

AVICENNA MEDICAL & DENTAL COLLEGE



STUDY GUIDE

2026

RESPIRATORY-1

BLOCK-3 MODULE-2



Program: MBBS Integrated Curriculum
Year: 1st Professional Year
Batch No: M-25
Session: 2025-2026

Table of Contents

About Avicenna Medical College	3
Message from the Principal	3
Message from the Chairman	4
Vision & Mission	5
List of Abbreviations	5
Curriculum Framework:	11
Introduction to the Study Guide	12
Objectives of the Study Guide	12
7-Star Doctor Competencies (PMDC)	13
Module Committee	14
Curriculum Map	15
Academic Calender:	16
Time Table:	16
Allocation of Hours	20
Module Outcome	20
MODULE OUTCOMES	20
Learning Objectives	21
Operational Definition	43
Assessment Policy	45
Assessment Criteria and Weighting	46
Assessment Procedures	46
Appeal Process	47
Attendance Requirement & Internal Assessment Criteria	47
Assessment Guidelines	47
Assessment Schedule:	49
Table of Specification	50
Recommended Books & Reading Resources	51
Infrastructure Resources	53

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 Colleg

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

Vision & Mission



Avicenna Medical & Dental College



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

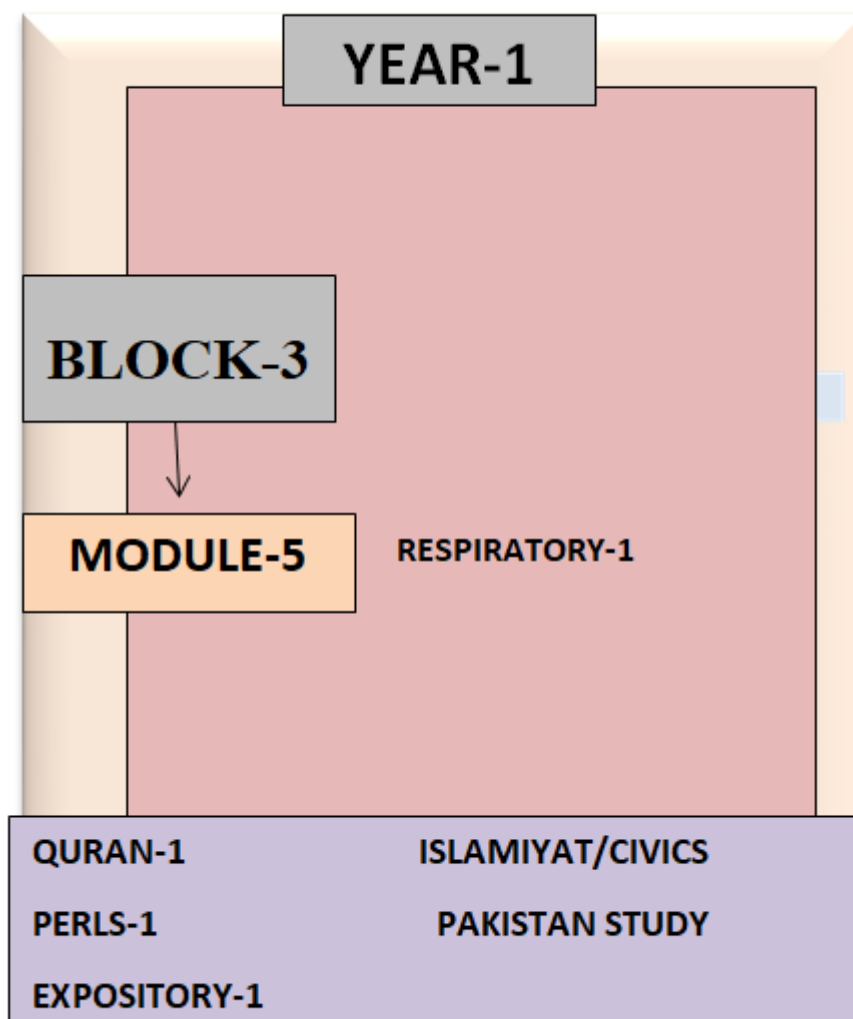
	DCMLS	Dorsal column medial lemniscus system
	DLC	Differential Leukocyte Count
	DMARDs	Disease Modifying Anti Rheumatic Drugs
	DNA	DeoxyRibonucleic Acid
	DOTS	Directly Observed Treatment Short-course
	DTP	Diphtheria, Tetanus, Pertussis
	DVI	Disaster Victim Identification
	DVT	Deep Vein Thrombosis
E	E.coli	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	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
	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 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	ventricular 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.

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. 3 .Community Health Promoter / Community Leader.
4. 4. Critical Thinker / Communicator
5. 5. Professional / Lifelong learner.
6. Scholar / Researcher
7. Leader/ Role Model / Manager

Introduction to Module-5

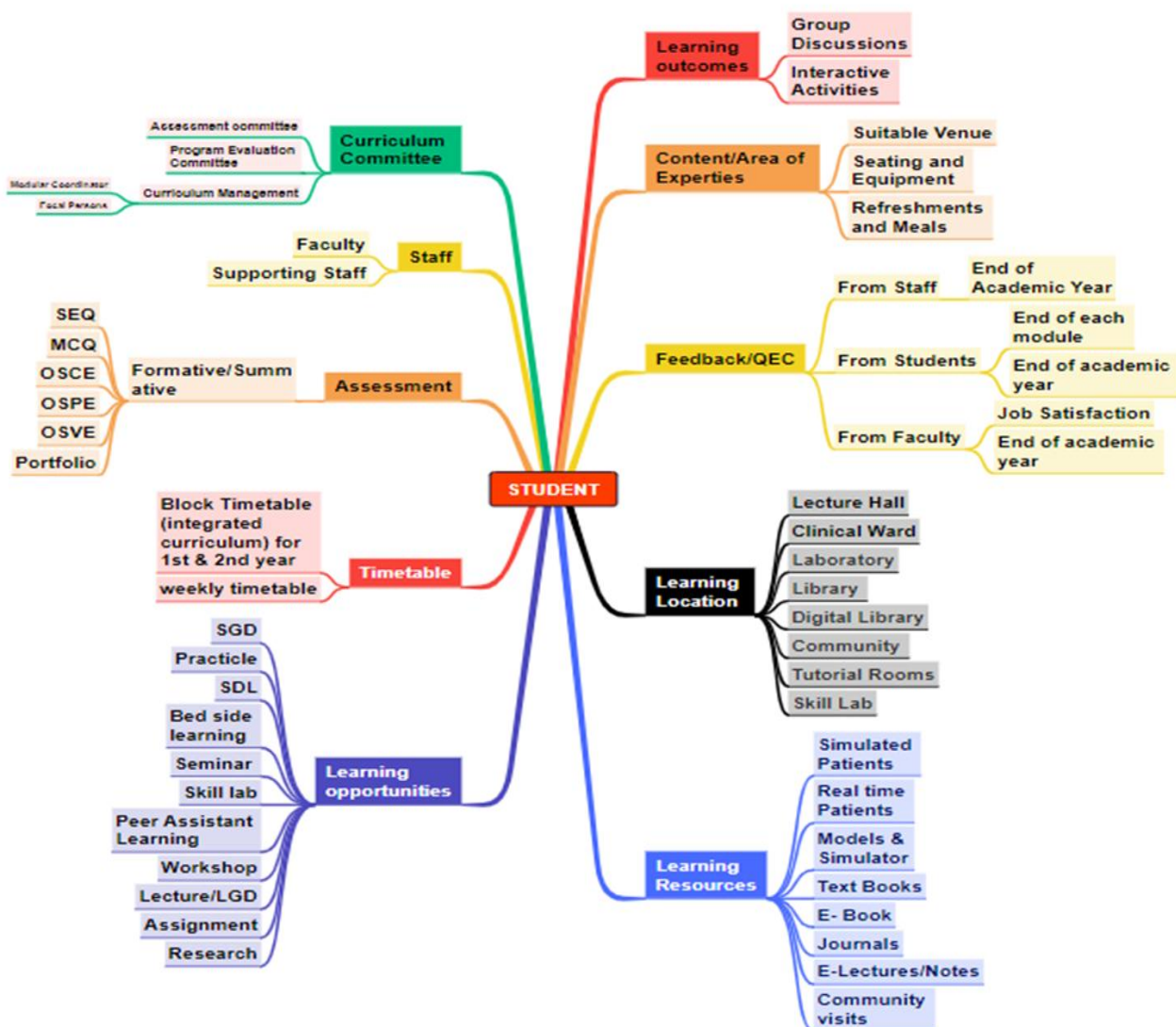
- The module 5 is designed to build upon and consolidate the foundational knowledge acquired in the earlier years of medical education, particularly from the Foundation-I module.
- As students transition into their clinical years, it is crucial to reinforce and deepen their understanding of basic medical 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 Committee

Name	Designation	Department
Prof. Dr. Gulfreen Waheed	Principal & Director DME	Medical Education
Dr. Saba Iqbal	Assistant Professor	Medical Education
Dr. Syed Hussain Raza Zaidi	Assistant Professor	Medical Education
Dr. Ijlal Zehra	HOD	Assessment Cell
Dr. Javaid Shabkhez Rab	Coordinator	Medical Education
Dr. Salar Arsalan	Demonstrator	Medical Education
Dr. Huma Fatima	Demonstrator	Medical Education
Mr. Adeel	Incharge	Student Affairs
Prof. Dr. Saeed Afzal	HOD	Pathology
Dr. Majid	Focal Person	Pathology
Prof. Dr. Asma Saeed	HOD	Pharmacology
Dr. Azka	Focal Person	Pharmacology
Prof. Dr. Rana Akhtar	HOD	Community Medicine
Dr. Usman Sheikh	Focal Person	Community Medicine
Prof. Dr. Zainab	HOD	Forensic Medicine
Dr. Anwar	Focal Person	Forensic Medicine
Prof. Dr. Hassan Khan	HOD	Surgery Unit-1
Prof. Dr. Khalid Nizami	HOD	Surgery Unit-2
Dr. Uzma	Focal Person	General Surgery
Prof. Dr. Muzammil	HOD	Medicine Unit-1
Prof. Dr. Waheed Ahmed	HOD	Medicine Unit-2
Dr. Usman	Focal Person	General Medicine
Dr. Usman Aslam	Focal Person	Psychiatry
Dr. Farhat Mihas	HOD	Behavioural Sciences
Dr. Mavrah Zafar	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:



Academic Calender:

Aricenna Medical & Dental College Calendar First year MBBS 2025- 2026																											
January 2026							February 2026							March 2026							SESSION						
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	START, 9th						
				1	2	3	Orientatio n Week	1	2	3	4	5	6	7	Week-04	1	2	3	4	5	6	7	Gazetted Holidays				
4	5	6	7	8	9	10	Week-01	8	9	10	11	12	13	14	Week-05	8	9	10	11	12	13	14	Holidays: 4th Feb 16th & 17th March 2026				
11	12	13	14	15	16	17	Week-02	15	16	17	18	19	20	21	Week-06	15	16	17	18	19	20	21	iii - Pakistan Day 23rd March				
18	19	20	21	22	23	24	Week-03	22	23	24	25	26	27	28	Week-07	22	23	24	25	26	27	28	iv- Labor Holidays: 1st May v- Eid- Ul- Adha 25th & 26th				
25	26	27	28	29	30	31										29	30	31					vi- Nasim-e-Talibeen vii- Ashura- 25th & 26th June 2026				
April 2026							May 2026							June 2026							viii- Independence Day						
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	ix- Milad un Nabi 25th Aug 2026						
Week-07			1	2	3	4	Week-11					1	2	Week-15		1	2	3	4	5	6	x- Qaid-e-Azam Day/Christmas					
Week-08	5	6	7	8	9	10	Week-12	3	4	5	6	7	8	9	Week-16	7	8	9	10	11	12	13	Vacations				
Week-09	12	13	14	15	16	17	Week-13	10	11	12	13	14	15	16	Week-17	14	15	16	17	18	19	20	Spring Vacations 14th March- 23rd April				
Week-10	19	20	21	22	23	24	Week-14	17	18	19	20	21	22	23	Week-18	21	22	23	24	25	26	27	Summer Vacations: 11th Winter Vacations 10th Dec- 25th				
Week-11	26	27	28	29	30		Eid Week	24	25	26	27	28	29	30	Week-19	28	29	30									
								31																			
July 2026							August 2026							September 2026							Events						
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Annual Dinner 8th April 2026						
Week-19			1	2	3	4							1	Week-24			1	2	3	4	5	White Coat Ceremony: 10th					
Week-20	5	6	7	8	9	10	Week-21	2	3	4	5	6	7	8	Week-25	6	7	8	9	10	11	12	Sports Week 2nd 16th Dec 2026				
Summer Vacations	12	13	14	15	16	17	Week-22	9	10	11	12	13	14	15	Week-26	13	14	15	16	17	18	19	Sports Day 16th Dec 2026				
Summer Vacations	19	20	21	22	23	24	Week-23	16	17	18	19	20	21	22	Week-27	20	21	22	23	24	25	26	Wellness Week 14-21 Nov 2026				
Summer Vacations	26	27	28	29	30	31	Week-24	23	24	25	26	27	28	29	Week-28	27	28	29	30				Module Exam				
								30	31														Module 1 Exam - 13th April 2026				
October 2026							November 2026							December 2026							Module 2 Exam - 6th & 7th Nov 2026						
Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Module 3 Exam - 3rd Feb 2026						
Week-28				1	2	3	Week-33	1	2	3	4	5	6	7	Week-37		1	2	3	4	5	Module 4 Exam - 19th September 2026					
Week-29	4	5	6	7	8	9	Week-34	8	9	10	11	12	13	14	Week-38	6	7	8	9	10	11	12	Module 5 Exam - 4th November				
Week-30	11	12	13	14	15	16	Week-35	15	16	17	18	19	20	21	Week-39	13	14	15	16	17	18	19	Block Exam				
Week-31	18	19	20	21	22	23	Week-36	22	23	24	25	26	27	28	Winter Vacations	20	21	22	23	24	25	26	a-Block:1 Exam- 11th & 12th May				
Week-32	25	26	27	28	29	30	Week-37	29	30							27	28	29	30	31			b-Block:2 Exam- 7th & 8th				

Time Table:

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-28		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # III		MODULE - 05	
28-Sep-26	Mon	08:00 - 10:00		10:00-11:30		11:30 - 1:00		1:00-3:30		3:30 - 5:00	5:00 - 6:00
		MODULE - 04 THEORY		MODULE - 04 OSPE / OSVE BATCH - A		MODULE - 04 OSPE / OSVE BATCH - B		MODULE - 04 OSPE / OSVE BATCH - C		BREAK	CFRC
29-Sep-26	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00	BREAK	12:30-01:30	1:30-2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Anatomy	Lecture Physiology	Lecture Biochemistry	Lecture Physiology		Lecture Pathology	Lecture Community Medicine	Sports & Club Activity		CFRC
30-Sep-26	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00		12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Physiology	Lecture Anatomy	Lecture Physiology	Lecture Anatomy		Lecture Pathology	Lecture Behavioural Science	Sports & Club Activity		CFRC
1-Oct-26	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00-12:00		12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Biochemistry	Lecture Physiology	Lecture Anatomy	Lecture Community Medicine		Lecture Pharmacology	Lecture PERL (ethics)	Sports & Club Activity		CFRC
2-Oct-26	Fri	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00-12:00	12:00-1:00	1:00-2:30		2:30 - 3:30		5:00 - 6:00
		Lecture Medicine Integration	Lecture Anatomy	Lecture Physiology	Lecture Behavioural Science	Sports & Club Activity	JUMMA BREAK		Sports & Club Activity		CFRC

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-29		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # III		MODULE - 05	
5-Oct-26	Mon	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00	BREAK	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00
		Lecture Physiology	Lecture Anatomy	Lecture Biochemistry	Lecture Pharmacology		Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Sports & Club Activity	BREAK	CFRC
6-Oct-26	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00		12:30-01:30	1:30-2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Anatomy	Lecture Physiology	Lecture Community Medicine	Lecture Physiology		Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Sports & Club Activity		CFRC
7-Oct-26	Wed	08:00 - 09:00	09:00 - 10:00	11:00 - 12:00	11:00 - 12:00		12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Physiology	Lecture Anatomy	Lecture Physiology	Lecture Pathology		Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology	Sports & Club Activity		CFRC
8-Oct-26	Thur	08:00 - 09:00	09:00 - 10:00	11:00-12:00	11:00-12:00		12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Biochemistry	Lecture Medicine Integration	Lecture Anatomy	Lecture Physiology		Lecture Behavioural Science	Practical Histology Biochemistry Physiology	Sports & Club Activity		CFRC
9-Oct-26	Fri	08:00 - 09:00	09:00 - 10:00	11:00-12:00	11:00-12:00	12:00-1:00	1:00-2:30		2:30 - 3:30		5:00 - 6:00
		Lecture Anatomy	Lecture Physiology	Lecture PERL (ethics)	Lecture Physiology	Practical Histology Biochemistry Physiology	JUMMA BREAK		Sports & Club Activity		CFRC

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-30		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY			Practicals and Theory				BLOCK # III		MODULE - 05	
12-Oct-26	Mon	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00
		Integrated Formative Assessment 07	Lecture Medicine Integration	Lecture Anatomy	Lecture Physiology	BREAK	Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Sports & Club Activity	BREAK	CFRC
13-Oct-26	Tues	08:00 - 09:00	09:00 - 10:00	11:00 - 12:00	11:00 - 12:00		12:30-01:30	1:30-2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Anatomy	Lecture Physiology	Lecture Community Medicine	Practical Histology Biochemistry Physiology		Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Sports & Club Activity		CFRC
14-Oct-26	Wed	08:00 - 09:00	09:00 - 10:00	11:00 - 12:00	11:00 - 12:00		12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Physiology	Lecture Anatomy	Lecture Physiology	Lecture Pathology		Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology	Sports & Club Activity		CFRC
15-Oct-26	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00-12:00		12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Biochemistry	Lecture Physiology	Lecture PERL (Professionalism)	Lecture Pulomonology Integration		Lecture Pharmacology	Practical Histology Biochemistry Physiology	Sports & Club Activity		CFRC
16-Oct-26	Fri	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00-12:00	12:00-1:00	1:00-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00	
SPORTS DAY											

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-31		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # III		MODULE - 05	
		08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00
19-Oct-26	Mon	Allied Subjects Integrated Formative Assessment	Lecture Medicine Integration	Lecture Anatomy	Lecture Physiology	BREAK	Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Lecture Islamiyat	BREAK	CFRC
20-Oct-26	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00		12:30-01:30	1:30-2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Physiology	Lecture Anatomy	Lecture Physiology	Lecture Biochemistry		Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Computer Science		CFRC
21-Oct-26	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00		12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Anatomy	Lecture Physiology	Lecture Anatomy	Lecture Pathology		Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology			CFRC
22-Oct-26	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00-12:00		12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Physiology	Lecture Anatomy	Lecture Biochemistry	Lecture Community Medicine		Lecture Pharmacology	Practical Histology Biochemistry Physiology			CFRC
23-Oct-26	Fri	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00-12:00	12:00-1:00	1:00-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00	
		Lecture Biochemistry	Lecture Physiology	Lecture Anatomy	Practical Histology Biochemistry Physiology	JUMMA BREAK		Sports & Club Activity	CFRC		

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-32		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # III		MODULE - 05	
		08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00
26-Oct-26	Mon	Lecture Anatomy	Lecture Pathology Integration	Lecture Anatomy	Lecture Physiology	BREAK	Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Lecture Islamiyat	BREAK	CFRC
27-Oct-26	Tues	Lecture Physiology	Lecture Anatomy	Lecture Surgery Integration	Lecture Behavioural Science		Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Computer Science		CFRC
28-Oct-26	Wed	Lecture Biochemistry	Lecture Physiology	Lecture Anatomy	Lecture Pharmacology		Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology			CFRC
29-Oct-26	Thur	Lecture Anatomy	Lecture Physiology	Lecture Pathology	Lecture Medicine Integration		Lecture Community Medicine	Practical Histology Biochemistry Physiology			CFRC
30-Oct-26	Fri	Lecture Medicine Integration	Lecture Anatomy	Lecture Biochemistry	Practical Histology Biochemistry Physiology		JUMMA BREAK		Sports & Club Activity		CFRC
AVICENNA MEDICAL & DENTAL COLLEGE											
AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-33		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # III		MODULE - 05	
		08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00
2-Nov-26	Mon	Lecture Anatomy	Lecture Biochemistry	Lecture Medicine Integration	Lecture Anatomy	BREAK	Lecture PERL (Research)	Clinical Skill	Lecture Pakistan Studies	BREAK	CFRC
3-Nov-26	Tues	Lecture Physiology	Lecture Anatomy	Tutorial Anatomy Biochemistry Physiology	Tutorial Anatomy Biochemistry Physiology		Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Lecture PERL (Research)		CFRC
4-Nov-26	Wed	MODULE - 05 THEORY		MODULE - 05 OSPE / OSVE BATCH - B		MODULE - 05 OSPE / OSVE BATCH - C		MODULE - 05 OSPE / OSVE BATCH - A			CFRC
5-Nov-26	Thur	PREPARATION LEAVE									
6-Nov-26	Fri	BLOCK - III THEORY			Sports & Club Activity	JUMMA BREAK		Sports & Club Activity	BREAK	CFRC	

Allocation of Hours

AVICENNA MEDICAL COLLEGE, LAHORE

1ST YEAR MBBS

	Anatomy			Biochemistry			Physiology			Path		Pharm		Bh.Sc.	C.M.	Clinical Lectures	PERL				Quran	Islamiyat	Pak Std	Clinical Skills	Clinical Rotation	Comp. Sc.	EEW	Sports	Exam	Total
Wk #	Lec	Tut	Prac	Lec	Tut	Prac	Lec	Tut	Prac	Lec	Prac	Lec	Prac				Prof	Ethics	Research	Lead										
1	9		2	5		2	5		2	1				1	1			1				1		2	5	1	1			39
2	8	1	4	4	1	1	5	1	1	1				1	1			1			2		2	5					39	
3	8	1	2	3	1	2	4	1	2	2				1	1			1				1	2	5	1	1			39	
4	5	1	4	5	1		4	1	1	2	1	1		1	1			1			2		2	5				1	39	
5	5	1	2	4	1	1	5	1	2	2		1	1	1	1			1	1		1		2	5	1	1			39	
6	5	1	2	3	1	1	2	1	2	2	1	1		1	1			1	1			1	4						31	
7	5	1	4	3	1		4	1		2		1	2	1	1			1	1	1		2	5	1	1			1	39	
8	5	1	2	4	1	2	4	1	2					1	1			1					2	4				1	32	
9	1		2	7		2	6		2	2				1	1			1			1	1		5				7	39	
10	2		2	9		2	8		2	2		1		1	1					1	1	1		5					39	
11			2	4		2	6		2	1		1			1			1					1	4				7	32	
12	11		1	3		1	3		1					1	2		1						5					10	39	
13	14	1	2	3	1	1	3	1	1	1				1	2			1					2	5					39	
14	16	1	2	3	1	1	3	1		1			1	1	2					1				5					39	
15	17	1	2	3	1		2	1		1	1	1	1		2					1				5					39	
16	15	1	1	2	1	1	2	1		1	1	1	1		2								2	5				1	39	
17	16	4		2	2		3	2		1		1			2			1						5					39	
18	8	2		2	2		3	2		1		1											3						24	
19	6	4		3	2		3	2		1					2	3							2	5				6	39	
20	3	1	1	3	1	1	6	1	1					1						1		1		5	2	1		10	39	
21	3	1	1	3	1	1	8	1	1					1	1		2			1	1		2	4					32	
22	3	1	1	2	1	1	9	1	1	2		1			2			1			2	1	1	2	5	1	1		39	
23	2	1	1	2	1	1	6	1	1	2		1			2					2	2	1	1	4					31	
24	3	1	1	2	1	1	9	1	1	1		1			2					1	1	1	2	2	5	1	1		39	
25	2	1	2	2	1	2	6	1	2	2	2	1			2					2	2	1		2	5	1			39	
26	3	1	2	1	1	2	8	1	2	1			2		1				1		2	1		2	5	1	1		39	
27	5	1	1	2	1	1	9	1	1	1		1			1					1	1	2	2	5	1	1		1	39	
28	5			2			7			2		1		2	2			1						5				5	7	39
29	5	1	1	2	1	1	9	1	1	1		1		1	1			1					2	5				5	39	
30	3	1	1	1	1	1	7	1	1	1		1			1		1						2	4			11	1	39	
31	6	1	2	3	1	2	7	1	2	1		1			1						1		2	5	1		1	1	39	
32	6	1	2	2	1	2	8	1	2	1		1		1	1						1		2	5	1		1		39	
33	3	1		1	1		2	1								1		1				1	2	4				3	10	31
34																													20	20
35																													20	20
36																													20	20
37																													20	20
	208	34	52	100	30	35	176	30	36	39	6	20	8	19	42	3	8	6	5	12	22	12	12	42	156	13	9	26	146	1307
	AL	AT	AP	BL	BT	BP	PL	PT	PP	PtL	PtP	PhL	PhP	Bh.Sc.	C.M.	Clin Lec	Prof	Ethics	Research	Lead	Quran	Isl	PS	Clin Sk	Clin Rota	CS	EEW	Sports	Exam	1161
	242	52		130	35		206	36		45		28							31										66	
	294			165			242																							1227

Module Outcome

MODULE OUTCOMES

- Describe the microscopic features of nerve cells, muscle cells, general features of epithelia of the body.
- Appraise the functional characteristics of various components of cell membrane and organelles of cell.
- Differentiate between the dynamics of various transport mechanisms along the cell membrane.
- Compare the functional differences between RBCs, WBCs and blood groups.
- Explain the significance of homeostatic mechanisms in keeping body's internal environment nearly constant.
- Appraise the formation and functions of autonomic nervous system.
- Correlate the structural design of each organ to its function.

- Acquire information about the different fascial planes in the different regions of the body & their surgical importance.
- Use descriptive anatomical terms of position to describe the different body structures in relation to each other.
- Describe the movements of body using proper anatomical terms of movement.
- Describe and demonstrate the various bony landmarks.
- Describe the types of joints and correlate them to the mechanisms of movement.
- Classify the bone, joints and muscles based on the structure, function, phylogenetic origin.
- Describe the structures associated with muscles and explain their functional correlations.
- Classify and describe the cardiovascular system and correlate it functionally.
- Amplify the anatomical basis for radiological, cross-sectional, anatomy.
- Correlate clinicopathologically the apoptosis in health & diseases.

Learning Objectives

NORMAL STRUCTURE			
GROSS ANATOMY			
CO DE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 24	
		DISCIPLINE	TOPIC
Re-A-001	Give the boundaries of thoracic cavity, superior and inferior thoracic apertures and list the structures contained/ traversing them.	Human Anatomy	Thoracic Cavity
	Describe the anatomical correlates of Thoracic outlet syndrome	Integrate with Surgery	
	Identify and differentiate the typical from atypical ribs.	Human Anatomy	
	Describe the anatomical features of ribs		

Re-A-002	Describe the anatomical correlates of supernumerary cervical rib.	Integrate with Surgery	Rib Cage
	Classify the articulations of the ribs.	Human Anatomy	
	Describe the anatomical features of these articulations.		
	Describe the movements with the muscles producing articulations.	Human Anatomy	
	Describe the effects of fracture to the neck of rib and give its anatomical justification	Integrate with Orthopedics	
	Describe the anatomical correlates of Flail Chest.		
Re-A-003	Describe the anatomical correlates of Thoracotomy	Integrate with Surgery	Intercostal space
	Define the attachments, relations, nerve supply and actions of intercostal muscles	Human Anatomy	
	Define an intercostal space and give details of its contents		
Re-A-004	Describe the anatomical features of typical & atypical thoracic vertebrae.	Human Anatomy	Thoracic Vertebrae
	Differentiate between typical and atypical vertebrae		
	Explain the thoracic part of the vertebral column (normal curvature, intervertebral joints & fascia of the back, blood supply, lymphatic drainage, nerve supply of back) Associated Clinical conditions -Kyphosis, Scoliosis		
Re-A-005	Describe the bony features of the sternum	Human Anatomy	Sternum

	Describe the anatomical correlates of sternal biopsy. and sternotomy	Integrate with Surgery	
	Describe the presentation of sternal fractures and correlate it anatomically	Integrate with Orthopedics	
Re-A-006	Define endo thoracic fascia	Human Anatomy	Connective tissue of Thorax
	Describe the supra-pleural membrane with its attachments.		
Re-A-007	Classify the joints of the thorax mentioning their articulations, movements with the muscle producing them.		Joints of Thorax
	Describe the mechanics of inspiration and expiration		
Re-A-008	Describe the origin, course, relations and distribution of intercostal nerves and vessels		Neurovascular supply of Thorax
	Describe the alternate routes of venous drainage in blockage of superior/ inferior vena cava		
	Describe the cutaneous nerve supply and dermatomes of thorax.	Integrate with	

Re-A-009		Medicine	
	Give anatomical justification of the manifestations of herpes zoster infection on thoracic wall.	Human Anatomy	Cutaneous nerve supply of Thorax
	Discuss anatomical correlates of intercostal nerve block	Integrate with Medicine	
Re-A-010	Describe the anatomical features of the Trachea with its extent, relations, neurovascular supply and lymphatics.	Human Anatomy	Trachea
Re-A-011	Name the parts of diaphragm mentioning their attachments and neurovascular supply	Integrate with Anesthesia	Diaphragm
	Explain the role of diaphragm in respiration	Human Anatomy	
	Enumerate the diaphragmatic apertures with their vertebral levels, mentioning the structures traversing them.		
Re-A-012	Describe the pleura giving its parts, layers, neurovascular supply, and lymphatic drainage		Pleural cavity
	Describe the pleural cavity giving its recesses and the lines of pleural reflection		

	Describe the anatomical correlates of pleural pain pleurisy, pneumothorax, pleural effusion	Human Anatomy	
	Describe the anatomical features, relations of lungs	Integrate with Medicine	
Re-A-013	Describe the neurovascular supply and lymphatic drainage of lungs.	Human Anatomy	Lungs
	Compare and contrast the anatomical features and relations of right and left lung		
	Describe the root of the lung and pulmonary ligament with arrangement of structures at the hilum		
	Define Bronchopulmonary segments. Give their vascular supply, lymphatic drainage and clinical significance		
	Describe the anatomical correlates of chest tube intubation	Integrate with Surgery	
	Describe the anatomical correlates of thoracentesis		
	Describe the anatomical correlates of bronchoscopy	Integrate with Pulmonology	
	Describe the anatomical basis for medicolegal significance of lungs in determining the viability of newborn	Integrate with Forensic Medicine	
	Identify various anatomical landmarks on chest X-Rays, CT and MRI	Integrate with Radiology	

EMBRYOLOGY & POST-NATAL DEVELOPMENT			
C O D E	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 05	
		DISCIPLI NE	TOPI C
Re-A-014	Describe the development of ribs, sternum, and thoracic vertebrae. Give the associated congenital malformations	Human Embryology	Bony components of Thoracic cavity
Re-A-015	Describe the developmental process of Vertebral Column		Development of Vertebral Column
Re-A-016	List the embryological sources of the diaphragm. Describe the events taking place in the development and descent of the diaphragm	Human Embryology	Diaphragm & Thoracic cavity
	Describe the development of Thoracic cavities (Pleural and Pericardial cavities)	Integrate with Pediatrics	
Re-A-017	Describe the development of trachea.	Human Embryology	Upper Respiratory Tract
	Describe congenital anomalies of Trachea-Tracheoesophageal fistulas of different types	Integrate with Pediatrics	

Re-A-018	List the phases of lung development with their time periods. Describe the events taking place in each phase	Human Embryology	Lungs
	Describe the embryological basis of respiratory distress syndrome/Hyaline membrane disease,Ectopic Lung lobes, Congenital cysts of Lung	Integrate with Pediatrics	
MICROSCOPIC STRUCTURE			
C O D E	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 04	
		DISCIPLINE	TOPIC
Re-A-019	Give the general histological organization of respiratory system.	Histology	Organization of respiratory system
Re-A-020	Describe the microscopic features of respiratory epithelium & Olfactory epithelium	Histology	Respiratory epithelium
Re-A-021	Describe histology of Nasopharynx	Histology	N
Re-A-022	Describe the histological features of epiglottis and larynx	Histology	Epiglottis & larynx

R e- A- 0 2 3	Describe the histological features of trachea and lungs Describe histology of blood-air barrier	Histol ogy	Tra che a & lun gs blo od- air bar rier
R e- A- 0 2 4	Explain the histological basis of: 1. Laryngitis 2. Singer's nodules 3. Emphysema 4. Pneumonia 5. Atelectasis 1. Infant respiratory distress syndrome	Integr ate with Path ology	Clin ical corre lates

NORMAL FUNCTION			
MEDICAL PHYSIOLOGY			
COD E	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 45	
		DISCIPLINE	TOPIC
	Enlist the muscles of inspiration and expiration in quiet breathing	Integrate with Anatom y	
	Enlist the muscles of inspiration and expiration in labored breathing		
	Explain the components of the work of breathing		

Re-P-001	Discuss the mechanics of pulmonary ventilation	Medical Physiology	Breathing
	Explain periodic breathing		
	Explain the causes and pathophysiology of sleep apnea	Integrate with medicine	
Re-P-002	Define and explain lung compliance	Medical Physiology	Lung Compliance
	Enlist the factors that affect lung compliance		
	Draw the compliance diagram of air filled and saline filled lungs		
	Enlist the components of surfactant		
	Describe the role of surfactant in lung compliance		
	Explain the role of surfactant in premature babies	Integrate with Pediatrics	
Re-P-003	Define the different lung volumes and capacities and their clinical significance	Medical Physiology	Lung volumes and Capacities
	Discuss Forced Expiratory Volume 1/ Forced Vital Capacity (FEV1/FVC) ratio and its clinical significance		
	Enlist the lung volumes and capacities that cannot be measured by spirometer.		
	Define dead space & explain its types		
	Discuss FEV1/FVC ratio in relation to Bronchial Asthma.	Integrate with Pulmonology	
	Discuss FEV1/FVC ratio in relation to Chronic Obstructive Pulmonary disease/restrictive lung diseases		
	Discuss Forced Expiratory Volume 1/ Forced Vital Capacity (FEV1/FVC) ratio in relation to pulmonary embolism	Integrate with medicine	

Re-P-004	Define alveolar ventilation.	Medical Physiology	Pulmonary ventilation
	Define minute respiratory volume		
	Describe the pressures in the pulmonary system.		
Re-P-005	Describe the blood volume of the Lungs	Medical Physiology	Pulmonary Circulation
	Describe the distribution and regulation of blood flow through the lungs.		
	Describe the mechanics of blood flow in the three blood flow zones of the lung		
	Describe the effect of heavy exercise on pulmonary arterial pressure.		
	Describe the function of pulmonary circulation when left atrial pressure rises as a result of left-sided heart failure.		
	Explain pulmonary capillary dynamics.		
Re-P-006	Discuss pathophysiology and common causes of pulmonary edema	Medical Physiology	Pulmonary Edema, and Pleural Fluid
	Explain the safety factors that prevent pulmonary edema.		
	Explain the physiological basis of the presence of fluid normally in the pleural cavity.		
	Define pleural effusion and give its causes.		
	Explain the ultrastructure of respiratory membrane		
	Discuss the factors affecting diffusion of gases across the respiratory membrane		
	Explain the diffusion capacity of respiratory membrane for oxygen and carbon dioxide		

Re-P-007	Define alveolar, pleural and transpulmonary pressure.	Medical Physiology	Principles of Gaseous Exchange
	Explain differences in the partial pressures of atmospheric, humidified, alveolar air and explain physiological basis of change in each pressure		
Re-P-008	Explain the different forms of transport of oxygen in the blood	Medical Physiology	Transport of oxygen in the blood
Re-P-009	Draw and explain oxyhemoglobin dissociation curve		oxyhemoglobin dissociation curve &
	Enlist the factors that cause the rightward shift of oxyhemoglobin dissociation curve		

	Enlist the factors that cause the leftward shift of oxyhemoglobin dissociation curve		oxyhemoglobin dissociation curve & Bohr's effect & Cyanosis
	Discuss the P50 in relation to oxygen hemoglobin dissociation curve		
	Explain the Bohr's effect		
	Define, enlist the types and causes of cyanosis	Integrate with Medicine	
Re-P-010	Enlist different forms in which Carbon dioxide CO ₂ is transported in the blood	Medical Physiology	Transport of CO ₂ in blood
	Explain carboxyhemoglobin dissociation curve		
	Explain the Haldane effect		
	Explain the chloride shift/Hamburger phenomenon		
	Define the respiratory exchange ratio (RER)		

Re-P-011	Explain the alveolar oxygen and carbon dioxide pressure when Pulmonary ventilation (V) and Perfusion (Q), VA/Q= infinity, zero, and normal	Medical Physiology	VA/Q (ventilation perfusion ratio)
	Explain the concept of physiological shunt when VA/Q ratio is above normal		
	Explain the concept of physiological dead space when VA/Q ratio is above normal		
Re-P-012	Enlist the respiratory and non-respiratory functions of the lung	Medical Physiology	Protective reflexes
	Explain the nervous control of bronchiolar musculature		
	Trace the reflex arc of cough reflex and sneeze reflex		
Re-P-013	Explain the principle means by which acclimatization occurs	Medical Physiology	Aviation and space
	Explain the events that occur during acute mountain sickness		
	Enlist the features of chronic mountain sickness		
Re-P-014	Explain the pathophysiology, features, prevention and treatment of decompression sickness.	Medical Physiology	Deep diving

Re-P-015	Draw and explain the effect of CO poisoning on oxyhemoglobin dissociation curve	Medical Physiology	Carbon monoxide poisoning
	Explain the pathophysiology, features, and treatment of CO poisoning.	Integrate with Medicine	

Re-P-016	Enumerate the components of respiratory centers and explain their functions.	Medical Physiology	Nervous regulation of respiration
	Explain the inspiratory RAMP signal		
	Explain the Herring Breuer reflex/lung inflation reflex and its clinical significance		
Re-P-017	Explain the location of chemo sensitive area (central chemoreceptors) and peripheral chemoreceptors	Medical Physiology	Chemical control of respiration
	Explain the effect of hydrogen ions & carbon dioxide on the chemo- sensitive area		
	Explain the role of oxygen in the control of respiration/peripheral chemoreceptors		
Re-P-018	Explain the regulation of Respiration during Exercise	Medical Physiology	Exercise and Respiration
Re-P-019	Enlist the effects of acute hypoxia	Medical Physiology	Hypoxia
	Explain the hypoxia inducible factor a master switch for body response to hypoxia		
	Define and explain different types of hypoxias	Integrate with Medicine	

Re-P-021	Discuss the bacteria and viruses that cause Pneumonia	Integrate with microbiology	Pneumonia
Re-P-022	Define Dyspnea	General Medicine	Dyspnea
	Enlist different causes of dyspnea		
	Differentiate between cardiac and respiratory dyspnea		
	Outline management strategies for dyspnea		
Re-P-023	Explain the pathophysiology of emphysema	Integrate with pathology	emphysema
Re-P-024	Explain the pathophysiology of Atelectasis.		Atelectasis
Re-P-025	Enlist the causes of Pneumothorax	General Medicine	Pn
	Describe the signs and symptoms of Pneumothorax		
Re-P-026	Enlist the causes of Pleuritis		Pleuritis
	Describe the signs and symptoms of Pleuritis		
	Discuss the management of Pleuritis		
Re-P-027	Enlist the causes of Bronchitis	Integration with General Medicine	Bronchitis
	Discuss the signs and symptoms of Bronchitis		
	Discuss the management of Bronchitis		

Re-P-028	Classify different types of pneumonia		Pneumonia
	Discuss the sign symptoms of pneumonia		
	Discuss the management of pneumonia		

Re-P-029	Classify different types of asthma		Asthma
	Discuss the signs and symptoms of asthma		
	Discuss the management of asthma		
Re-P-030	Classify different types of Tuberculosis		Tuberculosis
	Discuss the signs and symptoms of tuberculosis		
	Discuss the management of Tuberculosis		
Re-P-031	Classify different types of acute respiratory distress syndrome	Integration with General Medicine	Acute respiratory distress syndrome
	Discuss the signs and symptoms of acute respiratory distress syndrome		
	Discuss the management of acute respiratory distress syndrome		
Re-P-032	Define respiratory failure	Integration with General Medicine	Respiratory Failure
	Describe various types of respiratory failure		
	Enlist various causes of respiratory failure		
	Outline management strategies of respiratory failure		
Re-P-033	Describe ABC in a trauma patient	Integration with Surgery	First Aid in Surgical Patients
MEDICAL BIOCHEMISTRY			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 14	
		DISCIPLINE	TOPIC

Re-B-001	Describe the biochemical basis of emphysema, Chronic obstructive pulmonary disease (COPD) and cystic fibrosis	Medical Biochemistry	Genetic defects
	Explain and interpret the pedigree of single gene defect i.e., Emphysema and cystic fibrosis (autosomal recessive)		
	Discuss the biochemical basis of Respiratory Distress syndrome		
Re-B-002	Describe ionization of water and elaborate its significance. Discuss water and electrolyte balance in health and disease.	Integrate with Physiology	Water, pH, Buffers/ Ionization of water

Re-B-003	Define pH and describe the concept of pH scale.		Water, pH, Buffers/ pH and pH scale
Re-B-004	Define weak acids and conjugate base.		Water, pH, Buffers/ weak acids and their significance

Re-B-005	Define K_a and pK_a and give their significance.		Water, pH, Buffers/ K_a And pK_a
Re-B-006	Describe Henderson-Hasselbach (HH) equation. (no derivation required) along with its application/use. Interpret the titration curve for amino acids (alanine, histidine& acetic acid)		Water, pH, Buffers/ HH equation and its applications
Re-B-007	Define buffers. Enumerate the component of a buffers system and describe their mechanism of action. Enlist important buffers present in blood, plasma, ECF (Extra Cellular Fluid), ICF (Intra Cellular Fluid) and renal tubular fluid. Elaborate the working of bicarbonate buffer and phosphate buffer.		Water, pH, Buffers/ HH equation and its applications
Re-B-008	Elaborate the role of lungs in the regulation of acid base balance.		Acid Base balance and imbalance/ Lung mechanisms for pH regulation

Re-B-009	Elaborate the concept of 1 st , 2 nd and 3 rd line of defense against changes in H ⁺ ion concentration.	Biochemistry	Acid Base balance and imbalance/ Defense mechanisms against changes in H ⁺ concentration
----------	---	--------------	---

Re-B-010	Discuss the concept of acid base balance	Medical Biochemistry	Acid base balance
PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS			
THEORY			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 5+3=08	
		DISCIPLINE	TOPIC
Re-Ph-001	Classify the drugs for cough suppression & expectoration	Pharmacology & Therapeutics	Cough Suppressants
	Explain the mechanism of action and adverse effects of cough suppressants		
Re-Ph-002	Explain the mechanism of action and adverse effects of anti-asthmatics		anti-asthmatics

Re-Ph-003	Classify anti-histamines		Anti asthmatics
Re-Pa-001	Describe the pathophysiology of acute respiratory distress syndrome	Pathology	Acute Respirato ry Distress Syndrome
Re-Pa-002	Give the salient features of Obstructive and Restrictive Lung diseases.		Obstructiv e lung Disease
Re-Pa-003	Tabulate the differences between Obstructive and Restrictive lung diseases		Restrictive Lung Disease

DISEASE PREVENTION & IMPACT

CODE	COMMUNITY MEDICINE & BEHAVIORAL SCIENCES	TOTAL HOURS = 10	
	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	TOPIC
Re- C M- 00 1	Identify the common risk factors of acute respiratory infections with emphasis on smoking	Communi ty Medicine and Public Health	Prevention of acute Respiratory Infections (ARI)
	Discuss preventive strategies of different problems related to respiratory system		
	Enlist the common vaccines used for the prevention of ARI		
	Explain the role of vitamins in the respiratory tract infections	Integrate with Biochemistr y	

Re-CM-002	Explain the effect of air pollutants on the respiratory system		Interactio n of environm ent & Respirator y System
-----------	--	--	--

Re-CM-003	Describe the burden of respiratory diseases	Community Medicine and Public Health	Epidemiology of respiratory Diseases
Re-CM-004	Enlist the common respiratory diseases related to occupation		Occupational Lung Diseases
Re-BhS-001	identify the psychosocial factors leading to dyspnea.	Behavioral Sciences	Dyspnea
Re-BhS-002	Identify the psychosocial factors leading to psychogenic cough.		Psychogenic Cough
Re-BhS-003	Identify and deal with the various psychosocial aspects of Respiratory conditions (such as Asthma, COPD, Tuberculosis, Cystic Fibrosis, Sleep Apnea) on Individual, Family and Society.		Personal, Psychosocial and vocational issues
AGING			
THEORY			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 03	
		DISCIPLINE	TOPIC
Re-Ag-001	Discuss the microbiological basis of respiratory infections in old age in cold weather	Microbiology	Respiratory infections in old age
	Discuss how aging impairs respiratory clearance, increasing inflammation and infection risk.	Pathology	Increased vulnerability to infection

Re-Ag-002	Describe the biochemical basis of emphysema, COPD and cystic fibrosis	Chemical Pathology	Respiratory diseases
-----------	---	--------------------	----------------------

HISTOLOGY			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 05	
		DISCIPLINE	TOPIC
Re-A-025	Identify, draw and label the histologic sections of epiglottis and larynx.	Histology	Epiglottis & Larynx
Re-A-026	Describe the histological features of bronchial tree: trachea, bronchi, bronchioles, alveoli		Trachea & Organization of Respiratory System
Re-A-027	Identify, draw and label the histological sections of bronchial tree: trachea, bronchi, bronchioles, alveoli, Lung		Bronchial tree & Lung
	Describe the mucosal changes encountered in the trachea-bronchial tree		
	Compare and contrast the histological features of various components of bronchial tree: trachea, bronchi, bronchioles, alveoli.		
Re-A-028	Describe, compare and contrast the light and electron microscopic features of type I and type II pneumocytes		Pneumocytes

PHYSIOLOGY			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 06	
		DISCIPLINE	TOPIC
Re-P-034	Perform the clinical examination of chest for the respiratory system (inspection, palpation, percussion, Auscultation)	Medical Physiology	Clinical Examination of Chest
Re-P-035	Determine lung volumes and capacities with a spirometer.		Lung volume & capacities
Re-P-036	Determine Blood Oxygen Saturation with finger Pulse Oximeter		Oxygen Saturation

Re-P-037	Determine Peak Expiratory Flow rate.		Peak Expiratory Flow rate
Re-P-038	Perform Cardio pulmonary Resuscitation (CPR) on adult and infant.		CPR
BIOCHEMISTRY			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 04	
		DISCIPLINE	TOPIC
Re-B-011	Determine the pH of the solution by pH meter	Medical Biochemistry	Determination of pH

Re-B-012	Interpret metabolic and respiratory disorders of acid base balance on the basis of sign, symptoms and ABG findings	Biochemistry	Acid base balance Interpretations
----------	--	--------------	-----------------------------------

Operational Definition

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

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%	

MBBS YEAR-1						
SUBJECT	THEORY		PRACTICAL			TOTAL
Block-3 Modules (CARDIOAVASCULAR-1 & RESPIRATORY-1)	Part 1 MCQs (140)	140 marks	Practical/Clinical examination	011 OSPE 02 OSCE 03 OSVE	Marks 88 10 42	350
	Internal Assessment 10%	35 Marks	Internal Assessment 10%	35 Marks		
	Total	175	Total	175		

INTERNAL ASSESSMENT

It shall constitute 20% of the total assessment at the end of the academic year.

	Scoring Parameter	Weightage (Percentage)
Theory 10 %	Attendance	75% attendance -1 % >85% attendance -2 %
	Block Exam	5 %
	Continuous assessment	3 %
Practical 10 %	Attendance	75% attendance -1 % >85% attendance -2 %
	Block Exam (OSCE / OSPE / OSVE / Short case)	5 %
	Portfolio-clinical logbooks (CFRC / PERLs / Clinical Clerkship)	3 %

Assessment Schedule:

1st Year MBBS – Exam Schedule – 2026/27

Date	Assessment
2 nd March 2026	IFT 1
30 th March 2026	IFT 2
6 th April 2026	Allied subjects' exam
13 th April 2026	Module Exam 1
6 th May 2026	Module Exam 2
11 th May 2026	Block 1 Exam Written
12 th May 2026	Block 1 Exam OSPE/Viva
8 th June 2026	IFT 3
30 th June 2026	IFT 4
3 rd July 2026	Module Exam 3
7 th July 2026	Block 2 Exam Written
8 th July 2026	Block 2 Exam OSPE/Viva
31 st August 2026	IFT 5
14 th September 2026	IFT 6
21 st September 2026	Allied subjects' exam
28 th September 2026	Module Exam 4

12 th October 2026	IFT 7
19 th October 2026	Allied subjects' exam
4 th November 2026	Module Exam 5
6 th November 2026	Block 3 Exam Written
9 th November 2026	Block 3 Exam OSPE/Viva
11 th November 2026	Internal Assessment Test 1
13 th November 2026	Internal Assessment Test 2
16 th November 2026	Internal Assessment Test 3
18 th November 2026	Internal Assessment Test 4
20 th November 2026	Internal Assessment Test 5
23 rd November 2026	Send up Block 1 Written
24 th November 2026	Send up Block 1 OSPE/Viva
27 th November 2026	Send up Block 2 Written
30 th November 2026	Send up Block 2 OSPE/Viva
3 rd December 2026	Send up Block 3 Written
4 th December 2026	Send up Block 3 OSPE/Viva

Table of Specification

MBBS 1st Professional

Block-3

Theme	Subject	Written Exam		Oral/Practical/Clinical Exam			
		MCQ (1 mark)	Marks	OSPE (8 marks each observed)	OSCE (5 marks each observed)	OSVE (14 marks each observed)	Marks
Normal Structure	Anatomy applied/clinical	32	32	03	-	01	38
Normal Function	Physiology applied/clinical	51	51	04	-	01	46
	Biochemistry applied/clinical	29	29	02	-	01	30
Disease Burden & Prevention	Community Medicine & Public Health	06	06	-	-	-	-
	Behavioral Sciences	02	02	-	-	-	-
Pathophysiology & pharmacotherapeutics	Pathology	15	15	01	-	-	08
	Pharmacology	05	05	01	-	-	08
CFRC	CF-I	-	-	-	01	-	05
PERLs	PERLs-I	-	-	-	01	-	05
Total		140	140	011 stations x 08 = 88	02 stations x 05 = 10	03 stations x 14=42	140

Mandatory workshop

First year MBBS – CFR/BLS Workshop Schedule

All First year Cardiac First Response / Basic Life Support Mandatory Workshop schedule as follows:

Date	Day	Time	Batch	Venue	Facilitators
4 th April 2026	Saturday	8:30 am to 2:30 pm	Batch A	Skills Lab	Prof. Ameena & Ms. Mahwish /PGR
11 th April 2026	Saturday	8:30 am to 2:30 pm	Batch B	Skills Lab	Dr. Asad & Ms. Mahwish /PGR
18 th April 2026	Saturday	8:30 am to 2:30 pm	Batch C	Skills Lab	Prof. Ameena & Ms. Mahwish /PGR
25 th April 2026	Saturday	8:30 am to 2:30 pm	Batch D	Skills Lab	Dr. Asad & Ms. Mahwish /PGR
2 nd May 2026	Saturday	8:30 am to 2:30 pm	Batch E	Skills Lab	Prof. Ameena & Ms. Mahwish /PGR
9 th May 2026	Saturday	8:30 am to 2:30 pm	Batch F	Skills Lab	Prof. Ameena & Ms. Mahwish /PGR

Workshops have been scheduled as per the above-mentioned timetable. Students must strictly follow their allocated group and timings.

Note: As per UHS instructions, attendance in this workshop is mandatory for all students. Only those students who complete this workshop will be eligible for referral of UHS Professional Examination.

Recommended Books & Reading Resources

ANATOMY

Snell's Clinical Anatomy
Netter's Atlas of Human Anatomy
Langman's Medical Embryology
Laiq Hussain Histology

PHYSIOLOGY

Guyton & Hall Textbook of Medical Physiology
Ganong's Review of Medical Physiology (optional reference)

BIOCHEMISTRY

Lippincott's Illustrated Reviews: Biochemistry
Harper's Illustrated Biochemistry (reference)

Pathology

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

Pharmacology

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

Biomedical ethics

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

Islamiyat

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

Behavioural Sciences

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

Community medicine

Parks Textbook of Preventive and Social Medicine. K. Park

Surgery

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

Microbiology

Medical Microbiology and Immunology by Levinson and Jawetz

Pediatrics Medicine

Nelson Textbook of Pediatrics

Family medicine

Oxford Handbook of General Practice, 5th Edition

Gynecology

Gynecology by Ten Teachers

Forensic Medicine

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

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.