

AVICENNA MEDICAL & DENTAL COLLEGE



STUDY GUIDE

2026

Respiratory II
BLOCK 9 - MODULE 21



Program: MBBS
Year: 3rd Professional Year
Batch No: M-23
Session: 2025-2026

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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.

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.

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
B	AUC	Area under the curve
	AV	Atrioventricular
	B	Biochemistry
	BhS	Behavioral Sciences
C	BHU	Basic Health Unit
	BSL	Biological Safety Level
	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

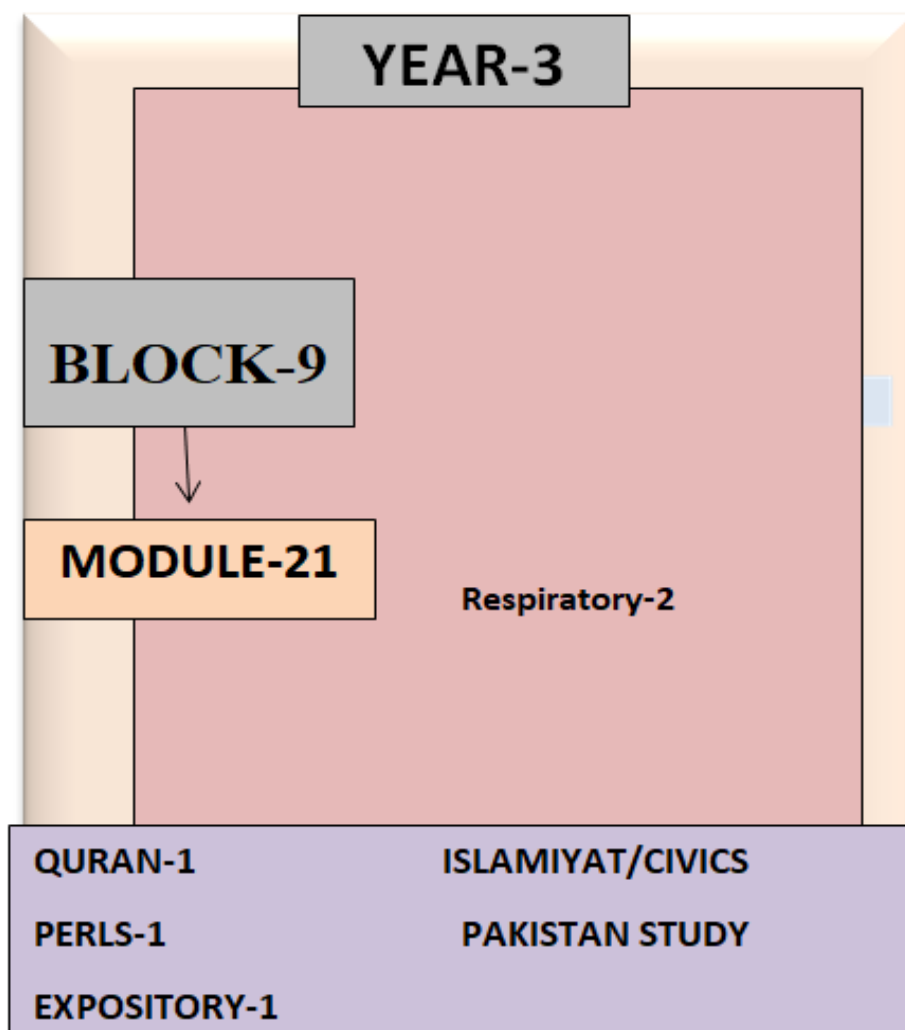
	CK	Creatine kinase
	CLED	cystine lactose electrolyte deficient
	CLL	chronic lymphocytic leukemia
	CM	Community Medicine
	CML	chronic myeloid leukemia
	CMV	cytomegalo virus
	CNS	Central Nervous System
	CO	Carbon monoxide
	CO2	Carbon dioxide
	CODIS	combined DNA index system
	COPD	Chronic obstructive pulmonary 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

	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
O	NSAIDs	Non-steroidal Anti-Inflammatory Drugs
	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 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
	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



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.

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

Introduction to Module

- Integrate foundational concepts to address clinical respiratory issues.
- Interpret common respiratory symptoms with accuracy in assessments.
- Outline management plans for prevalent respiratory diseases during case discussions.
- Utilize a problem-solving approach to accurately diagnose respiratory emergencies in simulated scenarios.
- Demonstrate understanding of respiratory tract malignancies and referral criteria by the end of the module.
- Identify the morphological features of common respiratory tract diseases in practical examinations.
- Demonstrate effective communication strategies in patient interactions, evaluated through peer and instructor feedback.

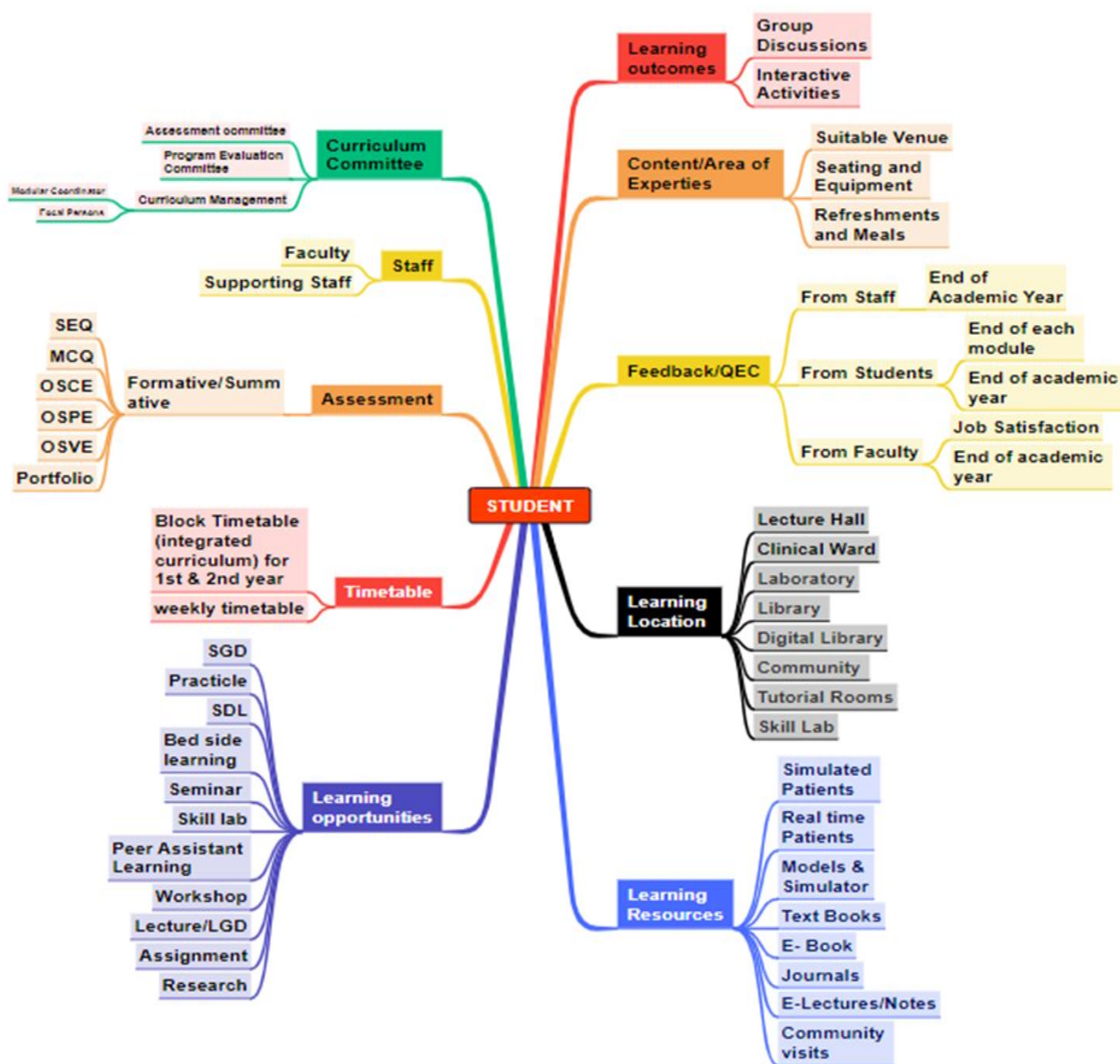
Module Committee

Name	Designation	Department
Prof. Dr. Gulfreen Waheed	Principal & Director	Medical Education
Dr. Saba Iqbal	Associate Professor	Medical Education
Dr Hussain Raza	Assistant Professor	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 Ruof Ahmad	Focal Person	Pathology
Prof. Dr. Asma Saeed	Head	Pharmacology
Dr. Azka	Focal Person	Pharmacology
Prof. Dr. Rana Akhtar	Head	Community Medicine
Prof. Dr. Muhammad Usman Sheikh	Focal Person	Community Medicine
Prof. Dr. Zainab	Head	Forensic Medicine
Prof. Dr. Anwar Sibtain	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	Behavioral Sciences
Dr.Uzma	Focal Person	Pediatrics

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:



Academic Calender:

Avicenna Medical & Dental College Calendar 2025-2026 3rd Year MBBS																															
January 2026							February 2026							March 2026							SESSION START: 2nd March 2026										
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Gazetted Holidays										
				1	2	3	1	2	3	4	5	6	7	Week-01	8	9	10	11	12	13	14	Week-02	15	16	17	18	19	20	21	i- Kashmir Holiday - 5th Feb. 2026	
4	5	6	7	8	9	10	8	9	10	11	12	13	14	Week-02	8	9	10	11	12	13	14	Week-03	15	16	17	18	19	20	21	ii- Eid-ul-Fitr- 19th March - 21st March	
11	12	13	14	15	16	17	15	16	17	18	19	20	21	Week-03	15	16	17	18	19	20	21	Week-04	22	23	24	25	26	27	28	iii- Pakistan Day -23rd March 2026	
18	19	20	21	22	23	24	22	23	24	25	26	27	28	Week-04	22	23	24	25	26	27	28	Week-05	29	30	31					iv- Labor Holiday- 1st May 2026	
25	26	27	28	29	30	31								Week-05	29	30	31					Week-06								v- Eid-ul-Adha- 27th May - 28th May 2026	
April 2026							May 2026							June 2026							June 2026										
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	vi- Youm-e-Takbeer Holiday- 25th May-2026										
			1	2	3	4							1	Week-08							Week-12									vii- Ashura- 25th & 26th June 2026	
Week-04							Week-09	3	4	5	6	7	8	9	Week-13	7	8	9	10	11	12	13	Week-14	14	15	16	17	18	19	20	viii- Independence Day- 1st Aug 2026
Week-05	5	6	7	8	9	10	Week-10	3	4	5	6	7	8	9	Week-13	7	8	9	10	11	12	13	Week-14	14	15	16	17	18	19	20	ix- Milad un Nabi- 25th Aug 2026
Week-06	12	13	14	15	16	17	Week-11	10	11	12	13	14	15	16	Week-14	14	15	16	17	18	19	20	Week-15	21	22	23	24	25	26	27	x- Qaid-e-Azam Day-Christmas- 25th Dec 2026
Week-07	19	20	21	22	23	24	Week-11	17	18	19	20	21	22	23	Week-15	21	22	23	24	25	26	27	Week-16	28	29	30					Vacations
Week-08	26	27	28	29	30		Eid week	24	25	26	27	28	29	30	Week-16	28	29	30					Week-17								Spring Vacations - 16th March - 23rd March
								31																						Summer Vacations - 11th July - 8th Aug 2026	
July 2026							August 2026							September 2026							September 2026										
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Events										
Week-16			1	2	3	4							1	Week-21			1	2	3	4	5	Happiness World TB Day									
Week-17	5	6	7	8	9	10	Summer vacations	2	3	4	5	6	7	8	Week-22	6	7	8	9	10	11	12	World Autism Awareness Day								
Summer vacations	12	13	14	15	16	17	Week-18	9	10	11	12	13	14	15	Week-23	13	14	15	16	17	18	19	World Health Day								
Summer vacations	19	20	21	22	23	24	Week-19	16	17	18	19	20	21	22	Week-24	20	21	22	23	24	25	26	White Coat Ceremony Music Fest - 2026								
Summer vacations	26	27	28	29	30	31	Week-20	23	24	25	26	27	28	29	Week-25	27	28	29	30				Spring Fest								
							Week-21	30	31														World Hand Hygiene Day								
October 2026							November 2026							December 2026							December 2026										
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	World Environment Day										
Week-25				1	2	3	Week-30	1	2	3	4	5	6	7	Week-34			1	2	3	4	5	Fun Fair								
Week-26	4	5	6	7	8	9	Week-31	8	9	10	11	12	13	14	Week-35	6	7	8	9	10	11	12	International Self-Care Day								
Week-27	11	12	13	14	15	16	Week-32	15	16	17	18	19	20	21	Week-36	13	14	15	16	17	18	19	Independence Day								
Week-28	18	19	20	21	22	23	Week-33	22	23	24	25	26	27	28	Week-37	20	21	22	23	24	25	26	Quail & Net Competition								
Week-29	25	26	27	28	29	30	Week-34	29	30						Winter vacation	27	28	29	30	31			Blood Cancer Awareness Day								
January 2027							February 2027							March 2027							March 2027										
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	World First Aid Day										
Week-37					1	2			1	2	3	4	5	6			1	2	3	4	5	6	World Patient Safety Day								
Week-38	3	4	5	6	7	8		7	8	9	10	11	12	13		7	8	9	10	11	12	13	World Heart Day								
Week-39	10	11	12	13	14	15		14	15	16	17	18	19	20		14	15	16	17	18	19	20	Sports Fest - 26								
Week-40	17	18	19	20	21	22		21	22	23	24	25	26	27		21	22	23	24	25	26	27	World Mental Health Day								
	24	25	26	27	28	29		28								28	29	30	31				Breast Cancer Awareness Day								
31																							Talent Hunt & Drum								

Timetable

AVICENNA MEDICAL & DENTAL COLLEGE

Rectangular Snip

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 27		M-23 3rd Year MBBS	SESSION 2025-2026						BLOCK 9		
DATE	DAY		MODULE-21								
12-Oct	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30		12.30-1.30		1:30-3.30	
		LECTURE CARDIOLOGY	LECTURE MEDICINE	LECTURE SURGERY	Break	LECTURE CARDIOLOGY		LECTURE PATHOLOGY		Clinical Rotation-CFRC	
13-Oct	TUE	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	
		Module 20 Exam (Written)			Break	Module 20 Exam (OSPE/VIVA)				Clinical Rotation-CFRC	
14-Oct	WED	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30		12.30-1.30		1:30-3.30	
		LECTURE SURGERY	LECTURE PHARMACOLOGY	LECTURE COMMUNITY MEDICINE	Break	LECTURE SURGERY		PRACTICAL		Clinical Rotation-CFRC	
15-Oct	THU	8.00-9.00	9.00-10.00	10.00-11.00		Break	11.30-12.30		12.30-1.30		1.30-2.30
		LECTURE FOR.MEDICINE	LECTURE PATHOLOGY	LECTURE PHARMACOLOGY	PERLS (Community Medicine)		LECTURE SURGERY		PRACTICAL	PRACTICAL	
16-Oct	FRI	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		
		SPORTS DAY									

AVICENNA MEDICAL & DENTAL COLLEGE

Rectangular Snip

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 28		M-23 3rd Year MBBS	SESSION 2025-2026					BLOCK 9	
DATE	DAY							MODULE-21	
19-Oct	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE PULMONOLOGY	LECTURE SURGERY	LECTURE PATHOLOGY	Break	TUTORIAL	PRACTICAL	Clinical Rotation-CFRC	
20-Oct	TUE	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE SURGERY	LECTURE PULMONOLOGY	LECTURE PHARMACOLOGY		TUTORIAL	PRACTICAL	Clinical Rotation-CFRC	
21-Oct	WED	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE PATHOLOGY	LECTURE PHARMACOLOGY	LECTURE PULMONOLOGY		LECTURE SURGERY	LECTURE COMMUNITY MEDICINE	Clinical Rotation-CFRC	
22-Oct	THU	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30
		LECTURE FOR.MEDICINE	LECTURE PATHOLOGY	LECTURE PHARMACOLOGY		LECTURE PULMONOLOGY	LECTURE SURGERY	TUTORIAL	PRACTICAL
23-Oct	FRI	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	
		LECTURE PHARMACOLOGY	LECTURE FOR.MEDICINE	LECTURE PATHOLOGY	LECTURE COMMUNITY MEDICINE	LECTURE PULMONOLOGY	JUMMA BREAK	PERLs	

AVICENNA MEDICAL & DENTAL COLLEGE

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AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 29		M-23 3rd Year MBBS	SESSION 2025-2026						BLOCK 9
DATE	DAY								MODULE-21
26-Oct	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE SURGERY	LECTURE PULMONOLOGY	LECTURE PATHOLOGY	Break	TUTORIAL	PRACTICAL	Clinical Rotation-CFRC	
27-Oct	TUE	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE COMMUNITY MEDICINE	LECTURE PHARMACOLOGY	LECTURE PULMONOLOGY		TUTORIAL	PRACTICAL	Clinical Rotation-CFRC	
28-Oct	WED	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE PATHOLOGY	LECTURE PHARMACOLOGY	LECTURE COMMUNITY MEDICINE		LECTURE PULMONOLOGY	LECTURE PATHOLOGY	Clinical Rotation-CFRC	
29-Oct	THU	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30
		LECTURE FOR.MEDICINE	LECTURE PATHOLOGY	LECTURE PHARMACOLOGY		LECTURE COMMUNITY MEDICINE	LECTURE PULMONOLOGY	TUTORIAL	PRACTICAL
30-Oct	FRI	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	
		LECTURE PULMONOLOGY	LECTURE FOR.MEDICINE	LECTURE COMMUNITY MEDICINE	LECTURE PATHOLOGY	LECTURE PHARMACOLOGY	JUMMA BREAK	PERLs	

AVICENNA MEDICAL & DENTAL COLLEGE

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AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 30		M-23 3rd Year MBBS	SESSION 2025-2026					BLOCK 9
DATE	DAY							MODULE-21
2-Nov	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30
		LECTURE PULMONOLOGY	LECTURE PHARMACOLOGY	LECTURE COMMUNITY MEDICINE	Break	TUTORIAL	PRACTICAL	Clinical Rotation-CFRC
3-Nov	TUE	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30
		LECTURE PHARMACOLOGY	LECTURE COMMUNITY MEDICINE	LECTURE PULMONOLOGY		TUTORIAL	PRACTICAL	Clinical Rotation-CFRC
4-Nov	WED	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30
		LECTURE PATHOLOGY	LECTURE PULMONOLOGY	LECTURE COMMUNITY MEDICINE		LECTURE PHARMACOLOGY	LECTURE PATHOLOGY	Clinical Rotation-CFRC
5-Nov	THU	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1.30-2.30 2.30-3.30
		LECTURE FOR.MEDICINE	LECTURE PULMONOLOGY	LECTURE PATHOLOGY		LECTURE PULMONOLOGY	LECTURE COMMUNITY MEDICINE	TUTORIAL PRACTICAL
6-Nov	FRI	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
		LECTURE COMMUNITY MEDICINE	LECTURE FOR.MEDICINE	LECTURE PHARMACOLOGY	LECTURE PULMONOLOGY	LECTURE PATHOLOGY	JUMMA BREAK	PERLs (Research Coordinator IT Lab work)

Allocation of Hours

AVICENNA MEDICAL COLLEGE, LAHORE																																										
3RD YEAR MBBS (2025-26)																																										
	PATHOLOGY			PHARMACOLOGY			F.M			COMMUNITY MEDICINE				Surgery		Medicine		Cardio		Pulmo		ORTHO		Radiology		Paeds		Gynae		FAMILY MED	ioche	Physic	B.S	PERL	sitory Writin	Asses ment	Total					
Wk #	Lec	Prac	Tut	Lec	Prac	Tut	Lec	Prac	Tut	Lec	Tut	Field	Prac	Lec	CR	Lec	CR	Lec	CR	Lec	CR	Lec	CR	Lec	CR	Lec	CR	Lec	CR													
BLOCK-7	1	4	1	1	7	1	2	2	1					1		2	2										1						1	2.5			34.5					
	2	4	1	1	7	1	2	2	1					1		2	2										1						1	3.5			34.5					
	3	5	1	1	6	1	2	2	1					1		2																		2.5			27.5					
	4	4	1	1	6	1	2	2	1							2															1	1	1	1.5	1	5	34.5					
	5	6	1	1	10	1	2	2	1							3															1	1	1	1.5			34.5					
	6	5	1	1	11	1	2	2	1							3																		2.5		2	34.5					
	7	4	1	1	6	1	2	2	1							3																		1.5	1	5	34.5					
	8	3	1	1	6	1	2	2	1							1	3	1	3												1					2	28					
	9	6	1	1	8	1	2	2	1							1	2	1	2															2.5	1	2	34.5					
	10	3	1	1	4	1	2	2	1							1	3	2	3															1	1.5	1	7	34.5				
BLOCK-8	11	5	3.7		3			2	1.8		1						1														1			1			14	34.5				
	12	6	1.8		6			2	3.7							1	2	3	2																		1.5			34.5		
	13	5	1.2		4	1.1		2	1.2		2					1	2	2	2																	1	1	5	34.5			
	14	8	1	2	5	1		2	1		2	1				1	2	1	2																		1.5			34.5		
	15	3	2	2	1			1	1		1	1				1	2	1	2																			21				
	16	8	1	2	6			2	2		2	1				2	1	2																				3.5			34.5	
	17	3		2	2		1	2			2					3	2	3	2																	2.5		5	34.5			
	18	4	1	2	1	1			1	1						3	2	1	2																	1	1	1	28			
	19	6	1	2		1	1	2	1							2	5	2																				1.5	1		34.5	
	20	4	1	2	1	1		2	1	1							3	2																			1	2.5			27.5	
BLOCK-9	21	9	2	2	2			3	1	1						2	2	2																				3.5	2		34.5	
	22	9	2	2				2	1	1						2		2																			2.5	1	8	34.5		
	23	6	2	2	1			2	1	1	1					2		2																			2.5		9	34.5		
	24	2	1.8		3	1.8		1	1.9		2					1		2	1	2	1																		14	34.5		
	25	4	1	1	3	1	1	1	1	1	2					3	2	3	2	5	2																	1.5		34.5		
	26	3	1	1	4	1	1	2	1	1	1					1	2	4	2	5	2																	2.5			34.5	
	27	2	1		2	1		1	1		1					4	2	1	2	2	2																1		5	28		
	28	4	1		4	1	1	2	1	1	2	1				4	2		2																			1.5			34.5	
	29	5	1	1	4	1	1	2	1		4	1				1	1		2																			1.5			34.5	
	30	4	1	1	4		1	2	2		5	1					2																					1.5			34.5	
	31	4						2			5		5				2		2																			3			34.5	
	32	2	1.1				1	3	2.4	1	5	1	5			2		2		1																		2			34.5	
	33		1					3	2		6		5	5			2		2		1																		1.5			34.5
	34	1		1		1.1		4	2.4	1	5	1	5			2		2		1																				6	34.5	
	35	2	1.1		1			3	2.4		2		5			1	2	1	2		1	1	1																6	34.5		
	36	1	1			1		1	4	1	1	2	10			1		1	1																			1	1.5	5	34.5	
	37																																								14	14
	154	41.7	35	128	24	28	71	48.8	11	55	10	35	5	35	65	44	74	14	11	19	15	20	18	6	5	2	4	2	4	18	7	2	8	55.5	15	119	1209					
	230.7			180			130.8			105				100		118		25		34		38		11		6		6		18	7	2	8	55.5	15	119						
	PATHOLOGY			PHARMACOLOGY			F.M			COMMUNITY MEDICINE				Surgery		Medicine		Cardio		Pulmo		ORTHO		Radiology		Paeds		Gynae		FAMILY MED	ioche	Physic	B.S	PERL	Expo sitory Writin g	Asses ment						

Modular Outcomes

Module Respiratory II

Block 9 Module 21

- Integrate foundational concepts to address clinical respiratory issues.
- Interpret common respiratory symptoms with accuracy in assessments.
- Outline management plans for prevalent respiratory diseases during case discussions.
- Utilize a problem-solving approach to accurately diagnose respiratory emergencies in simulated scenarios.
- Demonstrate understanding of respiratory tract malignancies and referral criteria by the end of the module.
- Identify the morphological features of common respiratory tract diseases in practical examinations.
- Demonstrate effective communication strategies in patient interactions, evaluated through peer and instructor feedback.

Learning Objectives

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 25	
		DISCIPLINE	TOPIC
Re2-Pa-001	Describe hypersensitivity reaction 1 with clinical examples Describe immune mechanism involved in HSR-I		Hyper-sensitivity reaction (HSR) Type II
Re2-Pa-002	Define & classify asthma Discuss pathogenesis of atopic and non -atopic asthma.		Bronchial asthma
Re2-Pa-003	Define chronic bronchitis Describe the pathogenesis and morphological features of chronic bronchitis and bronchiectasis		Chronic bronchitis
	Define and classify emphysema		

Re2-Pa-004	Describe the pathogenesis and morphological features of emphysema
Re2-Pa-005	Differentiate between obstructive and restrictive pulmonary diseases List the causes of restrictive lung diseases Describe pneumoconiosis with respect to etiology and pathogenesis Enlist asbestos related diseases Describe morphologic features of asbestosis
Re2-Pa-006	Describe various etiological factors of pulmonary pneumonia. Describe morphological features of bronchogenic and lobar pneumonia. Describe four stages of lobar pneumonia Explain the complications associated with pulmonary

Pathology

Emphysema
Restrictive Lung Diseases
Pneumonia

	pneumonia		
Re2-Pa-007	Describe the morphological features of different types of granulomatous inflammation Describe Ghons complex.		Granulomatous Inflammation

	Differentiate between primary and secondary tuberculosis.		
Re2-Pa-008	Describe hypersensitivity reaction IV with clinical examples Describe the immune mechanism involved in HSR IV		Hypersensitivity Reaction (Hsr) Type IV
Re2-Pa-009	Classify pleural tumors Describe features of malignant		Pleural Tumors

	mor phologic mesotheli oma		
Re2-Pa-010	Classify lung tumors Describe etiopathogenesis and morphologic features of lungs Tumors Enumerate paraneoplastic syndromes associated with lung tumors		Lung Tumors
Re2-Pa-011	Classify pulmonary edema according to etiology Describe clinical conditions associated with development of ARDS Describe the pathogenesis of ARDS Describe morphological features of Diffuse alveolar damage (DAD)		Pulmonary Edema & Acute Respiratory Distress Syndrome (ARDS)

Re2-Pa-012	Describe the important morphological features, virulence factors of Mycobacterium tuberculosis with their clinical significance Describe the pathogenesis of Pulmonary tuberculosis Describe the immunity and hypersensitivity against infections by Mycobacterium tuberculosis Extra pulmonary tuberculosis infections	Microbiology	Mycobacterium Tuberculosis
Re2-Pa-013	Describe Corona virus Explain the structure and antigenicity of the virus Describe the pathogenesis of corona virus Discuss the relation with pneumonia	Microbiology	COVID-19
	Enlist organisms producing respiratory tract infections	Microbiology	

	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of organisms causing respiratory tract infections; i. Mycobacterium tuberculosis ii. Streptococcus pneumoniae iii. Mycoplasma pneumoniae iv. Legionella pneumoniae	Microbiology	
	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of organisms causing respiratory tract infections; i. Haemophilus influenzae ii. Klebsiella iii. Corynebacterium diphtheria iv. Bordetella	Microbiology	

Re2-Pa-014	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of organisms causing respiratory tract infections; i. Influenza & para influenza viruses ii. RSV iii. Rhinovirus	Microbiology	Microorganisms producing Respiratory tract infection
	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of organisms causing respiratory tract infections; i. Measles ii. Pneumocystis carinii iii. Aspergillus	Microbiology	

Re2-Pa-015	Describe the important morphological characteristics, biochemical reactions, virulence factors of Bordetella pertussis with their clinical Significance Describe pathogenesis of Bordetella pertussis infections Describe lab diagnosis of Bordetella pertussis infections.	Microbiology	Bordetella Pertussis
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Re2-Pa-016	Describe the important morphological characteristics, biochemical reactions, virulence factors of Streptococcus pneumoniae with their clinical significance Enumerate the diseases caused by Streptococcus Pneumoniae Describe the pathogenesis of lobar Pneumonia caused by S. pneumonia	Microbiology	Streptococcus Pneumoniae
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	Describe the lab investigation of Streptococcus Pneumoniae infections		
Re2-Pa-017	Describe the important morphological characteristics, biochemical reactions, virulence factors of H. influenzae with their clinical significance Describe the pathogenicity of H. influenzae in causation of respiratory tract infections Describe the lab diagnosis of H. influenzae infections	Microbiology	H. Influenza

Re2-Pa-018	Describe the important morphological characteristics, biochemical reactions, virulence factors of <i>Mycoplasma pneumoniae</i> Describe the pathogenesis of atypical pneumonia caused by <i>M. pneumoniae</i> Describe the lab diagnosis of <i>M. pneumoniae</i> infections	Microbiology	<i>Mycoplasma Pneumoniae</i>
Re2-Pa-019	Describe the important morphological characteristics, biochemical reactions, virulence factors of <i>Legionella pneumophila</i> Describe the pathogenesis of atypical pneumonia caused by <i>Legionella pneumophila</i>	Microbiology	<i>Legionella</i>

Re2-Pa-020	Define Chlamydia. Enumerate their medically important species Enumerate the diseases caused by Chlamydia Describe the important morphological characteristics, biochemical reactions, virulence factors of Chlamydia and their clinical significance. Describe the pathogenesis of C. trachomatis, C. pneumoniae, C. psittaci mediated atypical pneumonias	Microbiology	Chlamydiae & Coxiella Laburnetii
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	Describe the lab diagnosis of Chlamydial infections		
Re2-Pa-021	Describe the important morphological characteristics, biochemical reactions, virulence factors of Bacillus anthracis with their clinical significance.	Microbiology	Bacillus Anthracis

	Describe the lab diagnosis of Bacillus anthracis infections.		
Re2-Pa-022	Describe the important morphological characteristics, biochemical reactions, virulence factors of Yersinia pestis and their clinical significance Describe the pathogenesis of plague Describe the lab diagnosis of Yersinia pestis infections	Microbiology	Yersinia Pestis
PHARMACOLOGY			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 17	
		DISCIPLINE	TOPIC

Re2-Ph-001	Classify the drugs used to treat asthma Discuss the role of different drugs in the prevention & treatment of asthma. Describe the mechanism of action & adverse effects of Beta 2 agonists used in asthma. Describe the mechanism of action, actions & adverse effects of Methylxanthines. Describe their mechanism of action, clinical uses and adverse effects of drugs used to treat bronchial asthma. Discuss the roles of corticosteroids in the treatment of bronchial asthma. Define status asthmaticus and its management.	Clinical Pharmacology & Therapeutics	Anti- Asthmatic drugs
Re2-Ph-002	Classify the drugs used for hospital and community- acquired pneumonia Describe the mechanism of action for each class		Drugs for treatment of pneumonia

Re2-Ph-003	Define autacoids. Enlist major histamine receptors. Classify anti-histamine drugs.		Autacoids
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	Describe clinical uses, and toxicity of antihistamines. Classify serotonin agonists & antagonists. Describe the clinical uses, and adverse effects of serotonin agonists & antagonists. Enumerate ergot alkaloids. Describe the mechanism of action, clinical uses, and toxicity of ergot alkaloids. Enlist the types of prostaglandins. Describe the mechanism of action, clinical uses, and adverse effects of prostaglandins.		
SURGERY			
		TOTAL HOURS = 08	

CODE	SPECIFIC LEARNING OUTCOMES	DISCIPLINE	TOPIC
Re2-S-001	Describe mechanism of tension pneumothorax (T.P.) Enlist the causes of T.P. Diagnose tension pneumothorax based on clinical presentation. Outline the steps of treatment of T.P.		Tension Pneumothora x
Re2-S-002	Describe a sucking chest wound. Describe the underlying respiratory physiological changes in flail chest. Define flail chest. Describe mechanism of respiratory sequel of flail chest. Describe the clinical features of flail chest. Describe treatment options in flail chest. Describe steps of management of such wound.		Open Pneumothora x

Re2-S-003	Define surgical emphysema. Enumerate the causes of surgical emphysema. Describe clinical features of Surgical emphysema Describe the steps of management of Surgical emphysema. Enumerate complications.		Surgical emphysema
Re2-S-004	Describe the potential post-operative respiratory complications.		Post Op Respiratory

	Interpret the X-ray findings of post-operative pneumonia. Outline the treatment option of complications. Enlist the causes of diaphragmatic rupture Enumerate the clinical features Describe the x-ray/USG findings Describe the steps of management		Complication s
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Re2-S-005	Define the pulmonary contusions Enumerate the clinical features Describe the steps of management Describe complications of pulmonary contusion.		Lungs Injuries
MEDICINE/PULMONOLOGY			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 19	
		DISCIPLINE	TOPIC
Re2-M-001	Correlate clinical features of bronchial asthma to its pathogenesis Describe investigations of a patient with asthma Enlist features of acute severe asthma Enlist features of life-threatening asthma Discuss the step-wise therapy of stable asthma Discuss the management of acute severe asthma	Pulmonology/ Medicine	Bronchial asthma

Re2-M-002	Define COPD Describe Clinical features of COPD Outline investigation plan of a patient with COPD Describe GOLD staging criteria for COPD Outline the management of acute exacerbation of COPD Describe long term management of COPD Describe criteria for long term oxygen therapy in COPD	Pulmonology/ Medicine	COPD, Chronic bronchitis, Emphysema
Re2-M-003	Enlist the causes of bronchiectasis Describe the clinical features of bronchiectasis Describe investigations of bronchiectasis Enlist the complications of bronchiectasis Describe the management of bronchiectasis	Pulmonology/ Medicine	Bronchiectasis
Re2-M-004	Enlist the causes of ILD Describe the clinical features of interstitial lung diseases	Pulmonology/ Medicine	Interstitial Lung Diseases

	Outline investigation plan of interstitial lung diseases Describe the treatment of interstitial lung diseases		
Re2 - M- 00 5	Describe the epidemiology prevalence and preventive measures of Tuberculosis Describe the epidemiology prevalence and preventive measures of Respiratory infections Describe the epidemiology & Prevention of Pneumoconiosis Describe the epidemiology prevalence and preventive measures of Influenza, Diphtheria, whooping cough, meningococcal meningitis Discuss the efficacy of the BCG vaccine in different populations.	Community Medicine	Preventive Measures

Re2 - M- 00 6	Define pleural effusion Differentiate between exudative and transudative pleural effusion Enlist causes of pleural effusion Describe Clinical features of pleural effusion Describe investigations in a patient with pleural effusion Describe palliative management of recurrent pleural effusion		Pleural Effusion
Re2 - M- 00 7	Define respiratory failure Classify types of respiratory failure Describe clinical features of respiratory failure Describe management of respiratory failure	Pulmonology/ Medicine	Respiratory Failure
Re2 - M- 00 8	Define Etiology, clinical features, investigations, treatment of OSA		Obstructive Sleep Apnea

Re2 - M- 00 9	Enumerate the lab investigations to diagnose Covid 19 Describe the clinical presentation of covid-19 discuss the management protocols to treat covid patient complications Discuss the vaccination and side effect (for COVID)	Pulmonology/ Medicine	COVID-19
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PATHOLOGY			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 4+3	
		DISCIPLINE	TOPIC
Re2-Pa-023	Identify the morphological features of the following: Small cell carcinoma lung, Squamous cell carcinoma lung, Adenocarcinoma lung, Malignant Mesothelioma (Pictorial/slide).	Pathology	Image Session Of Respiratory System-II
Re2-Pa-024	Interpret the laboratory findings of infections Streptococcus Pneumoniae.	Microbiology	Streptococcus Pneumoniae

Re2-Pa-025	Observe/perform Ziehl–Neelsen staining on a sputum sample to detect acid-fast bacilli (Mycobacterium tuberculosis) accurately, following all biosafety and staining protocols.	Microbiology	Mycobacterium Tuberculosis
Re2-Pa-026	Interpret RT-PCR results for SARS-cov-2, identifying positive, negative, and inconclusive reports under supervision.	Microbiology	COVID-19
PHARMACOLOGY			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 02	
		DISCIPLINE	TOPIC
Re2-Ph-004	Write down the prescription writing for the following conditions/diseases: Bronchial Asthma (acute severe/status asthmaticus and chronic), Cough, Allergic Rhinitis and Acute streptococcal Pharyngitis	Clinical Pharmacology & Therapeutics	Prescription Writing
COMMUNITY MEDICINE			

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 02	
		DISCIPLINE	TOPIC
Re2-CM-001	Describe the standard preventive precautions for all patients.	Community Medicine	Isolation Precautions

	Describe the additional precautions for infected patients & for patient requiring single isolated room. Describe the precautions for family members providing care to the patient in hospital & home. Describe the use of face mask, gloves, shoe cover, cap and gown. Recognize the common errors made while using personal protective equipment. Demonstrate the method to wear face mask, gloves, shoe cover, cap and gown & remove them aseptically.		
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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

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.

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%	

YEAR-3		
A.	Block 7 (Foundation-II + Hematopoietic, Immunity & Implant + General Pharmacology + Forensic Medicine & Toxicology-I)	Marks
		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

Avicenna Medical & Dental College
3rd Year MBBS (M-23)
Test Schedule Block-9

We ek	Date	Day	Subject	Test	Topic	Reference
25 th h	29-Sep-26	Tue	All subjects	Lecture	Lecture time divided	
26 th h	Whole Week		Pathology/ Pharmacology / Forensic Med	Tutorial Test		
27 th h	13-Oct-26	Tue	Integrated	Module-20 Exam		
				OSPE+VIVA		
28 th h	Whole Week		Community Med/ Pharmacology / Forensic Med	Tutorial Test		
29 th h	Whole Week		Pathology/ Pharmacology / Community Med	Tutorial Test		
30 th h	Whole Week		Pathology/ Pharmacology / Community Med	Tutorial Test		
31 st	10-Nov-26	Tue	Integrated	Module-21 Exam		
				OSPE+VIVA		
32 nd	Whole Week		Pharmacology / Community Med/ Forensic Med	Tutorial Test		
33 rd	24-Nov-26	Tue	All subjects	Lecture	Lecture time divided	

34th	30-Nov-26	Mon	Medicine & Allied Test Cardiology, Pulmonology)	Grand Test		
34th	2-Dec-26	Wed	Com. Medicine	Grand Test		
34th	4-Dec-26	Fri	Surgery & Allied Test	Grand Test		
35th	7-Dec-26	Mon	Pharmacology	Grand Test		
35th	9-Dec-26	Wed	Pathology	Grand Test		
35th	11-Dec-26	Fri	Forensic Medicine	Grand Test		
36th	17-Dec-26	Thu	Integrated	Module-22 Exam		
				OSPE+VIVA		
37th	21-Dec-26	Mon	Integrated	Block-9 Exam		
	22-Dec-26	Tue		OSPE+VIVA		
End Of Block-9						
Winter Vacations- 23rd Dec- 31st Dec,2026						

Table of Specification

MBBS 3 rd Professional						
Block-9						
Subject	Written Exam		Oral/Practical/Clinical Exam			
	MCQ (1 mark)	Marks	OSPE /OSCE (8 marks each observed)	OSCE (10 marks each observed)	OSVE (14 marks each observed)	Marks
Pharmacology	19	19	02	-	01	30
Pathology	22	22	02	-	-	16
Family Medicine	05	05	-	-	-	-
Community Medicine	42	42	03	-	01	38
Surgery	15	15	-	-	-	-
Medicine	15	15	01	-	-	08
Forensic	20	20	02	-	01	30
Behavioral Sciences	02	02	-	-	-	-
Patient Safety	-	-	-	-	-	-
CFRC	-	-	01	-	-	08
PERLs + Expository	-	-	-	01	-	10
Total	140	140	11 stations x 08 = 88	01 stations x 10 = 10	03 stations x 14=42	140

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

Vinay 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, Vinay Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pocket Companion to Pathologic basis of diseases, Saunders 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 Beverly 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.

Patient 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. DeMaio

Knight B. Simpson's Forensic Medicine.

Knight and Pekka. Principles of Forensic Medicine

Forensic Pathology

Forensic pathology 2nd edition by V.J. DeMaio 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 pediatrics medicine

Islamiyat

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

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

