

2024



BAQAI MEDICAL COLLEGE 4TH YEAR MBBS



STUDY GUIDE

REPRODUCTION & BREAST MODULE

SPIRAL II – INTEGRATED CURRICULUM
STUDY GUIDE FOR THE STUDENTS OF
4th YEAR MBBS SESSION 2024- 2025



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INTEGRATED MODULAR COURSE STUDY GUIDE



REPRODUCTION

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PREFACE



The landscape of medical education is evolving rapidly, embracing a shift from teacher-centered to student-centered learning approaches across undergraduate and postgraduate levels. In response to these advancements, this study guide for the integrated modular system has been meticulously crafted to align with these changes, following the SPICES model of curriculum development.

1. **Student-centered Approach:** The course organization, content, and activities are predominantly structured around student engagement and empowerment.
2. **Problem-Oriented Learning:** Case-based learning is integrated into our modules to foster problem-solving skills among students.
3. **Explicit Integration:** Basic sciences content is seamlessly integrated with pre-clinical and clinical subjects to provide a comprehensive understanding of medical concepts.
4. **Community Engagement:** Field visits to satellite clinics and community healthcare centers offer students firsthand exposure to community-related health issues.
5. **Elective Opportunities:** Students are encouraged to pursue electives within our institution and other institutes to broaden their learning experiences.
6. **Structured Program:** Our curriculum unfolds systematically, starting from foundational medicine concepts and encompassing all facets of medical sciences in Spiral integration.

Therefore, this study guide serves as a comprehensive resource, offering content-related information, guidance on learning strategies, curriculum management, and outlines of student activities. It is designed to support the undergraduate MBBS program in a multidimensional manner, facilitating holistic learning and development.

<i>Vision</i>	<i>Mission</i>
	
<i>Baqai Medical University</i>	
<p>To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level”.</p>	<p>The mission of Baqai Medical University is to be recognized as a center of excellence in education, research, patient care, and community services by producing highly capable and knowledgeable professionals.</p>
<i>Baqai Medical College</i>	
<p>Our vision is to enhance access and excellence in medical education and research, with the aim of capacity building of students and faculty through innovations, and science and technology competencies, to achieve rapid and sustainable health. The medical graduate thus produced, will be informed, and trained enough to serve the community better, and to be an advisor to the national and international health organizations.</p>	<p>The mission of the Baqai Medical College is to produce medical graduates, who are responsible and accomplished individuals and have skills for problem-solving, clinical judgment, research, and leadership for a medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.</p>

POLICIES AND PROCEDURES

Code of Conduct and Maintenance of Discipline of Students Regulations Under section 25(e) BMU Act.1996

All University students shall be under the full disciplinary control of the University. No students shall be allowed to participate in politics. The action against the act of indiscipline shall include fines, debarring from attending class, and cancellation of admission, depending on the gravity of indiscipline.

The following shall constitute acts of indiscipline for which action may be taken against the student or students:

- (a) Breach of any rule public morals, such as:
 - Use of indecent or filthy language;
 - Use of immodest dress;
 - Use of undesirable remarks or gestures; and
 - Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolence.
- (b) Defiance of authority
- (c) Action, defamatory of and derogatory to Islam
- (d) Immorality
- (e) Being found under the effect of an intoxicant or misuse of drugs including marijuana, LSD dope and other opioids.
- (f) False personation or giving false information or willful suppression of information, cheating or deceiving.
- (g) Inciting or staging a walk-out, a strike, or an unauthorized procession.
- (h) Shouting of slogans derogatory to the prestige of the University or the reputation of its officers or teachers.
- (i) Visiting without a pass place which are not to be visited without a pass.
- (j) Visiting places declared out of bounds for students.

Every student must carry his / her Identity Card which will be open to examination and will be demanded at the time of entrance to the various University Faculties and functions.

No student will be admitted to the facilities of the library, transport, or the canteen unless he /sheis in possession of the Identity Card

INTRODUCTION TO THE INTEGRATED CURRICULUM (SPIRAL- II) FOR 4TH YEAR MBBS

Welcome to the Integrated Curriculum (SPIRAL-II), designed for 4th-year MBBS students. In this study guide, we delve into the principles and structure of our curriculum, emphasizing its unique approach to organ-system-based integration.

The integrated curriculum for 4th-year MBBS is a testament to our commitment to providing comprehensive and cohesive medical education. Rooted in the principle of organ-system-based integration, this curriculum offers a progressive and immersive learning experience.

At its core, the SPIRAL-II curriculum embodies level seven integration, as defined by Harden's 11 levels of integration, encapsulating the pinnacle of correlation. This level of integration underscores our dedication to bridging the traditional boundaries between basic sciences and clinical medicine, fostering a holistic understanding of medical concepts.

Through SPIRAL-II, students embark on a journey of exploration, where the intricacies of various organ systems are intricately woven together to get a comprehensive picture of human health and disease. By transcending the isolated subject matter, students gain a deeper appreciation for the interconnectedness of physiological processes and pathological manifestations.

Key to the success of our integrated approach is the seamless alignment of theoretical knowledge with practical application. By intertwining classroom learning with clinical experiences, SPIRAL-II empowers students to translate theoretical concepts into real-world scenarios, preparing them for the complexities of medical practice.

Furthermore, SPIRAL-II embraces a multidisciplinary approach, fostering collaboration among faculty members from diverse specialties. This collaborative effort ensures that students receive a well-rounded education, enriched by the expertise of professionals across various medical domains.

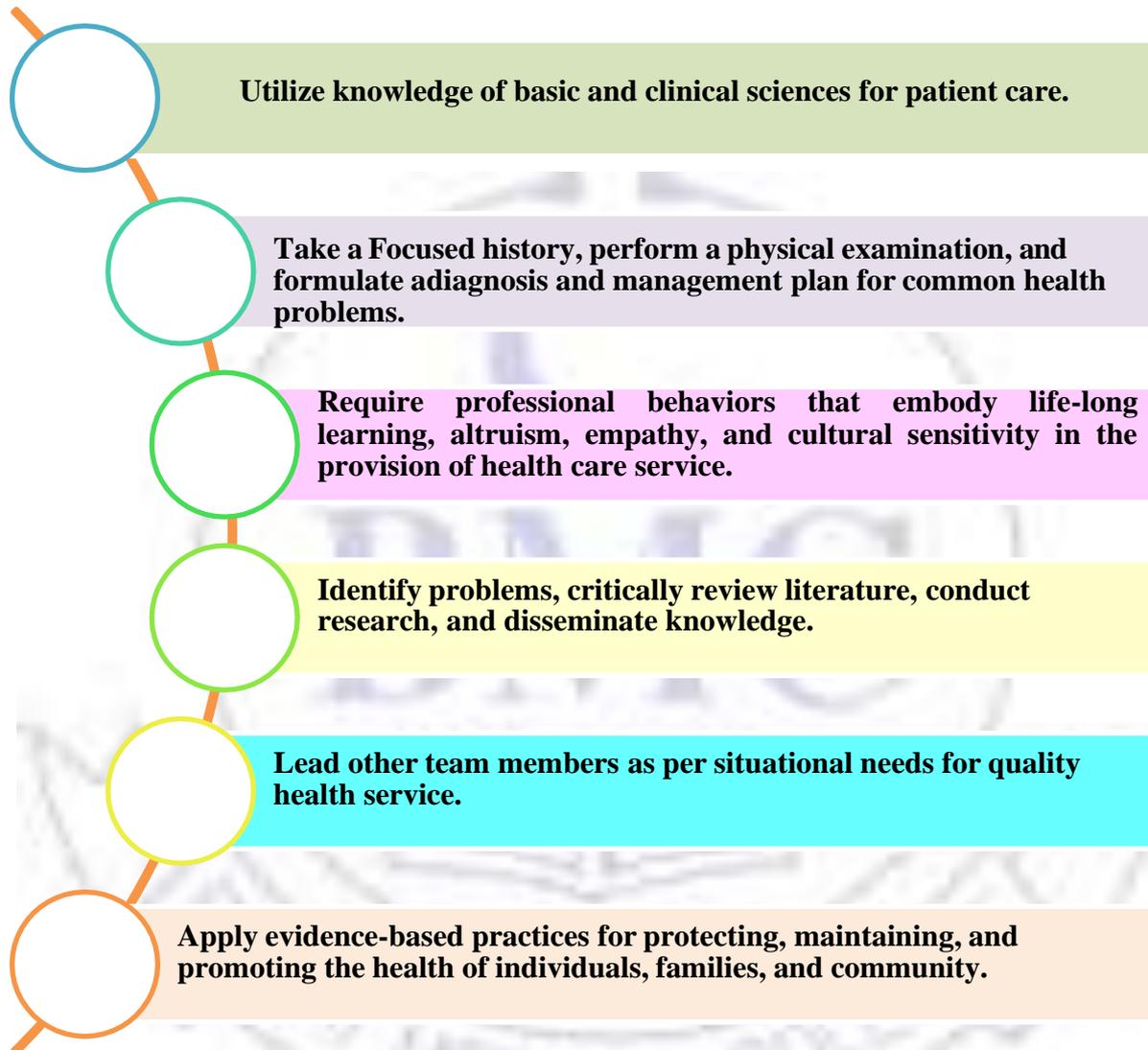
Hence, the Integrated Curriculum (SPIRAL-II) for 4th year MBBS embodies a paradigm shift in medical education, where integration, correlation, and multidisciplinary collaboration converge to cultivate competent and compassionate healthcare professionals. Join us as we embark on this transformative journey, where the boundaries of medical knowledge are transcended, and the art and science of medicine are seamlessly intertwined.



Integration is Key

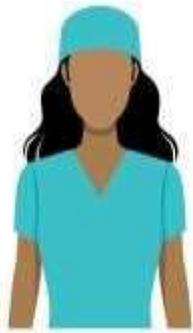
OUTCOMES OF THE MBBS PROGRAM

The Baqai University graduate of the MBBS program will be able to:



BAQAI MEDICAL COLLEGE

TEACHING FACULTY FOR 4TH YEAR MBBS



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Dr. Maria Mehmood	MBBS, FCPS (ENT)	Assistant Professor
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<i>Dr. Sarah Azhar</i>	<i>Head CIC Spiral II</i>
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<i>Prof. Dr. M.S. Fahmi</i>	<i>Member, Department of Ophthalmology</i>
<i>Dr. Abdul Ghaffar</i>	<i>Member, Department of Surgery & Allied</i>
<i>Dr. Amara Altaf</i>	<i>Member, Department of Community Medicine</i>
<i>Dr. Dania Faisal</i>	<i>Member, Department of Medicine & Allied</i>
<i>Dr. Faraz Saleem</i>	<i>Member, Department of Pharmacology</i>
<i>Dr. Hina Amjad</i>	<i>Member, Department of Pharmacology</i>
<i>Dr. Nasima Iqbal</i>	<i>Member, Department of Pathology</i>
<i>Dr. Nikhat Ahsan</i>	<i>Member, Department of Obstetrics & Gynecology</i>
<i>Dr. Rehana Babar</i>	<i>Member, Department of ENT</i>
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<i>Ms. Maria Rahim</i>	<i>Member, Department of Research</i>

CURRICULUM INTEGRATION COMMITTEE (CIC)

TEACHING METHODOLOGIES

		
Interactive Lectures	Case-based Learning	Student's Presentations
		
Flipped Classroom	Small group discussions	Practical demonstration
		
Hands-on practice of clinical skills in a simulated environment	Virtual teaching sessions	Self-directed learning

Module IV

Reproduction

INTRODUCTION TO MODULE – IV



<i>Module – IV</i>	
<i>Reproduction</i>	
System	<ul style="list-style-type: none"> • Male Reproductive System • Female Reproductive System • Breast
Duration	<p>6 Weeks</p> <p>(From 26th August 2024 to 3rd October 2024)</p>
Assessment Dates	*Friday 4 th October 2024
Assessment Pattern	MCQs, SEQs & OSPE
*The Assessment pattern and dates are tentative (Subject to change)	

Pathology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Diseases of the Cervix	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Explain the causes, pathophysiology, and morphology of cervicitis. 2. Discuss the causes, pathogenesis, morphology, and clinical features of cervical intraepithelial neoplasia (CIN) and squamous cell carcinoma. 3. Describe the staging of Cervical cancer. 4. Discuss the screening methods for cervical cancer and its preventive measures.
Diseases of the Vulva	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify the diseases of Vulva. 2. Describe the causes, pathogenesis, morphology, and clinical features of vulvitis, and vulval contact dermatitis. 3. Comprehend the causes, pathogenesis, morphology, and clinical features of <i>Condyloma acuminata</i>. 4. Differentiate between the causes, pathogenesis, morphology, and clinical features of squamous and glandular neoplastic lesions of the Vulva.
Vaginal disorders	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Summarize the developmental anomalies of the vagina. 2. Explain the causes, pathogenesis, morphology, and clinical features of Vaginitis. 3. List the premalignant and malignant lesions of the vagina. 4. Discuss the causes, pathogenesis, morphology, and clinical features of vaginal intraepithelial neoplasia and squamous cell carcinoma.

Pathology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Pelvic Inflammatory Disease (PID)	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify the infections that can affect the female genital tract, such as bacterial, viral, fungal, and parasitic infections. 2. Define pelvic inflammatory diseases. 3. List the etiological causes of pelvic inflammatory diseases. 4. Describe the pathogenesis, clinical features, morphology, and diagnosis of Pelvic inflammatory diseases. 5. Discuss its complications. 6. Summarize the risk factors, pathophysiology, morphology, clinical features, and diagnosis of infections of the lower female genital tract.
Tumors of the Myometrium	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Discuss the types, etiology, morphology, clinical features, and complications of Leiomyoma. 2. Describe the causes, pathogenesis, clinical features, morphology, and complications of Leiomyosarcoma.
Endometrial disorders	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. List the causes of dysfunctional uterine bleeding (DUB). 2. Differentiate between acute and chronic endometritis based on their causes, pathogenesis, morphology, and clinical features. 3. Define and differentiate between Endometriosis and Adenomyosis. 4. Discuss the causes, morphology, clinical features, and complications of endometriosis and adenomyosis.

Pathology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Endometrial Polyp Endometrial Hyperplasia	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define endometrial polyp and endometrial hyperplasia. 2. Describe the causes, pathogenesis, morphology, and clinical features of the Endometrial polyp. 3. Discuss the causes, pathogenesis, morphology, clinical features, and WHO classification of Endometrial hyperplasia. 4. Explain endometrial hyperplasia as a fertile soil for Endometrial carcinoma.
Malignant Tumors of the Endometrium	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. List the malignant tumors of the endometrium. 2. Discuss the causes, pathogenesis, morphology, clinical features, diagnosis, and staging of Endometrial Carcinoma. 3. Tabulate the differentiating characteristics of Type I and Type II Endometrial Carcinoma. 4. Describe the causes, pathogenesis, and morphology of malignant mixed mullerian tumors. 5. Summarize the causes, pathogenesis, morphology, and diagnosis of endometrial stromal tumors.
Gestational and Placental disorders	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define and classify gestational trophoblastic diseases. 2. Discuss the causes, pathogenesis, morphology, and clinical features of Hydatidiform Mole, Invasive Mole, and Choriocarcinoma. 3. Enumerate the disorders of early and late pregnancy.

Pathology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Ovarian disorders	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify the non-neoplastic and neoplastic ovarian cysts. 2. Describe the causes, pathogenesis, morphology, and clinical features of non-neoplastic Follicle and Luteal cysts. 3. Explain the etiology, pathophysiology, morphology, and clinical features of Polycystic Ovaries.
Neoplasms of the Ovary	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify the neoplasms of the Ovary. 2. Discuss the causes, pathogenesis, morphology, and clinical features of surface epithelial tumors of ovaries (serous, mucinous, endometrioid, and Brenner tumors) 3. Comprehend the causes, pathogenesis, morphology, and clinical features of germ cell tumors, sex-cord stromal tumors, and teratoma.

Pathology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Inflammatory Disorders of the Breast	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify the inflammatory disorders of the breast. 2. Describe the causes, pathogenesis, and morphologies of acute mastitis, peri-ductal mastitis, and mammary duct atresia. 3. List the causes of nipple discharge. 4. Define gynecomastia and list its causes.
Benign epithelial lesions of the Breast	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify the benign epithelial lesions of the breast. 2. Discuss the etiology, pathogenesis, and morphology of Fibro-cystic change disease in the breast. 3. Explain the relationship of fibrocystic change disease with carcinoma of the breast. 4. Differentiate between the causes, pathophysiology, clinical features, and morphology of Proliferative Breast Disease with and without atypia.
Tumors of the breast	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify tumors of the breast. 2. Discuss the incidence, etiology, pathology, and morphology of fibroadenoma of the breast. 3. Comprehend the risk factors, pathophysiology, clinical features, and morphology of Phyllodes tumor. 4. Describe the causes, pathogenesis, morphology, and clinical features of Intra-ductal papilloma of the breast.

Pathology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Breast Carcinoma	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify Breast carcinoma. 2. Describe the risk factors of Breast Cancer. 3. Differentiate ductal and lobular carcinoma in situ based on their etiology, pathogenesis, morphology, and clinical features of breast carcinomas. 4. List the common “single gene” mutations associated with hereditary susceptibility to breast cancer. 5. Discuss the causes, pathogenesis, and morphology of the histological types of invasive carcinoma of the breast. 6. Summarize the prognostic and predictive factors of breast cancer in women.

Pathology			
At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:			
Topic	Teaching Strategy	Duration	Learning Objectives
Congenital anomalies of the male genital tract	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Discuss the causes, pathogenesis, morphology, and clinical features of Hypospadias, Epispadias, and Phimosis. 2. Define Cryptorchidism and explain its pathogenesis, clinical features, and morphology. 3. Differentiate between Varicocele, Hydrocele, and Spermatocele based on their causes, pathophysiology, and morphology.
Inflammatory and vascular disorders of the Male genital tract	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify the inflammatory and vascular disorders of the male genital tract. 2. Describe the causes, pathogenesis, morphology, clinical features, and complications of Epididymitis and Orchitis. 3. Comprehend the causes, pathogenesis, morphology, and clinical manifestations of Prostatitis. 4. List the causes of Testicular atrophy. 5. Summarize the pathogenesis of Testicular torsion.
Sexually transmitted diseases	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Enumerate common Sexually Transmitted Diseases. 2. Explain the causes, pathogenesis, morphology, and clinical features of Gonorrhoea. 3. Describe the etiology, pathophysiology, and morphology of non-gonococcal urethritis. 4. Discuss the causes, pathogenesis, morphology, and clinical stages of Syphilis.

Pathology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Testicular Neoplasms	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Classify Testicular neoplasms. 2. Discuss the causes, pathogenesis, clinical features, morphology, and diagnosis of Germ cell tumors of the Testis. 3. Summarize the causes, pathogenesis, clinical features, morphology, and diagnosis of non-germ cell tumors (Sex cord-gonadal stroma tumors and non-Hodgkin lymphomas).
Disorders of the Prostate gland	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Discuss the types, causes, pathogenesis, clinical features, and morphology of Prostatitis. 2. Discuss the causes, pathogenesis, incidence, clinical features, and morphology of Benign Prostatic hyperplasia (BPH). 3. List the tumors and tumor-like conditions of the Prostate gland. 4. Discuss the etiology, pathogenesis, morphology, clinical features, diagnosis, grading, and TNM staging of Prostatic adenocarcinoma.

Pathology			
At the end of these 2 ½ hours practical sessions, the students of 4th year MBBS will be able to:			
Topic	Teaching Strategy	Duration	Learning Objectives
Cervicitis and Neoplastic lesions of the Cervix	Practical (Task-based learning)	2 ½ hours	<ol style="list-style-type: none"> 1. Identify the differentiating gross and microscopic features of cervical intraepithelial neoplasia (CIN) and squamous cell carcinoma with their points of identification and correlate them with their pathophysiology and clinical features. 2. Identify the differentiating microscopic features of acute and chronic cervicitis with their points of identification and correlate them with their pathophysiology and clinical features.
Uterine disorders	Practical (Task-based learning)	2 ½ hours	<ol style="list-style-type: none"> 1 Identify the differentiating microscopic features of Acute and Chronic Endometritis with their points of identification and correlate them with their pathophysiology and clinical features. 2 Identify the differentiating microscopic features of Endometriosis and Adenomyosis with their points of identification and correlate them with their pathophysiology and clinical features. 3 Identify the microscopic features of the Endometrial polyp with its points of identification and correlate with its pathophysiology and clinical features.

Pathology

At the end of these 2 ½ hours practical sessions, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Tumors of the Uterus and Placenta	Practical (Task-based learning)	2 ½ hours	<ol style="list-style-type: none"> 1. Identify the gross and microscopic features of Leiomyoma with its points of identification and correlate them with its pathophysiology and clinical features. 2. Identify the microscopic features of Endometrial hyperplasia and Endometrial carcinoma. 3. Correlate morphology with the pathophysiology and clinical features of Endometrial hyperplasia and Endometrial carcinoma. 4. Identify the gross and microscopic features of Hydatidiform mole and Choriocarcinoma. 5. Correlate the morphology with the pathophysiology and clinical features of Hydatidiform mole and Choriocarcinoma.
Ovarian tumor	Practical (Task-based learning)	2 ½ hours	<ol style="list-style-type: none"> 1. Identify the microscopic features of Mucinous and Serous ovarian tumors with their points of identification and correlate them with their pathophysiology and clinical features. 2. Identify the microscopic features of Granulosa cell tumor and Sertoli Leydig cell tumors and teratoma with their points of identification and correlate them with their pathophysiology and clinical features. 3. Identify the microscopic features of Teratoma with its points of identification. 4. Correlate the morphology with the pathophysiology and clinical features of Teratoma.

Pathology

At the end of these 2 ½ hours practical sessions, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Tumor of the Breast	Practical (Task-based learning)	2 ½ hours	<ol style="list-style-type: none"> 1. Identify the gross and microscopic features of Fibroadenoma of the breast with its points of identification and correlate them with its pathophysiology and clinical features. 2. Identify the gross and microscopic features of Phyllodes tumors with their points of identification and correlate them with their pathophysiology and clinical features. 3. Identify the gross and microscopic features of Breast Carcinoma with its points of identification. 4. Correlate the morphology with the pathophysiology and clinical features of Breast Carcinoma.
Testicular Lesions	Practical (Task-based learning)	2 ½ hours	<ol style="list-style-type: none"> 1. Identify the microscopic features of the undescended testis with its points of identification and correlate them with the changes in spermatogenesis in such cases. 2. Identify the gross features of Testicular torsion with its points of identification. 3. Identify the gross features of Hydrocele and Hemocele with their points of identification and correlate them with their pathophysiology and clinical features. 4. Identify the microscopic features of Epididymitis with its points of identification. 5. Identify the gross and microscopic features of Seminoma with its points of identification and correlate them with its pathophysiology and clinical features.

Pathology

At the end of these 2 ½ hours practical sessions, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Benign Prostatic Hyperplasia	Practical (Task-based learning)	2 ½ hours	<ol style="list-style-type: none">1. Identify the gross and microscopic features of Benign Prostatic Hyperplasia with its points of identification.2. Correlate the morphology with the pathophysiology and clinical features of Benign Prostatic Hyperplasia



Pharmacology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Estrogens and Anti-Estrogens	Interactive Lecture # 1	1 hour	<ol style="list-style-type: none"> 1. Outline the physiological functions of estrogen. 2. Classify Estrogen and Anti-estrogens. 3. Explain the mechanism of action of Ethinyl estradiol, Tamoxifen, and Anastrozole. 4. List the pharmacokinetics of these drugs. 5. List the clinical indications of these drugs. 6. List the common adverse effects and contraindications of these drugs.
Progestins and Anti-Progestins	Interactive Lecture # 2	1 hour	<ol style="list-style-type: none"> 1. Outline the physiological functions of progesterone. 2. Classify Progestins and Anti-Progestins. 3. Explain the mechanism of action of L- Norgestrel and Mifepristone. 4. List the pharmacokinetics of these drugs. 5. List the clinical indications of these drugs. 6. List common adverse effects and contraindications of these drugs.
Androgens, Anabolic steroids, and Anti-androgens	Interactive Lecture # 3	1 hour	<ol style="list-style-type: none"> 1. Outline the physiological functions of androgens. 2. Classify Androgens and Anti-androgens. 3. Explain the mechanism of action of Testosterone, Flutamide and Finasteride. 4. List the pharmacokinetics of these drugs. 5. List the clinical indications of these drugs. 6. List common adverse effects and contraindications of these drugs.

Pharmacology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Hormonal Contraception and Chemical Contraception in Men	Interactive Lecture # 4	1 hour	<ol style="list-style-type: none"> 1. State the types of preparations used for oral contraception. 2. Explain the mechanism of action of oral preparations (combination of estrogens and progestin), progestin therapy alone, and chemical contraception in men. 3. List the clinical indications of these drugs. 4. List common adverse effects and contraindications of these drugs. 5. Summarize the beneficial effects of Female Oral Contraceptives.
Drugs Therapy in Pregnancy	Interactive Lecture # 5	1 hour	<ol style="list-style-type: none"> 1. Recognize the main pharmacological factors that control the passage of drugs from mother to fetus. 2. List the drugs that can be used during pregnancy.
Teratogenic Drugs	Interactive Lecture # 6	1 hour	<ol style="list-style-type: none"> 1. Define the term Teratogen. 2. Explain FDA teratogenic risk categories with examples. 3. List the drugs with significant teratogenic effects on the fetus.

Pharmacology

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Uterine Motility Drugs and Tocolytics	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Outline the pathophysiological of Uterine motility. 2. Classify the drugs used to increase and decrease uterine motility. 3. Explain the mechanism of action of Oxytocin, Magnesium Sulphate, Nifedipine, and Terbutaline. 4. List the pharmacokinetics of these drugs. 5. List the clinical indications of these drugs. 6. List common adverse effects and contraindications of these drugs.
Drugs used during lactation and possible effects on the nursing infant	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Recognize the main pharmacological factors that control the passage of drugs from milk to baby. 2. List the significant effects of drugs on the nursing infant. 3. List the drugs that can suppress and augment lactation.

Pharmacology

At the end of these 2 ½ hours small group discussion sessions, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Polycystic ovarian syndrome	Small Group discussion	2 ½ hours	<ol style="list-style-type: none"> 1. Discuss the pharmacological management of the given case. 2. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case.
Hormonal Contraceptives (COCPs and POPs)	Small Group discussion	2 ½ hours	<ol style="list-style-type: none"> 1. Discuss the pharmacological management of the given case. 2. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case.
Misuse of anabolic steroids	Small Group discussion	2 ½ hours	<ol style="list-style-type: none"> 1. Discuss the adverse effects associated with the misuse of anabolic steroids.
Teratogenic Drugs	Small Group discussion	2 ½ hours	<ol style="list-style-type: none"> 1. Identify the different fetal anomalies caused by the given teratogenic drug.
Pharmacological Management of Primary Infertility	Small Group discussion	2 ½ hours	<ol style="list-style-type: none"> 1. Discuss the pharmacological management of the given case. 2. Discuss the rationale for prescribing Clomiphene citrate for the pharmacological management of the given case.
Hormone Replacement Therapy (HRT)	Small Group discussion	2 ½ hours	<ol style="list-style-type: none"> 1. Discuss the pharmacological management of the given case. 2. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case.

Pharmacology

At the end of these 2 ½ hours practical sessions, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Natural Remedies for PCOS (Black Cohosh and Melatonin)	Practical	2 ½ hours	<ol style="list-style-type: none"> 1. List different herbal remedies used for polycystic ovarian syndrome (PCOS) along with the examples. 2. List the uses of herbal remedies (Black Cohosh and Melatonin) used for PCOS.
Identification of different Contraceptives (Oral, Parenteral & Implanted Contraceptives)	Practical	2 ½ hours	<ol style="list-style-type: none"> 3. Discuss the pharmacological management of the given case. 4. Discuss the rationale for prescribing the drugs for the pharmacological management of the given case. 5. List different types of contraceptive drugs along with the examples. 6. Identify different contraceptives. 7. List the advantages and disadvantages of using different methods of contraception.

Community Medicine

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Introduction to Reproductive Health	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define reproductive health. 2. List the components of reproductive health. 3. Define maternal mortality. 4. Explain the risk factors and causes of maternal mortality. 5. Discuss the strategies to reduce the maternal mortality rate.
Safe motherhood	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define safe motherhood. 2. List the components of safe motherhood. 3. Define antenatal care. 4. Discuss the comprehensive antenatal care plan.
Breastfeeding	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Explain the benefits of breastfeeding. 2. Explain the significance of exclusive breastfeeding. 3. Describe the composition of human milk. 4. Differentiate between Human milk and Cow's milk in the context of their composition, nutritional content, and benefits for infants.
Sexually Transmitted Diseases	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define sexually transmitted diseases (STDs). 2. List the common types and risk factors of STDs. 3. Discuss the prevention and management of STDs. 4. Explain the importance of addressing reproductive and sexual health in achieving sustainable development goals.

Community Medicine

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Introduction to Biostatics and Types of Data	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define Biostatistics. 2. Describe the basic concepts and uses of Biostatistics. 3. Define the data types with examples
Sampling methods	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define Sampling 2. Explain probability and non-probability sampling techniques. 3. Describe all sampling methods with examples.
Summary measures	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define the measures of central tendency and measures of dispersion. 2. Describe all summary measures with examples and their applications.
Data Presentation Methods and Tests of Significance	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Describe the method of tabular data presentation. 2. Define the types of graphical presentation of data. 3. Describe the two common statistical tests of significance, i.e., the chi-square test and the t-test.
Primary Health Care – I	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define primary health care and other important terms related to health care. 2. Describe the levels of healthcare. 3. Explain the importance of intersectoral coordination. 4. Describe the content and essential components of primary healthcare.

Community Medicine

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Primary Health Care – II	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. List the elements of primary health care. 2. Explain the core principles of primary health care. 3. Discuss the structure of primary healthcare. 4. Explain the constraints of primary health care
Mental Health	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define mental health. 2. List the causes of mental illnesses. 3. Discuss the common mental health problems in Pakistan. 4. Explain the different levels of prevention of mental illness
Drug/Substance Abuse	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define drug abuse, drug dependence & drug addiction. 2. Enumerate the criteria of a drug addict. 3. Discuss the magnitude of the problem- Drug addiction. 4. Describe the prevention and control of drug addiction.

Community Medicine Field Visit*

At the end of these Community Field Visits, the students of 4th year MBBS will be able to:

<p>Marie Adelaide Leprosy Center</p>	<ol style="list-style-type: none"> 1. Participants will be able to outline the diverse range of services provided by MALC. 2. Participants will gain a comprehensive understanding of MALC's initiatives aimed at promoting the prevention of disabilities and creating an inclusive environment for persons with disabilities.
<p>Skin & Social Hygiene Center Regal, Karachi.</p>	<ol style="list-style-type: none"> 1. Participants will gain insights into the specialized care provided by the Sindh Institute of Skin Diseases, focusing on the diagnosis, treatment, and management of various skin diseases. 2. Observe the facilities and procedures in place, including the minor operation theater, pathology laboratory, and diagnostic tests

*List of proposed field visits of Community Medicine

Medicine

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Gestational Diabetes	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Identify the symptoms and signs of Gestational Diabetes. 2. To make differential diagnosis of Gestational Diabetes. 3. To discuss and formulate a treatment plan for Gestational Diabetes.
Hypertension in pregnancy	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Identify the symptoms and signs of hypertension in pregnancy. 2. To make differential diagnosis of hypertension in pregnancy. 3. To discuss and formulate a treatment plan of hypertension in pregnancy.

Surgery

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Breast Lump	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Summarize the basic anatomy and physiology of the breast. 2. List the causes of the breast lump. 3. Classify the breast lump. 4. Describe triple assessment. 5. Describe the clinical features of different types of breast lumps. 6. Plan and justify required investigations for breast lump. 7. List the investigations needed for staging malignant breast lump. 8. Propose a treatment plan for benign breast diseases. 9. Discuss the treatment options available for malignant breast lump.
Varicocele and Hydrocele	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Summarize the basic anatomy of the testis and testicular descent. 2. List the causes of scrotal swellings from the commonest to the rarest. 3. Classify the various types of scrotal swellings. 4. Tabulate the difference between varicocele and hydrocele. 5. Discuss various types of hydroceles. 6. List signs and symptoms of varicocele and hydrocele. 7. List the baseline investigations needed for pre-operative workup of a patient with varicocele and hydrocele. 8. Describe the treatment of varicocele and hydrocele.

Surgery

At the end of these 1-hour interactive lectures, the students of 4th year MBBS will be able to:

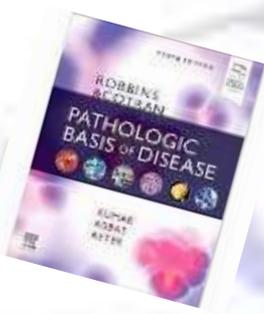
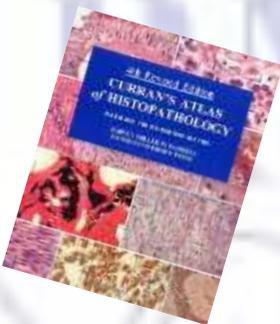
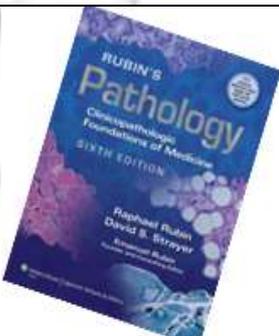
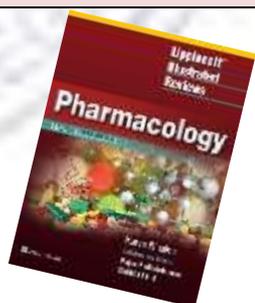
Topic	Teaching Strategy	Duration	Learning Objectives
Testicular Tumors	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Describe the anatomy of the scrotum, including its layers from outer to inner, the content of the scrotum, the content of the inguinoscrotal region, arteries, veins, nerves, and lymphatics drainage of testes. 2. Discuss the incidence, relative risk, pathohistological classification, and clinical presentation of testicular cancer. 3. Explain the criteria for treatment decisions and therapies available for patients with testicular cancer throughout the course of the disease. 4. Discuss the aim and methods of fertility preservation in patients with testicular cancer.
Retention of Urine (Benign Prostatic Hyperplasia)	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Identify and name the major anatomic and histologic features of the prostate gland. 2. Define benign prostate hyperplasia (BPH). 3. Identify the predominant location in the prostate where BPH develops and describe how this fact relates to the symptoms and signs of BPH. 4. Describe the distinctive epidemiological features and natural history of BPH. 5. List the symptoms and signs of BPH. 6. List the important components of the history when interviewing a patient with BPH. 7. List the important components of the physical exam of a patient with BPH. 8. Summarize the laboratory, radiologic, or urodynamic tests, if any, that should be ordered in a patient with BPH. 9. List the indications for treatment of BPH. 10. List the medical and surgical treatment options for BPH. 11. Describe when a patient with BPH should be referred to a urologist

Gynecology and Obstetrics

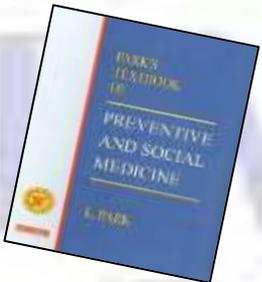
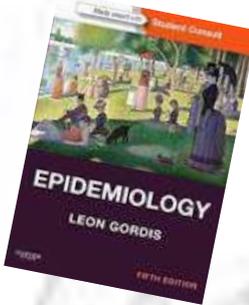
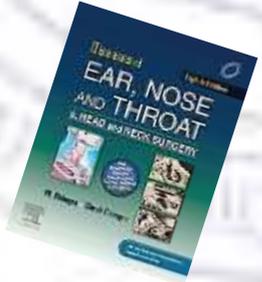
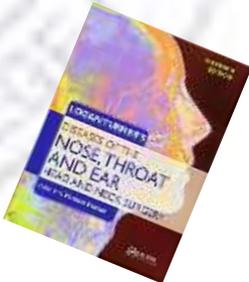
At the end of this 1-hour interactive lecture, the students of 4th year MBBS will be able to:

Topic	Teaching Strategy	Duration	Learning Objectives
Pathophysiology of Pelvic Inflammatory Disease (PID)	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define Pelvic inflammatory disease. 2. Define the epidemiology of the pelvic inflammatory disease 3. Enumerate the risk factors for developing pelvic inflammatory disease 4. Describe the pathogenesis of the pelvic inflammatory disease 5. Discuss the clinical approach for the evaluation of a patient with pelvic inflammatory disease.
Pathophysiology of Polycystic Ovarian Syndrome (PCOS)	Interactive Lecture	1 hour	<ol style="list-style-type: none"> 1. Define Polycystic Ovarian Syndrome (PCOs). 2. Discuss the pathophysiological events related to PCOS. 3. Identify the clinical features of a patient having PCOS. 4. Discuss the clinical approach for the evaluation of patients with PCOS.

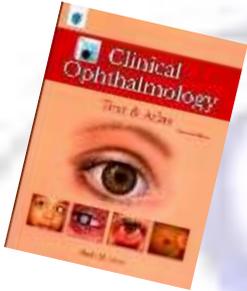
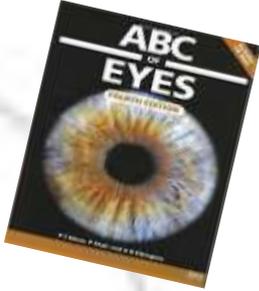
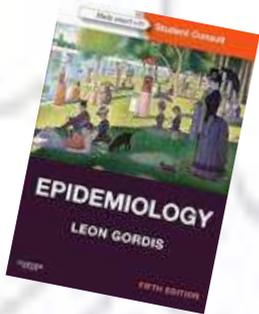
SUGGESTED READING BOOKS

PATHOLOGY			
<p>Robbins & Cotran Pathologic Basis of Disease 10th Edition Kumar, Abbas & Aster</p>		<p>Pathology Illustrated 8th Edition Alasdair D. T. Govan</p>	
<p>Curran's Atlas of Histopathology 4th Edited Edition Robert Curran</p>		<p>Rubin's Pathology: Clinicopathologic Foundations of Medicine 6th Edition Raphael Rubin & David S. Strayer</p>	
PHARMACOLOGY & THERAPEUTICS			
<p>Basic and Clinical Pharmacology 14th Edition Bertram Katzung</p>		<p>Lippincott's illustrated review of Pharmacology 7th Edition Karen Whalen</p>	
<p>Katzung and Trevor's Pharmacology Examination and Board Review 14th Edition Katzung and Trevor</p>		<p>Goodman & Gilman The Pharmacological Basis of Therapeutics 14th Edition Laurence L Brunton & Bjorn C. Knollmann</p>	

SUGGESTED READING BOOKS

COMMUNITY MEDICINE			
<p>Public Health & Community Medicine</p> <p>8th Edition</p> <p>M. Ilyas</p>		<p>Public Health & Preventive Medicine</p> <p>13th Edition</p> <p>Maxcy- Rosenau-Last</p>	
<p>Park's Textbook of Preventive & Social Medicine</p> <p>20th Edition</p> <p>K. Parks</p>		<p>Epidemiology</p> <p>5th Edition</p> <p>Leon Gordis</p>	
ENT			
<p>Diseases of Ear, Nose and Throat</p> <p>8th Edition</p> <p>P.L. Dhingra & Shruti Dhingra</p>		<p>Logan Turner's Diseases of the Nose, Throat and Ear, Head and Neck Surgery</p> <p>11th Edition</p> <p>Musheer Hussain</p>	

SUGGESTED READING BOOKS

OPHTHALMOLOGY			
<p>Clinical Ophthalmology 4th Edition Shafi M. Jatoi</p>		<p>ABC of Eyes 4th Edition P. Shah, P.T. Khaw & A.R. Elkington</p>	
RESEARCH METHODOLOGY			
<p>Introduction to Research in Health Sciences- Stephen Polgar, Shane A. Thomas</p>		<p>Epidemiology 5th Edition Leon Gordis</p>	

SUGGESTED WEBSITES & SEARCH ENGINES

	
<p style="text-align: center;">https://www.medscape.com</p>	<p style="text-align: center;">https://www.PathologyOutlines.com</p>
	
<p style="text-align: center;">https://pubmed.ncbi.nlm.nih.gov</p>	<p style="text-align: center;">https://scholar.google.com</p>
	
<p style="text-align: center;">https://medlineplus.gov</p>	<p style="text-align: center;">https://medicine.nus.edu.sg/pathweb</p>

ASSESSMENT METHODS

1. Formative Assessment

- Assignment
- Quiz (face-to-face or online)
- Student Presentation
- Class participation in small group discussions and case-based learning sessions
- Project / Poster

* 4th Year MBBS Students are directed to maintain their practical journals and logbooks for formative assessment.

2. Summative Assessment

- Modular Exam:

With reference to the Assessment Policy of BMC, dated 14-06-21) (Point 5: Process; Summative assessment points a, b & d); a single modular exam will be conducted at the end of each module which will include all the subjects of basic medical sciences.

*Module exam will be assessed by any of the following assessment methods:

- BCQ
- SEQ
- OSPE

- Annual Exam:

- Internal Evaluation = 20%
- Final Exam= 80%

Theory: MCQs, EMQs & SAQs Practical: Viva & OSPE





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Reproduction and Breast Module
20th Week From 26th August 2024 to 30th August 2024

Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 - 2:00	Practical / Small Group Discussion 2:00– 4:30
Day 84 Monday 26-8-24	Diseases of the Cervix [Pathology] (Dr. Sarah Azhar) [Pathology Lecture Hall]	Estrogens and Anti-Estrogens [Pharmacology] (Dr Izrum Shafi Rajput) [Pathology Lecture Hall]	T E A B R E	Clinics	P R A Y E R S	Group A: Pharmacology Group B: Research Group C: SDL Group D: Pathology
Day 85 Tuesday 27-8-24	Vaginal Diseases [Pathology] (Dr. Ghazal Irfan) [Pathology Lecture Hall]	Progestins and Anti-Progestins [Pharmacology] (Dr Sehrish Mehmood) [Pathology Lecture Hall]		Clinics	Group A: Pathology Group B: Pharmacology Group C: Research Group D: SDL	
Day 86 Wednesday 29-8-24	Introduction to Reproduction Health [Community Medicine] (Dr S. Nauman Raza) [Com Med Lecture Hall 1]	Vulvar Diseases [Pathology] (Dr. Munazza Rashid) [Pathology Lecture Hall]		Clinic	Group A: SDL Group B: Pathology Group C: Pharmacology Group D: Research	
Day 87 Thursday 30-8-24	Pelvic inflammatory diseases [Pathology] (Dr Muhammad Khan) [Pathology Lecture Hall]	Safe Motherhood [Community Medicine] (Dr S. Nauman Raza) [Com Med Lecture Hall 1]	Group B: Community Field Visit			
			A K	Clinics	S	Group A: Research Group C: Pathology Group D: Pharmacology
Day 88 Friday 31-8-24	8: 30 – 9: 30	9: 30 – 10: 30	10:30 – 1:30		1:30- 2:00	2:00 – 4:30
	Endometrial diseases [Pathology] (Dr. Maeesa Sajeel) [Pathology Lecture Hall]	Pathophysiology of Pelvic Inflammatory Diseases [Gynaecology & Obstetrics] (Dr Farah Liaquat) [Pathology Lecture Hall]	Clinics		Jumma Prayers	Endometrial Polyp & Hyperplasia [Pathology] (Dr. Muhammad Rizwan) [Pathology Lecture Hall]

Pathology Practical: Cervicitis and Neoplastic Lesions of the Cervix
Pharmacology: Hormone Replacement Therapy (HRT)

Facilitator: Dr. Rozina Khan
Facilitator: Dr Hina Masood.

Venue: Pathology Lecture Hall
Venue: Pharma Lab

Reproduction and Breast Module
21st Week (From 2nd September 2024 to 6th September 2024)

Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 - 2:00	Practical / Small Group Discussion 2:00– 4:30
Day 89 Monday 2-9-24	Tumors of the Endometrium [Pathology] (Prof. Dr. Nasima Iqbal) [Pathology Lecture Hall]	Tumors of the Myometrium [Pathology] (Dr. Sarah Azhar) [Pathology Lecture Hall]	T E A B R E	Clinics	P R A Y E R S	Gestational and Placental diseases [Pathology] (Dr. Muhammad Khan) [Pathology Lecture Hall]
Day 90 Tuesday 3-9-24	Introduction to Biostatistics and Type of Data [Community Medicine] (Dr Munir Ahmed Shaikh) [Com Med Lecture Hall 1]	Teratogenic Drugs [Pharmacology] (Prof. Dr Asif Ahmed) [Pathology Lecture Hall]		Clinics		Group A: SDL Group B: Pathology Group C: Pharmacology (T1) Group D: Pharmacology (T2)
Day 91 Wednesday 4-9-24	Drug therapy in Pregnancy. (Dr S Javeria Ikram) [Pharmacology] [Pathology Lecture Hall]	Gestational Diabetes [Medicine] (Dr. Saima Askari) [Lecture Hall 13]		Clinic		Group A: Pathology Group B: Pharmacology (T1) Group C: Pharmacology (T2) Group D: SDL
Day 92 Thursday 5-9-24	Hypertension in Pregnancy [Medicine] (Dr. Dania Faisal) [Lecture Hall 13]	Sampling Method [Community Medicine] (Dr Munir Ahmed Shaikh) [Com Med Lecture Hall 1]	Group C: Community Field Visit			
			A K	Clinics	S	Group A: Pharmacology (T1) Group B: Pharmacology (T2) Group D: Pathology
Day 93 Friday 6-9-24			10:30 – 1:30		1:30-2:00	2:00 – 4:30
	Ovarian disorders [Pathology] (Dr. Ghazal Irfan) [Pathology Lecture Hall]	Uterine Motility Drugs and Tocolytics (Prof. Dr Shaikh Nadeem) [Pharmacology] [Pathology Lecture Hall]			Jum ma Pray ers	Group A: Pharmacology (T2) Group B: SDL Group C: Pathology Group D: Pharmacology (T2)

Pathology Practical: Uterine and Placental disorders

Facilitator: Dr. M Yasir Rishi

Venue: Pathology Museum

Pharmacology (Tutorial 1): Pharmacological Management of Primary Infertility **Facilitator:** Dr. S. Javeria **Venue:** Pharma Lec Hall

Pharmacology (Tutorial 2): Teratogenic Drugs

Facilitator: Dr Humaira Arif

Venue: Pharma Lab

Reproduction and Breast Module

22nd Week (From 9th September 2024 to 13th September 2024)

Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 - 2:00	Practical / Small Group Discussion 2:00– 4:30
Day 94 Monday 9-9-24	Neoplasms of the Ovary [Pathology] (Dr Munazza Rashid) [Pathology Lecture Hall]	Pathophysiology of Polycystic Ovarian Syndrome [Obstetrics and Gynaecology] (Dr Farah Liaquat) [Pathology Lecture Hall]	T E A B R E	Clinics	P R A Y E R S	Group A: SDL Group B: Pathology Group C: Pharmacology (T) Group D: Pharmacology (P)
Day 95 Tuesday 10-9-24	Inflammatory Disorders of the Breast [Pathology] (Dr. Muhammad Rizwan) [Pathology Lecture Hall]	Summary Measures [Community Medicine] (Dr Munir Ahmed Shaikh) [Com Med Lecture Hall 1]		Clinics		Group A: Pharmacology (P) Group B: SDL Group C: Pathology Group D: Pharmacology (T)
Day 96 Wednesday 11-9-24	Benign Epithelial Lesions of the Breast [Pathology] (Dr. Maeesa Sajeel) [Pathology Lecture Hall]	Drug Used During Lactation and Possible Effects on Nursing Infants [Pharmacology] (Dr Humaira Arif) [Pathology Lecture Hall]		Clinic		Group A: Pharmacology (T) Group B: Pharmacology (P) Group C: SDL Group D: Pathology
Day 97 Thursday 12-9-24	Tumors of Breast [Pathology] (Dr. Nasima Iqbal) [Pathology Lecture Hall]	Breastfeeding [Community Medicine] (Dr Syed Nauman Raza) [Com Med Lecture Hall-1]	Group D: Community Field Visit			
			A K	Clinics	S	Group A: Pathology (T) Group B: Pharmacology Group C: Pharmacology (P)
Day 98 Friday 13-9-24			10:30 – 1:30		1:30- 2:00	2:00 – 4:30
	Breast Carcinoma [Pathology] (Dr. Sarah Azhar) [Pathology Lecture Hall]	Breast Lump [Surgery] (Dr. Sidra Abbas) [Pathology Lecture Hall]	Clinics		Jumma Prayers	CBL

Pathology Practical: Ovarian Tumors

Pharmacology (Tutorial): Polycystic Ovarian Syndrome

Pharmacology (Practical): Natural Remedies for PCOs

Facilitator: Dr. Tooba Khan

Facilitator: Dr Humaira Arif.

Facilitator: Dr Samreen Mujahid

Venue: Hematology Lab

Venue: Pharma Lecture Hall

Venue: Pharma Lab

Reproduction and Breast Module
23rd Week (From 16th September 2024 to 20th September 2024)

Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 - 2:00	Practical / Small Group Discussion 2:00– 4:30
Monday 16-9-24	Holiday on account of Eid Milad Un Nabi		T E A B R E	Clinics	P R A Y E R	Holiday on account of Eid Milad Un Nabi
Day 99 Tuesday 17-9-24	Congenital anomalies of the male genital tract [Pathology] (Dr. Muhammad Khan) [Pathology Lecture Hall]	Hormonal Contraception & Chemical Contraception in Men [Pharmacology] (Dr Urooj Aamir) [Pathology Lecture Hall]		Clinics		Group A: Pharmacology Group B: Research Group C: SDL Group D: Pathology
Day 100 Wednesday 18-9-24	Inflammatory and vascular disorders of the male genital tract [Pathology] (Dr. Ghazal Irfan) [Pathology Lecture Hall]	Primary Health - I [Community Medicine] (Prof. Dr Nazia Jameel) [Com Med Lecture Hall 1]		Clinic		Group A: Research Group B: SDL Group C: Pathology Group D: Pharmacology
Day 101 Thursday 19-9-24	Varicocele & Hydrocele [Surgery & Allied] (Dr. Abid Owais) [LRC, Department of Surgery]	Primary Health – II [Community Medicine] (Prof. Dr Nazia Jameel) [Com Med Lecture Hall 1]		Group A: Community Field Visit		
			A K	Clinics	S	Group B: Pathology Group C: Pharmacology Group D: Research
Day 102 Friday 20-9-24			10:30 – 1:30		1:30- 2:00	2:00 – 4:30
	Testicular Tumors [Pathology] (Dr. Munazza Rashid) [Pathology Lecture Hall]	Data Presentation and Tests of Significance [Community Medicine] (Dr S. M Zulfiqar Naqvi) [Com Med Lecture Hall 1]	Clinics		Jumma Prayers	Group A: Pathology Group B: Pharmacology Group C: Research Group D: SDL

Pathology: Tumors of the Breast

Pharmacology: Hormonal Contraceptives

Pharmacology: Identification of different contraceptives

Facilitator: Dr. Sana Mubarak

Facilitator: Dr. S. Javeria Ikram

Facilitator: Dr Samreem Mujahid

Venue: Histopathology Lab

Venue: Pharma Lec Hall

Venue: Pharma Lab

Reproduction and Breast Module
24th Week (From 23rd September 2024 to 27th September 2024)

Day	Lecture 1 8:30 – 9:30	Lecture 2 9:30 – 10:30	10:30 - 10:45	Clinics 10:45 – 1:45	1:45 - 2:00	Practical / Small Group Discussion 2:00– 4:30
Day 103 Monday 23-9-24	Disorders of the Prostate gland [Pathology] (Prof. Dr. Nasima Iqbal) [Pathology Lecture Hall]	Retention of Urine (Benign Prostatic Hyperplasia) [Surgery & Allied] (Dr. Tanveer) [LRC, Department of Surgery]	T E A B R E	Clinics	P R A Y E S	Group A: Pharmacology Group B: Research Group C: SDL Group D: Pathology
Day 104 Tuesday 24-9-24	Androgens, Anabolic steroids, and Anti-androgens [Pharmacology] (Dr Faraz Saleem) [Pathology Lecture Hall]	Mental Health [Community Medicine] (Dr Syed Nauman Raza/ Prof. Dr Imtiaz Jafry) [Com Med Lecture Hall-1]		Clinics		Group A: Pathology Group B: Pharmacology Group C: Research Group D: SDL
Day 105 Wednesday 25-9-24	Sexually transmitted diseases [Pathology] (Dr. Muhammad Rizwan) [Pathology Lecture Hall]	Sexually transmitted diseases [Community Medicine] (Dr Syed Nauman Raza) [Com Med Lecture Hall-1]		Clinic		Group A: SDL Group B: Pathology Group C: Pharmacology Group D: Research
Day 106 Thursday 26-9-24	Testicular Tumors [Surgery & Allied] (Dr. Tanveer) [LRC, Dept. of Surgery]	Drug/ Substance abuse. [Community Medicine] (Dr Syed Nauman Raza/ Prof. Dr Imtiaz Jafry) [Com Med Lecture Hall-1]		Group B: Community Field Visit		
Friday 27-9-24	8: 30 – 9: 30	9: 30 – 10: 30	10:30 – 1:30	1:30-2:00	2:00 – 4:30	
	4th Integrated Module Assessment (Theory)		Clinics	Jumma Prayers	4th Integrated Module Assessment (OSPE)	

Pathology Practical: Testicular Lesions & BPH
Pharmacology: Misuse of anabolic steroids

Facilitator: Dr. Nadeem Baqai
Facilitator: Dr. Sehrish Mehmood

Venue: Histopathology Lab
Venue: Pharma Lab