list-style-type: none">i. X-rays and contrast X-raysii. Laparoscopic views (adnexal mass, ruptured and unruptured ectopic pregnancy, PID and TO mass, endometriosis, pelvic adhesions), Hysteroscopy views (endometrial polyp, normal uterine cavity, sub mucus fibroid, septate uterus) including Colposcopy views of cervix
	<p>SKILLS IN OBSTETRICS</p> <ol style="list-style-type: none">1. Obstetrics history taking2. Obstetric examination (Perform on patient/manikin)3. P/A & antenatal investigations4. Antenatal card5. Discharge card6. Interpretation of normal and abnormal CTG & WHO Labor guide <p>1. Instruments related to obstetrics</p> <ul style="list-style-type: none">• Identify the following instruments:<ol style="list-style-type: none">i. Instruments of C-sectionii. Outlet forcepsiii. Vacuumiv. Episiotomy scissorsv. Fetoscope• Discuss their uses, indications and contraindications, and complications

JINNAH SINDH MEDICAL UNIVERSITY

INTERNAL ASSESSMENT	<ul style="list-style-type: none"> Internal assessment will be according to JSMU policy. The details of internal assessment will be determined by the respective institutions. Internal assessment carries 20% weightage in the final, end-of-year examination
ANNUAL EXAMINATION	<ul style="list-style-type: none"> MCQs and OSCE/OSPE (observed + unobserved) All clinical topics of Behavioral Sciences/ Psychiatry, Surgery, Obstetrics & Gynecology & Urology, will be included in final year MBBS examinations also (as well as in relevant modules of 4th year MBBS).
MODULE EVALUATION	<ul style="list-style-type: none"> The course will be evaluated through a feedback form which will be posted on the JSMU website
REFERENCE BOOKS	<ul style="list-style-type: none"> Basic & Clinical pharmacology, 15th Ed. Bertram G. Katzung Gynecology by Ten Teachers K Park's Textbook of Preventive and Social Medicine 23rd Edition Kaplan Series of Behavioral Sciences, Psychiatry Llewellyn - Jones Fundamentals of Obstetrics & Gynecology Obstetrics by Ten Teachers Public Health and Community Medicine 8th Edition. Author: Ilya's, Ansari Robbins & Citron, Pathologic Basis of Diseases, 9th Edition