



**BAQAI MEDICAL COLLEGE**  
**3<sup>rd</sup> YEAR MBBS (2024 – 2025)**  
**(INFECTIOUS DISEASES & IMMUNOLOGY MODULE)**



**BAQAI MEDICAL COLLEGE**

**3<sup>RD</sup> YEAR MBBS**  
**SESSION 2024-25**



**INFECTIOUS DISEASES &**  
**IMMUNOLOGY MODULE**



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**SPIRAL II – INTERGRATED CURRICULUM**  
**INFECTIOUS DISEASES & IMMUNOLOGY**  
**MODULE STUDY GUIDE**  
**3<sup>rd</sup> YEAR MBBS (SESSION 2024- 2025)**



**BAQAI MEDICAL COLLEGE**  
**BAQAI MEDICAL UNIVERSITY**

51-Deh Tor, Gadap Road, Superhighway. P.O Box: 2407, Karachi-75340, Pakistan.

(092-21)34410-293 to 298, 34410-427 to 430

Fax: (092-21)34410-317, 34410-431

Email: [info@baqai.edu.pk](mailto:info@baqai.edu.pk), Web: [www.baqai.edu.pk/](http://www.baqai.edu.pk/)



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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><b>Vision</b></i>	<i><b>Mission</b></i>
	
<i><b>Baqai Medical University</b></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><b>Baqai Medical College</b></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>



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**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.

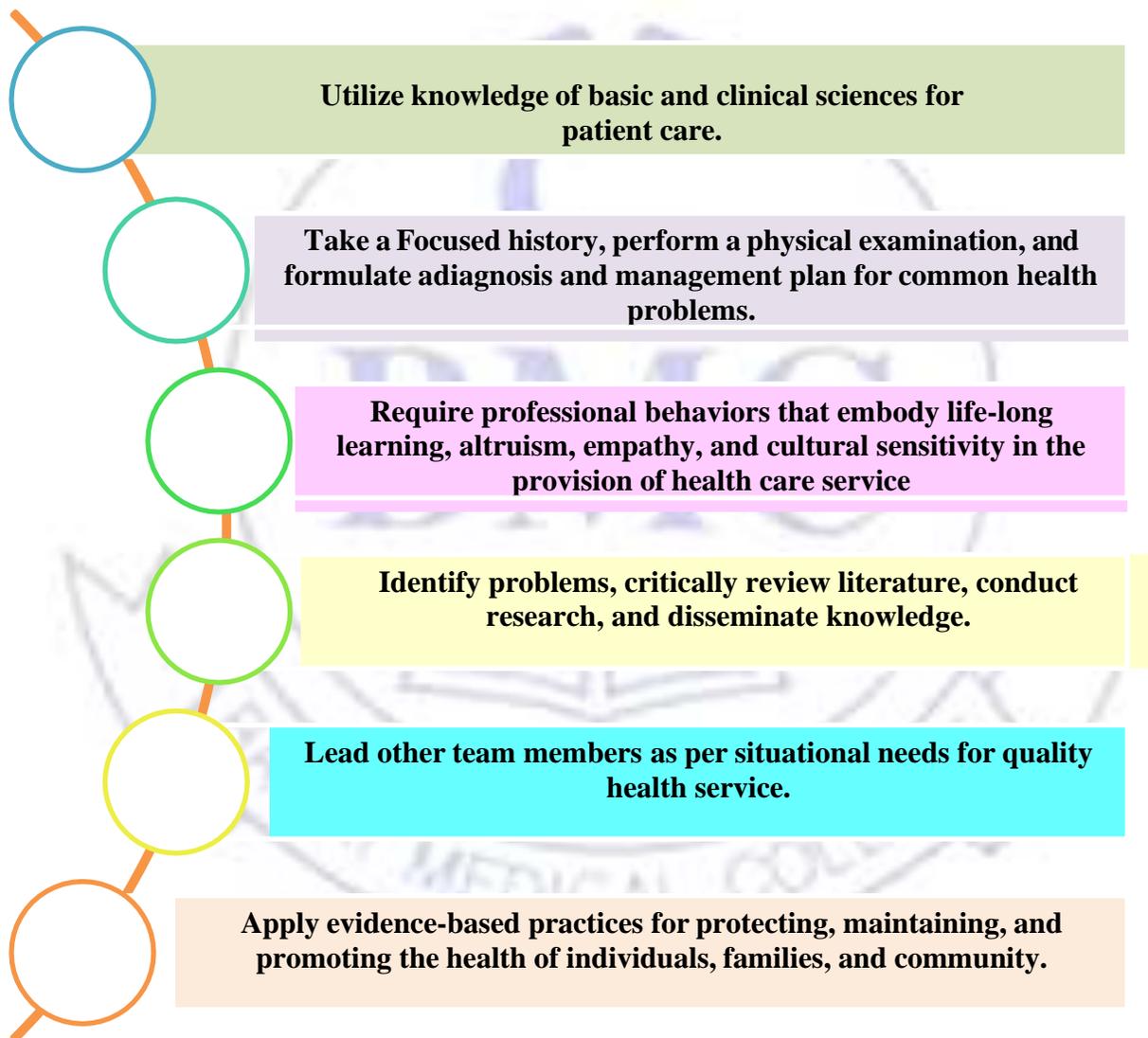
The following shall constitute acts of indiscipline for which action may be taken against the student or students:

- (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 places 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 /she is in possession of the Identity Card.

## **OUTCOMES OF MBBS CURRICULUM**





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*Module II*

*INFECTIOUS  
DISEASES &  
IMMUNOLOGY  
MODULE*



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**MODULAR COMMITTEE**

1.	<b>Dr. Sarah Azhar (Pathology)</b>
2.	<b>Dr. Nazia Jameel (Community Medicine)</b>
3.	<b>Dr. Faraz Saleem (Pharmacology)</b>
4.	<b>Dr. Rafay A. Siddiqui (Forensic Medicine)</b>
5.	<b>Ms. Maria Rahim (Research)</b>
6.	<b>Dr. Azra Shaheen (Behavioral Sciences)</b>
7.	<b>Dr. Dania Faisal (Medicine)</b>
8.	<b>Dr. S. Abdullah Bukhari (Surgery)</b>



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**MODULAR DURATION**

Module Number	Module Name	Dates	Duration	Module In charge	Assessment Date & Pattern
3	Infectious diseases & Immunology Module	(28 <sup>th</sup> May – 16 <sup>th</sup> Aug, 2024)	8 weeks	Dr. Faraz Salim	(16 <sup>th</sup> August, 2024) ( <i>Subject to minor changes</i> )  MCQs, SEQs & OSPE

**ASSESSMENT TOOLS**

1. Formative assessment
  - Quiz (face to face or online)
2. Summative assessment
  - MODULAR EXAM:
    - A single modular exam will be held at the end of module which will include all the subjects taught in the module.
    - Module will be assessed by MCQ, SEQ and OSPE / Viva.



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**DEPARTMENT OF PATHOLOGY**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each Lecture the students of 3<sup>rd</sup> year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Structure of Bacterial Cell	LECTURE # 1	1	Differentiate between eukaryote and prokaryote cells. List and compare important features of different pathogenic organisms. Discuss the structure of a typical bacterium.	Prof. Dr. Nasima Iqbal
Bacterial Growth and Genetics	LECTURE # 2	1	Discuss bacterial growth curve. Describe the factors that affect bacterial growth. List the methods of DNA transfer in bacteria. State the significance of DNA transfer in drug resistance.	Dr. M. Rizwan
Bacterial Classification and Normal Flora	LECTURE # 3	1	Classify bacteria based on their morphology, gram staining and respiratory method. Define normal flora. List members of normal flora according to their anatomical position.	Dr. Maeesa Sajeel
Antibiotics: Mode of Action and Resistance	LECTURE # 4	1	Explain bacteriostatic and bactericidal activity. Describe the mechanism of action of antibacterial drugs. Describe the mechanism of resistance against antibacterial drugs.	Dr. Sarah Azhar
Gram Positive Cocci – I: Staphylococci	LECTURE # 5	1	Describe the important properties of Staphylococcus species. Explain their transmission and pathogenesis. Discuss their clinical features.	Dr. Ghazal Irfan



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			Briefly describe their laboratory diagnosis and prevention.	
Gram Positive Cocci – II: Streptococci	LECTURE # 6	1	Describe the important properties of Streptococcus species. Classify Streptococcus species based on hemolysis. Explain their transmission, pathogenesis, and clinical features. Briefly describe their laboratory diagnosis and prevention. Discuss post streptococcal infections.	Dr. M. Khan
Gram Negative Cocci	LECTURE # 7	1	Discuss important properties of Neisseria species. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. Munnazah Rashid
Gram Positive Spore Forming Bacilli	LECTURE # 8	1	Classify Spore Forming Bacilli and discuss their important properties. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Prof. Dr. Nasima Iqbal
Spirochetes, Chlamydia and Rickettsia	LECTURE # 9	1	Discuss important properties of Spirochetes, Chlamydia and Rickettsia. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. M. Rizwan
Acid Fast Bacilli	LECTURE # 10			Dr. Nadeem
Structure and Classification of Viruses	LECTURE # 11	1	Describe the structure of virus. Discuss the various shape of viruses. Classify viruses based on their genome and envelope.	Dr. Maeesa Sajeel
DNA Enveloped Viruses	LECTURE # 12	1	Discuss important properties of Herpes virus family. Explain their transmission and pathogenesis. Discuss their clinical features.	Dr. Sarah Azhar



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			Briefly describe their laboratory diagnosis and prevention.	
DNA Nonenveloped Viruses	LECTURE # 13	1	Discuss important properties of Adenovirus, papillomavirus, and Parvovirus. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. Ghazal Irfan
RNA Enveloped Viruses – I	LECTURE # 14	1	Discuss important properties of Influenzae virus, Corona virus and Respiratory Syncytial Virus. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. M. Khan
RNA Enveloped Viruses – II	LECTURE # 15	1	Discuss important properties of MMR viruses and Rabies virus. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention. Discuss important properties of Polio virus, Rhino virus and Rota virus. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. Munnazah Rashid
RNA Nonenveloped Viruses	LECTURE # 16	1	Discuss important properties of Dengue virus. Explain its transmission and pathogenesis. Discuss its clinical features. Briefly describe its laboratory diagnosis and prevention.	Dr. M. Rizwan
Arboviruses	LECTURE # 17	1	Discuss important properties of Human Immunodeficiency virus. Explain its transmission and pathogenesis. Discuss their clinical features.	Dr. Maeesa Sajeel



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			Briefly describe their laboratory diagnosis and prevention. Classify and briefly discuss Prions.	
Systemic Mycoses	LECTURE # 18	1	Discuss important properties of Coccidioides, Histoplasma, Blastomyces and Paracoccidioides. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. Sarah Azhar
Opportunistic Mycoses	LECTURE # 19	1	Discuss important properties of Candida, Cryptococcus and Aspergillus. Explain their transmission and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. Ghazal Irfan
Intestinal and Urogenital Protozoa	LECTURE # 20	1	Discuss important properties of Entamoeba, Giardia and Trichomonas. Explain their life cycle, transmission, and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. M. Khan
Blood and Tissue Protozoa	LECTURE # 21	1	Discuss important properties of Plasmodium and Toxoplasma. Explain their life cycle, transmission, and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. Munnazah Rashid
Cestodes and Trematodes	LECTURE # 22	1	Discuss important properties of Taenia, Diphyllbothrium, Echinococcus and Schistosoma. Explain their life cycle, transmission, and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Prof. Dr. Nasima Iqbal
Nematodes	LECTURE # 23	1	Discuss important properties of Enterobius, Trichuris and Ascaris.	Dr. M. Rizwan



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			Explain their life cycle, transmission, and pathogenesis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	
Sterilization & Disinfection	LECTURE # 24		Define the term sterilization & disinfection. Discuss different modes of sterilization & disinfection. List their uses.	Dr. Nadeem
Innate and Adaptative Immunity	LECTURE # 25	1	Define and classify immunity. Discuss First line, Second line and Third line of defense. Differentiate between innate and adaptative immunity. Distinguish active and passive immunity with examples. Classify antibodies on the basis of their structure and function.	Dr. Maeesa Sajeel
Hypersensitivity	LECTURE # 26	1	Define and classify hypersensitivity reactions. Discuss various types of hypersensitivity reactions with examples.	Dr. Sarah Azhar
Complement System	LECTURE # 27	1	Identify the key components and pathways of the complement system. Understand the roles of the complement system in immune defense.	Dr. Ghazal Irfan





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**By the end of small group session, the students of 3<sup>rd</sup>. year MBBS will be able to:**

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Microscope and Simple Staining	PRACTICAL # 1	2	Describe the different parts of the microscope. Handle and focus the microscope independently. Discuss the uses of a microscope Prepare slide from the given sample for simple staining independently. Perform Simple Staining and interpret its result independently. Describe Simple staining technique and its significance.	Dr. Nadeem Umar Baqai
Gram Staining	PRACTICAL # 2	2	Discuss the Gram staining principle. Discuss the technique of Gram staining and its significance. Prepare slide from the given sample for Gram staining independently. Perform Gram staining and interpret its microscopic findings independently. State the differentiating characteristics of Gram positive and Gram-negative bacteria. List the Medically important bacteria that cannot be seen in the Gram stain, reasons, and the alternative microscopic approach.	Mr. M. Rizwan
Ziehl Neelsen Staining	PRACTICAL # 3	2	Prepare slide from the given sample for ZN staining independently Perform ZN staining and interpret its microscopic findings independently. Discuss the technique of ZN staining and its clinical significance.	Dr. Tooba khan
Capsule and Endospore Staining	PRACTICAL # 4	2	Prepare slide from the given sample for Capsule and Endospore staining independently Perform Capsule and Endospore staining and interpret its findings independently. Discuss the technique of Capsule and Endospore staining and its clinical significance.	Dr. M. Yasir Rishi



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Culture Media	PRACTICAL # 5	2	Define culture media. List composition and uses of culture media. Classify and discuss culture media on the basis of consistency and chemical composition.	Dr Rozina Khan
Sterilization and Disinfection	PRACTICAL # 6	2	Define sterilization and disinfection. List various methods used for sterilization. Describe various methods used for sterilization and disinfection and their application in hospitals, OTs, Labs, and health related institutions. Differentiate between sterilization and disinfection. Explain the different processes involved in sterilization and disinfection and their significance. Explain the principle of working of autoclave, hot air oven and incubator.	Dr. Nadeem Umar Baqai
Microbiology Diagnostic Techniques	PRACTICAL # 7	2	Describe the principle and procedure of ELISA, PCR and Blotting Discuss their significance in laboratory testing of various pathogens.	Mr. M. Rizwan
ELISA + PCR	TUTORIAL # 1	2	Describe the principle and procedure of ELISA Discuss its significance in laboratory testing of various viruses. Discuss the significance of Polymerase chain reaction (PCR) in relation to viral infections like HBV, HCV and HIV.	Dr. M. Yasir Rishi
FORMATIVE ASSESSMENTS	Interactive session Followed by quiz and its feedback	2	Assess the comprehension of key concepts Identify any misconceptions Facilitate peer review Understand the immediate feedback by which they can reflect on their learning and make improvements.	Dr. Maeesa Sajeel



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**DEPARTMENT OF PHARMACOLOGY**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each Lecture the students of 3<sup>rd</sup> year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
PRINCIPLES OF ANTIMICROBIAL THERAPY	Lecture # 1	1	Define Optimal antimicrobial prescription. List reasons of appropriate antimicrobial use Identify selection criteria of antimicrobial drugs. Classify antimicrobial drugs according to mode of action, spectrum of activity and origin. Define anti-microbial susceptibility testing. List recommended common combinations of antimicrobial drugs.	Prof. Dr. Nadeem
PENICILLINS & OTHER BETA LACTAM ANTIBIOTICS	Lecture # 2	1	Define beta lactam antibiotics. Classify beta lactams antibiotics Explain mechanism of action of Amoxicillin, Imipenem-cilastatin, Aztreonam, Vancomycin and Daptomycin. List the pharmacokinetic properties of these drugs List clinical uses of these drugs List common adverse effects and contraindications of these drugs	Prof. Dr. Asif
CEPHALOSPORINS	Lecture # 3	1	Classify cephalosporin with respect to generation of drug. Explain mechanism of action of Cephalosporins. List the pharmacokinetic properties of these drugs.	Dr. Faraz



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			<p>1st generation: Cefradine and Cefadroxil. 2nd generation: Cefaclor and Cefuroxime. 3rd generation: Ceftriaxone and Cefixime. 4th generation: Cefepime and Cefpirome. List the clinical uses of these drugs. List the common adverse effects and contraindications of these drugs.</p>	
AMINOGLYCOSIDES	Lecture # 4	1	<p>Classify protein synthesis inhibitors. Classify aminoglycosides Explain mechanism of action of aminoglycosides List the pharmacokinetic properties of Amikacin, Gentamicin and Streptomycin. List the clinical uses of these drugs. List common adverse effects and contraindications of these drugs</p>	Prof. Dr. Nadeem
TETRACYCLINES	Lecture # 5	1	<p>Classify tetracyclines. Explain mechanism of action of tetracyclines. List the pharmacokinetic properties of tetracyclines. List the clinical uses of tetracyclines. List the adverse effects &amp; contraindications of tetracyclines.</p>	Prof. Dr. Asif
MACROLIDES	Lecture # 6	1	<p>Classify Macrolides. Explain mechanism of action of Macrolides. List the pharmacokinetic properties of Erythromycin, Azithromycin and Clarithromycin. List clinical uses of these drugs. List common adverse effects and contraindications of these drugs.</p>	Dr. Sehrish
CHLORAMPHENICOL AND CLINDAMYCIN	Lecture # 7	1	<p>Explain mechanism of action of Chloramphenicol and Clindamycin. List the pharmacokinetic properties of these drugs. List the clinical uses of these drugs.</p>	Dr. Urooj



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			List the common adverse effects and contraindications of these drugs.	
FLUOROQUINOLONES	Lecture # 8	1	Classify Fluoroquinolones. Explain the mechanism of action of Fluoroquinolones. List the pharmacokinetic properties of Ofloxacin, Ciprofloxacin and levofloxacin. List the clinical uses of these drugs. List the common adverse effects and contraindications of these drugs.	Dr. Sehrish
FOLIC ACID ANTAGONISTS	Lecture # 9	1	Classify Antifolate drugs. Explain the mechanism of Sulfonamides, Trimethoprim and Sulphamethoxazole List the pharmacokinetic properties of these drugs. List the clinical uses of these drugs. List the common adverse effects and contraindications of these drugs.	Prof. Dr. Asif
DRUGS FOR TUBERCULOSIS	Lecture # 10	1	Classify drugs used to treat tuberculosis. Explain Mechanism of action of Isoniazid, Rifampin, Ethambutol and Pyrazinamide. List the pharmacokinetic properties of these drugs. List common adverse effects and contraindications of these drugs.	Prof. Dr. Nadeem
DRUGS FOR HEPATIC VIRAL INFECTIONS	Lecture # 11	1	Define virus List the Types of viruses Classify drugs used to treat hepatitis Explain mechanism of action of Ribavirin & Interferon alpha. List the pharmacokinetic properties of these drugs. List the clinical uses of these drugs List common adverse effects and contraindications of these drugs.	Dr. Urooj



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DRUGS FOR HIV INFECTIONS	Lecture # 12	1	Classify drugs used to treat HIV infections Explain mechanism of action of Zidovudine, Abacavir(NRTIs), Efavirenz (NNRTI), Ritonavir (PI) List the clinical uses of these drugs. List the pharmacokinetic properties of these drugs. List common adverse effects and contraindications of these drugs.	Dr. Javeria
PHARMACOLOGICAL MANAGEMENT OF COVID-19	Lecture # 13	1	Define COVID-19 Outline pathophysiology of COVID-19 List drugs used to treat COVID-19. Describe the role of anti-viral agents, Macrolide antibiotics and Immunosuppressants in the treatment of COVID-19.	Dr. Sehrish
ANTI FUNGALS	Lecture # 14	1	Outline types of mycotic infections. Classify antifungal drugs. Explain the mechanism of action of Amphotericin B, Flucytosine and Griseofulvin. List the pharmacokinetic properties of these drugs. List indications, common adverse effects and contraindications of these drugs.	Prof. Dr. Asif
DRUGS FOR MALARIA	Lecture # 15	1	Outline the lifecycle of Malarial parasites Classify antimalarial drugs Explain the mechanism of action of Chloroquine, Artemether & Quinine List the pharmacokinetic properties of these drugs. List common adverse effects and contraindications of these drugs.	Prof. Dr. Nadeem
AMEBICIDAL DRUGS	Lecture # 16	1	Classify amoebicidal drugs according to site of action. Explain the mechanism of action of Metronidazole, Diloxanide furoate and Emetine. List clinical uses of these drugs	Dr. Humaira



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			List the pharmacokinetic properties of these drugs List its common adverse effects and contraindications of these drugs	
ANTI HELMINTHIC DRUGS	Lecture # 17	1	Classify anti-helminthic drugs. Explain mechanism of action of Albendazole, Mebendazole and Ivermectin. List the pharmacokinetic properties of these drugs. List clinical uses of these drugs List common adverse effects and contraindications of these drugs.	Dr. Urooj
ANTI-SEPTICS AND DISINFECTANTS	Lecture # 18	1	Define disinfectants and antiseptics. List properties of standard Antiseptics and Disinfectants. List common Antiseptics and Disinfectants. Explain mechanism of action of an Antiseptic and a Disinfectant. List common uses of Anti-septics and Disinfectants.	Dr. Faraz
IMMUNOMODULATORS	Lecture # 19	1	Define immunomodulators. Classify immunomodulators. Explain mechanism of action of Cyclosporin, Prednisone and Azathioprine as Immunosuppressants. Explain mechanism of action of Interferons as Immune potentiators. List the pharmacokinetic properties of these drugs. List clinical uses of these drugs List common adverse effects and contraindications of these drugs.	Dr. Izrum
IMMUNIZATION & VACCINATION	Lecture # 20	1	Define immunization. Differentiate between active and passive immunization. Define a vaccine. List the types of vaccines with examples.	Prof. Dr. Nadeem



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**By the end of each Small Group Session (Tutorial) the students of 3<sup>rd</sup> year MBBS will be able to:**

TOPIC	MODE OF TEACHING	TIME HOURS	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Infective endocarditis	TUTORIAL# 1	2 HOURS	Define Infective Endocarditis. List drugs used to treat Infective Endocarditis. Write down the prescription of the given case.	Dr. Hina
Tuberculosis	TUTORIAL# 2	2 HOURS	Classify 2 <sup>nd</sup> line drugs used to treat TB. Discuss the pharmacodynamics and pharmacokinetics of 2 <sup>nd</sup> line drugs used to treat TB. Describe the pharmacological management of multi-resistant tuberculosis. Write down the prescription of the given case.	Dr. Javeria
Malaria	TUTORIAL# 3	2 HOURS	List the drugs used for the prophylaxis of malaria Discuss the pharmacodynamics and pharmacokinetics of Mefloquine & Primaquine. List the drugs used to treat malaria during pregnancy. Define cerebral malaria. List drugs used to treat cerebral malaria. Write down the prescription of the given case.	Dr. Sehrish
Amoebic dysentery	TUTORIAL# 4	2 HOURS	Define Amoebic Dysentery List drugs used to treat Amoebic Dysentery Write down the prescription of the given case.	Dr. Hina
Fungal infections	TUTORIAL# 5	2 HOURS	List the topical drugs for superficial fungal infections. Define candidiasis. Discuss the pharmacodynamics and pharmacokinetics of Fluconazole & Nystatin.	Dr. Sehrish



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			Write down the prescription of the given case.	
Typhoid fever	TUTORIAL# 6	2 HOURS	Define Typhoid fever. List the drugs used to treat Typhoid fever Write down the prescription of the given case.	Dr. Izrum
Herpes viral infections	TUTORIAL# 7	2 HOURS	List drugs used to treat herpes viral infections Explain mode of action of Acyclovir. List indications, common adverse effects and contraindications of the drug. Write down the prescription of the given cases.	Dr. Izrum

**By the end of each small group session (practical) , the students of 3<sup>rd</sup> year MBBS will be able to:**

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Overview of Ointments + Preparation & Dispensing of Zinc Oxide Ointment	PRACTICAL# 1	2	Demonstrate the steps of preparation and dispensing of Zinc Oxide Ointment List the uses of Zinc Oxide Ointment	Dr. Sumreen
Overview of Solutions + Preparation & Dispensing of Compound sodium chloride mouthwash.	PRACTICAL# 2	2	Define Mouthwash List the types of Mouthwashes List the ingredients of an antiseptic mouthwash. Demonstrate the steps of preparation and dispensing of Compound sodium chloride mouthwash. List the uses of sodium chloride mouthwash.	Dr. Hina



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**(INFECTIOUS DISEASES & IMMUNOLOGY MODULE)**



**DEPARTMENT OF FORENSIC MEDICINE**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each small group session (practical) , the students of 3<sup>rd</sup> year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Sexual Jurisprudence IV	Practical # 1	2	Enlist signs of pregnancy Differentiate between criminal and legal abortion Describe the methods of abortion	Dr. Muzammil Iqbal
Sexual Jurisprudence V	Practical # 2	2	Define Virginity. Differentiate between True Virgin & False Virgin Describe Signs of Virginity on ML examination. Estimate Age of a Torn Hymen.	Dr. Jan-e-Alam
Sexual Jurisprudence VI	Practical # 3	2	Define Unnatural Sexual Offences List the punishments for said offences Describe method of examination of sodomy	Dr. Muzammil Iqbal
Introduction to Toxicology I	Practical # 4	2	Define Toxicology & Poison Classify Poisons based on Medico-legal ground	Dr. Jan-e-Alam
Introduction to Toxicology II	Practical # 5	2	Describe dangerous drugs act List the Duties of a Doctor / MLO in a suspected case of Poisoning	Dr. Muzammil Iqbal
Metallic Poisons I	Practical # 6	2	List the Uses of all the above Heavy Metals. Describe the Mechanism of Action of all these. List the Treatment options for Acute Poisoning as well as Chronic Poisoning of all.	Dr. Jan-e-Alam
Metallic Poisons II	Practical # 7	2	Diagnose the Chronic Signs & Symptoms of all. Diagnose the Acute Signs & Symptoms of all these Poisonings	Dr. Muzammil Iqbal



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**DEPARTMENT OF COMMUNITY MEDICINE**

**LEARNING OBJECTIVES**

**(3<sup>rd</sup> year MBBS)**

By the end of each lecture, the students of 3<sup>rd</sup>. year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Introduction to infectious diseases	Lecture # 1	01	Define infectious diseases Explain the key definitions associated with infectious diseases. Discuss different preventive measures for common infectious diseases in Pakistan.	Prof. Dr. Nazia Jameel
Introduction to Immunization	Lecture # 2	01	Define immunization Explain the types of immunization Discuss the EPI schedule in Pakistan.	Prof. Dr. Nazia Jameel
Prevention of tuberculosis	Lecture # 3	01	Identify the common risk factors for tuberculosis in Pakistan Discuss the prevention strategies of Tuberculosis Describe the components of the Directly Observed Treatment, Short-course (DOTS) program	Prof. Dr. Nazia Jameel



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**DEPARTMENT OF RESEARCH**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each lecture, the students of 3<sup>rd</sup> year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Study Tool Development (Research)	Small group discussion	2	Identify the variables to be included in the questionnaire Develop a questionnaire on a specified topic	Group Supervisors
Introduction to Evidence Based Medicine	Lecture	2	Define and discuss the development and spread of EBM Identify the five steps of practicing EBM and its benefits and limitations	Ms. Maria Rahim



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**DEPARTMENT OF MEDICINE & ALLIED**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each lecture, the students of 3<sup>rd</sup>. year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Common manifestations of Staphylococcus infection in clinical practice	Lecture # 1	1	Recall classification of bacteria Identify different staphylococcal infection characteristic Enlist skin conditions associated with staphylococcal infection Record physical finding in staph infection Define toxic shock syndrome; complication of staph infection Identify other systemic condition which occur in staph infection Enlist Predisposing factors for staphylococcal infections Discuss methods to diagnose staphylococcal infection Discuss preference of antibiotic use in staph infection	Dr. Dania Faisal
Pneumonia – a leading cause of morbidity and mortality	Lecture # 2	1	Understand impact of respiratory infection on general population Classify different types of Pneumonia Enlist typical organism causing community acquired pneumonia Define hospital acquired pneumonia (HAP) and enlist organism causing HAP Record different mode of transmission of infection Identify predisposing factors in pneumonia Discuss clinical features in pneumonia Identify important clinical signs in pneumonia Enlist test used to diagnose pneumonia infection Enlist antibiotics use to treat pneumonia	Dr. Dania Faisal



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**DEPARTMENT OF SURGERY & ALLIED**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each lecture, the students of 3<sup>rd</sup>. year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Tropical infections and infestations	Lecture # 1	2	<p>To be able to list the common surgical infections and infestations that occur in the tropics</p> <p>To appreciate that many patients do not seek medical help until late in the course of the disease because of socioeconomic reasons</p> <p>To be able to describe the emergency presentations of the various conditions, as patients may not seek treatment until they are very ill</p> <p>To be able to diagnose and treat these conditions, particularly as emergencies.</p> <p>To realize that the ideal management involves a multidisciplinary approach between the surgeon, physician, radiologist, pathologist and microbiologist</p>	Dr. S. M. Abdullah Bukhari



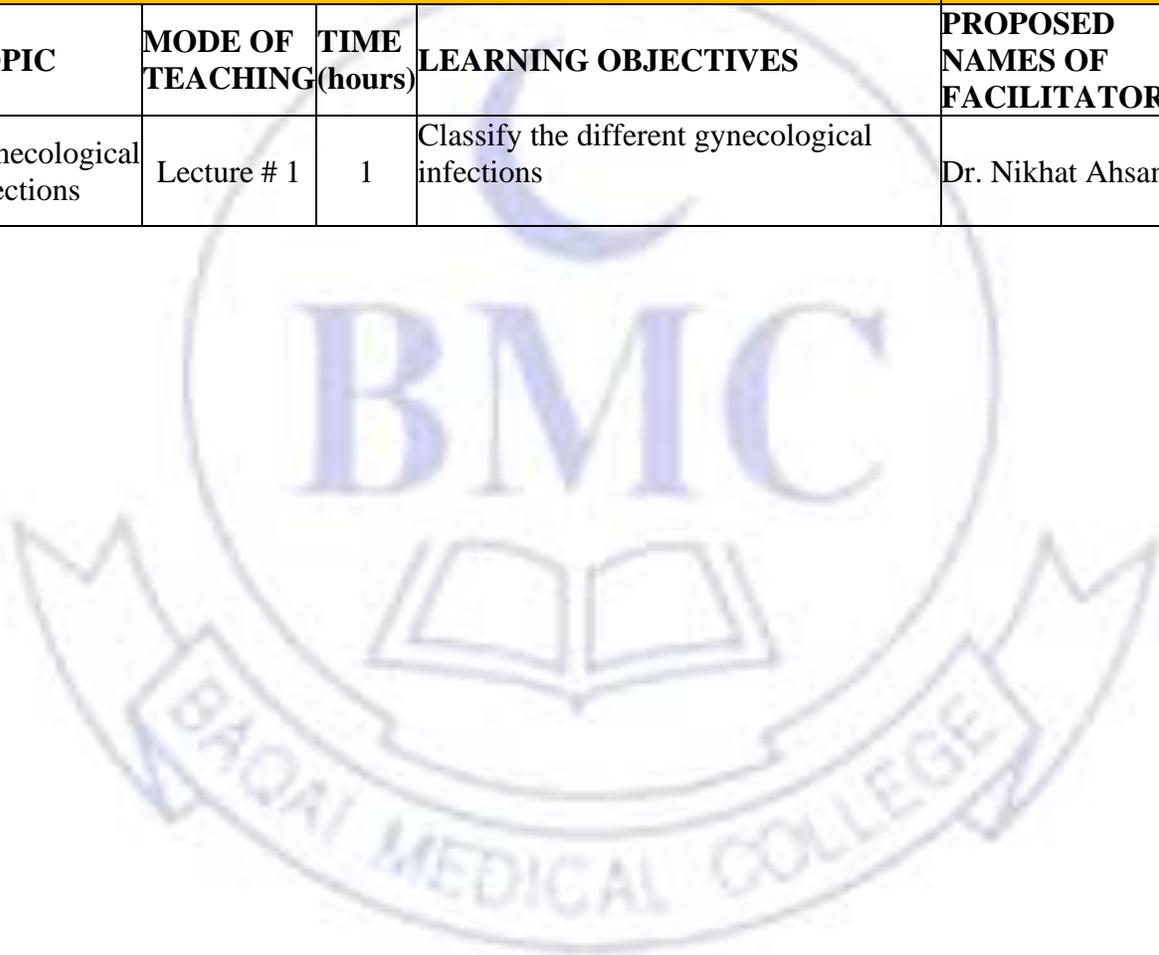
**BAQAI MEDICAL COLLEGE**  
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**DEPARTMENT OF GYNAECOLOGY & OBSTETRICS**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each lecture, the students of 3<sup>rd</sup> year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Gynecological infections	Lecture # 1	1	Classify the different gynecological infections	Dr. Nikhat Ahsan





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**DEPARTMENT OF BEHAVIORAL SCIENCES**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each lecture, the students of 3<sup>rd</sup>. year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Psychosocial theory of personality	Lecture # 1	1	Eight stages of Erick Erikson's theory	Dr. Azra Shaheen
Death & dying	Lecture # 2	1	Definition of grief and bereavement Stages of grief after death Reaction to terminal illness by Kubler-Ross	Dr. Azra Shaheen



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**DEPARTMENT OF BIOETHICS**  
**LEARNING OBJECTIVES**  
**(3<sup>rd</sup> year MBBS)**

By the end of each lecture, the students of 3<sup>rd</sup> year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Human Dignity & Human Rights: Organ donation	Interactive Lecture	2		Dr. Tooba Khan
Human Dignity & Human Rights: Organ donation	Interactive Lecture	2		Dr. Tooba Khan



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**TENTATIVE\***  
**TIME TABLES**  
**FOR**  
**INFECTIOUS**  
**DISEASES &**  
**IMMUNOLOGY**  
**MODULE**  
**3<sup>rd</sup> year MBBS**  
**Session 2024-25**

**\*PLEASE NOTE: THESE ARE TENTATIVE TIME TABLES, SUBJECTED TO MINOR CHANGES**



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WEEK 1	28 <sup>th</sup> May 2024 – 31 <sup>st</sup> May 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 27-05-2024	MODULE ASSESSMENT (ONCOGENETICS MODULE)		TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	MODULE ASSESSMENT (ONCOGENETICS MODULE)
Tuesday 28-05-2024	Com. Med. Introduction to infectious diseases	Patho. Structure of Bacterial Cell				Patho (A) Pharma (B) For. Med. (C) SDL (D)
Wednesday 29-05-2024	Behv. Sci Psychosocial theory of personality	Patho. Bacterial Growth and Genetics				Patho (B) Pharma (C) For. Med. (D) SDL (A)
Thursday 30-05-2024	SDL	Behv. Sci. Death & dying				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Friday 31-05-2024	EBM					Patho (D) Pharma (A) For. Med. (B) SDL (C)
<b>LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2<sup>nd</sup> Floor, BLOCK B</b>						
<b>PATHOLOGY PRACTICAL</b> (Microbiology Lab, 1 <sup>st</sup> floor, Block B)		<b>Microscope and Simple Saining</b>				
<b>PHARMACOLOGY PRACTICAL</b> (Pharma Lab Hall, 2 <sup>nd</sup> floor, Block B)		<b>Overview of Ointments + Preparation &amp; Dispensing of Zinc Oxide Ointment</b>				
<b>FORENSIC MEDICINE</b> (For. Med. Museum, 2 <sup>nd</sup> floor, Block B)		<b>Sexual Jurisprudence IV</b>				

**SUMMER VACATIONS AT BMU: 01<sup>st</sup> JUNE 2024 – 30<sup>th</sup> JUNE 2024**



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1<sup>st</sup> July 2024 – 05<sup>th</sup> July 2024

WEEK 2	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 01-07-2024	Patho. Bacterial Classification and Normal Flora		TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C) SDL (D)
Tuesday 02-07-2024	Patho. Antibiotics: Mode of Action and Resistance	Pharma. PRINCIPLES OF ANTIMICROBIAL THERAPY				Patho (B) Pharma (C) For. Med. (D) SDL (A)
Wednesday 03-07-2024	Patho. Gram Positive Cocci – I: Staphylococci	Pharma. PENICILLINS & OTHER BETA LACTAM ANTIBIOTICS				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Thursday 04-07-2024	Pharma. CEPHALOSPORINS	Patho. Gram Positive Cocci – II: Streptococci				Patho (D) Pharma (A) For. Med. (B) SDL (C)
Friday 05-07-2024	SDL	Med. Common manifestations of Staphylococcus infection in clinical practice				BIOETHICS

**LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2<sup>nd</sup> Floor, BLOCK B**

<b>PATHOLOGY PRACTICAL</b> (Microbiology Lab, 1 <sup>st</sup> floor, Block B)	Gram's staining	
<b>PHARMACOLOGY PRACTICAL</b> (Pharma Lab Hall, 2 <sup>nd</sup> floor, Block B)	Overview of Solutions + Preparation & Dispensing of Compound sodium chloride mouthwash	
<b>FORENSIC MEDICINE</b> (For. Med. Museum, 2 <sup>nd</sup> floor, Block B)	Sexual Jurisprudence V	



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WEEK 3	08 <sup>th</sup> July 2024 – 12 <sup>th</sup> July 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 08-07-2024	Med. Pneumonia – a leading cause of morbidity and mortality	Pharma. Aminoglycosides	<b>TEA BREAK</b>	<b>CLINICS / WARDS</b>	<b>NAMAZ &amp; LUNCH BREAK</b>	Patho (A) Pharma (B) For. Med. (C)
Tuesday 09-07-2024	Pharma. Tetracyclines	Patho. Gram positive spore forming bacilli				Patho (B) Pharma (C) For. Med. (A)
Wednesday 10-07-2024	Patho. Gram negative cocci	Pharma. Macrolides				Patho (C) Pharma (A) For. Med. (B)
Thursday 11-07-2024	Pharma. Chloramphenicol and clindamycin	SDL				Pharma Tutorial (A) Typhoid fever  SDL. (B)
Friday 12-07-2024	Patho. Spirochetes, Chlamydia and Rickettsia	Gynae. / Obs. Gynecological infections				Pharma Tutorial (B) Typhoid fever  SDL. (A)
<b>LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2<sup>nd</sup> Floor, BLOCK B</b>						
PATHOLOGY PRACTICAL (Microbiology Lab, 1 <sup>st</sup> floor, Block B)		Capsule & endospore staining				
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 <sup>nd</sup> floor, Block B)		Infective endocarditis				
FORENSIC MEDICINE (For. Med. Museum, 2 <sup>nd</sup> floor, Block B)		Sexual Jurisprudence VI				



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WEEK 4	15 <sup>th</sup> July 2024 – 19 <sup>th</sup> July 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 15-07-2024	Pharma. Fluoroquinolones	Surg. Tropical infections and infestations	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C)
Tuesday 16-07-2024	ASHURA (9 <sup>th</sup> Moharram)					
Wednesday 17-07-2024	ASHURA (10 <sup>th</sup> Moharram)					
Thursday 18-07-2024	Pharma. Folic acid antagonist	Com. Med. Prevention of tuberculosis				Patho (B) Pharma (C) For. Med. (A)
Friday 19-07-2024	Patho. Acid fast Bacilli	Pharma. Drugs for TB				Patho (C) Pharma (A) For. Med. (B)

**LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2<sup>nd</sup> Floor, BLOCK B**

<b>PATHOLOGY PRACTICAL</b> (Microbiology Lab, 1 <sup>st</sup> floor, Block B)	Zeihl Nelson Staining	
<b>PHARMACOLOGY TUTORIAL</b> (Pharma Lect Hall, 2 <sup>nd</sup> floor, Block B)	Tuberculosis	
<b>FORENSIC MEDICINE</b> (For. Med. Museum, 2 <sup>nd</sup> floor, Block B)	Introduction to Toxicology I	



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WEEK 5	22 <sup>nd</sup> July 2024 – 26 <sup>th</sup> July 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 22-07-2024	Patho. Structure and Classification of Viruses		TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C) SDL (D)
Tuesday 23-07-2024	Patho. DNA Enveloped Viruses	Pharma. Drugs for hepatic viral infections				Patho (B) Pharma (C) For. Med. (D) SDL (A)
Wednesday 24-07-2024	Patho. DNA Nonenveloped Viruses	SDL				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Thursday 25-07-2024	SDL	Patho. RNA Enveloped Viruses – I				Patho (D) Pharma (A) For. Med. (B) SDL (C)
Friday 26-07-2024	Pharma. Pharmacological management of COVID-19	Patho. RNA Enveloped Viruses – II				Pathology Formative assessment

**LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2<sup>nd</sup> Floor, BLOCK B**

<b>PATHOLOGY PRACTICAL</b> (Microbiology Lab, 1 <sup>st</sup> floor, Block B)	Culture media	
<b>PHARMACOLOGY TUTORIAL</b> (Pharma Lect Hall, 2 <sup>nd</sup> floor, Block B)	Herpes Viral Infection	
<b>FORENSIC MEDICINE</b> (For. Med. Museum, 2 <sup>nd</sup> floor, Block B)	Introduction to Toxicology II	



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WEEK 6	29 <sup>th</sup> July 2024 – 02 <sup>nd</sup> August 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 29-07-2024	Patho. RNA Nonenveloped Viruses	SDL	<b>TEA BREAK</b>	<b>CLINICS / WARDS</b>	<b>NAMAZ &amp; LUNCH BREAK</b>	Patho (A) Pharma (B) For. Med. (C) SDL (D)
Tuesday 30-07-2024	Patho. Arboviruses	Pharma. Drugs for HIV infections				Patho (B) Pharma (C) For. Med. (D) SDL (A)
Wednesday 31-07-2024	Patho. Systemic Mycoses	Pharma. Anti-fungal				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Thursday 01-08-2024	Patho. Oppurtunistic Mycoses	Patho. Blood and Tissue Protozoa				Patho (D) Pharma (A) For. Med. (B) SDL (C)
Friday 02-08-2024	CBL					RESEARCH

**LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2<sup>nd</sup> Floor, BLOCK B**

<b>PATHOLOGY PRACTICAL</b> (Microbiology Lab, 1 <sup>st</sup> floor, Block B)	<b>Sterilization &amp; Disinfection</b>	
<b>PHARMACOLOGY TUTORIAL</b> (Pharma Lect Hall, 2 <sup>nd</sup> floor, Block B)	<b>Fungal infections</b>	
<b>FORENSIC MEDICINE</b> (For. Med. Museum, 2 <sup>nd</sup> floor, Block B)	<b>Metallic Poisons I</b>	



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WEEK 7	05 <sup>th</sup> August 2024 – 09 <sup>th</sup> July 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 05-08-2024	Pharma. Drugs formalaria	Patho. Intestinal and urogenital protozoa	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C)
Tuesday 06-08-2024	Pharma. Amoebicidal drugs	Patho. Cestodes and trematodes				Patho (B) Pharma (C) For. Med. (D)
Wednesday 07-08-2024	Patho. Nematodes	Pharma. Anti helminthic drugs				Patho (C) Pharma (D) For. Med. (A)
Thursday 08-08-2024	Pharma. Anti-septics and disinfectants	Patho. Sterilization & disinfection				Pharma Tutorial (A) Amoebic dysentery SDL. (B)
Friday 09-08-2024	BIOETHICS					Pharma Tutorial (B) Amoebic dysentery SDL. (A)

**LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2<sup>nd</sup> Floor, BLOCK B**

<b>PATHOLOGY PRACTICAL</b> (Microbiology Lab, 1 <sup>st</sup> floor, Block B)	<b>Microbiology Diagnostic Techniques</b>	
<b>PHARMACOLOGY TUTORIAL</b> (Pharma Lect Hall, 2 <sup>nd</sup> floor, Block B)	<b>Malaria</b>	
<b>FORENSIC MEDICINE</b> (For. Med. Museum, 2 <sup>nd</sup> floor, Block B)	<b>Metallic Poisons II</b>	



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WEEK 8	12 <sup>th</sup> August 2024 – 16 <sup>th</sup> August 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 12-08-2024	Patho. Innate and Adaptative Immunity	Com. Med. Introduction to Immunization	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C)
Tuesday 13-08-2024	Patho. Hypersensitivity	Pharma. Immunization & vaccination				Patho (B) Pharma (C) For. Med. (D)
Wednesday 14-08-2024	INDEPENDENCE DAY OFF					
Thursday 15-08-2024	Patho. Complement system	Pharma. Immunomodulators				Patho (C) Pharma (D) For. Med. (A)
Friday 16-08-2024	MODULE ASSESSMENT					MODULE ASSESSMENT

**LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2<sup>nd</sup> Floor, BLOCK B**

<b>PATHOLOGY TUTORIAL</b> (Microbiology Lab, 1 <sup>st</sup> floor, Block B)	<b>ELISA &amp; PCR</b>	
<b>PHARMACOLOGY TUTORIAL</b> (Pharma Lect Hall, 2 <sup>nd</sup> floor, Block B)		
<b>FORENSIC MEDICINE</b> (For. Med. Museum, 2 <sup>nd</sup> floor, Block B)		



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**Baqai Medical College**  
**Baqai Medical University**

51-Deh Tor, Gadap Road, Superhighway. P.O Box: 2407, Karachi-75340, Pakistan.

(092-21)34410-293 to 298, 34410-427 to 430

Fax: (092-21)34410-317, 34410-431

Email: [info@baqai.edu.pk](mailto:info@baqai.edu.pk), Web: [www.baqai.edu.pk/](http://www.baqai.edu.pk/)