AVICENNA MEDICAL & DENTAL COLLEGE

STUDY GUIDE

2026

HEMATOPOIETIC & LYMPHATIC

BLOCK- 1 MODULE 2

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

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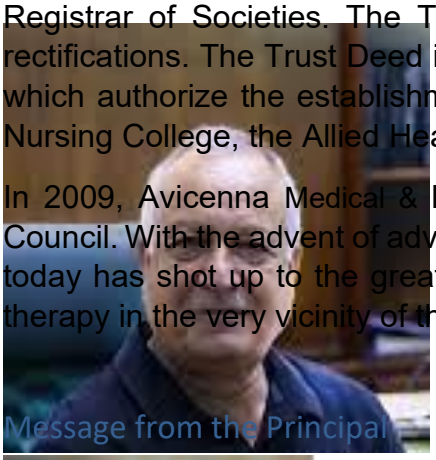
About Avicenna Medical College

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 is registered under the Societies Act with the Registrar of Societies. The Trust is legalized through a Trust Deed that bears the necessary rectifications. The Trust Deed is further supported by its Memorandum and Articles of Association, which authorize 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 are currently serving in the country and abroad, while several have opted for post-graduation and are on the road to progress. We have achieved several milestones since 2009, including the recognition of our College for FCPS training by the College of Physicians and Surgeons of Pakistan (CPSP), the establishment of the 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-profit, 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 the 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 within a 20km radius. 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 and 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 COLLEGE

Avicenna Medical & Dental College

AVICENNA 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 Syndrome
	ARVC	Arrhythmogenic Right Ventricular Cardiomyopathy
	ASD	Atrial Septal Defect
	AST	Aspartate aminotransferase
	ATLS	Advanced Trauma Life Support
	Au	Autopsy
	AUC	Area under the curve
	AV	Atrioventricular
B	**B**	Biochemistry
	BhS	Behavioral Sciences
	BHU	Basic Health Unit
	BSL	Biological Safety Level
C	**C**	Civics
	C-FRC	Clinical-Foundation Rotation Clerkship
	C.burnetii	Clostridium burnetii
	C.neoformans	Clostridium neoformans
	C.pneumoniae	Clostridium pneumoniae
	C.psittaci	Clostridium psittaci
	C.trachomatis	Clostridium trachomatis
	CA	cancer
	CABG	coronary artery bypass grafting
	CAD	coronary artery disease
	CBC	Complete Blood Count
	CCR5	cysteine-cysteine chemokine receptor
	CD31	cluster of differentiation 31
	CD34	cluster of differentiation 34
	CD4	cluster of differentiation 4
	CF	cystic fibrosis
	CK	Creatine kinase
	CLED	cystine lactose electrolyte deficient
	CLL	chronic lymphocytic leukemia
	CM	Community Medicine
	CML	chronic myeloid leukemia
	CMV	Cytomegalovirus
	CNS	Central Nervous System
	CO	Carbon monoxide
	CO2	Carbon dioxide
	CODIS	combined DNA index system
	COPD	Chronic obstructive pulmonary disease
	COVID-19	Coronavirus Disease 2019
	COX	Cyclooxygenase
	CPR	Cardiopulmonary Resuscitation

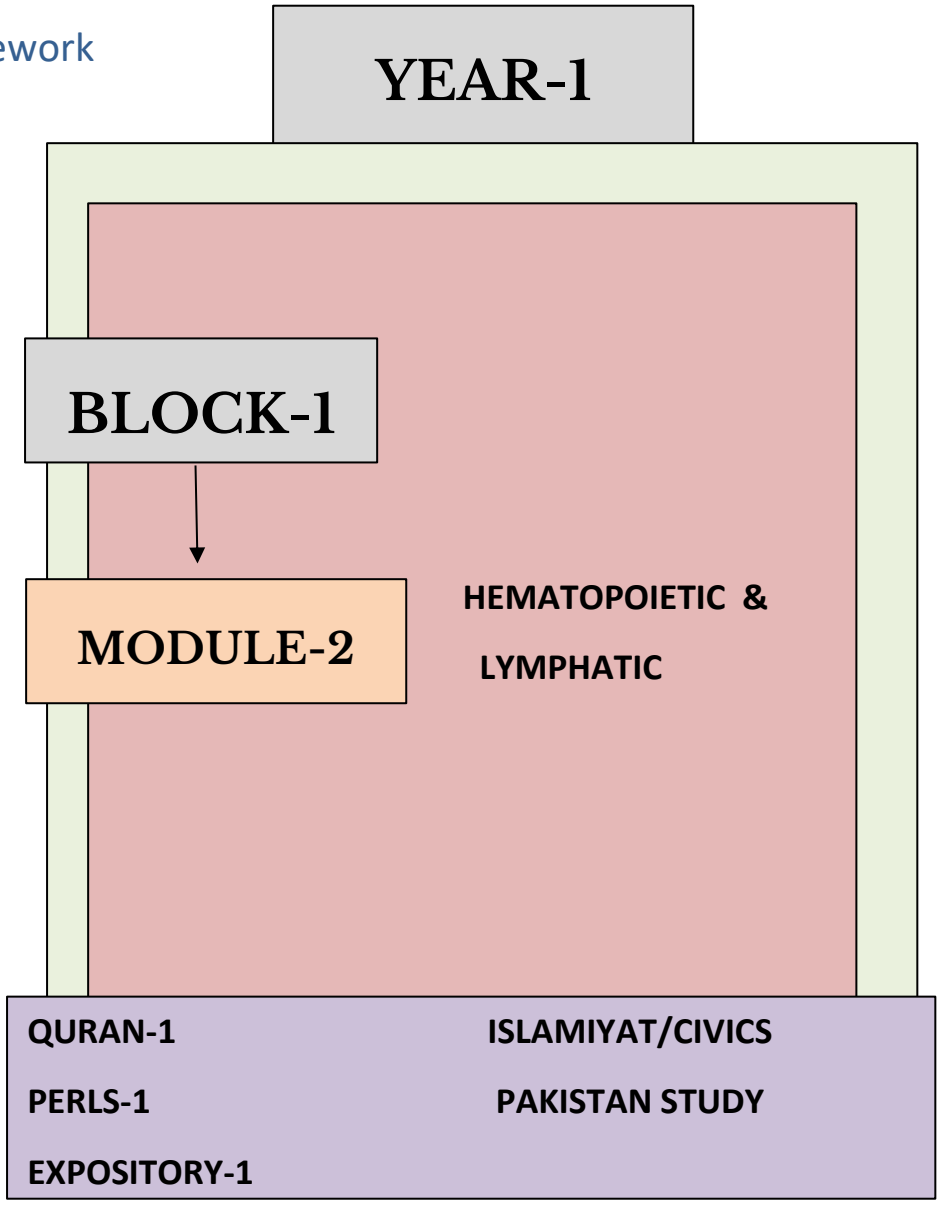
	CR	Clinical Rotation
	CRP	Clinical Rotation CSF C- Reactive Protein
	CSF	Cerebrospinal Fluid
	CT	Computed tomography
	CV	Cardiovascular
	CVA	Cerebral vascular accident
	CVS	Cerebrovascular system
D	**D.medinensis**	Dracunculus Medinensis
	DALY	Disability-Adjusted Life Year
	DCIS	Ductal Carcinoma in situ
	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**	Intracellular 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 Necrosis Factor
	TNM	Tumor Necrosis 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 and understanding of 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 the 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-2

- Module 2 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

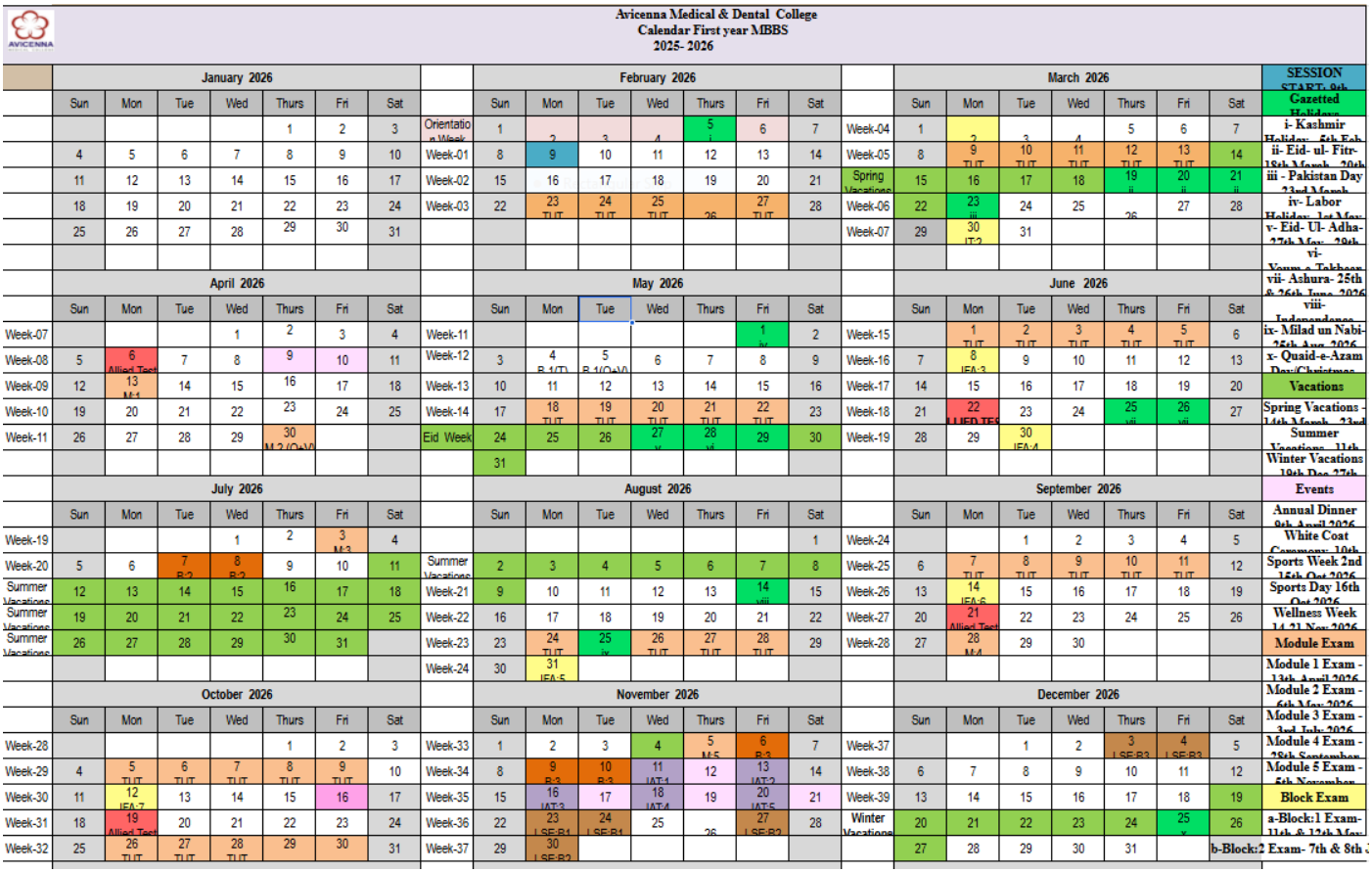
Dr. Majid	Focal Person	Pathology
Prof. Dr. Asma Saeed	HOD	Pharmacology
Dr. Azka	Focal Person	Pharmacology
Prof. Dr.Rana Akhtar	HOD	Community Medicine
Dr. Usman Sheikh	Focal Person	Community Medicine
Prof. Dr. Zainab	HOD	Forensic Medicine
Dr. Anwar	Focal Person	Forensic Medicine
Prof. Dr.Hassan Khan	HOD	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 the systems for the undergraduate programs offered at four colleges on campus are as follows:

Academic Calendar:



Avicenna Medical & Dental College
Calendar First year MBBS
2025- 2026

January 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Orientation Week					1	2	3
Week-01	4	5	6	7	8	9	10
Week-02	11	12	13	14	15	16	17
Week-03	18	19	20	21	22	23	24
	25	26	27	28	29	30	31

February 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
	1	2	3	4	5 i	6	7
Week-01	8	9	10	11	12	13	14
Week-02	15	16	17	18	19	20	21
Week-03	22	23 TUT	24 TUT	25 TUT	26	27 TUT	28

March 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-04	1	2	3	4	5	6	7
Week-05	8	9 TUT	10 TUT	11 TUT	12 TUT	13 TUT	14
Spring Vacations	15	16	17	18	19 ii	20 ii	21 ii
Week-06	22	23 iii	24	25	26	27	28
Week-07	29	30 IT-2	31				

SESSION START: 9th

Gazetted Holidays

i- Kashmir Holiday- 5th Feb

ii- Eid- ul- Fitr- 19th March - 20th

iii - Pakistan Day 23rd March

iv- Labor Holiday- 1st May

v- Eid- Ul- Adha- 27th May - 28th

vi- Youm e Takbeer

vii- Ashura- 25th & 26th June 2026

viii- Independence

ix- Milad un Nabi- 25th Aug 2026

x- Quaid-e-Azam Day/Christmas

Vacations

Spring Vacations - 14th March - 23rd

Summer Vacations - 11th

Winter Vacations 19th Dec 27th

Events

Annual Dinner 9th April 2026

White Coat Ceremony- 10th

Sports Week 2nd 15th Oct 2026

Sports Day 16th Oct 2026

Wellness Week 14-21 Nov 2026

Module Exam

Module 1 Exam - 13th April 2026

Module 2 Exam - 6th May 2026

Module 3 Exam - 3rd July 2026

Module 4 Exam - 28th September

Module 5 Exam - 5th November

Block Exam

a-Block:1 Exam- 11th & 12th May

b-Block:2 Exam- 7th & 8th

April 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-07				1	2	3	4
Week-08	5	6 Allied Test	7	8	9	10	11
Week-09	12	13 M-1	14	15	16	17	18
Week-10	19	20	21	22	23	24	25
Week-11	26	27	28	29	30 M-2 (Q+V)		

May 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-11						1 iv	2
Week-12	3	4 R-1(T)	5 R-1(Q+V)	6	7	8	9
Week-13	10	11	12	13	14	15	16
Week-14	17	18 TUT	19 TUT	20 TUT	21 TUT	22 TUT	23
Eid Week	24	25	26	27 v	28 vi	29	30
	31						

June 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-15		1 TUT	2 TUT	3 TUT	4 TUT	5 TUT	6
Week-16	7	8 IEA-3	9	10	11	12	13
Week-17	14	15	16	17	18	19	20
Week-18	21	22 LUHS TEST	23	24	25 viii	26 viii	27
Week-19	28	29	30 IEA-4				

July 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-19				1	2	3 M-3	4
Week-20	5	6	7 R-2	8 R-2	9	10	11
Summer Vacations	12	13	14	15	16	17	18
Summer Vacations	19	20	21	22	23	24	25
Summer Vacations	26	27	28	29	30	31	

August 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
							1
Summer Vacations	2	3	4	5	6	7	8
Week-21	9	10	11	12	13	14 vii	15
Week-22	16	17	18	19	20	21	22
Week-23	23	24 TUT	25 ix	26 TUT	27 TUT	28 TUT	29
Week-24	30	31 IEA-5					

September 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-24			1	2	3	4	5
Week-25	6	7 TUT	8 TUT	9 TUT	10 TUT	11 TUT	12
Week-26	13	14 IEA-6	15	16	17	18	19
Week-27	20	21 Allied Test	22	23	24	25	26
Week-28	27	28 M-4	29	30			

October 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-28					1	2	3
Week-29	4	5 TUT	6 TUT	7 TUT	8 TUT	9 TUT	10
Week-30	11	12 IEA-7	13	14	15	16	17
Week-31	18	19 Allied Test	20	21	22	23	24
Week-32	25	26 TUT	27 TUT	28 TUT	29	30	31

November 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-33	1	2	3	4	5 M-5	6 R-3	7
Week-34	8	9 R-3	10 R-3	11 IAT-1	12	13 IAT-2	14
Week-35	15	16 IAT-3	17	18 IAT-4	19	20 IAT-5	21
Week-36	22	23 LSE-B1	24 LSE-B1	25	26	27 LSE-B2	28
Week-37	29	30 LSE-B2					

December 2026

	Sun	Mon	Tue	Wed	Thurs	Fri	Sat
Week-37			1	2	3 LSE-B3	4 LSE-B3	5
Week-38	6	7	8	9	10	11	12
Week-39	13	14	15	16	17	18	19
Winter Vacations	20	21	22	23	24	25 x	26
	27	28	29	30	31		

Time Table:

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE WEEK-09		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # I		MODULE - 02	
		08:00 - 11:00		11.00-12.30		12:30 - 2:00		2.00-3.30		3:30 - 5.00	5:00 - 6.00
13-Apr-26	Mon	MODULE - 01 THEORY		MODULE - 01 OSPE / OSVE BATCH - A		MODULE - 01 OSPE / OSVE BATCH - B		MODULE - 01 OSPE / OSVE BATCH - C			CFRC
		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		5:00 - 6.00
14-Apr-26	Tues	Lecture Physiology	Lecture Biochemistry	Lecture Physiology	Lecture Biochemistry	BREAK	Lecture Pathology	Practical Histology Biochemistry Physiology			CFRC
		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
15-Apr-26	Wed	Lecture Biochemistry	Lecture Physiology	Lecture Biochemistry	Lecture Physiology		Lecture PERL (Leadership)	Practical Histology Biochemistry Physiology		BREAK	CFRC
		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
16-Apr-26	Thur	Lecture Gross Anatomy	Lecture Physiology	Lecture Biochemistry	Lecture Behavioural Science		Lecture Pathology	Practical Histology Biochemistry Physiology			CFRC
		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
17-Apr-26	Fri	Lecture Biochemistry	Lecture Physiology	Lecture Biochemistry	Lecture Community Medicine	Lecture Islamiyat	JUMMA BREAK		Lecture Quran		CFRC

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE WEEK-10		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # I		MODULE - 02	
		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
20-Apr-26	Mon	Lecture Physiology	Lecture Gross Anatomy	Lecture Biochemistry	Lecture Pathology Integration	BREAK	Lecture Medicine Integration	Practical Histology Biochemistry Physiology			CFRC
		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
21-Apr-26	Tues	Lecture Biochemistry	Lecture Physiology	Lecture Biochemistry	Lecture Pathology		Lecture Embryology	Practical Histology Biochemistry Physiology			CFRC
		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
22-Apr-26	Wed	Lecture Pathology Integration	Lecture Biochemistry	Lecture Physiology	Lecture Pathology		Lecture Physiology	Practical Histology Biochemistry Physiology		BREAK	CFRC
		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
23-Apr-26	Thur	Lecture Biochemistry	Lecture Physiology	Lecture Biochemistry	Lecture Behavioural Science		Lecture PERL (Research)	Lecture Quran	Lecture Islamiyat		CFRC
		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
24-Apr-26	Fri	Lecture Biochemistry	Lecture Physiology	Lecture Biochemistry	Lecture Pharmacology	Lecture Community Medicine	JUMMA BREAK		Lecture Pakistan Studies		CFRC

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE WEEK-11		M-25 1st Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # I		MODULE - 02	
		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
27-Apr-26	Mon	Lecture Physiology	Lecture Biochemistry	Lecture Pathology Integration	Lecture Biochemistry	BREAK	Lecture Pharmacology	Practical Histology Biochemistry Physiology		BREAK	CFRC
		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
28-Apr-26	Tues	Lecture Biochemistry	Lecture Physiology	Lecture Pathology	Lecture Physiology		Lecture Pakistan Studies	Practical Histology Biochemistry Physiology			CFRC
		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
29-Apr-26	Wed	Lecture Pathology Integration	Lecture Biochemistry	Lecture Physiology	Lecture Community Medicine		Lecture PERL (Research)	Practical Histology Biochemistry Physiology			CFRC
		08:00 - 11:00		11.00-12.30		12:30 - 2:00		2.00-3.30			5:00 - 6.00
30-Apr-26	Thur	MODULE - 02 THEORY		MODULE - 02 OSPE / OSVE BATCH - C		MODULE - 02 OSPE / OSVE BATCH - A		MODULE - 02 OSPE / OSVE BATCH - B			CFRC
		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
1-May-26	Fri	LABOUR DAY HOLIDAY									

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	Clinica l 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			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	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				1					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		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		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 the cell membrane and organelles of the 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 the body's internal environment nearly constant.
- Appraise the formation and functions of the 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 the 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 bones, joints, and muscles based on the structure, function, and phylogenetic origin.
- Describe the structures associated with muscles and explain their functional correlations.
- Classify and describe the cardiovascular system and correlate its functions.
- Amplify the anatomical basis for radiological, cross-sectional anatomy.
- Correlate clinicopathologically the apoptosis in health & diseases.

Learning Objectives

NORMAL STRUCTURE
GROSS ANATOMY

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 02	
		DISCIPLINE	TOPIC
HL-A-001	Identify and describe the components of the Hematopoietic & Lymphoid Tissue and their function	Human Anatomy	Hematopoietic & Lymphoid Tissue
	Describe the location, coverings, and relations of Spleen		
	Describe the origin, course, branches, and distribution of the splenic artery		
	Describe the venous drainage of Spleen, Portal vein formation, tributaries, and area of drainage.		
	Describe the location and relations of the thymus. Age-related changes in the thymus		
CODE	**EMBRYOLOGY & POST-NATAL DEVELOPMENT**	**TOTAL HOURS = 01**	
	SPECIFIC LEARNING OUTCOMES	**DISCIPLINE**	**TOPIC**
HL-A-002	Describe the Intrauterine Development of spleen	Embryology	Developmental Anatomy of Spleen
NORMAL FUNCTION			
MEDICAL PHYSIOLOGY			
CODE	**SPECIFIC LEARNING OBJECTIVES**	**TOTAL HOURS = 20**	
		DISCIPLINE	**TOPIC**

HL-P-001	Define, classify, and explain anemia on the basis of morphology and cause	Medical Physiology	Anemia
	Discuss the effects of anemia on the body		
HL-P-002	Define polycythemia		Polycythemia
	Explain the types of polycythemias		
	Discuss the effects of polycythemia on the body		

HL-P-003	Define hemostasis		Hemostasis
	Describe the mechanisms by which hemostasis is secured		
HL-P-004	Discuss the characteristics and functions of platelets		Platelets
	Explain the mechanism of formation of the platelet plug		
	Enlist the clotting factors in blood		
	Explain the conversion of Prothrombin to Thrombin & Formation of Fibrin Fibers		
	Explain the Intrinsic & extrinsic clotting pathway.		
	Name & explain the mechanism of anticoagulants used in the laboratory.		
	Explain the factors that prevent intravascular coagulation		

HL-P-005	Explain the role of Calcium ions in Intrinsic and Extrinsic pathways		Coagulation factors
	Enlist the vitamin K-dependent clotting factors		
	Explain the prothrombin time, International Normalized Ratio (INR) and its clinical significance.		
HL-P-006	Enlist and explain the conditions that cause excessive bleeding		Coagulation disorders
	Define thrombocytopenia	Integrated with Medicine	
	List the causes and consequences of Thrombocytopenia		
HL-P-007	Define immunity	Integrated with microbiology	Immunity
	Classify immunity		
	Explain humoral immunity		
	Explain Innate immunity.		
	Elaborate cell mediated immunity.		
	Describe the structure of the antigen and the immunoglobulin		
	Describe the role of Helper T-cells in cell-mediated immunity		
	Enlist the types of Immunoglobulins along with their functions		

	Explain the role of memory cells in enhancing the antibody response (secondary response)		
	Describe the mechanism of action of antibodies		
	Elaborate on the complement system.		
HL-P-008	Elaborate Immune Tolerance	Integrated with pathology	Tolerance
	Explain the process of clone selection during T cell processing		
	Discuss the failure of the tolerance mechanism		
HL-P-009	Discuss immunization.	Integrate with microbiology	Immunization
	Define passive Immunity		Immunization
	Explain the features and the physiological basis of delayed reaction allergy.		
	Explain the features and the physiological basis of Atopic Allergy		
	Explain the features and the physiological basis of Anaphylaxis, urticaria, and Hay fever.		
HL-P-010	Discuss the pathophysiology, features, and treatment of ABO and RH incompatibility. Enlist the changes that take place in the stored Blood.	Medical Physiology	Blood Group Incompatibility

HL-P-011	Discuss the features and complications of mismatched blood transfusion reaction Describe the Hazards of blood transfusion. Elaborate on the Transplantation of Tissues and Organs	Integrate with Pathology	Blood mismatch Transfusion reactions
HL-P-012	Explain the process of tissue typing Explain the prevention of Graft Rejection by suppressing the immune system	Integrate with pathology	Transplantation of tissues
MEDICAL BIOCHEMISTRY			
CODE	**SPECIFIC LEARNING OBJECTIVES**	**TOTAL HOURS = 19** **DISCIPLINE**	**TOPIC**

HL-B-001	Explain the steps of the synthesis of heme Interpret porphyrias on the basis of signs, symptoms, and data. Discuss the biochemical role and types of hemoglobin 1. Differentiate Hemoglobin and myoglobin 2. Explain the oxygen dissociation curve of hemoglobin and myoglobin 3. Enlist the factors regulating the oxygen dissociation curve of hemoglobin and myoglobin 4. Interpret Carbon monoxide (CO) toxicity on the basis of signs and symptoms 5. Explain the role of 2,3 Bisphosphoglycerate (2,3 BPG) in fetal circulation	Medical Biochemistry	Hemoglobin and its types/ RBCs
HL-B-002	Discuss haemoglobinopathies and their biochemical and genetic basis with special emphasis on sickle cell anemia, Thalassemia, and methemoglobinemia a) Discuss the following types of anemia on the basis of signs and symptoms and laboratory data: 1. Hypochromic microcytic 2. Normochromic microcytic 3. Normochromic normocytic 4. Macrocytic (megaloblastic)	Medical Biochemistry Integrate with Pathology	Hemoglobinopathies/ RBCs/ Homeostasis

HL-B-003	Explain the iron metabolism with the mechanism of absorption and factors affecting it. 1. Interpret iron deficiency anemia on the basis of the given data and microscopic findings 2. Interpret folic acid and cobalamin in relation to anemias on the given data and microscopic findings 3. Discuss the biochemical role of pyridoxine and vitamin C & K in microcytic anemia	Medical Biochemistry Integrate with medicine	Iron Metabolism/ RBCs
HL-B-004	Discuss the degradation of heme in macrophages of the reticuloendothelial system 1. Describe the formation of bile pigments, their types, and transport 2. Discuss the fate of bilirubin	Medical Biochemistry	Heme Degradation/ RBCs

HL-B-005	Discuss hyperbilirubinemias and their biochemical basis 1. Differentiate types of jaundice on the basis of signs/symptoms and data 2. Evaluate the genetic basis of jaundice on the basis of lab investigations		Hyperbilirubinemia / RBCs/ Blood Groups

HL-B-006	Explain and interpret the pedigree of single gene defect i.e., sickle cell anemia (Autosomal recessive) and Beta Thalassemia (X-linked recessive)		Genetics
PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS			
CODE	**SPECIFIC LEARNING OBJECTIVES**	**TOTAL HOURS = 2+5=07**	
		DISCIPLINE	**TOPIC**
HL-Ph-001	Describe the oral and parenteral iron preparations including their pharmacokinetics, uses, adverse effects, and Iron Antidotes	Pharmacology & Therapeutics	Anemia
	Describe Vitamin B12 preparations		
	Define the terms: Hematopoietic growth factors, their name, mechanism of action, uses, and adverse effects		Blood Cells,
	Define and classify anemias according to the underlying mechanism and Mean Corpuscular Volume/ Mean Corpuscular Hemoglobin (MCV/MCH)		
	Discuss the causes and investigations of iron deficiency anemia and megaloblastic anemia		

HL-Pa-001	Classify the benign and malignant disorders of WBCs	Pathology	Platelets and Blood Group
	Discuss the causes leading to reactive leukocytosis		
	Interpretation of anemias on the basis of peripheral blood smear and bone marrow findings		
	Classify bleeding disorders		
	Discuss first-line laboratory investigations for bleeding disorders		
	Describe the basic concept of blood grouping and acute hemolytic transfusion reaction		
DISEASE PREVENTION AND IMPACT			
CODE	**COMMUNITY MEDICINE & BEHAVIORAL SCIENCE**	**TOTAL HOURS = 05**	
	SPECIFIC LEARNING OBJECTIVES	**DISCIPLINE**	**TOPIC**
HL-CM-01	Describe the nutritional aspects of iron deficiency Anemia and psychological aspects of diseases	Community Medicine and Public Health	Anemia
HL-CM-02	Enlist most common blood-borne diseases in Pakistan Describe the routes of spread of blood-borne diseases		communicable diseases

HL-CM-03	Genetic counseling of parents		Genetic diseases
HL-BhS-01	Psychological Counselling of patients and their families	Behavioral Sciences	Counselling, information al care
HL-BhS-02	Identify and deal with the various psychosocial aspects of Hematopoietic System disorders (such as Sickle Cell Disease, Hemophilia, and Conditions of the Blood) on the individual, Family and Society.		Personal, Psychosocial, and Vocational Issues

AGING			
CODE	**SPECIFIC LEARNING OBJECTIVES**	**TOTAL HOURS = 01**	
		DISCIPLINE	**TOPIC**
HL-Ag-01	Discuss the role of platelets in Platelet-Rich Plasma (PRP) treatment in old age (for skin, hair and joints)	Biochemistry /Dermatology	Platelet Rich Plasma Therapy
HL-Ag-02	Explain the role of glutathione in skin whitening		Glutathione

HISTOLOGY		
CODE	**SPECIFIC LEARNING OBJECTIVES**	**TOTAL HOURS = 02**
		DISCIPLINE

HL-A-003	Describe the light microscopic structure of Spleen, thymus, Lymph nodes, tonsils, and mucosa-associated Lymphoid Tissue (MALT), including the appendix.	Histology

PHYSIOLOGY		
CODE	**SPECIFIC LEARNING OBJECTIVES**	**TOTAL HOURS = 6** **DISCIPLINE**
HL-P-013	Interpret the report of Red Blood Cell Count, Hemoglobin concentration, Hematocrit, and RBC Indices by Automated Cell Counter	Medical Physiology
	Interpret the report of Total Leucocyte Count, Differential Leucocyte Count, & Platelet Count by Automated Cell Counter.	
HL-P-014	Determine Bleeding Time. Determine Clotting Time.	

BIOCHEMISTRY		
CODE	**SPECIFIC LEARNING OBJECTIVES**	**TOTAL HOURS = 6** **DISCIPLINE**
	Estimate serum bilirubin and interpret the types of jaundice on the basis of data.	

HL-B-007	Estimate serum ALP level	Medical Biochemistry
	Estimate serum AST level	
	Estimate serum ALT level	

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 and encourages students to explore topics 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 a 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 students' 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

i. Continuous assessment will be based on regular assignments, quizzes, presentations, and other activities conducted throughout the semester.
ii. 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

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

4. Attitude and Behavior

1. Students' attitude towards learning, participation in class activities, and adherence to college rules and regulations will be assessed.
2. 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.

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

3. Clinical exams will evaluate your communication skills and reasoning abilities through case discussions and problem-solving exercises.
4. Clinical skills and workplace-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 1 **Modules** (Foundation-I + Hematopoietic and Lymphatic)	Part I 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
2nd March 2026	IFT 1
30th March 2026	IFT 2
6th April 2026	Allied subjects' exam
13th April 2026	Module Exam 1
6th May 2026	Module Exam 2
11th May 2026	Block 1 Exam Written
12th May 2026	Block 1 Exam OSPE/Viva
8th June 2026	IFT 3
30th June 2026	IFT 4
3rd July 2026	Module Exam 3
7th July 2026	Block 2 Exam Written
8th July 2026	Block 2 Exam OSPE/Viva
31st August 2026	IFT 5
14th September 2026	IFT 6
21st September 2026	Allied subjects' exam
28th September 2026	Module Exam 4

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

Table of Specification

MBBS 1st Professional

Block-1

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	40	40	04	-	01	46
Normal Function	Physiology applied/clinical	37	37	03	-	01	38
	Biochemistry applied/clinical	34	34	02	-	01	30
Disease Burden & Prevention	Community Medicine & Public Health	06	06	-	-	-	-
	Behavioral Sciences	05	05	-	-	-	-
Pathophysiology & pharmacotherapeutics	Pathology	13	13	1	-	-	8
	Pharmacology	05	05	1	-	-	8
CFRC	CF-I	-	-	-	01	-	05
PERLs	PERLs-I	-	-	-	01	-	05
Total		**140**	**140**	**11 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
28th March 2026	Saturday	8:30 am to 2:30 pm	Batch A	Skills Lab	Prof. Ameena & Ms. Mahwish /PGR
4th April 2026	Saturday	8:30 am to 2:30 pm	Batch B	Skills Lab	Dr. Asad & Ms. Mahwish /PGR
11th April 2026	Saturday	8:30 am to 2:30 pm	Batch C	Skills Lab	Prof. Ameena & Ms. Mahwish /PGR
18th April 2026	Saturday	8:30 am to 2:30 pm	Batch D	Skills Lab	Dr. Asad & Ms. Mahwish /PGR
25th April 2026	Saturday	8:30 am to 2:30 pm	Batch E	Skills Lab	Prof. Ameena & Ms. Mahwish /PGR
2nd 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

Vinary Kumar, Abul K. Abbas, 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, and 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 Publisher.

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 and to facilitate hands-on learning.
4.	The 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 facilitating 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 with an opportunity to get entertained during their meal times.

8.	Gymnasium & Sports	We recognize sports as a pivotal key to shaping and maintaining students' personalities and good health. The College has indoor and outdoor sports facilities to help enhance 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.