AVICENNA MEDICAL & DENTAL COLLEGE

STUDY GUIDE

2025

Foundation II & EBM

BLOCK 7- MODULE 12

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

Table of Contents

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 Syndrom
	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

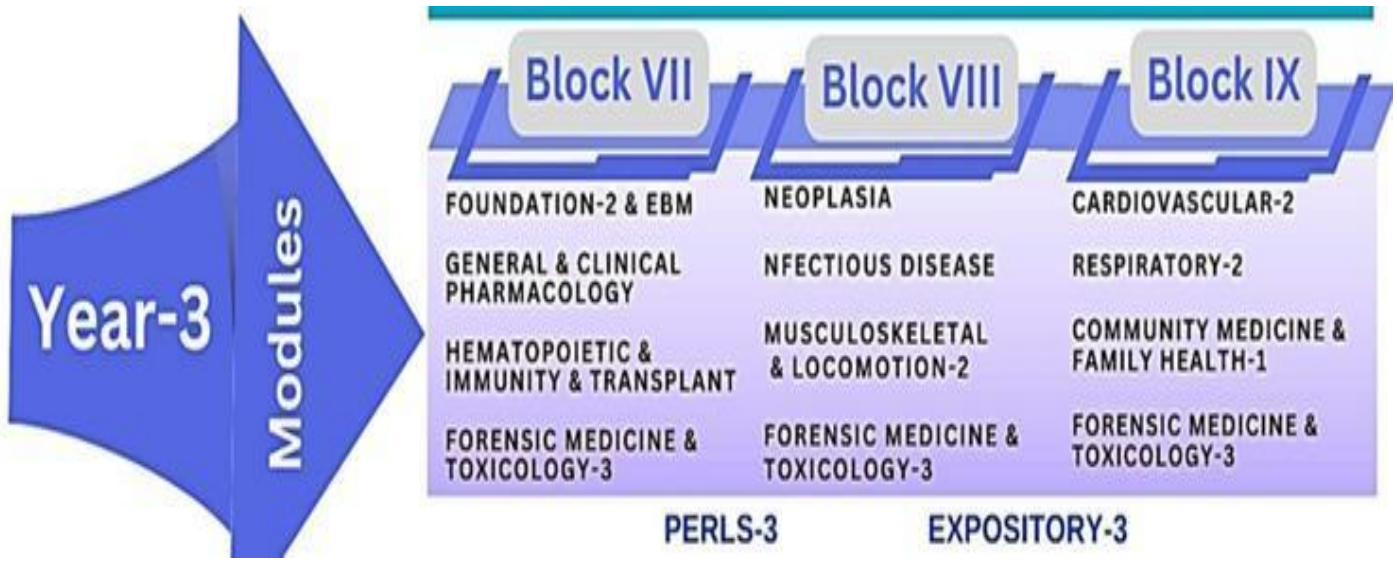
	CMV	cytomegalo virus
	CNS	Central Nervous System
	CO	Carbon monoxide
	CO2	Carbon dioxide
	CODIS	combined DNA index system
	COPD	Chronic obstructive pulmonary disease
	COVID-19	Corona Virus Disease 2019
	COX	Cyclooxygenase
	CPR	Cardiopulmonary Resuscitation
	CR	Clinical Rotation
	CRP	Clinical Rotation 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	ntegrase Strand Transfer Inhibitors
	IPV	Intrauterine Device
	IUD	Intrauterine device
	IUGR	Intra-Uterine Growth Restriction
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
	NSAIDs	Non-steroidal Anti-Inflammatory Drugs
O	**O**	Ophthalmology
	OA	Osteoarthritis
	OPC	Organophosphate
	OPV	Oral poliovirus vaccine
	Or	Orientation
	Orth	Orthopaedic
P	**P**	Physiology
	P.jiroveci	Pneumocystis jiroveci
	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 in hibitors
	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
	PT	Prothrombin Time
	PVC	Premature Ventricular Contraction
	PVD	Peripheral Vascular Diseases
Q	**QALY**	Quality-Adjusted Life Year
	QI	Quran and Islamiyat
R	**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	ventricvular septal defect
W	**W. bancroft**	Wuchereria bancroft
	WBCs	White Blood Cells
	WHO	World Health Organization
Z	**ZN Staining**	Ziehl-Neelsen Staining

Curriculum Framework



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.

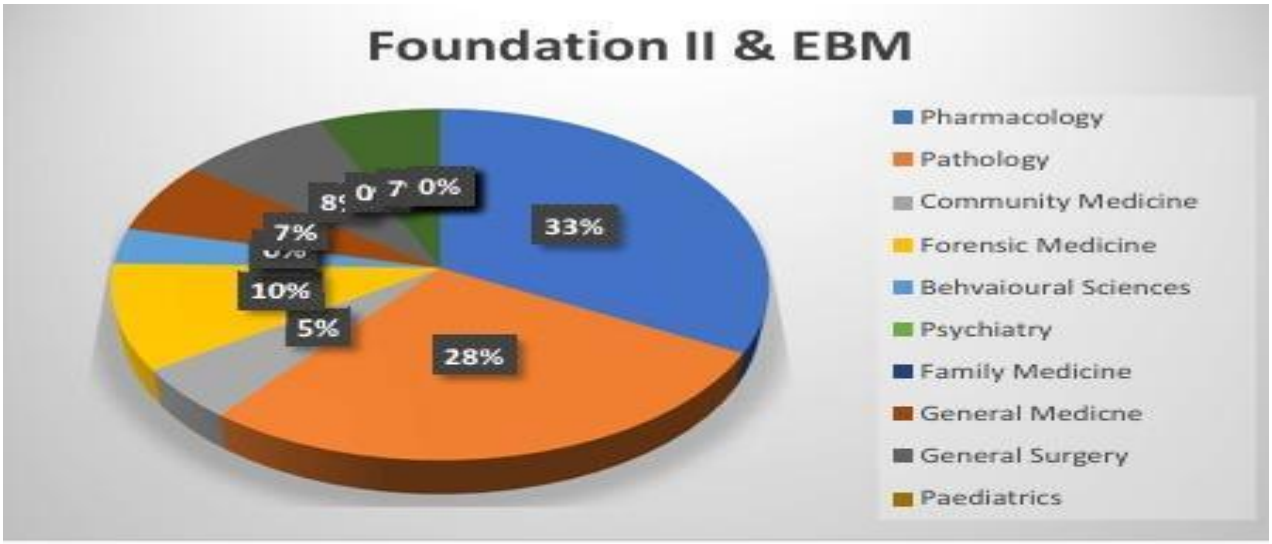
Objectives of the Study Guide

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

- The Foundation 2 module is designed to build upon and consolidate the foundational knowledge acquired in the earlier years of medical education, particularly from the Foundation-I module.
- As students transition into their clinical years, it is crucial to reinforce and deepen their understanding of basic medical sciences to support the integration of new, clinically relevant concepts.
- This module serves as a bridge, revisiting core topics in general Pharmacology, Pathology, and Forensic medicine with an emphasis on their clinical applications.
- By doing so, it ensures that students develop a more comprehensive understanding, which is vital for the advanced study of organ systems in subsequent modules (e.g., CVS 2, Respiratory-2, GIT-2, Neurosciences-2, and Reproduction 2).
- Mastery of these topics is essential before students can effectively approach the complexities of clinical scenarios.
- The revisiting of these concepts throughout the curriculum ensures a robust and integrated understanding, laying a solid foundation for clinical competence.



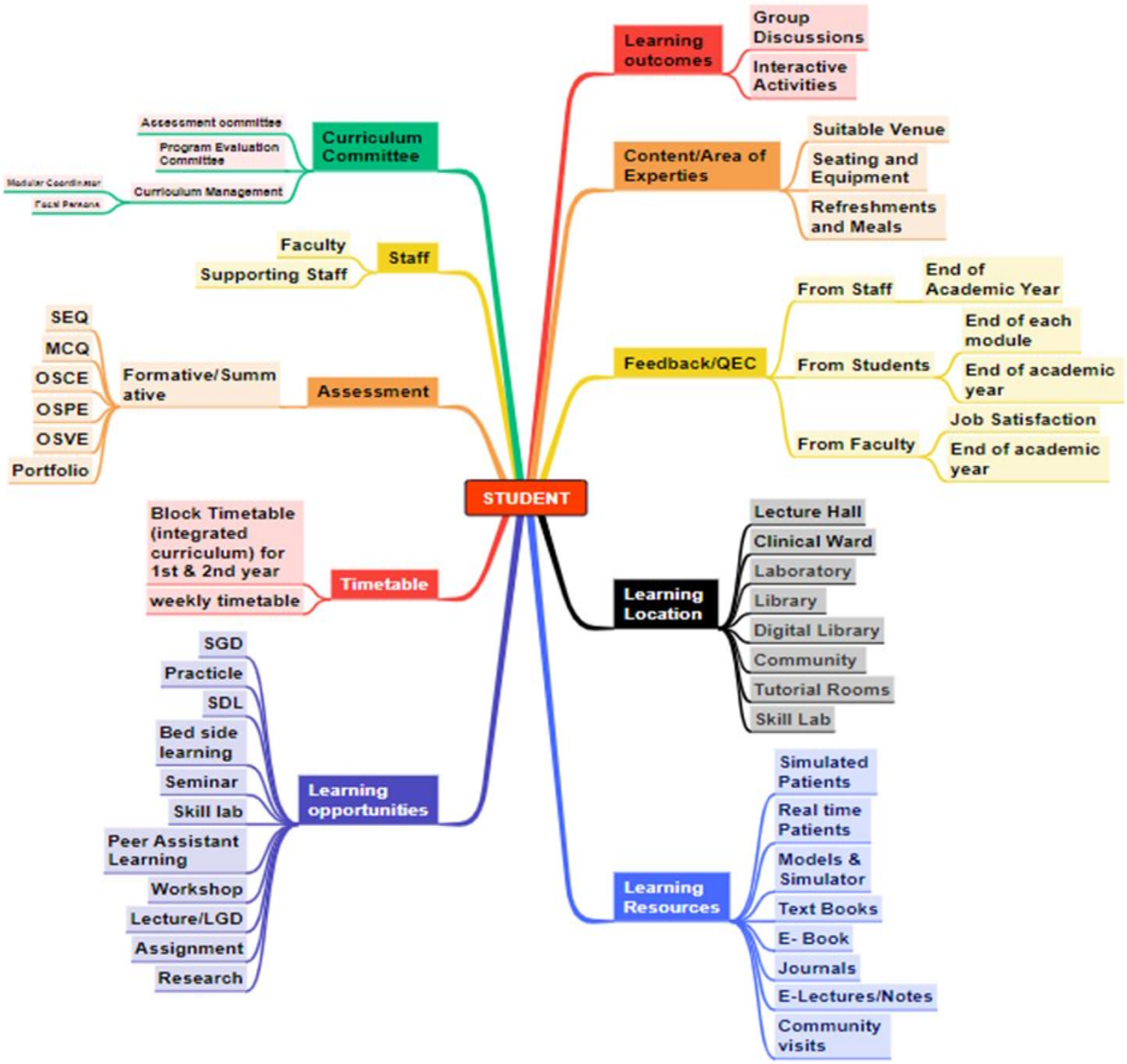
Module Weeks	Recommended Minimum Hours
02	61

Module Committee

Name	Designation	Department
Prof. Dr. Gulfreen 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. Zaib Hassan	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	SESSION 2024-2025					Week-1	
DATE	DAY							BLOCK # VII	MODULE - 12
		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	
17-Mar	MON	LECTURE PHARMACOLOGY F2-Ph-001 Introduction Prof. Asma Saeed LECTURE HALL3	CFRC CLINICAL ROTATION BATCH A :MEDICINE (F2-M-003:History taking skills) BATCH B: SURGERY (F2-S-004 : Enlist Suture types & techniques) BATCH C: FMAILY MEDICINE (MS2-S 001,MS2-M 001,MS2-M 002:symptom of "pain") PRACTICAL BATCH D :PHARMACOLOGY (GPh-Ph-004:Preparation on Saline) BATCH E: PATHOLOGY (F2-Pa-004-Classify culture media and describe blood) BATCH F: FOR.MEDICINE (For-Au012:Demonstrate correct report writing)		LECTURE PATHOLOGY F2-Pa-001 Genetics Dr Naeem LECTURE HALL3	BREAK	LECTURE SURGERY F2-S-001 Wound Management Dr. Shoaib LECTURE HALL3	TUTORIAL PHARMA : A PATHO : B FOR.MEDICINE: C	
		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	
18-Mar	TUE	LECTURE PATHOLOGY F2-Pa-001 Genetics Dr Naeem LECTURE HALL3	LECTURE PHARMACOLOGY F2-Ph-002 Sources of drugs and active principles Prof. Asma Saeed LECTURE HALL3	BREAK	LECTURE BEH.SCIENCE F2-BhS001 Introduction to Health Behavior and Its Determinants Dr Farhat LECTURE HALL3	LECTURE PHARMACOLOGY F2-Ph-004 Routes of Administration Dr. Azka Khan LECTURE HALL3	TUTORIAL PHARMA : B PATHO : C FOR.MEDICINE: A	CFRC CLINICAL ROTATION BATCH B :MEDICINE (F2-M-003:History taking skills) BATCH C: SURGERY (F2-S-004 : Enlist Suture types & techniques) BATCH D: FMAILY MEDICINE (MS2-S 001,MS2-M 001,MS2-M 002:symptom of "pain") PRACTICAL BATCH E :PHARMACOLOGY (GPh-Ph-004:Preparation on Saline) BATCH F: PATHOLOGY (F2-Pa-004-Classify culture media and describe blood) BATCH A: FOR.MEDICINE (For-Au012:Demonstrate correct report writing)	
		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	
19-Mar	WED	LECTURE PHARMACOLOGY F2-Ph-003 Parameters Prof. Asma Saeed LECTURE HALL3	LECTURE PATHOLOGY F2-Pa-001 Genetics Dr Naeem LECTURE HALL3	LECTURE FOR.MEDICINE F2-For001+002 Introduction to the subject of Forensic Medicine Chain of evidence Prof.Dr. Zainab LECTURE HALL3	LECTURE COMMUNITY MEDICINE F2-CM001 Concept & health disease Prof Rana Akhtar LECTURE HALL3	BREAK	LECTURE PHARMACOLOGY F2-Ph-004 Routes of Administration Dr. Azka Khan LECTURE HALL3	CFRC CLINICAL ROTATION BATCH C :MEDICINE (F2-M-003:History taking skills) BATCH D: SURGERY (F2-S-004 : Enlist Suture types & techniques) BATCH E: FMAILY MEDICINE (MS2-S 001,MS2-M 001,MS2-M 002:symptom of "pain") PRACTICAL BATCH F :PHARMACOLOGY (GPh-Ph-004:Preparation on Saline) BATCH A: PATHOLOGY (F2-Pa-004-Classify culture media and describe blood) BATCH B: FOR.MEDICINE (For-Au012:Demonstrate correct report writing)	
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00		12.30-1.30	1.30-3.30	
20-Mar	THU	LECTURE PATHOLOGY F2-Pa-002 Genetic syndromes Dr Naeem LECTURE HALL3	LECTURE MEDICINE F2-M-001 Bacterial diseases Dr. Usman LECTURE HALL3	LECTURE PHARMACOLOGY F2-Ph-004 Routes of Admin Dr. Azka Khan LECTURE HALL3	LECTURE PATHOLOGY F2-S-001 Wound Management Dr Munazza LECTURE HALL3		LECTURE FOR.MEDICINE F2-For003+003 ,For-Th-001 Introduction to ThanatologyDeath certificate Death and life Dr. Anwar LECTURE HALL3	TUTORIAL PHARMA : C PATHO : A FOR.MEDICINE: B	
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-1.00	1.00-2.00	2.00-3.30	
21-Mar	FRI	LECTURE FOR.MEDICINE For-Th002 Postmortem changes, immediate and early Dr. Anwar LECTURE HALL3	LECTURE PATHOLOGY F2-Pa-003 Comparison of Gram-positive and negative Bacterial cell wall structure Dr Majid LECTURE HALL3	LECTURE PHARMACOLOGY F2-Ph-005 Permeation Dr. Azka Khan LECTURE HALL3	PATIENT SAFETY F2-PS-001 Explain why patient safety is a critical concern in healthcare and how it impacts the quality of patient care. Dr. Usman (Com.Medicine) LECTURE HALL3	LECTURE PERLs Professional responsibility in clinical rotation Dr. Javaid Shabkhez LECTURE HALL3	JUMMA BREAK	SDL	

Prepared by DME

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE		M-22 3rd Year MBBS	SESSION 2024-2025						Week-2	
DATE	DAY								BLOCK # VII	MODULE - 12
		8.00-9.00	9.00-11.00		11.00-11.30	11.30-12.30	12.30-1.30	1.30-3.30		
24-Mar	MON	LECTURE PHARMACOLOGY F2-Ph-006 Absorption Prof. Asma Saeed LECTURE HALL3	PATIENT SAFETY F2-PS-002 Applying human factors is important for patient safety Dr. Usman LECTURE HALL3		BREAK	LECTURE PATHOLOGY F2-Pa-004 Microbiology Dr Majid LECTURE HALL3	TUTORIAL PHARMA : A PATHO : B FOR.MEDICINE: C	CFRC CLINICAL ROTATION BATCH D :MEDICINE (F2-M-003:History taking skills) BATCH E: SURGERY (F2-S-004 : Enlist Suture types & techniques) BATCH F: FMAILY MEDICINE (MS2-S 001,MS2-M 001,MS2-M 002:symptom of "pain") PRACTICAL BATCH A :PHARMACOLOGY (GPh-Ph-004:Preparation on Saline) BATCH B: PATHOLOGY (F2-Pa-004-Classify culture media and describe blood) BATCH C: FOR.MEDICINE (For-Au012:Demonstrate correct report writing)		
		8.00-9.00	9.00-10.00	10.00-10.30	10.30-11.30	11.30-1.00		1.00-3.30		
25-Mar	TUE	LECTURE BIOCHEMISTRY GPh-B001 Signal Transduction & Second Messenger Prof Dr Sadia Amir LECTURE HALL 3	LECTURE PATHOLOGY F2-Pa-002 Genetic syndromes Dr Naeem LECTURE HALL3	BREAK	LECTURE PHARMACOLOGY F2-Ph-006 Absorption Prof. Asma Saeed LECTURE HALL3	TUTORIAL PHARMA : B PATHO : C FOR.MEDICINE: A		CFRC CLINICAL ROTATION BATCH E :MEDICINE (F2-M-003:History taking skills) BATCH F: SURGERY (F2-S-004 : Enlist Suture types & techniques) BATCH A: FMAILY MEDICINE (MS2-S 001,MS2-M 001,MS2-M 002:symptom of "pain") PRACTICAL BATCH B:PHARMACOLOGY (GPh-Ph-004:Preparation on Saline) BATCH C: PATHOLOGY (F2-Pa-004-Classify culture media and describe blood) BATCH D: FOR.MEDICINE (For-Au012:Demonstrate correct report writing)		
		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		
26-Mar	WED	LECTURE PHARMACOLOGY F2-Ph-007 Bioavailability and first pass effect Prof. Asma Saeed LECTURE HALL3	LECTURE PATHOLOGY F2-Pa-004 Microbiology Dr Majid LECTURE HALL3	LECTURE FOR.MEDICINE For-Th002 Post-mortem changes (Early& late) Dr. Anwar LECTURE HALL3	LECTURE COM.MEDICINE F2-CM001 Concept & health disease Prof Rana Akhtar LECTURE HALL-3	BREAK	LECTURE PHARMACOLOGY F2-Ph-008 Distribution Dr. Azka Khan LECTURE HALL3	CFRC CLINICAL ROTATION BATCH F :MEDICINE (F2-M-003:History taking skills) BATCH A: SURGERY (F2-S-004 : Enlist Suture types & techniques) BATCH B FMAILY MEDICINE (MS2-S 001,MS2-M 001,MS2-M 002:symptom of "pain") PRACTICAL BATCH C:PHARMACOLOGY (GPh-Ph-004:Preparation on Saline) BATCH D: PATHOLOGY (F2-Pa-004-Classify culture media and describe blood)		
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00		12.30-1.30	1.30-2.30	2.30-3.30	
27-Mar	THU	LECTURE PATHOLOGY HIT-H001 Hematopoietic system Dr. Ujala LECTURE HALL3	LECTURE PHYSIOLOGY GPh-P001 Autonomic Nervous System Dr. Nida LECTURE HALL 3	LECTURE PHARMACOLOGY F2-Ph-007 Bioavailability and first pass effect Prof. Asma Saeed LECTURE HALL3	LECTURE PATHOLOGY F2-Pa-004 Microbiology Dr Majid LECTURE HALL3	BREAK	LECTURE FOR.MEDICINE For-Th003,4,5,6 Bio chemical changes Dr. Anwar LECTURE HALL3	LECTURE MEDICINE F2-M-002 Viral diseases Dr. Humaira LECTURE HALL 3	TUTORIAL PHARMA : C PATHO : A FOR.MEDICINE: B	
		8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-1.00	1.00-2.00	2.00-3.30		
28-Mar	FRI	LECTURE FOR.MEDICINE For-Th003,4,5,6 Bio chemical changes Dr. Anwar LECTURE HALL3	LECTURE PERLs Adapting to the Physician's Role Dr. Saba Iqbal LECTURE HALL 3	LECTURE PHARMACOLOGY F2-Ph-008 Distribution Dr. Azka Khan LECTURE HALL3	LECTURE PATHOLOGY F2-Pa-004 Microbiology Dr Majid LECTURE HALL3	LECTURE SURGERY HIT-H001 Hematopoietic system Dr. Shahzeena LECTURE HALL 3	JUMMA BREAK	SDL		

Prepared by DME

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 7 Module 12 Foundation II & EBM	● Apply Integrated Knowledge of Basic and Clinical Sciences: Synthesize concepts from general Pharmacology, Pathology, and Forensic Medicine to better understand the physiological and pathological processes underlying common clinical conditions. ● Correlate the foundational knowledge of disease mechanisms with their clinical presentations in Surgery and Medicine. ● Demonstrate Competency in Core Pharmacological Principles: Understand and explain the pharmacokinetics and pharmacodynamics of commonly used drugs in clinical practice. ● Analyze drug interactions, adverse effects, and therapeutic uses in various organ systems, including cardiovascular, respiratory, gastrointestinal, and neurological systems. ● Interpret Pathological Findings: Interpret key pathological processes such as inflammation, infection, neoplasia, and tissue repair in the context of disease progression. ● Apply knowledge of histopathology and laboratory medicine in diagnosing common diseases seen in clinical practice. ● Apply Forensic Medicine Principles in Clinical Contexts: Demonstrate understanding of medicolegal aspects of medical practice, including documentation, consent, patient rights, and legal responsibilities. ● Analyze and interpret findings relevant to forensic medicine, such as injury patterns, cause of death, and toxicology, and understand their clinical significance. ● Develop Surgical and Medical Clinical Reasoning: Utilize foundational knowledge to assess ● and plan appropriate management strategies for common surgical and medical conditions. ● Integrate surgical principles with an understanding of anatomy and pathology to explain clinical presentations and operative approaches. ● Practice Patient Safety Principles: Identify potential risks to patient safety in clinical settings, including medication errors, procedural risks, and diagnostic mistakes.

	● Apply strategies to mitigate risks and promote patient safety, including adhering to clinical guidelines, infection control measures, and communication best practices. ● Demonstrate Ethical and Professional Conduct: Recognize the importance of ethical decision-making and professionalism in both clinical practice and forensic medicine. ● Engage in responsible clinical practice, demonstrating accountability, integrity, and respect for patient autonomy and confidentiality. ● Employ Critical Thinking and Problem-Solving Skills: Use clinical reasoning to solve complex problems related to pharmacological treatment plans, pathological diagnoses, and surgical management. ● Analyze case scenarios that integrate knowledge across multiple subjects, drawing from basic and clinical sciences to reach accurate clinical conclusions. ● Communicate Effectively in Multidisciplinary Teams: Demonstrate the ability to collaborate and communicate clearly with peers and healthcare professionals from various specialties. ● Present clinical findings, diagnoses, and management plans effectively in both written and verbal formats, ensuring clarity and precision.

Learning Objectives

Week No.	Total Hours	Mode of Teaching	Code	Learning Objective	Topic	Reference	Facilitator
Week:1	PHARMACOLOGY						
Week:1	1	Lecture	F2-Ph-001	Define Pharmacology, different branches of Pharmacology, Drug Nomenclature and Pharmacopoeias	Introduction	katzung 16th edition	Dr. Asma Saeed
Week:1	2	Lecture	F2-Ph-002	Identify the Sources & Active Principles of Drugs with Clinical Applications of Active Principles.	Sources of drugs and active principles	katzung 16th edition	Dr. Asma Saeed
Week:1	3	Lecture	F2-Ph-003	Summarize definitions of various pharmacokinetic and pharmacodynamic parameters	Parameters	katzung 16th edition	Dr. Asma Saeed
Week:1	4	Lecture	F2-Ph-004	Name various routes of drug administration. Discuss the advantages & disadvantages of various routes of drug administration.	Routes of Administration	katzung 16th edition	Dr. Azka Khan
Week:1	5	Lecture	F2-Ph-005	Enlist the different processes by which drugs are transported across cell membranes.	Permeation	katzung 16th edition	Dr. Azka Khan

Week:1	**6**	**Tutorial**	**F2-Ph-002**	**Identify the Sources & Active Principles of Drugs with Clinical Applications of Active Principles.**	**Sources of drugs and active principles**	**katzung 16th edition**	**demonstrator**
Week:1	**PATHOLOGY**						
Week:1	**7**	**Lecture**	**F2-Pa-001**	**Define mutation and classify different types Describe the features and examples of the following i. Autosomal dominant disorders Give brief account of; i. Marfan syndrome ii. Ehlers-Danlos syndrome**	**Genetics**	**ROBBINS PATHOLOGY 10TH EDITION CHAPTER 5**	**Dr Naeem**
Week:1	**8**	**Lecture**	**F2-Pa-001**	**Describe the features and examples of the following ii. Autosomal recessive disorders**	**Genetics**	**ROBBINS PATHOLOGY 10TH EDITION CHAPTER 5**	**Dr Naeem**
Week:1	**9**	**Lecture**	**F2-Pa-002**	**Give brief account of; iii. Down syndrome iv. Klinefelter syndrome v. Turner syndrome Define karyotyping and enlist the karyotyping of above mentioned syndromes**	**Genetic syndromes**	**ROBBINS PATHOLOGY 10TH EDITION CHAPTER 5**	**Dr Naeem**
Week:1	**10**	**Lecture**	**F2-Pa-001**	**Give brief account of steps of PCR and types of PCR**	**Genetics**	**ROBBINS PATHOLOGY 10TH EDITION CHAPTER 5**	**Dr Naeem**
Week:1	**11**	**Lecture**	**F2-S-001**	**Describe the basics of Wound Healing & tissue repair**	**Wound Management**	**ROBBINS PATHOLOGY 10TH EDITION CHAPTER 5**	**DR MUNAZZA**
Week:1	**12**	**Lecture**	**F2-Pa-003**	**To know the difference between gram positive and negative cell wall. How it affects the choice of antibiotic**	**Comparison of Gram-positive and negative Bacterial cell wall structure, how bacteria differ from viruses**	**LEVINSON 18TH EDITION**	**DR MAJID**

Week:1	**13**	**Tutorial**	**F2-Pa-002**	**Give brief account of; i. Marfan syndrome ii. Ehlers-Danlos syndrome iii. Down syndrome iv. Klinefelter syndrome v. Turner syndrome**	**Genetic syndromes**	**ROBBINS PATHOLOGY 10TH EDITION CHAPTER 5**	**DEMONSTRATORS**
Week:1	**FORENSIC MEDICINE**						
Week:1	**14**	**Lecture**	**F2-For001 F2-For002**	**Describe Forensic Medicine & its various branches. Describe evidence, its types & recording of evidence**	**Introduction to the subject of Forensic Medicine Chain of evidence**	**NRA 1st Ed. pg1, 6, 7**	**Dr. Zainab**
Week:1	**15**	**Lecture**	**F2-For003 F2-For004 For-Th-001**	**Describe the importance of diagnosis of death Describe the WHO format of the death certificate Define life and death. Describe views about death of different authorities. Differentiate between somatic and molecular death. Diagnose a case of death clinically. Describe the legal procedure of disposal of a dead body-known /unclaimed**	**Introduction to Thanatology Death certificate Death and life**	**NRA 1st Edition, pg 90 Parikh 7th Edition, pg 137**	**Dr. Anwar**

Week 1	**16**	**Lecture**	**For-Th002**	**Classify post-mortem changes Describe immediate signs of somatic death Explain early eye changes after death Explain Post-mortem Cooling of Dead body (Algor Mortis) and its medicolegal implications Describe methods of recording the temperature of a dead body Explain cooling curve of a dead body. State different formulas applied for calculating body temperature after death Summarize factors affecting Algor Mortis Explain Postmortem Lividity and its mechanism of development Explain its Medicolegal implications Summarize factors affecting post-mortem lividity Differentiate Postmortem Lividity from Congestion and Bruise**	**Postmortem changes, immediate and early**	**NRA 1st Edition, pg 91, Parikh 7th Edition, pg 141-151**	**Dr. Anwar**
Week:1	**17**	**Tutorial**	**F2-For009**	**Describe trace evidence and its types**	**Trace evidence**	**NRA 1st Ed. pg 32**	**Demonstrators**
Week:1	**18**						
Week:1	**BEHAVIOURAL SCIENCES**						
Week:1	**19**	**Lecture**	**F2-BhS001**	**Define health behavior and discuss the importance of behavioral sciences in medical practice. Identify biological, psychological, and social factors that influence health behaviors and decisionmaking. Discuss key behavioral change models (e.g., Health Belief Model, Theory of Planned Behavior) and their application in patient care.**	**Introduction to Health Behavior and Its Determinants**	**Behavioural sciences by MOWADAT RANA Page no..1-9**	**Dr Farhat**

Week:1	**COMMUNITY MEDICINE**						
Week:1	**20**	**Lecture**	**F2-CM001**	**Define Health. What are health dimensions? What are the good health indicators?**	**Concept & health disease**	**K.Park CH 2**	**Prof Rana Akhtar**
Week:1	**MEDICINE**						
Week:1	**21**	**Lecture**	**F2-M-001**	**Signs, symptoms, and differentials of common bacterial diseases.**	**Bacterial diseases**	**Davidsons 24rth ed**	**Dr. Usman**
Week:1	**SURGERY**						
Week:1	**22**	**Lecture**	**F2-S-001**	**Describe the basics of Wound Healing & tissue repair**	**Wound Management**	**B &L**	**Dr. Shoaib**
Week:1	**PATIENTS SAFETY**						
Week:1	**23**	**Lecture**	**F2-PS-001**	**Explain why patient safety is a critical concern in healthcare and how it impacts the quality of patient care.**	**What is patient safety**	**Dr. Usman**	
Week:1	**PERLs**						

Week:1	**24**	**Lecture**	**Professionalism**	**Understand the basic professional behaviours expected in clinical rotations, such as punctuality, appropriate communication, and respectful interactions with patients and staff. · Observe a clinical setting and identify key professional behaviours demonstrated by healthcare staff, such as maintaining punctuality and professional communication**	**Professional Responsibility in Clinical Rotations**	**Lecture Presentation**	**Dr. Javaid**
Week:1	**SDL**						
Week:1	**25**	**Self Directed Learning**					
Week:1	**26**	**Self Directed Learning**					
Week:1	**27**	**Self Directed Learning**					
Week:1	**28**	**Self Directed Learning**					
Week:1	**CLINICAL ROTATION**						
Week:1	**29**	**CFRC**	**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:1	**30**	**CFRC**	**CFRC3-009+061**	**Take detailed patient history and perform general physical exams. +General physical examination**		**Log Book**	**Medical Faculty**

Week:1	**31**	**CFRC**	**CFRC3-012+13**	**Perform and interpret measurements of vital signs (e.g., BP, pulse, temperature, respiratory rate). +Recognize abnormal vital signs and escalate care accordingly**		**Log Book**	**Medical Faculty**
Week:1	**CLINICAL ROTATION & PRACTICAL (FORENSIC MEDICINE, PATHOLOGY)**						
Week:1	**32**	**PRACTICAL**	**For-Au 012**	**Demonstrate correct report writing**	**Autopsy report**	**Practical Copy**	**Demonstrators**
Week:1	**33**	**PRACTICAL**	**For-Au 012**	**Demonstrate correct report writing**	**Autopsy report**	**Practical Copy**	**Demonstrators**
Week:1	**34**	**PRACTICAL**	**F2-Pa-004**	**Classify culture media and describe blood, chocolate, McConkey, nutrient, CLED, TCBS, TSI, citrate & urease media. Blood culture. Sabouraud agar.**	**GENERAL MICROBIOLOGY**	**Practical Copy**	**Demonstrator**
Week:1	**35**	**PRACTICAL**	**F2-Pa-004**	**Classify culture media and describe blood, chocolate, McConkey, nutrient, CLED, TCBS, TSI, citrate & urease media. Blood culture. Sabouraud agar.**	**GENERAL MICROBIOLOGY**	**Practical Copy**	**Demonstrator**
Week:1	**WHOLE CLASS TUTORIAL (PHARMACOLOGY)**						
Week:1	**36**	**TUTORIAL**	**F2-Ph-005**	**Enlist the different processes by which drugs are transported across cell membranes.**	**Permeation**	**katzung 16th edition**	**Demonstrators**
Week:1	**37**	**TUTORIAL**	**F2-Ph-005**	**Enlist the different processes by which drugs are transported across cell membranes.**	**Permeation**	**katzung 16th edition**	**Demonstrators**

Week No.	Total Hours	Mode of Teaching	Code	Learning Objective	Topic	Reference	Facilator
Week:2	PHARMACOLOGY						
Week:2	1	Lecture	F2-Ph-006	Predict the relative permeation of a clinically useful weak acid or a weak base from knowledge of its pKa, the pH of the medium using the Henderson Hasselbalch equation. Determine percentage of drug ionized or unionized when placed in a certain Ph media.	Absorption	Katzung edition 16	Dr. Asma Saeed
Week:2	2	Lecture	F2-Ph-006	Explain ion trapping. Describe patient-based factors affecting rate and extent of drug absorption. Describe the Clinical Significance of Drug Absorption.	Absorption	Katzung edition 16	Dr. Asma Saeed
Week:2	3	Lecture	F2-Ph-007	Define Bioavailability. Describe factors affecting bioavailability. Define Area under the curve (AUC). Explain first pass elimination.	Bioavailability and first pass effect	Katzung edition 16	Dr. Asma Saeed

Week:2	**4**	**Lecture**	**F2-Ph-007**	**Explain extraction ratio. Understand that how bioavailability and the first pass effect, affect the different Clinical conditions. Explain bioequivalence and therapeutic equivalence.**	**Bioavailability and first pass effect**	**Katzung edition 16**	**Dr. Asma Saeed**
Week:2	**5**	**Lecture**	**F2-Ph-008**	**Define drug distribution. Describe the distribution of a drug through various body compartments. Explain selective distribution. Describe factors affecting distribution of a drug. Explain volume of distribution (Vd) and how to calculate Vd. understand the clinical significance of Vd Explain the characteristics of a drug that is bound to plasma proteins.**	**Distribution**	**Katzung edition 16**	**Dr. Azka Khan**

Week:2	**6**	**Tutorial**	**F2-Ph-006**	**Predict the relative permeation of a clinically useful weak acid or a weak base from knowledge of its pKa, the pH of the medium using the Henderson Hasselbalch equation. Determine percentage of drug ionized or unionized when placed in a certain Ph media.**	**Absorption**	**Katzung edition 16**	**demonstrator**
Week:2	**PATHOLOGY**						
Week:2	**7**	**Lecture**	**F2-Pa-004**	**Classify gram-positive and negative cocci. Classify gram +ve and gram –ve rods. Classify spirochetes and atypical bacteria**	**Microbiology**	**LEVINSON 18TH EDITION**	**DR MAJID**
Week:2	**8**	**Lecture**	**F2-Pa-002**	**Give brief account of; iii. Down syndrome iv. Klinefelter syndrome v. Turner syndrome Define karyotyping and enlist the karyotyping of above mentioned syndromes**	**Genetic syndromes**	**ROBBINS PATHOLOGY 10TH EDITION CHAPTER 5**	**Dr Naeem**
Week:2	**9**	**Lecture**	**F2-Pa-004**	**Define colonization resistance and enlist normal flora of skin, gut, respiratory tract, and vagina.**	**Microbiology**	**LEVINSON 18TH EDITION**	**DR MAJID**

Week:2	**10**	**Lecture**	**F2-Pa-004**	**Define conjugation, transduction, transformation**	**Microbiology**	**LEVINSON 18TH EDITION**	**DR MAJID**
Week:2	**11**	**Lecture**	**F2-Pa-004**	**Describe mechanisms of antimicrobial resistance**	**Microbiology**	**LEVINSON 18TH EDITION**	**DR MAJID**
Week:2	**12**	**Lecture**	**F2-Pa-004**	**Classify medically important fungi, parasites.**	**Microbiology**	**LEVINSON 18TH EDITION**	**DR MAJID**
Week:2	**13**	**Tutorial**	**F2-Pa-004**	**Classify gram-positive and negative cocci. Classify gram +ve and gram –ve rods.**	**Microbiology**	**LEVINSON 18TH EDITION**	**Demonstrators**
Week:2	**FORENSIC MEDICINE**						
Week:2	**14**	**Lecture**	**For-Th002**	**Explain Rigor Mortis and its mechanism of development. Describe its Medicolegal implications. Summarize factors affecting Rigor Mortis Summarize conditions simulating Rigor Mortis Distinguish Rigor Mortis from Cadaveric Spasm and instantaneous rigor Enlist late changes after death Explain the process of putrefaction. Describe different stages of putrefaction Summarize factors affecting putrefaction**	**Post-mortem changes - Early and late)**	**NRA 1st Edition, pg 95 Parikh 7th Edition, pg 111,138, 151-162 Parikh 7th Edition, pg 139**	**Dr. Anwar**

Week:2	**15**	**Lecture**	**For-Th003 For-Th004 For-Th005 For-Th006**	**Summarize the biochemical changes in blood, vitreous humour and CSF after death List of different parameters to determine PMI. Describe rate method and concurrent methods to estimate PMI Define sudden death Summarize common causes of sudden death Differentiate between modes, manner cause and mechanism of death.**	**Bio chemical changes, after death Estimation of Post-mortem interval Sudden death Mechanism, manner, cause, modes of death**	**NRA 1st Edition pg, 98**	**Dr. Anwar**
Week:2	**16**	**Tutorial**	**F2-For010**	**Types of fingerprints Recording of dying declaration**	**Dactylography Recording of evidence**	**NRA 1st Ed. pg 6, 7, 32**	**Demonstrators**
Week:2	**17**						
Week:2	**COMMUNITY MEDICINE**						
Week:2	**18**	**Lecture**	**F2-CM001**	**Calculate and interpret health indicators of Public Health Importance.**	**Concept & health disease**	**K.Park**	**Prof Rana Akhtar**
Week:2	**PHYSIOLOGY**						

Week:2	**19**	**Lecture**	**GPh-P001**	**Describe the types of adrenergic and cholinergic receptors and their functions. Explain the effects of sympathetic and parasympathetic on various organs/systems of the body**	**Autonomic Nervous System**	**Prof Dr Sadia**	
Week:2	**MEDICINE**						
Week:2	**20**	**Lecture**	**F2-M-002**	**Signs, symptoms, and differentials of common viral diseases.**	**Viral diseases**	**Davidson 24rth ed**	**Dr. Humaira**
Week:2	**BIOCHEMISTRY**						
Week:2	**21**	**Lecture**	**GPh-B001**	**Describe the features of Signal transduction. Describe different types of second messengers Differentiate the G protein and non-G protein mediated**	**Signal Transduction & Second Messenger**	**Prof Dr Sadia Amir**	
Week:2	**SURGERY**						

Week:2	**22**	**Lecture**	**HIT-H001**	**Recognize symptoms driving surgical decisions such as jaundice, pallor and fatigue that may require surgical intervention especially splenectomy Evaluate physical signs for surgical planning as splenectomy particularly in cases where splenic sequestration or hypertension exacerbates hemolysis Monitor patient's post-splenectomy for recurrent symptoms like jaundice or anemia, which may suggest incomplete resolution or complications requiring surgical or medical management**	**Hematopoietic system**	**Dr. Shahzeena**
Week:2	**PERLs**					

Week:2	**23**	**Lecture**	**Professionalism**	**Discuss the principles of responsible use of social media platforms, including safeguarding patient confidentiality, conducting ethical interactions, and practising careful online sharing. 1. Discuss available social media use guidelines in healthcare.**	**Responsible use of social media Platforms**	**Behavioural sciences by MOWADAT RANA Page no.36-39**	**Dr Farhat**
Week:2	**PATIENT SAFETY**						
Week:2	**24**	**Lecture**	**F2-PS-002**	**Students should understand the relationship between human factors and patient safety**	**Applying human factors is important for patient safety**	**Dr. Usman**	
Week:2	**SDL**						
Week:2	**25**	**Self Directed Learning**					
Week:2	**26**	**Self Directed Learning**					
Week:2	**27**	**Self Directed Learning**					
Week:2	**28**	**Self Directed Learning**					
Week:2	**CLINICAL ROTATION /(PRACTICAL :PATHOLOGY, PHARMACOLOGY)**						

Week:2	**29**	**CFRC**	**CFRC3-006+014**	**Ability to calculate and adjust dosages for common medications based on patient factors.+Perform basic blood sampling (e.g., venipuncture) with proper aseptic technique.**		**Log Book**	**Medical Faculty**
Week:2	**30**	**CFRC**	**CFRC3-068**	**Take a basic pediatric history**		**Log Book**	**Medical Faculty**
Week:2	**31**	**CFRC**	**CFRC3-069**	**Knowledge of the EPI schedule**		**Log Book**	**Medical Faculty**
Week:2		**PRACTICAL**	**For-Au 012**	**Demonstrate correct report writing**	**Autopsy report**	**Practical Copy**	**Demonstrators**
Week:2		**PRACTICAL**	**For-Au 012**	**Demonstrate correct report writing**	**Autopsy report**	**Practical Copy**	**Demonstrators**
Week:2	**32**	**PRACTICAL**	**F2-Pa-004**	**To perform steps of gram staining. How this staining will help to choose antibiotics.**	**Use of Microscope & Gram staining**	**Practical Copy**	**Demonstrator**
Week:2	**33**	**PRACTICAL**	**F2-Pa-005**	**To perform steps of gram staining. How this staining will help to choose antibiotics.**	**Use of Microscope & Gram staining**	**Practical Copy**	**Demonstrator**
Week:2	**34**	**PRACTICAL**	**F2-Ph012**	**Calculations of drug dosing (e.g., IV infusion) & dose of children**	**Calculation**	**Practical Copy**	**Dr Ashfaq Hussian**
Week:2	**35**	**PRACTICAL**	**F2-Ph-013**	**Calculations (Mean, Mode, Median, Standard Deviation, and**	**Drug dosing**	**Practical Copy**	**Dr. Abdullah Nasir**

				Standard Error), and Metrology.			
Week:2	**WHOLE CLASS TUTORIAL (Pathology)**						
Week:2	**36**	**Tutorial**	**F2-Pa-004**	**Classify gram-positive and negative cocci. Classify gram +ve and gram –ve rods.**	**Microbiology**	**LEVINSON 18TH EDITION**	**Demonstrators**
Week:2	**37**	**Tutorial**	**F2-Pa-004**	**Classify gram-positive and negative cocci. Classify gram +ve and gram –ve rods.**	**Microbiology**	**LEVINSON 18TH EDITION**	**Demonstrators**

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-7

Week	Date	Day	Subject	Test	Topic
1st	17-Mar-25	Mon	Session Commencement: 17th March, 2025		
	18-Mar-25	Tue	All Subjects	Lecture	Lecture Time Divided
2nd	25-Mar-25	Tue	All Subjects	Lecture	Lecture Time Divided
3rd	Eid- Ul- Fitr + Spring Vacations Holidays: 30th March-6th April,2025				
4th	8-Apr-25	Tue	All Subjects	Lecture	Lecture Time Divided
5th	15-Apr-25	Tue	Pharamcology	Grand Test OSPE+VIVA	Pharmacokinetics (Absorption, distribution, metabolism,excretion)
6th	22-Apr-25	Tue	Pathology	Grand Test OSPE+VIVA	Genetics ,GB, Haematology-1
7th	29-Apr-25	Tue	For.Medicine	Grand Test OSPE+VIVA	Thanatology and Autopsy
8th	6-May-25	Tue	Pharamcology	Grand Test OSPE+VIVA	Pharmacodynamics,ANS Parasympathomimetics, parasympatholytics
9th	13-May-25	Tue	Pathology	Grand Test OSPE+VIVA	Haematology-2, Immunity
9th	15-May-25	Thus	Allied Test	Grand Test	Whole Syllabus of Module 12,13,14,15
10th	20-May-25	Tue	Pharamcology	Grand Test OSPE+VIVA	Sympathomimetics, sympatholytic, oral anticoagulants, antiplatelets, thrombolytics, Hematopoitic growth factors, drugs used in bleeding disorders, Immunosuppressants
10th	23-May-25	Fri	Integrated	Module Exam: VIVA/OSPE	Whole Syllabus
11th	27-May-25	Tue	Integrated	Block-7 Exam	Whole Syllabus of Module 12,13,14,15
	28-May-25	Wed		OSPE+VIVA	
End Of Block-7					

Table of Specification

MBBS 3rd Professional							
Block-7							
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	30	05	55	03	-	01	38
Pathology	30	04	50	03	-	01	38
Family Medicine	-	-	-	-	-	-	-
Community Medicine	02	-	02	01		-	08
Surgery	05	-	05	01	-	-	08
Medicine	05	-	05	01	-	-	08
Forensic	13	01	18	01	-	01	22
Behavioral	02	-	02	-	-	-	-
Patient Safety	03	-	03	-	-	-	-
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 12thed

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 Mitchall, 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 & Michaell 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 Therapeu cs

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, Lippincot Illustated 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 Currciulum 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 & Michaell, 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. NasibR. 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.Deimaio

Knight B. Simpson's Forensic Medicine.

Knight and Pekka. Principles of Forensic Medicine

Forensic Pathology

Forensic pathology 2nd edition by V.J.Deimaio 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 peads medicine

Islamiyat

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

IImi 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	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 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. Two 50- inch LCD screens provide students an opportunity to get entertained during their meal times.
8.	Gymnasium & Sports	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. The gym itself is fully equipped with modern machinery both for students and faculty.
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. Gulfreen 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.