

AVICENNA MEDICAL & DENTAL COLLEGE

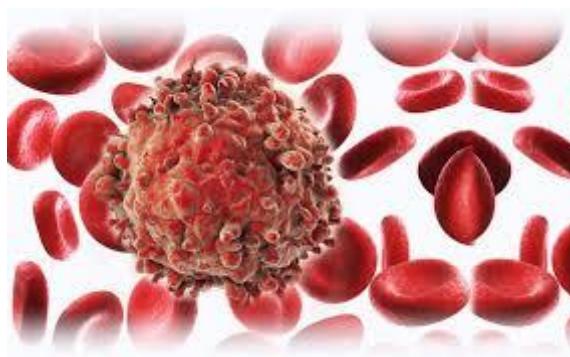


STUDY GUIDE

2025

Neoplasia

BLOCK 8- MODULE 16



Program: MBBS
Year: 3rd Professional Year
Batch No: M-22
Session: 2024-2025

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List of Abbreviations

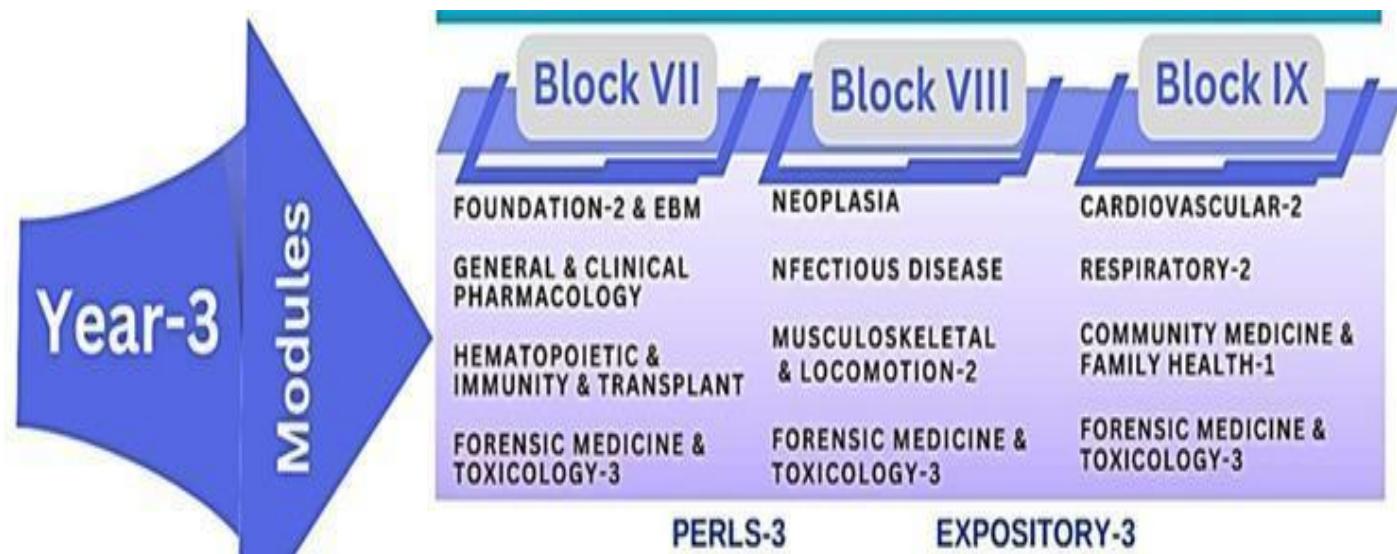
Letter	Abbreviations	Subjects
A	A	Anatomy
	ABCDE	Airway, Breathing, Circulation, Disability, Exposure
	ABG	Arterial blood gas
	ACS	Acute Coronary Syndromes
	Ag	Aging
	AKI	Acute kidney injury
	ALT	Alanine transaminase
	AMI	Acute Myocardial Infarction
	AMP	Adenosine monophosphate
	ANA	Antinuclear Antibody
	ANCA	Anti-neutrophil Cytoplasmic Antibodies
	ANS	Autonomic Nervous System
	AO	Association of osteosynthesis
	APTT	Activated Partial Thromboplastin Clotting Time
	ARDS	Acute Respiratory Distress Syndrome
	ARVC	Arrhythmogenic Right ventricular Cardiomyopathy
	ASD	Atrial Septal Defect
	AST	Aspartate aminotransferase
	ATLS	Advanced Trauma Life Support
	Au	Autopsy
	AUC	Area under the curve
	AV	Atrioventricular
B	B	Biochemistry
	BhS	Behavioral Sciences
	BHU	Basic Health Unit
	BSL	Biological Safety Level
C	C	Civics
	C-FRC	Clinical-Foundation Rotation Clerkship
	C.burnetii	Clostridium burnetii
	C.neoformans	Clostridium neoformans
	C.pneumoniae	Clostridium pneumoniae
	C.psittaci	Clostridium psittaci
	C.trachomatis	Clostridium trachomatis
	CA	cancer
	CABG	coronary artery bypass grafting
	CAD	coronary artery disease
	CBC	Complete Blood Count
	CCR5	cysteine-cysteine chemokine receptor
	CD31	cluster of differentiation 31
	CD34	cluster of differentiation 34
	CD4	cluster of differentiation 4
	CF	cystic fibrosis
	CK	Creatine kinase
	CLED	cystine lactose electrolyte deficient
	CLL	chronic lymphocytic leukemia
	CM	Community Medicine
	CML	chronic myeloid leukemia

	CMV	cytomegalo virus
	CNS	Central Nervous System
	CO	Carbon monoxide
	CO2	Carbon dioxide
	CODIS	combined DNA index system
	COPD	Chronic obstructive pulmonary disease
	COVID-19	Corona Virus Disease 2019
	COX	Cyclooxygenase
	CPR	Cardiopulmonary Resuscitation
	CR	Clinical Rotation
	CRP	Clinical Rotation CSF C- Reactive Protein
	CSF	Cerebro Spinal Fluid
	CT	Computed tomography
	CV	Cardiovascular
	CVA	Cerebral vascular accident
	CVS	Cerebrovascular system
D	D.medinensis	Dracunculus Medinensis
	DALY	Disability-Adjusted Life Year
	DCIS	Ductal Carcinoma in situ
	DCM	Dilated Cardiomyopathy Dorsal Colu
	DCMLS	Dorsal column medial lemniscus system
	DLC	Differential Leukocyte Count
	DMARDs	Disease Modifying Anti Rheumatic Drugs
	DNA	DeoxyRibonucleic Acid
	DOTS	Directly Observed Treatment Short-course
	DTP	Diphtheria, Tetanus, Pertussis
	DVI	Disaster Victim Identification
	DVT	Deep Vein Thrombosis
E	E.coli	Escherichia coli
	ECF	Extracellular Fluid
	ECG	Electrocardiography
	ECP	Emergency contraceptive pills
	ED50	Median Effective Dose
	EEG	Electroencephalogram
	EIA	Enzyme Immunoassay
	ELISA	Enzyme Linked Immunosorbent Assay
	EnR	Endocrinology & Reproduction
	ENT	Ear Nose Throat
	EPI	Expanded Programme on Immunization
	ER	Emergency Room
F	F	Foundation
	FAST	Focused Assessment with Sonography
	FEV1	Forced Expiratory Volume 1
	FM	Family Medicine
	For	Forensic Medicine
	FPIA	Fluorescent Polarization Immunoassay
	FS	Forensic Serology
	FSc	Forensic Science
	FVC	Forced Vital Capacity
G	GCS	Glasgow Coma Scale

	GFR	Glomerular Filtration Rate
	GIT	Gastrointestinal tract
	GL-MS	Gas Liquid Mass Spectrometry
	GLC	Gas Liquid Chromatography
	GLP	Guanosine Monophosphate
	GMP	Guanosine monophosphate
	GO	Gynecology and Obstetrics
	GP	General Practitioner
	GPE	General Physical Examination
	GTO	Golgi Tendon Organ
	Gynae & Obs	Gynecology and Obstetrics
H	H & E	Hematoxylin and eosin
	H. influenzae	Haemophilus influenzae
	H.pylori	Helicobacter pylori
	HAI	Healthcare Associated Infections
	HbC	Hemoglobin C
	HbS	Sickle Hemoglobin
	HbSC	Hemoglobin Sickle C Disease
	HCL	Hydrochloric Acid
	HCM	Hypertrophic Cardiomyopathy
	HHV	Human Herpesvirus
	HIT	Hematopoietic, Immunity and Transplant
	HIV	Human Immunodeficiency Virus
	HL	Hematopoietic & Lymphatic
	HLA	Human Leukocyte Antigen
	HMP	Hexose Monophosphate
	HNSS	Head & Neck and Special Senses
	HPLC	High Pressure Liquid Chromatography
I	ICF	Intra Cellular Fluid
	ID	Infectious Diseases
	IE	Infective Endocarditis
	IL	Interleukin
	ILD	Interstitial Lung Disease
	IN	Inflammation
	INR	International Normalized Ratio
	INSTIs	Integrase Strand Transfer Inhibitors
	IPV	Intrauterine Device
	IUD	Intrauterine device
J	JVP	Jugular Venous Pulse
L	L	Law
	LD50	Median Lethal Dose
	LDH	Lactate Dehydrogenase
	LSD	Lysergic acid diethylamide
M	M	Medicine
	MALT	Mucosa Associated Lymphoid Tissue
	MBBS	Bachelor of Medicine, Bachelor of Surgery
	MCH	Mean corpuscular hemoglobin
	MCHC	Mean Corpuscular Hemoglobin Concentration
	MCV	Mean Corpuscular Volume
	MHO2001	Mental Health Ordinance 2001
	MoA	Mechanism of action

	MRI	Mechanism of action
	MS	Musculoskeletal
	MSD	Musculoskeletal disorders
	MSDS	Minimum Service Delivery Standards
	MSK	Musculoskeletal
N	N	Neoplasia
	NEAA	Non-Essential Amino Acids
	NK cells	Natural Killer Cells
	NNRTI	Non-nucleoside Reverse Transcriptase Inhibitors
	NRTIs	Nucleoside Reverse Transcriptase Inhibitors
	NS	Neurosciences
O	NSAIDs	Non-steroidal Anti-Inflammatory Drugs
	O	Ophthalmology
	OA	Osteoarthritis
	OPC	Organophosphate
	OPV	Oral poliovirus vaccine
	Or	Orientation
P	Orth	Orthopaedic
	P	Physiology
	P.jiroveci	<i>Pneumocystis jiroveci</i>
	Pa	Pathology
	PAD	Pathology
	PAF	Platelet activating factor
	PBL	Problem Based Learning
	PCH	Psychiatry
	PCR	Polymerase Chain Reaction
	PDA	Patent Ductus Arteriosus
	PDGF	Platelet derived growth factor
	Pe	Pediatrics
	PEM	Protein Energy Malnutrition
	PERLs	Professionalism, Ethics, Research, Leadership
	PET	Positron Emission Tomography
	Ph	Pharmacology
	Ph	Pharmacology
	PI	Personal Identity
	PID	Pelvic inflammatory disease
	PIs	Protease inhibitors
	PMC	Pakistan Medical Commission
	PMDC	Pakistan Medical and Dental Council
	PMI	Post-Mortem Interval
	PNS	Peripheral Nervous System
	PPD	Paraphenylenediamine
	PPE	Personal Protective Equipment
	Psy	Psychiatry
Q	PT	Prothrombin Time
	PVC	Premature Ventricular Contraction
	PVD	Peripheral Vascular Diseases
	QALY	Quality-Adjusted Life Year
R	QI	Quran and Islamiyat
	R	Renal
	Ra	Radiology

	RA	Radiology
	RBCs	Red Blood cells
	RCM	Restrictive Cardiomyopathy
	RDA	Recommended Dietary Allowance
	Re	Respiratory
	RF	Rheumatoid factor
	RFLP	Restriction Fragment Length Polymorphism
	Rh	Rheumatology
	RHC	Rural Health Center
	RIA	Radioimmunoassay
	RMP	Resting Membrane Potential
	RNA	Ribonucleic Acid
	RTA	Road Traffic Accident
S	S	Surgery
	S.pneumonia	Streptococcus pneumoniae
	SA	Sinoatrial
	SCC	Squamous-cell carcinoma
	Se	Sexology
	Sec	Section
	SIDS	Sudden Infant Death Syndrome
	SLE	Systemic Lupus Erythematosus
	SOP	Standard Operating Procedure
T	TB	Tuberculosis
	TBI	Traumatic Brain Injury
	TCA	Tricarboxylic acid cycle
	TCBS	Thiosulphate Citrate Bile salts Sucrose
	TD50	Median Toxic Dose
	TGA	Transposition of the Great Arteries
	Th	Thanatology
	TLC	Thin Layer Chromatography
	TNF	Tumor Necrotic Factor
	TNM	Tumor Necrotic Factor
	TOF	Tetralogy of Fallot
	Tox	Toxicology
	Tr	Traumatology
	TSI	Triple Sugar Iron
U	USG	Ultrasonography
	UTI	Urinary Tract Infections
	UV	Ultraviolet
V	VAP	Ventilator-Associated Pneumonia
	Vd	Volume of Distribution
	VEGF	Vascular Endothelial Growth Factor
	VSD	ventricular septal defect
W	W. bancrofti	Wuchereria bancrofti
	WBCs	White Blood Cells
	WHO	World Health Organization
Z	ZN Staining	Ziehl-Neelsen Staining



Introduction to the Study Guide

Welcome to the Avicenna Medical & Dental College Study Guide!

This guide serves as your essential resource for navigating the complexities of your medical education at Avicenna Medical & Dental College. It integrates comprehensive details on institutional framework, curriculum, assessment methods, policies, and resources, all meticulously aligned with UHS, PMDC and HEC guidelines.

Each subject-specific study guide is crafted through a collaborative effort between the Department of Medical Education and the respective subject departments, ensuring a harmonized and in-depth learning experience tailored to your academic and professional growth.

Objectives of the Study Guide

1. Institutional Understanding:

- Gain insight into the college's organizational structure, vision, mission, and graduation competencies as defined by PMDC, setting the foundation for your educational journey.

2. Effective Utilization:

- Master the use of this guide to enhance your learning, understanding the collaborative role of the Department of Medical Education and your subject departments, in line with PMDC standards.

3. Subject Insight:

- Obtain a comprehensive overview of your courses, including detailed subject outlines, objectives, and departmental structures, to streamline your academic planning.

4. Curriculum Framework:

- Explore the curriculum framework, academic calendar, and schedules for clinical and community rotations, adhering to the structured guidelines of UHS & PMDC.

5. Assessment Preparation:

- Familiarize yourself with the various assessment tools and methods, including internal exam and external exam criteria, and review sample papers to effectively prepare for professional exams.

6. Policies and Compliance:

- Understand the institutional code of conduct, attendance and assessment policies, and other regulations to ensure adherence to college standards and accrediting body requirements.

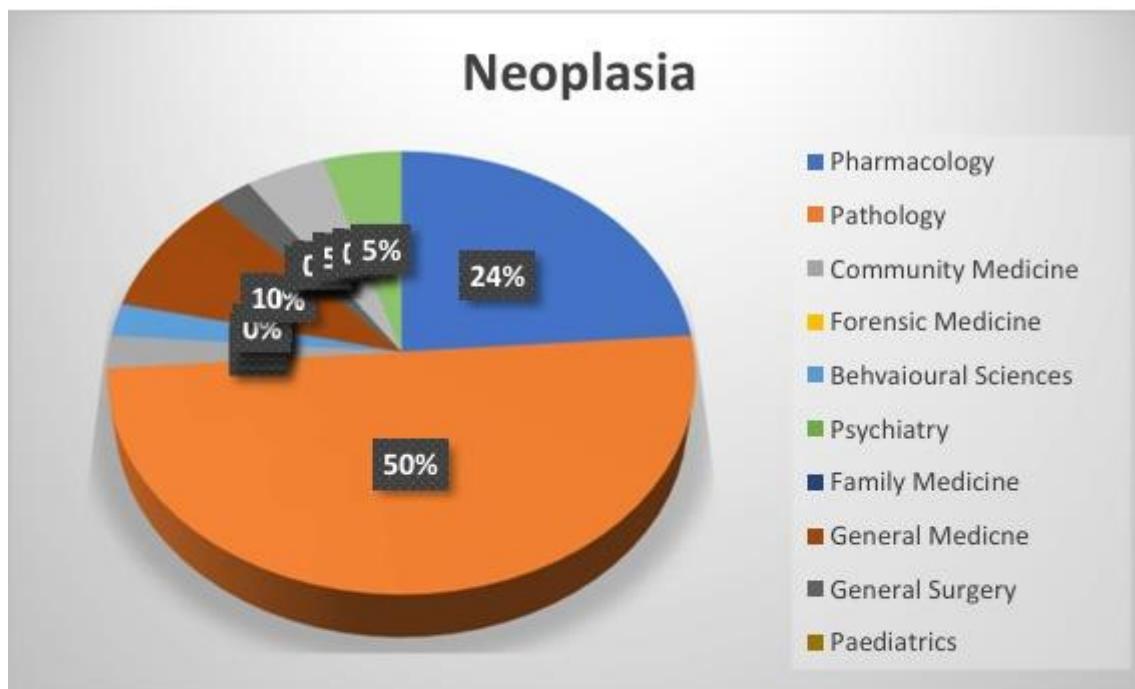
7. Learning Resources:

- Utilize the learning methodologies, infrastructure resources, and Learning Management System to maximize your educational experience and academic success.

This guide, meticulously developed in collaboration with your subject departments, is designed to support your academic journey and help you achieve excellence in accordance with the highest standards set by PMDC and HEC.

Introduction to Module

- Neoplasia module is essential to provide MBBS students with the knowledge and skills abilities necessary to comprehend the biological, clinical, and public health aspects of cancer.
- This module provides the foundation for effective cancer diagnosis, management, and prevention, it guarantees that our future doctor is well prepared to address one of the most pressing healthcare challenges of our time.
- Aim of this module is to provide MBBS students with a comprehensive understanding of neoplasia, preparing them to diagnose, treat, and prevent cancer effectively in their future clinical practice.



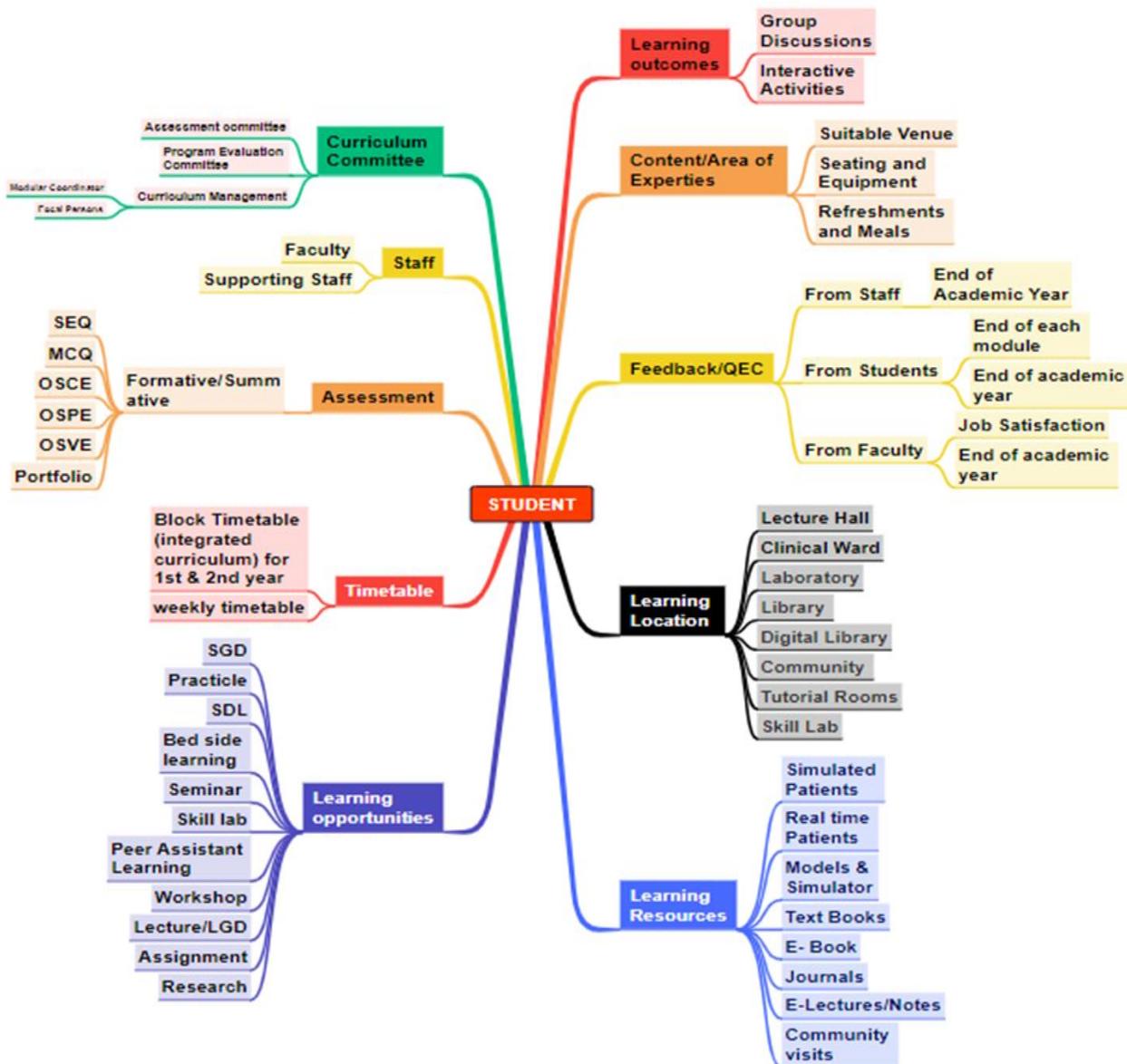
Module Weeks	Recommended Minimum Hours
1.2	42

Module Committee

Name	Designation	Department
Prof. Dr. Gulfreeen Waheed	Principal & Director	Medical Education
Dr. Saba Iqbal	Associate Director	Medical Education
Dr. Ijlal Zehra	Head	Assessment Cell
Dr. Javaid Shabkhez Rab	Coordinator	Medical Education
Dr. Salar Arsalan	Demonstrator	Medical Education
Dr. Huma Fatima	Demonstrator	Medical Education
Ms. Tamzeela	Co-Coordinator	Medical Education
Mr. Adeel	Head	Student Affairs
Prof. Dr. Saeed Afzal	Head	Pathology
Dr. Majid	Focal Person	Pathology
Prof. Dr. Asma Saeed	Head	Pharmacology
Dr. Azka	Focal Person	Pharmacology
Prof. Dr. Rana Akhtar	Head	Community Medicine
Dr. Usman Sheikh	Focal Person	Community Medicine
Prof. Dr. Zainab	Head	Forensic Medicine
Dr. Anwar	Focal Person	Forensic Medicine
Prof. Dr. Hassan Khan	Head	Surgery Unit-1
Prof. Dr. Khalid Nizami	Head	Surgery Unit-2
Dr. Sumaira	Focal Person	General Surgery
Prof. Dr. Muzammil	Head	Medicine Unit-1
Prof. Dr. Waheed Ahmed	Head	Medicine Unit-2
Dr. Usman	Focal Person	General Medicine
Dr. Usman	Focal Person	Psychiatry
Dr. Usman	Focal Person	Family Medicine
Dr. Farhat	Head	Behavioural Sciences
Dr. Uzma	Focal Person	Paediatrics

Curriculum Map

This pictorial, vertical and horizontal presentation of the course content and extent shows the sequence in which various systems are to be covered. Curricular map to cover all the subjects and modules and the time allocated to study of the systems for the undergraduate programs offered at four colleges at campus are as follows:



Timetable

		AVICENNA MEDICAL & DENTAL COLLEGE																				
TIME TABLE		M-22 3rd Year MBBS						Week-12														
DATE	DAY	SESSION 2024-2025						BLOCK # VIII														
DATE	DAY	8.00-9.00		9.00-10.00		10.00-11.00		11.00-12.00		12.00-12.30		12.30-3.30										
2-Jun	MON	LECTURE PATHOLOGY LECTURE HALL3		LECTURE SURGERY LECTURE HALL3		LECTURE PATHOLOGY LECTURE HALL3		TUTORIAL IN 3 BATCHES		BREAK	CFRC CLINICAL ROTATION PRACTICAL											
		8.00-9.00		9.00-10.00		10.00-10.30		10.30-11.30		11.30-12.30		12.30-3.30										
3-Jun	TUE	LECTURE PHARMACOLOGY LECTURE HALL3		LECTURE PATHOLOGY LECTURE HALL3		BREAK		LECTURE MEDICINE LECTURE HALL3		LECTURE BEH.SCIENCE LECTURE HALL 3		CFRC CLINICAL ROTATION PRACTICAL										
		8.00-9.00		9.00-10.00		10.00-11.00		11.00-12.00		12.00-12.30		12.30-3.30										
4-Jun	WED	LECTURE PHARMACOLOGY LECTURE HALL3		LECTURE PATHOLOGY LECTURE HALL3		LECTURE FOR.MEDICINE LECTURE HALL3		TUTORIAL IN 3 BATCHES		BREAK	CFRC CLINICAL ROTATION PRACTICAL											
		8.00-9.00		9.00-10.00		10.00-11.00		11.00-12.00			12.30-1.30		1.30-3.30									
5-Jun	THU	LECTURE PATHOLOGY LECTURE HALL3		LECTURE FOR.MEDICINE LECTURE HALL3		LECTURE PATHOLOGY LECTURE HALL3		LECTURE PHARMACOLOGY LECTURE HALL3			LECTURE PERLs LECTURE HALL3		TUTORIAL IN 3 BATCHES									
6-Jun	FRI	Eid- UI- Adha Holidays - 6th June - 9th June,2025																				
Prepared by DME																						



AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE		M-22	SESSION 2024-2025						Week-13						
DATE	DAY	3rd Year MBBS							BLOCK # VIII						
DATE	DAY														
9-Jun	MON	Eid- UI- Adha- 6th June - 9th June,2025													
		8.00-9.00	9.00-10.00	10.00-10.30	10.30-11.30	11:30.12.30	12.30-1.30	1.30-3.30							
10-Jun	TUE	LECTURE PHARMACOLOGY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	BREAK	LECTURE BIOCHEMISTRY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	TUTORIAL IN 3 BATCHES	CFRC CLINICAL ROTATION PRACTICAL							
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-12.30	12.30-1.30	1.30-3.30							
11-Jun	WED	LECTURE PHARMACOLOGY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	LECTURE FOR.MEDICINE LECTURE HALL3	LECTURE PAEDS LECTURE HALL3	BREAK	TUTORIAL IN 3 BATCHES	CFRC CLINICAL ROTATION PRACTICAL							
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00		12.30-1.30	1.30-3.30							
12-Jun	THU	LECTURE PATHOLOGY LECTURE HALL3	LECTURE MEDICINE LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	LECTURE PHARMACOLOGY LECTURE HALL3	BREAK	TUTORIAL IN 3 BATCHES	CFRC CLINICAL ROTATION PRACTICAL							
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00		12.30-1.30	1.30-3.30							
13-Jun	FRI	LECTURE FOR.MEDICINE LECTURE HALL3	LECTURE SURGERY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	LECTURE PERLs LECTURE HALL3	LECTURE PATIENT SAFETY LECTURE HALL3	JUMMA BREAK	SDL							
Prepared by DME															



AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE		M-22 3rd Year MBBS	SESSION 2024-2025						Week-14	
DATE	DAY								BLOCK # VIII	
									MODULE - 16	
16-Jun	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00		12.00-12.30	12.30-1.30	1.30-3.30	
		LECTURE PATHOLOGY LECTURE HALL3	LECTURE SURGERY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	LECTURE PERLs LECTURE HALL3		BREAK	TUTORIAL IN 3 BATCHES	CFRC CLINICAL ROTATION PRACTICAL	
		8.00-10.00		10.00-10.30	10.30-12.30			12.30-1.30	1.30-3.30	
17-Jun	TUE	GRAND TEST PATHOLOGY EXAMINATION HALL		BREAK	OSPE/VIVA			TUTORIAL IN 3 BATCHES	CFRC CLINICAL ROTATION PRACTICAL	
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00		12.00-12.30	12.30-3.30		
18-Jun	WED	LECTURE PHARMACOLOGY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	LECTURE FOR.MEDICINE LECTURE HALL3	LECTURE PERLs LECTURE HALL3		BREAK	CFRC CLINICAL ROTATION PRACTICAL		
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00			12.30-1.30	1.30-3.30	
		LECTURE PATHOLOGY LECTURE HALL3	LECTURE RADIOLOGY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	LECTURE PHARMACOLOGY LECTURE HALL3			LECTURE GYNAE LECTURE HALL3	TUTORIAL IN 3 BATCHES	
19-Jun	THU	8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00		BREAK	12.30-1.30	1.30-3.30	
		LECTURE PATHOLOGY LECTURE HALL3	LECTURE RADIOLOGY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	LECTURE PHARMACOLOGY LECTURE HALL3			LECTURE HALL3	TUTORIAL IN 3 BATCHES	
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00			12.00-1.00	1.00-2.00	
20-Jun	FRI	LECTURE FOR.MEDICINE LECTURE HALL3	LECTURE PHARMACOLOGY LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3	LECTURE PERLs LECTURE HALL3		LECTURE PATIENT SAFETY LECTURE HALL3	JUMMA BREAK	SDL	

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AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE		M-22	SESSION 2024-2025						Week-15	
DATE	DAY	3rd Year MBBS							BLOCK # VIII	
									MODULE - 16	
DATE	DAY	8.00-9.00		9.00-10.00		10.00-11.00		11.00-12.00		12.00-12.30
										12.30-1.30
23-Jun	MON	LECTURE PATHOLOGY LECTURE HALL3		LECTURE FOR.MEDICINE LECTURE HALL3	LECTURE PATHOLOGY LECTURE HALL3		LECTURE PERLs LECTURE HALL3	BREAK	TUTORIAL IN 3 BATCHES CFRC CLINICAL ROTATION PRACTICAL	
24-Jun	TUE	8.00-10.00 GRAND TEST FORENSIC MEDICINE <u>EXAMINATION HALL</u>				10.00-10.30 BREAK	10.30-12.30 OSPE/VIVA			12.30-3.30 CFRC CLINICAL ROTATION PRACTICAL
25-Jun	WED	8.00-9.00 LECTURE PHARMACOLOGY LECTURE HALL3		9.00-10.00 LECTURE PATHOLOGY LECTURE HALL3	10.00-11.00 LECTURE COMMUNITY MEDICINE LECTURE HALL3		11.00-12.00 TUTORIAL IN 3 BATCHES	12.00-12.30 CFRC CLINICAL ROTATION PRACTICAL		12.30-3.30
26-Jun	THU	8.00-9.00 LECTURE PATHOLOGY LECTURE HALL3		9.00-10.00 LECTURE MEDICINE LECTURE HALL3	10.00-11.00 LECTURE PATHOLOGY LECTURE HALL3		11.00-12.00 LECTURE PHARMACOLOGY LECTURE HALL3	BREAK	12.30-1.30 LECTURE SURGERY LECTURE HALL3 TUTORIAL IN 3 BATCHES 1.30-3.30	
27-Jun	FRI	8.00-9.00 LECTURE FOR.MEDICINE LECTURE HALL3		9.00-10.00 LECTURE PHARMACOLOGY LECTURE HALL3	10.00-11.00 LECTURE PATHOLOGY LECTURE HALL3		11.00-12.00 LECTURE PERLs LECTURE HALL3	12.00-1.00 LECTURE PATIENT SAFETY LECTURE HALL3		1.00-2.00 JUMMA BREAK SDL 2.00-3.30

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Allocation of Hours

week#	Pharmacology	Pathology	For.Medicine	Com.Medicine	Beh. Science	Surgery	Medicine	Paeds	Gynae	Bio	Phy	PERLs	Patient Safety	Clinical Rotation/Practical	Tutorial	Assessment	SDL
Week-1	5	6	3	1	1	1	1					1	1	7	6		4
Week-2	5	6	2	1		1	1			1	1	1	1	7	6		4
Week-3																	
Week-4	5	5	2	1	1	1				1	1	2	1	7	6		4
Week-5	4	5	2	1			1			1		1	1	7	6	4	4
Week-6	5	5	2	1			1					2	1	7	5	4	4
Week-7	4	3	2	1						1		1		7	3.5	4	3
Week-8	5	5	2	1		1				1		1		7	6	4	4
Week-9	5	5	2	1		1								7	6	4	4
Week-10	5	5	2			1						1		7	6	4	4
Week-11	4	4	2									1	1	5	5.5	7	4
Week-12	3	6	2		1	1	1					1		7	4		4
Week-13	3	6	2			1	1	1		1			1	5	4.5		3
Week-14	3	6	2			1	1	1				1	1	7	6	4	4
Week-15	3	6	2	1		1	1					1	1	7	6	4	4
Week-16	3	6	2	1			1					1	1	7	6	4	4
Week-17	2	6	2	1		1	1	1				1	1	7	6	4	4
Week-18	2	6	2			1	1		1			1	1	7	6	4	4
Week-19																	
Week-20																	
Week-21																	
Week-22																	
Week-23	2	7	2			3	2					1	1	7	7		4
Week-24	2	6	2			2	2					1	1	7	6	4	4
Week-25	2	5	2			1	1							7	4	4	4
Week-26	2	6	2			2	2					1	1	7	6	4	4
Week-27	1	2	1	2	1	2	2					1	1		5.5	7	3
Week-28	1	2	1	2		1	1				2	1	7	7		4	
Week-29	2	2	1	2			2					1		7	5.5	4	4
Week-30	1	2	1	3	1		1					1		7	5.5	4	4
Week-31	2	2	1	2		1	1					1		7	5.5	4	4
Week-32	2	2	2	3								1		7	5.5	4	4
Week-33	1	2	2	3		1						1		7	5.5	4	4
Week-34	2	2	2	2		1	2					2	1	7	7	4	4
Week-35	2	2	2	3		1	2					1	1	7	7	4	4
Week-36	2	2	2	2		2	3					1	1	7	7	4	4
Week-37	2	2	2	3		1	2					1	1	7	7	4	4
Week-38	2	2	2	2		1	2					2	1	7	7	4	4
Week-39	2	2	2			1	3					3		7	7	4	4
Week-40														2.5	1	7	2
Total Hours	96	141	64	40	5	32	39	2	2	6	2	36	24	229.5	200.5	121	135

Modular Outcomes

Module Name	Modular Outcomes
Block 8 Module 16 Neoplasia	<ul style="list-style-type: none">Understand the basic concept of neoplasia, including benign and malignant tumors.Describe the molecular and cellular mechanisms of carcinogenesis, including the role of genetic mutations, oncogenes, tumor suppressor genes, and environmental factorsUnderstand the classification of tumors based on histology, site of origin, and grading/staging systems (TNM classification).Explain the biological mechanisms of tumor growth, invasion, angiogenesis, and metastasisExplain the role of the immune system in tumor recognition and immune evasion mechanisms by cancer cells.Understand the general principles of cancer treatment, including surgery, chemotherapy, radiotherapy, immunotherapy, and targeted therapy.Understand how to utilize diagnostic tools, such as imaging and pathology (biopsy), to identify and assess neoplasms.Communicate effectively with patients and families about cancer diagnosis, treatment

Learning Objectives

Week No.	Total Hours	Mode of Teaching	Code	Learning Objective	Topic	Reference	Facilitator
Week:12	PHARMACOLOGY						
Week:12	1	Lecture	ID-Ph002	<p>Briefly describe the signs, symptoms, diagnosis of tuberculosis. Classify antituberculosis drugs into 1st line and 2nd line agents with examples.</p> <p>Describe standard protocols (WHO recommendation) for management of newly diagnosed pulmonary tuberculosis, multidrug-resistant tuberculosis, latent tuberculosis. Delineate the characteristic pharmacodynamics and pharmacokinetic properties of Rifampin, Isoniazid, Ethambutol and Pyrazinamide.</p>	Protein Synthesis Inhibitors	Katzung edition 16	Dr. Asma Saeed
Week:12	2	Lecture	ID-Ph002	<p>Explain standard protocols (WHO recommendation) for management of leprosy.</p> <p>Describe the characteristic properties of dapsone and clofazimine with their adverse effects.</p>	Leprosy	Katzung edition 16	Dr. Asma Saeed

Week:12	3	Lecture	ID-Ph003	<p>Classify Antiprotozoal Drugs. Discuss the classification of Antimalarial agents. Describe the mechanism of action of Antimalarial agents. Describe the mechanism of resistance of Antimalarial agents. Discuss the clinical uses of Antimalarial agents. Describe the adverse effects and toxicities of Antimalarial agents.</p>	Antiprotozoal Drugs	Katzung edition 16	Dr. Azka Khan
Week:12	4	Tutorial	ID-Ph003	<p>Briefly describe the signs, symptoms, diagnosis of tuberculosis. Classify antituberculosis drugs into 1st line and line agents with examples. Describe standard protocols (WHO recommendation) for management of newly diagnosed pulmonary tuberculosis, multidrug-resistant tuberculosis, latent tuberculosis.</p>	Antituberculosis Therapy (ATT)	Katzung edition 16	demonstrators
PATHOLOGY							
Week:12	5	Lecture	N-Pa-007	Define and describe Paraneoplastic syndrome and associate with neoplastic lesions.	Paraneoplastic syndrome	ROBBINS PATHOLOGY 10TH EDITION CHAPTER 7	DR SAEED
Week:12	6	Lecture	ID-Pa-1	Streptococci	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:12	7	Lecture	ID-Pa-1	Streptococci	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID

Week:12	8	Lecture	ID-Pa-1	Streptococci	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:12	9	Lecture	ID-Pa-2	Giardia, entamoeba	Parasitic infectious agents	LEVINSON 18TH EDITION	DR NAEEM
Week:12	10	Lecture	ID-Pa-2	plasmodium	Parasitic infectious agents	LEVINSON 18TH EDITION	DR NAEEM
Week:12	11	Tutorial	ID-Pa-1	Streptococci	Bacterial infectious agents	LEVINSON 18TH EDITION	Demonstrators
Week:12	12	Tutorial	ID-Pa-1	Streptococci	Bacterial infectious agents	LEVINSON 18TH EDITION	Demonstrators
Week:12	FOR.MEDICINE						
Week:12	13	Lecture	For2-Tr-015 For2-Tr-016	To explain the factors affecting the trajectory of bullet after its exit from the muzzle end Interpret wound complex produced by a rifled and nonrifled weapons at different ranges. Calculate the distance of fire from the wound examination. Differentiate between entry and exit wounds of fire arms. Explain medicolegal importance of fire arm injuries.	External Ballistics Terminal Ballistics	Parikh 7th Ed. Chapter 17	Dr. Anwar

Week:12	14	Lecture	For2-Tr-016	Interpret wound complex produced by a rifled and nonrifled weapons at different ranges. Calculate the distance of fire from the wound examination. Differentiate between entry and exit wounds of fire arms. Explain medicolegal importance of fire arm injuries.	Terminal Ballistics	Parikh 7th Ed. Chapter 18	Dr. Anwar
Week:12	15	Tutorial	For2-Tr-029	Differentiate between a lacerated and incised wound on naked eye examination	Wound	NRA 1st Ed. Ch.6	Demonstrators
Week:12	PERLs						
Week:12	16	Lecture	Conflict of interest, Dealing with Pharmaceuticals		Lecture Presentation		Dr. Javaid
Week:12	SURGERY						
Week:12	17	Lecture	MS2-Orth007	Define genetic conditions: Achondroplasia and Marfan's Syndrome. Genetic Conditions in Orthopedics Describe clinical features of Achondroplasia. Explain management of Marfan's Syndrome	Genetic Conditions in Orthopedics	B & L	Dr.Shahzeena
Week:12	Beh.Sciences						
Week:12	18	Lecture	GPhBhS-001	Describe common ethical dilemmas in drug trials & pharmaceutical industry	Ethical dilemmas		Dr. Farhat
Week:12	Medicine						

Week:12	19	Lecture	ID-Pa009	Define pyrexia of unknown origin. Describe the investigations of a patient with pyrexia of unknown origin. Summarize the treatment plan of a patient with pyrexia of unknown origin.	Pyrexia of unknown origin	Dr.Asad	
Week:12	SDL						
Week:12	20	Self Directed Learning					
Week:12	21	Self Directed Learning					
Week:12	22	Self Directed Learning					
Week:12	23	Self Directed Learning					
Week:12	CLINICAL ROTATION / PRACTICAL						
Week:12	24	PRACTICAL	For2-Tr-032	Demonstrate appropriate examination of an injured person and issue the report in a simulated/supervised environment correctly	Certification of injury	Practical copy	Demonstrators
Week:12	25	PRACTICAL	For2-Tr-032	Demonstrate appropriate examination of an injured person and issue the report in a simulated/supervised environment correctly	Certification of injury	Practical copy	Demonstrators
Week:12	26	PRACTICAL	N-Pa-008	Morphological features of Benign and Malignant tumours (Gross and Microscopic features)	Nomenclature, Difference between benign and malignant tumours	Practical copy	Demonstrators

Week:12	27	PRACTICAL	N-Pa-008	Morphological features of Benign and Malignant tumours (Gross and Microscopic features)	Nomenclature, Difference between benign and malignant tumours	Practical copy	Demonstrators				
Week:12	28	CLINICAL ROTATION	Ability to calculate and adjust dosages for common medications based on patient factors.		Log Book		Medical Faculty				
Week:12	29	CLINICAL ROTATION	Ability to calculate and adjust dosages for common medications based on patient factors.		Log Book		Medical Faculty				
Week:12	30	CLINICAL ROTATION	Ability to calculate and adjust dosages for common medications based on patient factors.		Log Book		Medical Faculty				
Week:12	Holidays										
Week:12	31	Eid- Ul- Adha- 6th June - 9th June,2025									
Week:12	32	Eid- Ul- Adha- 6th June - 9th June,2025									
Week:12	33	Eid- Ul- Adha- 6th June - 9th June,2025									
Week:12	34	Eid- Ul- Adha- 6th June - 9th June,2025									
Week:12	35	Eid- Ul- Adha- 6th June - 9th June,2025									
Week:12	36	Eid- Ul- Adha- 6th June - 9th June,2025									
Week:12	37	Eid- Ul- Adha- 6th June - 9th June,2025									

Week No.	Total Hours	Mode of Teaching	Code	Learning Objective	Topic	Reference	Facilator
Week:13	PHARMACOLOGY						
Week:13	1	Lecture	ID-Ph003	<p>Discuss the main characteristics of antiprotozoal drugs used in amoebiasis & giardiasis including mechanism of action, pharmacokinetics, clinical uses and adverse effects.</p> <p>Discuss the main characteristics of antiprotozoal drugs used in treatment of Leishmaniasis.</p> <p>Discuss the main characteristics of antiprotozoal drugs used in treatment of Trypanosomiasis.</p>	Antiprotozoal Drugs	Katzung edition 16	Dr. Azka Khan

Week:13	2	Lecture	ID-Ph004	<p>Classify anti-helminthic drugs.</p> <p>Discuss drugs used for the treatment of Nematodes. Explain mechanisms of action, clinical uses, adverse effects of Mebendazole, Pyrantel pamoate, Piperazine, Diethylcarbamazine & Ivermectin. Discuss drugs used for the treatment for Tape worm (cestodes) infection.</p> <p>Explain mechanisms of action, clinical uses, and adverse effects of drugs used in cestodes infections. Distinguish the drugs used for the treatment of Cestodes infection based on their characteristics and therapeutic uses.</p>	Anti-Helminthic Drugs	Katzung edition 16	Dr. Asma Saeed
Week:13	3	Lecture	ID-Ph005	<p>Classify antifungal drugs.</p> <p>Discuss drugs used for systemic mycotic infections.</p> <p>Discuss mechanisms of action & resistance, pharmacokinetics, clinical uses, adverse effects of Amphotericin B.</p> <p>Explain the mechanism of action, uses and adverse effects of flucytosine.</p> <p>Classify Azole antifungal drugs</p> <p>Discuss mechanism of action, resistance, antifungal spectrum, pharmacokinetics, clinical uses, adverse effects and drug interactions of</p>	Anti Fungal drugs	Katzung edition 16	Dr. Asma Saeed

Week:13	4	Tutorial	ID-Ph003	<p>Delineate the characteristic pharmacodynamics and pharmacokinetic properties of Rifampin, Isoniazid, Ethambutol and Pyrazinamide.</p> <p>Discuss the adverse effects of 1st line antituberculosis drugs.</p> <p>Describe how to monitor patients during antituberculosis drug therapy.</p> <p>Discuss 2nd line drugs used in treatment of Multidrug resistant tuberculosis with their therapeutic and adverse effects.</p>	Antituberculosis Therapy (ATT)	Katzung edition 16	demonstrators
PATHOLOGY							
Week:13	5	Lecture	ID-Pa-1	Clostridia	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:13	6	Lecture	ID-Pa-1	Bacillus	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:13	7	Lecture	ID-Pa-1	Corynebacterium, Listeria and Gardenella	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:13	8	Lecture	ID-Pa-1	Gonococci	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:13	9	Lecture	ID-Pa-2	Leishmania, toxoplasma, trypanosomes, naegleria.	Parasitic infectious agents	LEVINSON 18TH EDITION	DR NAEEM
Week:13	10	Lecture	ID-Pa-2	Tenia saginata, tenia solium, echinococcus granulosus, D. latum, H. nana	Parasitic infectious agents	LEVINSON 18TH EDITION	DR NAEEM

Week:13	11	Tutorial	ID-Pa-1	Corynebacterium, Listeria and Gardenella	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATORS
Week:13	FOR.MEDICINE						
Week:13	12	Lecture	For2-Tr-017 For2-Tr-018	Identify gun powders and ammunition used through different methods Describe mechanics of blast injuries. Explain effects of blast injuries on human body. Describe medicolegal aspects of blast injuries	Gun powders Blast injuries	Parikh 7th Ed. Chapter 17	Dr. Anwar
Week:14	13	Lecture	For2-Tr-008 For2-Tr-009	Describe the pathophysiology of injuries. Explain effects of injuries on the body Elaborate different methods (naked eye examination, microscopic examination, histochemical and biochemical methods) for determination of age of wound. Describe different methods (naked eye examination, microscopic examination, histochemical and biochemical methods of determination of ante mortem/post mortem nature (vital reaction) of a wound.	Pathophysiology of injuries Timing of injury/ante mortem, postmortem nature of wound	Parikh 7th Ed. Chapter 18	Dr. Zainab
Week:13	14	Tutorial	For2-Tr-031	Identify hurt and apply relevant section of Qisas and Diyat Act for: , i. Itlaf-udw ii. Itlaf -slahiat-udw iii. Shajja, iv. Jurh	Hurt / Qisas N Diyat Act	NRA 1st Ed. Ch.4	Demonstrators
Week:13	Patient Safety						
Week:13	15	Lecture	F2-PS-002	Students should understand the relationship between human factors and patient safety	What is patient safety	Dr. Usman	

Week:13	16	Lecture	F2-PS-001	Explain why patient safety is a critical concern in healthcare and how it impacts the quality of patient care.	Applying human factors is important for patient safety	Dr. Usman
Week:13	Paeds					
Week:13	17	Lecture	Re2-M002	Enumerate risk factors for asthma. Describe clinical features of acute and chronic bronchial asthma. Classify asthma symptoms according to GINA Guidelines. Outline management of childhood Asthma	Childhood asthma	Dr. Uzma
Week:13	BIOCHEMISTRY					
Week:13	18	Lecture	For-Th002	Enlist late changes after death Explain the process of putrefaction.	Postmortem changes	Dr. Yusra
Week:13	SURGERY					
Week:13	19	Lecture	MS2-Orth008	Define Marfan's Syndrome and its genetic basis. Discuss management strategies for Marfan's Syndrome.	Bone and Joint Disorders	B & L
Week:13	Medicine					
Week:13	20	Lecture	ID-Pa013	Discuss the signs, symptoms, diagnosis and treatment of septic, aseptic, encephalitis meningitis.	CNS	Dr. Humaira
Week:13	SDL					
Week:13	21	Self Directed Learning				

Week:13	22	Self Directed Learning					
Week:13	23	Self Directed Learning					
Week:13	CLINICAL ROTATION / PRACTICAL						
Week:13	24	PRACTICAL	For2-Tr-032	Demonstrate appropriate examination of an injured person and issue the report in a simulated/supervised environment correctly	Certification of injury	Practical book	Demonstrators
Week:13	25	PRACTICAL	For2-Tr-032	Demonstrate appropriate examination of an injured person and issue the report in a simulated/supervised environment correctly	Certification of injury	Practical book	Demonstrators
Week:13	26	CLINICAL ROTATION	MS2-Orth 017	Elicit signs and symptoms of patient with fracture in history	Rheumatology	Log Book	Medical Faculty
Week:13	27	CLINICAL ROTATION	MS2-Rh 012	Elicit signs and symptoms of patient with fracture in history	Rheumatology	Log Book	Medical Faculty
Week:13	28	CLINICAL ROTATION	MS2-Orth 017	Elicit the signs and symptoms of patient with osteoporosis	Orthopedics History taking	Log Book	Medical Faculty
Week:13	WHOLE CLASS TUTORIAL (Pathology)						
Week:13	29	Tutorial	ID-Pa-1	Corynebacterium, Listeria and Gardenella	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATORS
Week:13	30	Tutorial	ID-Pa-1	Corynebacterium, Listeria and Gardenella	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATORS

Week:13	HOLIDAYS	
Week:13	31	Eid- Ul- Adha Holidays- 6th June - 9th June,2025
Week:13	32	Eid- Ul- Adha Holidays- 6th June - 9th June,2025
Week:13	33	Eid- Ul- Adha Holidays- 6th June - 9th June,2025
Week:13	34	Eid- Ul- Adha Holidays- 6th June - 9th June,2025
Week:13	35	Eid- Ul- Adha Holidays- 6th June - 9th June,2026
Week:13	36	Eid- Ul- Adha Holidays- 6th June - 9th June,2027
Week:13	37	Eid- Ul- Adha Holidays- 6th June - 9th June,2028

Week No.	Total Hours	Mode of Teaching	Code	Learning Objective	Topic	Reference	Facilitator
Week:14				PHARMACOLOGY			

Week:14	1	Lecture	ID-Ph005	<p>Discuss the drugs used for mucocutaneous mycotic infections. Discuss mechanism of action, resistance, antifungal spectrum, pharmacokinetics, clinical uses, adverse effects and drug interactions of Griseofulvin, and Terbinafine. Discuss the drugs used for cutaneous mycotic infections / Topical agents.</p> <p>Discuss mechanism of action, resistance, antifungal spectrum, pharmacokinetics, clinical uses, adverse effects of drugs used in cutaneous mycotic infections.</p>	Antifungal Drugs Classification	Katzung edition 16	Dr. Asma Saeed
Week:14	2	Lecture	ID-Ph006	<p>Discuss the main steps of viral replication that are targets for antiviral drugs.</p> <p>Describe drugs used in treatment of herpes simplex and varicella zoster virus infection with their properties.</p> <p>Explain the mechanism of action, pharmacodynamics and adverse effects of acyclovir, valacyclovir and famciclovir.</p> <p>Explain the mechanism of action, pharmacodynamics and adverse effects of agents used in cytomegalovirus infection.</p> <p>Classify antiretroviral agents.</p>	Antiviral Agents	Katzung edition 16	Dr. Azka Khan
Week:14	3	Lecture	ID-Ph007	Classify antiretroviral agents.	Antiviral Agents	Katzung edition 16	Dr. Asma Saeed

Week:14	4	Tutorial	ID-Ph007	<p>Classify antifungal drugs.</p> <p>Antifungal Drugs Classification</p> <p>Discuss drugs used for systemic mycotic infections. Discuss mechanisms of action & resistance, pharmacokinetics, clinical uses, adverse effects of Amphotericin B. Explain the mechanism of action, uses and adverse effects of flucytosine. Classify Azole antifungal drugs.</p> <p>Discuss mechanism of action, resistance, antifungal spectrum, pharmacokinetics, clinical uses, adverse effects and drug interactions of Azole antifungal drugs</p>	Antifungal Drugs Classification	Katzung edition 16	demonstrators
PATHOLOGY							
Week:14	5	Lecture	ID-Pa-1	meningococci	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:14	6	Lecture	ID-Pa-1	E. coli	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:14	7	Lecture	ID-Pa-1	salmonella	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:14	8	Lecture	ID-Pa-1	shigella	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:14	9	Lecture	ID-Pa-2	Tenia saginata, tenia solium, echinococcus granulosus, D. latum, H. nana	Parasitic infectious agents	LEVINSON 18TH EDITION	DR NAEEM
Week:14	10	Lecture	ID-Pa-2	Tenia saginata, tenia solium, echinococcus granulosus, D. latum, H. nana	Parasitic infectious agents	LEVINSON 18TH EDITION	DR NAEEM

Week:14	11	Tutorial	ID-Pa-1	salmonella	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATORS
Week:14	FOR.MEDICINE						
Week:14	12	Lecture	For2-Tr-010 For2-Tr-012 For2-Tr-013	<p>Link Sequelae of trauma to its original cause and search for the relationship of sequelae to pre-existing disease Define torture.</p> <p>Explain reasons, types and complications of torture. Describe medicolegal aspects of torture</p> <p>Examine and prepare Medico-legal report of an injured person with different etiologies in a simulated/supervised environment</p>	<p>Ewing's postulates</p> <p>Torture</p> <p>Medicolegal Certification of injury</p>	<p>Parikh 7th Ed. Ch. 19</p>	Dr. Zainab
Week:14	13	Lecture	For2-Tr-019	<p>Explain mechanism of injuries to soft and bony tissues of head, neck, chest, abdomen and limbs.</p> <p>Describe effects of injuries to head, neck, chest, abdomen and limbs. Describe medicolegal aspects of regional injuries</p>	<p>Regional Injuries</p>	<p>Parikh 7th Ed. Ch. 20</p>	Dr. Zainab
Week:14	14	Tutorial	For2-Tr-033	<p>Identify different types of fire arm weapons</p> <p>Identify different parts of fire arm weapons</p> <p>Identify different parts of ammunition</p> <p>Determine the type of fire arm weapon from the examination of fire arm wound complex.</p> <p>Calculate the firing range of the weapon from appearance of wound.</p> <p>Identify characteristics of entry and exit fire arm wounds</p>	<p>Firearms</p>	<p>Parikh 7th Ed. Ch. 17</p>	Demonstrators
Week:14	PERLs						

Week:14	16	Lecture	Human Rights & Malpractice			Lecture Presentation	Dr. Javaid
Week:14	Gynae						
Week:14	17	Lecture	ID-GO-001	<p>Understand the importance of STI in gynae Describe the testing, diagnosis and transmission of common STIs and blood borne viruses. Understand and support is neede for patients to enable them to undertake screening. Learn how to take sexual history</p>		Clinical presentation and treatment of PID	Dr Amna Aslam
Week:14	Radiology						
Week:14	18	Lecture	MS2-Orth020	<p>Demonstrate clinical skills in assessing and managing fractures in various locations, including the use of appropriate imaging studies</p>		Fractures	Dr. Saba
Week:14	Patient Safety						
Week:14	19	Lecture	GPh-PS 001	<p>Understanding of the terms error, slip, lapse, mistake, violation, near miss and hindsight bias</p>		learning from errors to prevent harm	practical copy demonstrator
Week:14	SURGERY						
Week:14	20	Lecture	MS2-Orth009	<p>Define ATLS and describe its relevance in trauma management.</p>		Introduction to Surgical Traumatology	B & L Dr. Amina
Week:14	SDL						

Week:14	21	Self Directed Learning					
Week:14	22	Self Directed Learning					
Week:14	23	Self Directed Learning					
Week:14	24	Self Directed Learning					
Week:14	CLINICAL ROTATION / PRACTICAL						
Week:14	25	PRACTICAL	For2-Tr-032	Demonstrate appropriate examination of an injured person and issue the report in a simulated/supervised environment correctly	Certification of injury	Practical Copy	Demonstrators
Week:14	26	PRACTICAL	For2-Tr-032	Demonstrate appropriate examination of an injured person and issue the report in a simulated/supervised environment correctly	Certification of injury	Practical Copy	Demonstrators
Week:14	27	PRACTICAL	N-Pa-008	Common Benign tumours (Lipoma, Leiomyoma, Fibroadenoma of Breast) Carcinoma in situ (DCIS & Bowens disease)	Nomenclature, Difference between benign and malignant tumours	Practical Copy	Demonstrators
Week:14	28	PRACTICAL	N-Pa-008	Common Benign tumours (Lipoma, Leiomyoma, Fibroadenoma of Breast) Carcinoma in situ (DCIS & Bowens disease)	Nomenclature, Difference between benign and malignant tumours	Practical Copy	Demonstrators
Week:14	29	CLINICAL ROTATION	CFRC3-007+008	Perform proper hand hygiene, aseptic techniques, and basic infection control protocols+Demonstrate appropriate use of PPE and understand its importance in preventing healthcare-associated infections.			Log Book
							Medical Faculty

Week:14	30	CLINICAL ROTATION	CFRC3-007+008	Perform proper hand hygiene, aseptic techniques, and basic infection control protocols+Demonstrate appropriate use of PPE and understand its importance in preventing healthcare-associated infections.	Log Book	Medical Faculty	
Week:14	31	CLINICAL ROTATION	CFRC3-007+008	Perform proper hand hygiene, aseptic techniques, and basic infection control protocols+Demonstrate appropriate use of PPE and understand its importance in preventing healthcare-associated infections.	Log Book	Medical Faculty	
Week:14	ASSESSMENT						
Week:14	32	GRAND TEST					
Week:14	33	GRAND TEST					
Week:14	34	OSPE/VIVA					
Week:14	35	OSPE/VIVA					
Week:14	WHOLE CLASS TUTORIAL (Pathology)						
Week:14	36	Tutorial	ID-Pa-1	salmonella	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATORS
Week:14	37	Tutorial	ID-Pa-1	salmonella	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATORS

Week No.	Total Hours	Mode of Teaching	Code	Learning Objective	Topic	Reference	Facilitator
Week:15	PHARMACOLOGY						

Week:15	1	Lecture	ID-Ph007	Discuss mechanism of action, resistance, pharmacokinetics, clinical uses, adverse effects of NRTIs, NNRTIs, PIs, INSTIs, Fusion inhibitors, CCR5 coreceptor antagonist, CD4 post-attachment inhibitors.	Antifungal Drugs Classification	Katzung edition 16	Dr. Azka Khan
Week:15	2	Lecture	ID-Ph008	Demonstrate the standard protocol for treatment of hepatitis B and C. Describe pharmacodynamics and adverse effects of interferon, entacavir, tenofovir, ribavirin and others.	Antiviral Agents	Katzung edition 16	Dr. Asma Saeed
Week:15	3	Lecture	ID-Ph008	Describe the mechanism of action of drugs used in treatment of COVID-19 and influenza along with their adverse effects. Briefly discuss antiretroviral drug used in treatment of HIV AIDS. Describe the significant characteristics of the five groups of drugs used in HIV AIDS.	Antiviral Agents	Katzung edition 16	Dr. Asma Saeed
Week:15	4	Tutorial	ID-Ph008	Classify antiretroviral agents. Discuss mechanism of action, resistance, pharmacokinetics, clinical uses, adverse effects of NRTIs, NNRTIs, PIs, INSTIs, Fusion inhibitors, CCR5 coreceptor antagonist, CD4 post-attachment inhibitors. Demonstrate the standard protocol for treatment of hepatitis B and C. Describe pharmacodynamics and adverse effects of interferon, entacavir, tenofovir, ribavirin and others.	Antiviral Agents	Katzung edition 16	demonstrators
Week:15	PATHOLOGY						

Week:15	5	Lecture	ID-Pa-1	vibrio	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:15	6	Lecture	ID-Pa-1	proteus	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:15	7	Lecture	ID-Pa-1	Pseudomonas	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:15	8	Lecture	ID-Pa-1	H.pylori , campylobacter	Bacterial infectious agents	LEVINSON 18TH EDITION	DR MAJID
Week:15	9	Lecture	ID-Pa-2	W. bancrofti, D. medinensis, loa loa	Parasitic infectious agents	LEVINSON 18TH EDITION	DR NAEEM
Week:15	10	Lecture	ID-Pa-3	Explain the morphological, pathological and diagnostic aspects of; Dermatophytes, Malassezia furfur, Sporthrix,	Fungal Infections	LEVINSON 18TH EDITION	DR NAEEM
Week:15	11	Tutorial	ID-Pa-1	Pseudomonas	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATOR
Week:15	FOR.MEDICINE						
Week:15	12	Lecture	For2-Tr-019	Explain mechanism of injuries to soft and bony tissues of head, neck, chest, abdomen and limbs. Describe effects of injuries to head, neck, chest, abdomen and limbs. Describe medicolegal aspects of regional injuries	Regional Injuries	Parikh 7th Ed. Ch. 20	Dr. Zainab

Week:15	13	Lecture	For2-Tr-011	Give a detailed account of battered baby or Caffey syndrome from a medicolegal point of view. Diagnose a case of a battered baby on the basis of different injuries sustained by a battered baby	Battered baby syndrome	Parikh 7th Ed. Ch. 23	Dr. Ambreen
Week:15	14	Tutorial	For2-Tr-033	Identify different types of fire arm weapons Identify different parts of fire arm weapons Identify different parts of ammunition Determine the type of fire arm weapon from the examination of fire arm wound complex. Calculate the firing range of the weapon from appearance of wound. Identify characteristics of entry and exit fire arm wounds	Firearms	Parikh 7th Ed. Ch. 17	Demonstrators
PERLS							
Week:15	15	Lecture	Role Modelling/ Mentoring Session V		Lecture Presentation		Dr. Javaid
SURGERY							
Week:15	16	Lecture	MS2-Orth011	Understand ATLS guidelines in primary survey (ABCDE).	Primary Survey and ATLS	B & L	Dr. Faiq
COM.MEDICINE							
Week:15	17	Lecture	MS2-CM-001	Understand the epidemiology of rheumatic diseases. Discuss the public health burden of rheumatic diseases. Explain preventive measures for rheumatic diseases.	Epidemiology & Prevention of Rheumatic Disease	K.Park 23 rd Ed CH# 6 Pg 378	Usman / Dr Sana

Week:15	Patient Safety						
Week:15	18	Lecture	GPh-PS 002	Learn and practice ways to improve the safety of medication use.	Medication safety	Dr. Usman	
Week:15	MEDICINE						
Week:15	19	Lecture	ID-Ph010	Discuss the signs symptoms diagnosis and treatment of diarrhea and dysentery.	GIT infections	Dr. Salman	
Week:15	SDL						
Week:15	20	Self Directed Learning					
Week:15	21	Self Directed Learning					
Week:15	22	Self Directed Learning					
Week:15	23	Self Directed Learning					
Week:15	CLINICAL ROTATION / PRACTICAL						
Week:15	24	PRACTICAL	For2-Tr-032	Demonstrate appropriate examination of an injured person and issue the report in a simulated/supervised environment correctly	Certification of injury	Practical copy	Demonstrators
Week:15	25	PRACTICAL	For2-Tr-032	Demonstrate appropriate examination of an injured person and issue the report in a simulated/supervised environment correctly	Certification of injury	Practical copy	Demonstrators

Week:15	26	PRACTICAL	N-Pa-008	Common Malignant tumours (Adenocarcinoma, Squamous cell carcinoma)	Nomenclature, Difference between benign and malignant tumours	Practical copy	Demonstrators
Week:15	27	PRACTICAL	N-Pa-008	Common Malignant tumours (Adenocarcinoma, Squamous cell carcinoma)	Nomenclature, Difference between benign and malignant tumours	Practical copy	Demonstrators
Week:15	28	CLINICAL ROTATION	CFRC3-016	Interpret basic hematologic lab results, including CBC parameters (e.g., hemoglobin, WBC count, platelets).	Differential diagnosis	Practical copy	Demonstrators
Week:15	29	CLINICAL ROTATION	CFRC3-016	Interpret basic hematologic lab results, including CBC parameters (e.g., hemoglobin, WBC count, platelets).	Differential diagnosis	Practical copy	Demonstrators
Week:15	30	CLINICAL ROTATION	CFRC3-016	Interpret basic hematologic lab results, including CBC parameters (e.g., hemoglobin, WBC count, platelets).	Differential diagnosis	Practical copy	Demonstrators
Week:15	31	CLINICAL ROTATION	CFRC3-016	Interpret basic hematologic lab results, including CBC parameters (e.g., hemoglobin, WBC count, platelets).	Differential diagnosis	Practical copy	Demonstrators
Week:15	ASSESSMENT						
Week:15	32	GRAND TEST					
Week:15	33	GRAND TEST					
Week:15	34	OSPE/VIVA					
Week:15	35	OSPE/VIVA					

Week:15	WHOLE CLASS TUTORIAL (Pharmacology)						
Week:15	36	Tutorial	ID-Pa-1	Pseudomonas	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATOR
Week:15	37	Tutorial	ID-Pa-1	Pseudomonas	Bacterial infectious agents	LEVINSON 18TH EDITION	DEMONSTRATOR

Operational Definitions

Traditional & Innovative Teaching Methodologies

Sr.	Pedagogical Methodologies	Description
1.	Lectures	Traditional method where an instructor presents information to a large group of students (large group teaching). This approach focuses on delivering theoretical knowledge and foundational concepts. It is very effective for introducing new topics.
2.	Tutorial	Tutorials involve small group discussion (SGD) where students receive focused instruction and guidance on specific topics.
3	Demonstrations	Demonstrations are practical displays of techniques or procedures, often used to illustrate complex concepts or practices, particularly useful in dental education for showing clinical skills.
4	Practicals	Hands-on sessions where students apply theoretical knowledge to real-world tasks. This might include lab work, clinical procedures, or simulations. Practicals are crucial for developing technical skills and understanding the application of concepts in practice.
5.	Student Presentations	Students prepare and deliver presentations on assigned topics. This method enhances communication skills, encourages students to explore topic in-depth. It also provides opportunities for peer feedback and discussion.
6.	Assignment	Tasks given to students to complete outside of class. Assignments can include research papers, case studies, or practical reports. They are designed to reinforce learning, assess understanding, and develop critical thinking and problem-solving skills.
7.	Self-directed Learning	Students take initiative and responsibility for their own learning process. Students are encouraged to seek resources, set goals, and evaluate their progress. This is a learner-centered approach where students take the initiative to plan, execute, and assess their own learning activities. This method promotes independence, critical thinking, and lifelong learning skills.

8.	Flipped Classroom	In this model, students first engage with learning materials at home (e.g., through videos, readings) and then use class time for interactive activities, discussions, or problem-solving exercises. This approach aims to maximize in-class engagement and application of knowledge.
9.	Peer-Assisted Learning (PAL)	A collaborative learning approach where students help each other understand course material. PAL involves structured peer tutoring, study groups, or collaborative tasks. It enhances comprehension through teaching, reinforces learning, and builds teamwork skills.
10.	Team-based Learning (TBL)	A structured form of small group learning where students work in teams on application-based tasks and problems. Teams are responsible for achieving learning objectives through collaborative efforts, promoting accountability, and deeper understanding of the material.
11.	Problem-based Learning (PBL)	Students work on complex, real-world problems without predefined solutions. They research, discuss, and apply knowledge to develop solutions. PBL fosters critical thinking, problem-solving skills, and the ability to integrate knowledge from various disciplines.
12.	Academic Portfolios	A collection of student's work that showcases learning achievements, reflections, and progress over time. Portfolios include assignments, projects, and self-assessments. They provide a comprehensive view of student development, highlight strengths and areas for improvement, and support reflective learning (experiential learning)
13.	Seminar	A seminar is an academic or professional setting where individuals discuss, present, and explore specific topics, often with expert guidance

AVICENNA MEDICAL & DENTAL COLLEGE **DEPARTMENT OF MEDICAL EDUCATION**

Internal Assessment Policy

Introduction

This policy outlines the guidelines for internal assessment of students at Avicenna Medical and Dental College. Internal assessment plays a crucial role in evaluating a student's progress, understanding their strengths and weaknesses, and providing timely feedback. This policy aims to ensure fairness, consistency, and transparency in the internal assessment process.

Internal Assessment Components

The internal assessment for each course will be comprised of the following components:

1. Attendance

- Attendance will be recorded regularly and will contribute to the overall internal assessment score.
- Students are expected to maintain a minimum attendance of 75% to be eligible for internal assessment marks.

2. Continuous Assessment

- Continuous assessment will be based on regular assignments, quizzes, presentations, and other activities conducted throughout the semester.
- These assessments will evaluate students' understanding of the course material, their critical thinking skills, and their ability to apply knowledge to real-world scenarios.

3. Grand Test and Module Exams

- Grand tests and module exams will be conducted to assess students' comprehensive understanding of the course content.
- These exams will be designed to evaluate both theoretical knowledge and practical skills.

4. Attitude and Behavior

- Students' attitude towards learning, participation in class activities, and adherence to college rules and regulations will be assessed.
- This component will evaluate students' professionalism, teamwork skills, and ethical conduct.

5. Logbook and Portfolio

- Students will be required to maintain a logbook and portfolio to document their learning journey.
- The logbook will include reflections on lectures, tutorials, and practical sessions.
- The portfolio will showcase students' best work, including assignments, projects, and research papers.

Assessment Criteria and Weighting

The following table outlines the weighting of each component in the internal assessment:

Component	Marks	Percentage
Attendance	6	2%
Continuous Assessment	12	4%
Grand Test and Module Exams	30	10%
Attitude and Behavior	10	3%
Logbook and Portfolio	2	1%
Total	60	20%

Assessment Procedures

- Faculty Responsibility: Faculty members will be responsible for designing and administering the internal assessments in accordance with the course syllabus and this policy.
- Marking and Grading: Faculty members will mark and grade the assessments using a transparent and consistent marking scheme. Candidates shall be required to score at least 50% marks in the internal assessment in each subject to become eligible for admission to professional examinations.
- Feedback: Faculty members will provide timely and constructive feedback to students on their performance.
- Record-Keeping: Faculty members will maintain accurate records of all internal assessments, including marks and feedback.
- Moderation: Internal assessments will be moderated by the course coordinator or the head of the department to ensure fairness and consistency.

Appeal Process

Students who have concerns about their internal assessment marks may appeal to the concerned faculty member or the head of the department. The appeal process will be handled promptly and fairly.

The internal assessment policy is designed to promote student learning, assess their progress, and provide a fair and transparent evaluation system. Faculty members and students are expected to adhere to this policy to ensure the integrity of the internal assessment process.

Attendance Requirement & Internal Assessment Criteria

The institution follows the regulations for examinations of the UHS in letter and spirit. The students require **75% attendance** in all academic sessions and **50% passing marks** with internal assessments and send-up examinations to be eligible for the UHS Professional Examinations.

Assessment Guidelines

Assessment in medical & dental education is a critical component designed to ensure that medical & dental students acquire the necessary knowledge, skills, and competencies required for effective medical & dental practice.

Assessment drives learning! – George E. Millar

You will encounter a variety of assessment methods, each serving a specific purpose.

- Written examinations, including multiple-choice and essay questions, will test your grasp of theoretical concepts and subject matter.
- Practical assessments will require you to demonstrate your clinical skills and ability to apply knowledge in real-world scenarios.

- Clinical exams will evaluate your communication skills and reasoning abilities through case discussions and problem-solving exercises.
- Clinical skills and work-place based assessments will observe your hands-on proficiency and patient management capabilities.

At Avicenna Medical & Dental College, internal assessments are systematically conducted throughout each academic year of the MBBS program, as per the guidelines established by the University of Health Sciences (UHS). These assessments, overseen by the Assessment Cell, adhere to either the Annual Subject-Based System or the Integrated/Modular System, depending on the curriculum structure.

Notably, beginning with the 2024-25 academic year, the weightage of internal assessments will be increased from 10% to 20%. The UHS administers professional examinations independently, organizing them at designated neutral sites and appointing external examiners to ensure objectivity and fairness.

Internal Assessment Weightage	20%	100%
External Assessment Weightage	80%	

Assessment Schedule

Avicenna Medical & Dental College 3rd Year MBBS (M-22) Test Schedule Block-8							
Week	Date	Day	Subject	Test	Topic		
12th	3-Jun-25	Tue	All Subjects	Lecture	Lecture Time Divided		
13th	10-Jun-25	Tue	All Subjects	Lecture	Lecture Time Divided		
14th	17-Jun-25	Tue	Pathology	Grand Test	Neoplasia, Gram positive bacteria		
				OSPE+VIVA			
15th	24-Jun-25	Tue	For.Medicine	Grand Test	General Trauma and Firearm injuries		
				OSPE+VIVA			
16th	1-Jul-25	Tue	Pharmacology	Grand Test	Cell cycle specific and non-specific antitumor agents, cell wall inhibitors, protein synthesis inhibitors, ATT, Leprsy, antiprotozoal drugs, antihelminthic drugs, Anti-Fungal drugs, Antiviral Agents, DRUGS IN PUO, Drugs used in GIT Infections, respiratory tract infections, drugs used in STDs		
				OSPE+VIVA			
17th	8-Jul-25	Tue	Pathology	Grand Test	GNR-1, Parasitology, Mycology		
				OSPE+VIVA			
18th	15-Jul-25	Tue	For.Medicine	Grand Test	Regional Injuries, Accidents in home and environment, Road traffic accidents, Battered		
				OSPE+VIVA			
19th	Summer Vacations-20th July -17th Aug ,2025						
20th	Summer Vacations-20th July -17th Aug ,2025						
21st	Summer Vacations-20th July -17th Aug ,2025						
22nd	Summer Vacations-20th July -17th Aug ,2025						
23rd	19-Aug-25	Tue	All Subjects	Lecture	Lecture Time Divided		
24th	26-Aug-25	Tue	Surgery	Grand Test	All the covered topics		
				OSPE+VIVA			
24th	29-Aug-25	Fri	Pharmacology	Grand Test	MSK Drugs & Interventions, Pharmacologic Management in Rheumatology, sedative hypnotics		
				OSPE+VIVA			
25th	2-Sep-25	Tue	Medicine	Grand Test	All the covered topics		
				OSPE+VIVA			
26th	9-Sep-25	Tue	Pathology	Grand Test	GNR-2, Virology, MSK		
				OSPE+VIVA			
26th	12-Sep-25	Fri	Integrated	Module Exam:	Whole Syllabus		
				VIVA/OSPE			
27th	16-Sep-25	Tue	Integrated	Block-8 Exam	Whole Syllabus of Module- 16,17,18,19		
	17-Sep-25	Wed		OSPE+VIVA			
End Of Block-8							

Table of Specification

MBBS 3 rd Professional							
Block-8							
Subject	Written Exam			Oral/Practical/Clinical Exam			
	MCQ (1 mark)	SEQ (5 mark each)	Marks	OSPE /OSCE (8 marks each observed)	OSCE (10 marks each observed)	OSVE (14 marks each observed)	Marks
Pharmacology	12	02	22	03	-	01	38
Pathology	30	05	55	04	-	02	60
Family Medicine	-	-	-	-	-	-	-
Community Medicine	04	-	04	-	-	-	-
Surgery	15	01	20	01	-	-	08
Medicine	15	01	20	01	-	-	08
Forensic	10	01	15	01	-	-	08
Behavioral	02	-	02	-	-	-	-
Patient Safety	02	-	02	-	-	-	-
CFRC	-	-	-	01	-	-	08
PERLs + Expository	-	-	-	-	01	-	10
Total	90	10x5=50	140	11 stations x 08 = 88	01 stations x 10 = 10	03 stations x 14=42	140

YEAR-3

			Marks
A.	Block 7 (Foundation-II + Hematopoietic, Immunity & Implant + General Pharmacology + Forensic Medicine & Toxicology-I)		350
B.	Block 8 (Musculoskeletal & Locomotion-II + Infectious Diseases + Neoplasia + Forensic Medicine & Toxicology - II)		350
C.	Block 9 (Cardiovascular-II + Respiratory II + Community Medicine & Public Health + Family Medicine I + Forensic Medicine & Toxicology - III)		350
		Total	1050

Recommended Books & Reading Resources

Anatomy

Snell's Clinical Anatomy 10th ed.

Langman's Medical Embryology 12th ed

Medical Histology by Laiq Hussain Siddiqui 8th edition.

General Anatomy by Laiq Hussain Siddiqui 6th edition.

Biochemistry

Harpers illustrated Biochemistry (latest edition). Rodwell.V.W McGrawHill publishers.

Lippincott illustrated Review (latest edition). Kluwer.W.

Essentials of Medical Biochemistry vol 1&2 by Mushtaq Ahmed.

Pathology

Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pathologic basis of disease. WB Saunders.

Robbins and Cotran Pathological Basis of Disease. Kumar, V., Abbas, A. and Aster, J. Latest Edition

Richard Mitchell, Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pocket Companion to Pathologic basis of diseases, Saunder Harcourt.

Walter and Israel. General Pathology. Churchill Livingstone.

Robbins & Kumar, Medical Microbiology and Immunology Levinson.

General Medicine

Principles and Practice of Medicine by Davidson (latest edition)

Clinical Medicine by Parveen J Kumar & Michael Clark

Oxford Handbook of Medicine

Macleod's Clinical Examination book

Medicine and Toxicology by C.K. Parikh

Hutchison's Clinical Methods by Michael Swash. 21st edition

Pharmacology And Therapeutics

Katzung and Trevor's Pharmacology: Examination and Board Review- 15th Edition

Basic and Clinical Pharmacology by Bertram G Katzung (case scenarios only) - 16th Edition-

Current Medical Diagnosis and Treatment- reference book –Edition-2024

Basic and Clinical Pharmacology by Bertram G Katzung (case scenarios only) - 15th Edition

Basic and Clinical Pharmacology by Katzung, McGraw-Hill. 16th Edition.

Pharmacology by Champe and Harvey, Lippincott Williams & Wilkins 8th Edition.

Katzung Basic and Clinical pharmacology, Lippincott Illustrated reviews.

Clinical Pathology Interpretations by A. H. Nagi

Behavioural Sciences

Handbook of Behavioural Sciences by Prof. Mowadat H.Rana, 3rd Edition

Medical and Psychosocial aspects of chronic illness and disability 6th edition by Donna R.Falvo and Beverely E.Holland,

Integrating behavioral sciences in healthcare, Asma Humayun,2003, 1st edition

Community medicine

Parks Textbook of Preventive and Social Medicine. K. Park

Public Health and Community Medicine by Ilyas Ansari

MSDS manual of Government of Punjab

Text book of Community Medicine by Park J E. Latest Edition

Surgery

Bailey & Love's Short Practice of Surgery (latest edition)

Browse's Introduction to the Symptoms & Signs of Surgical Disease 4th Edition

Bailey & Love Short Practice of Surgery, Clinical Surgery pearls by Dayananda Babu RACS for Surgical Audits.

Patent Safety

Patient Safety Curriculum Guide: Multi Professional Guide

Microbiology

Levinson's review of Microbiology

Medical Microbiology and Immunology by Levinson and Jawetz,

Pediatrics Medicine

Nelson Textbook of Pediatrics

Basis of Pediatrics by Pervez Akbar Khan

Gynecology

Gynecology by Ten Teachers

Infection Control

National Guidelines Infection Prevention and control, National Institute of Health Pakistan

Biosafety

Biosafety in Microbiological and Biomedical Laboratories, 6th Edition (CDC, USA)

WHO Laboratory Biosafety Manual, Fourth Edition, And Associated Monographs

WHO safe management of wastes from healthcare facilities chapter 7 -8 page 77-99, 105-125)

Family medicine

Oxford Handbook of General Practice, 5th Edition

Orthopedics

Apley and Solomon's System of Orthopaedics and Trauma by Ashley Blom (Editor)

Rheumatology

Davidson's Principles and Practice of Medicine

Clinical Medicine by Parveen J Kumar & Michael Clark

Hutchison's Clinical Methods by Michael Swash

Radiology

Aids to Radiological Differential Diagnosis by Chapman S. and Nakielny R. 4th edition.

Elsevier Science Limited; 2003.

Forensic Medicine

Knight's Forensic Pathology by Barnard Knight 3rd edition

G. Principles and Practice of Forensic Medicine by Prof. Nasib R. Awan, 2nd edition

Forensic DNA Typing – 2nd Edition, Author: John M. Butler

Parikh's Textbook of Medical Jurisprudence, Forensic Medicine and Toxicology by C.K. Parikh 6th Ed., CBS Publisher.

Gun Shot Wounds 2nd edition by V.J.Deimao

Knight B. Simpson's Forensic Medicine.

Knight and Pekka. Principles of Forensic Medicine

Forensic Pathology

Forensic pathology 2nd edition by V.J.Deimao CRC press Boca Raton London New York

Washington DC

Toxicology

Principles of clinical toxicology 3rd edition Thomas. Gossel CRC press Taylor and Francis group

Forensic Sciences

Fundamentals of Forensic Science- 3rd Edition: Author: Max M Houck, Jay A. Siegel

TextBook of forensic medicine and toxicology Principles and Practice 5th edition by Krishan Vig

Biomedical ethics

Principles of Biomedical ethics, 8th edition by Tom. L. Beauchamp, James F. Childress.

Evidence Based Medicine

Databases for the latest articles/manuscripts

Clinical Practice Guidelines- local and international - (within last 3 years)

Books (Latest edition-within last 5 years)

Pediatrics

Nelson's Book of Pediatric 22 edition Illustrated book of Pediatrics, Pervaiz Akbar textbook peds medicine

Islamiyat

Standard Islamiyat (compulsory) for B.A, BSc, MA, MSc, MBBS by Prof M Sharif Islahi.

Ilmi Islamiyat(compulsory) for BA, BSc & equivalent.

About Avicenna Medical College

Avicenna Medical & Dental College is a purpose-built, fully equipped institution with experienced and excellence-driven faculty to train high-quality dental professionals in Pakistan.

Avicenna Medical & Dental College runs under the umbrella of Abdul Waheed Trust. Abdul Wahid Trust is a non-profit social welfare organization and registered under the Societies Act with the Registrar of Societies. The Trust is legalized through a Trust Deed that bears necessary rectifications. The Trust Deed is further supported by its Memorandum and Article of Association that authorizes the establishment and operation of the Medical College, the Dental College, the Nursing College, the Allied Health Sciences College, and other activities in the healthcare sector.

In 2009, Avicenna Medical & Dental College was recognized by the Pakistan Medical & Dental Council. With the advent of advanced tools and technology in every field of health science, medicine today has shot up to the greater end of the gamut with superior choice and promises in medical therapy in the very vicinity of the common man. AVMDC promises to be one such neighborhood.

Infrastructure Resources

Sr .	Infrastructure Resources	Description
1.	Lecture Hall	Each year has a dedicated lecture hall, totaling five lecture halls for the five professional years. These halls are equipped with modern audiovisual aids to support effective teaching and learning.
2.	Tutorial Room	The college's tutorial rooms, each with a capacity of 30, are specifically designed to support small group discussions and interactive sessions. These rooms facilitate personalized instruction, enabling more engaged and effective learning through direct interaction between students and instructors.
3.	Lab	The college is equipped with state-of-the-art laboratories for practical and clinical work. Each lab is designed to support various disciplines, to facilitate hands-on learning.
4.	Library on campus	A huge library occupies a full floor and has 260 seats including study carrels and group-discussion tables. Latest reference books of Basic and Clinical Sciences along with national & international journals are available in the library.
5.	Digital Library	The digital library offers access to a vast collection of e-books, online journals, research databases, and other digital resources. It supports remote access and provides tools for academic research and learning.
6.	Learning Management System (LMS)	The LMS is a comprehensive online platform that supports course management, content delivery, student assessment, and communication. It provides tools for tracking progress, managing assignments, and facilitates ongoing academic activities.

6.	Phantom Labs	Specialized Phantom Labs are available for advanced simulation and practice in dental procedures. These labs provide high-fidelity models and simulators that help students refine their clinical skills in a controlled environment.
7.	Mess & Cafeteria	<p>The College has its own on-campus Mess which caters to 600 students. All food items including dairy, meat, and vegetables are sourced organically and bought in at the time of cooking, in order to ensure that students get freshly cooked meals at all times</p> <p>Students form the Mess committee which decides the mess menu in consultation with other students. The Mess offers fresh food to all residents three times a day. However, day scholars are also welcome to use the Mess facility at a reasonable cost.</p> <p>Two 50- inch LCD screens provide students an opportunity to get entertained during their meal times.</p>
8.	Gymnasium & Sports	<p>We recognize sports as a pivotal key to shape and maintain students' personality and good health. The College has indoor and outdoor sports facilities to help enhance the cognition and capacity to learn. There is a proper sports section for various games like basketball, football, volleyball, and cricket.</p> <p>The gym itself is fully equipped with modern machinery both for students and faculty.</p>
9.	IT Lab	The IT Lab is equipped with modern computers and software available for students who need access for academic purposes.
10	Auditorium	The college has a spacious auditorium equipped with advanced audio-visual facilities. It is used for large-scale lectures, guest presentations, and academic conferences, providing a venue for students to engage with experts and participate in important educational events.
11	Examination Halls	The college provides dedicated examination halls that are designed to accommodate a large number of students comfortably. These halls are equipped with necessary facilities to ensure a smooth and secure examination process, including proper seating arrangements, monitoring systems, and accessibility features.

7-Star Doctor Competencies (PMDC)

According to national regulatory authority PMDC, a Pakistani medical/dental graduate who has attained the status of a 'seven-star doctor' is expected to demonstrate a variety of attributes within each competency. These qualities/ generic competencies are considered essential and must be exhibited by the individual professionally and personally.

1. Skillful / Care Provider.
2. Knowledgeable / Decision Maker.
3. Community Health Promoter / Community Leader.
4. Critical Thinker / Communicator
5. Professional / Lifelong learner.
6. Scholar / Researcher
7. Leader/ Role Model / Manager

Message from the Principal

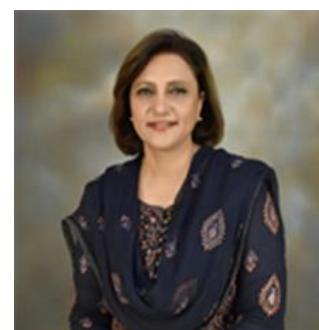
As a Co-Founder and Co-Chairperson, I have been involved in planning, construction and accreditation of Avicenna Medical College by the Pakistan Medical and Dental Council (PM&DC) and its affiliation with the esteemed University of Health Sciences (UHS). It is a pleasure to see Avicenna Medical College develop, progress and achieve maximum academic excellence in a short period since its inception in 2009. The institution has lived up to its mission of training and producing medical graduates of international standards. Three batches have passed out as Doctors, who currently are serving in the country and abroad while several have opted for post-graduation and are on road to progress. We have achieved several milestones since 2009 including the recognition of our College for FCPS training by College of Physicians and Surgeons of Pakistan (CPSP), establishment of College of Nursing and Avicenna Dental College.

Principal

Prof. Dr. Gulfreed Waheed

MBBS, FCPS, MHPE, PhD Scholar - HPE

Avicenna Medical & Dental College



Message from the Chairman

The Avicenna Medical & Dental College is a project of Abdul Waheed Trust which is a Non-profitable, Non-governmental, Non-political & Social organization, working for the welfare of Humanity and based on Community empowerment. Avicenna Medical College has its own 530 bedded Avicenna teaching Hospital (Not for Profit hospital) within the College Campus & 120 bedded Aadil Hospital, at 15 minutes' distance. Separate comfortable hostels for boys & girls are provided on the campus.

Our students benefit from the state of the art College Library with facilities of Internet & online Journals that remain open 15 hours a day, for our students & faculty members. I am particularly pleased with the hard work by the Faculty and Students in the achievement of historic 100% results for all the classes. It is a rare achievement and speaks of dedication of the Faculty and Staff. Our motto is Goodness prevails and we aim at producing Doctors' who are knowledgeable, competent in clinical skills and ethical values.

Avicenna Medical College & Hospital was founded to provide quality health care services to the deserving patients belonging to the rural areas near Avicenna Hospital as well as to provide quality medical education of international standard to our students. The Hospital provides all medical services and Lab diagnostics to the local population at minimal cost. So far by the grace of Allah Almighty the number of patients being treated and operated upon at our Hospital is increasing every day as there is no other public or charity hospital in the circumference of 20km. We have already established two Satellite Clinics in the periphery which are providing outdoor care while admission cases are brought to the Hospital in Hospital transport.

Following the success of our reputable Medical College and Hospital, we were able to successfully establish Avicenna Dental College which is recognized by the Pakistan medical & Dental Council & University of Health Sciences. To date, we have enrolled five batches in our dental college and we aim to achieve the same level of success for our dental students as our medical students.

Chairman
Abdul Waheed Sheikh
Avicenna Medical & Dental College





Avicenna Medical & Dental College



Vision

The vision of **Avicenna Medical & Dental College** is to become a college that thrives to achieve improvement in healthcare of masses through creative delivery of educational programs, innovative research, commitment to public service and community engagement in a environment that supports diversity, inclusion, creative thinking, social accountability, life-long learning and respect for all.

Mission

The mission of **Avicenna Medical and Dental College** is to educate and produce competent, research oriented healthcare professionals with professional commitment and passion for life-long learning from a group of motivated students through quality education, research and service delivery for the improvement of health status of the general population.