

AVICENNA MEDICAL & DENTAL COLLEGE



STUDY GUIDE

2026

NEUROSCIENCE-1

BLOCK- 6 MODULE-10



Program: MBBS Integrated Curriculum
Year: 2nd Professional Year
Batch No: M-24
Session: 2025-2026

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

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

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

[Message from the Principal](#)



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

Principal

Prof. Dr. Gulfreen Waheed

MBBS, FCPS, MHPE, PhD Scholar - HPE

Avicenna Medical & Dental College

[Message from the Chairman](#)

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

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

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

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

Chairman
Abdul Waheed Sheikh
Avicenna Medical & Dental College

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

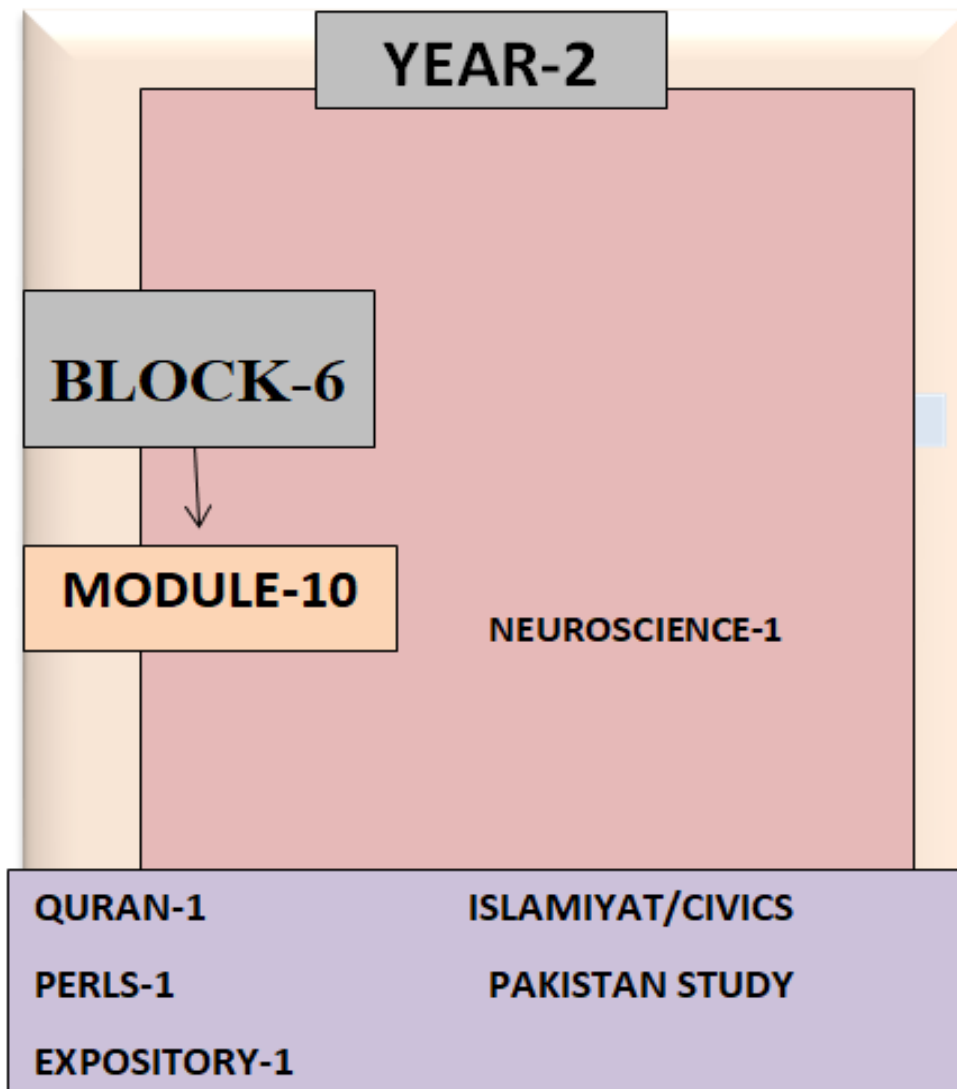
	CRP	Clinical Rotation CSF C- Reactive Protein
	CSF	Cerebro Spinal Fluid
	CT	Computed tomography
	CV	Cardiovascular
	CVA	Cerebral vascular accident
D	CVS	Cerebrovascular system
	D.medinensis	Dracunculus Medinensis
	DALY	Disability-Adjusted Life Year
	DCIS	Ductal Carcinoma in situ
	DCM	Dilated Cardiomyopathy 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
G	FVC	Forced Vital Capacity
	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.

Seven Star Doctor

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.

- Skillful / Care Provider.
- Knowledgeable / Decision Maker.
- Community Health Promoter / Community Leader.
- Critical Thinker / Communicator
- Professional / Lifelong learner.
- Scholar / Researcher
- Leader/ Role Model / Manager

Introduction to Module-10

- The module 10 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.

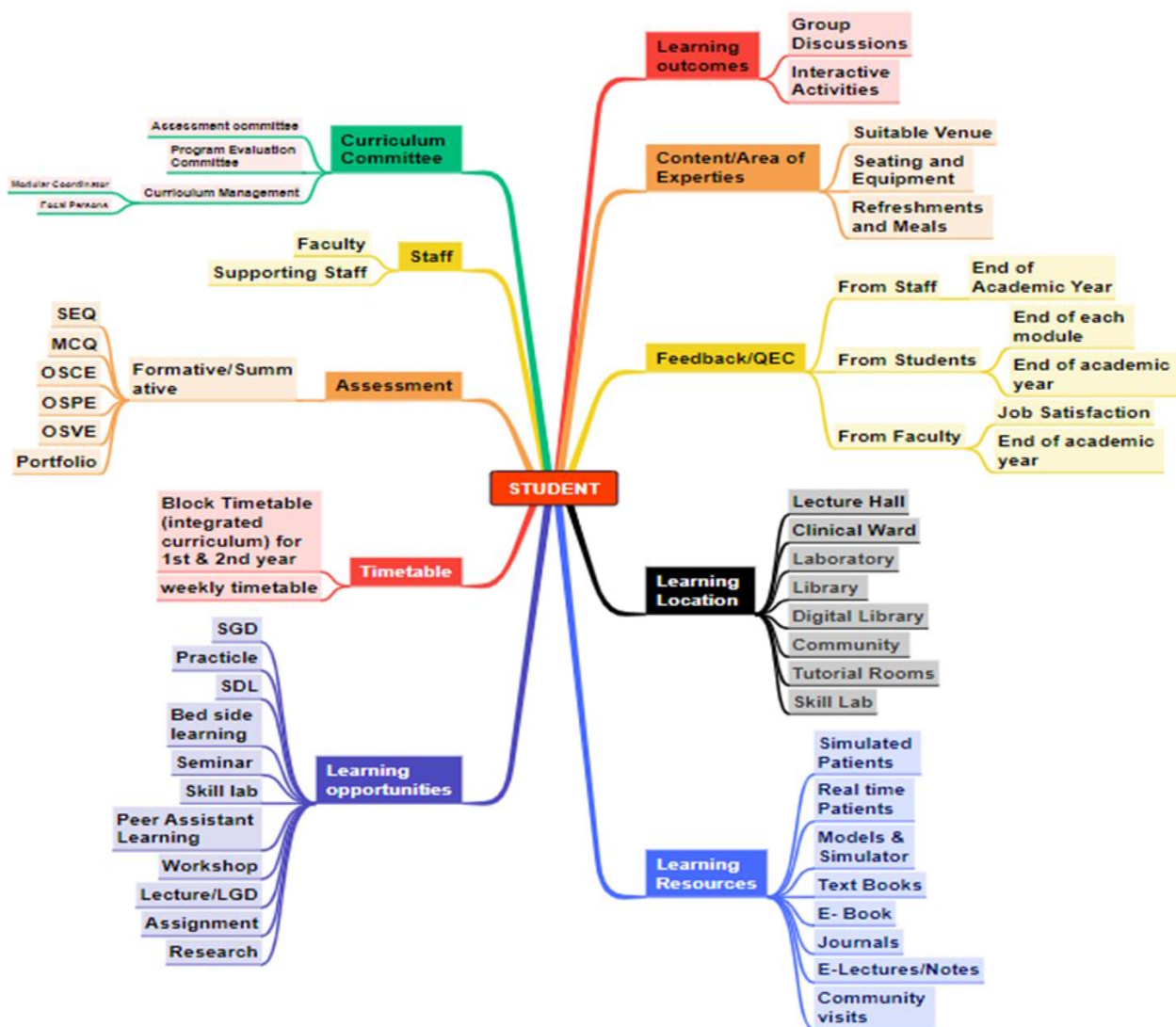
Module Committee

Name	Designation	Department
Prof. Dr. Gulfreen Waheed	Principal & Director DME	Medical Education
Dr. Saba Iqbal	Associate 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. Huma Fatima	Demonstrator	Medical Education
Mr. Adeel	Incharge	Student Affairs
Prof. Dr. Razia	HOD	Anatomy
Dr. Kalsoom	Focal Person	Anatomy
Prof. Dr. Sadia Zafer	HOD	Physiology
Dr. Shaheena	Focal Person	Physiology
Prof. Sadia Amir	HOD	Biochemistry

Dr. Yusra	Focal Person	Biochemistry
Prof. Dr. Saeed Afzal	HOD	Pathology
Dr. Nadia salam	Focal Person	Pathology
Prof. Dr. Asma Saeed	HOD	Pharmacology
Dr. Azka	Focal Person	Pharmacology
Prof. Dr. Rana Akhtar	HOD	Community Medicine
Dr. Sana	Focal Person	Community Medicine
Dr. Uzma	Focal Person	General Surgery
Prof. Dr. Muzammil	HOD	Medicine Unit-1
Dr. Asim	Focal Person	General Medicine
Dr. Farhat Mihas	HOD	Behavioural Sciences

Curriculum Map

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



Academic Calender

Avicenna Medical & Dental College Calendar - 2025-2026 2nd year MBBS																											
April 2026								May 2026								June 2026								SESSION START: 6th April 2026			
	Sun	Mon	Tue	Wed	Thurs	Fri	Sat		Sun	Mon	Tue	Wed	Thurs	Fri	Sat		Sun	Mon	Tue	Wed	Thurs	Fri	Sat	Gazetted Holidays			
				1	2	3	4	Week-04						w-1	2	Week-5		1	2	3	4	5	6	i- Kashmiri Holiday - 5th Feb, 2026			
Week-01	5	6	7	8	9	10	11	Week-5	3	4 TUT	5 TUT	6 TUT	7 TUT	8 TUT	9	Week-9	7	8 TUT	9 TUT	10 TUT	11 TUT	12 TUT	13	ii- Eid- ul- Fitr- 18th March - 20th March, 2026			
Week-02	12	13	14	15	16	17	18	Week-6	10	11 TUT	12 TUT	13 TUT	14 TUT	15 TUT	16	Week-10	14	15	16	17 IFA-2	18	19	20	iii- Pakistan Day -23rd March, 2026			
Week-03	19	20 TUT	21 TUT	22 TUT	23 TUT	24 TUT	25	Week-7	17	18	19	20	21 M:5	22	23	Week-11	21	22	23	24 Allied Test-1	w-25	w-26	27	iv- Labor Holiday- 1st May, 2026			
Week-04	26	27	28	29 IFA-1	30			Eid week	24	25	26	v-27	w-28	29	30	Week-12	28	w-29	30					v- Eid- Ul- Adha- 27th May - 29th May, 2026			
								31																vi- Youm-e-Takbeer Holiday - 28th May, 2026			
July 2026								August 2026								September 2026								vii- Ashura- 25th & 26th June, 2026			
	Sun	Mon	Tue	Wed	Thurs	Fri	Sat		Sun	Mon	Tue	Wed	Thurs	Fri	Sat		Sun	Mon	Tue	Wed	Thurs	Fri	Sat	viii- Independence Day- 14th Aug, 2026			
Week-12				1	2 M:7	3	4								1	Week-17			1 TUT	2 TUT	3 TUT	4 TUT	5	ix- Milad un Nabi- 25th Aug, 2026			
Week-13	5	6 B:4	7 B:4	8	9	10	11	Summer vacations	2	3	4	5	6	7	8	Week-18	6	7	8	9 IFA-3	10	11	12	x- Qaid-e-Azam Day/Christmas- 25th Dec, 2026			
Summer vacations	12	13	14	15	16	17	18	Week-14	9	10	11	12	13	wii-14	15	Week-19	13	14	15	16	17	18	19	xi- Kashmir Holiday - 5th Feb, 2027			
Summer vacations	19	20	21	22	23	24	25	Week-15	16	17 TUT	18 TUT	19 TUT	20 TUT	21 TUT	22	Week-20	20	21	22	23 IFA-4	24	25	26	Vacations			
Summer vacations	26	27	28	29	30	31		Week-16	23	24 TUT	w-25	26 TUT	27 TUT	28 TUT	29	Week-21	27	28	29	30 M:8				Spring Vacation - 16th March - 23rd March, 2026			
								Week-17	30	31 TUT														Summer Vacations - 15th July -16th			
October 2026								November 2026								December 2026								Events			
	Sun	Mon	Tue	Wed	Thurs	Fri	Sat		Sun	Mon	Tue	Wed	Thurs	Fri	Sat		Sun	Mon	Tue	Wed	Thurs	Fri	Sat	World Oral Health Day			
Week-21					1	2	3	Week-26	1	2 TUT	3 TUT	4 TUT	5 TUT	6 TUT	7	Week-30			1 TUT	2 TUT	3 TUT	4 TUT	5	International Day of Happiness			
Week-22	4	5	6	7	8	9	10	Week-27	8	9	10	11 M:9	12	13	14	Week-31	6	7 TUT	8 TUT	9 TUT	10 TUT	11 TUT	12	World TB Day			
Week-23	11	12 TUT	13 TUT	14 TUT	15 TUT	16 TUT	17	Week-28	15	16 B:5	17 B:5	18	19	20	21	Week-32	13	14	15	16 IFA-6	17	18	19	World Autism Awareness Day			
Week-24	18	19	20	21 IFA-5	22	23	24	Week-29	22	23	24	25	26	27	28	Winter vacations	20	21	22	23	24	w-25	26	White Coat Ceremony			
Week-25	25	26	27	28 Allied Test-2	29	30	31	Week-30	29	30 TUT						Week-33	27	28 TUT	29 TUT	30 TUT	31 TUT			Music Fest - 2026			
January 2027								February 2027								March 2027								Spring Fest			
	Sun	Mon	Tue	Wed	Thurs	Fri	Sat		Sun	Mon	Tue	Wed	Thurs	Fri	Sat		Sun	Mon	Tue	Wed	Thurs	Fri	Sat	World Hand Hygiene Day			
Week-33						1 TUT	2			1	2	3	4	w-6	6			1	2	3	4	5	6	International Nursing Day			
Week-34	3	4	5	6 IFA-7	7	8	9	Send Up	7	8	9	10	11	12 B:6 Send Up	13		7	8	9	10	11	12	13	World Hypertension Day			
Week-35	10	11	12	13 M:10	14	15	16		14	15 B:4 Send Up	16	17	18	19 B:5 Send Up	20		14	15	16	17	18	19	20	Debates & MUN			
Week-36	17	18 Allied Test-3	19	20	21 M:11	22	23		21	22 B:6 Ospe/Viva	23 B:4 Ospe/Viva	24 B:8 Ospe/Viva	25	26	27		21	22	23	24	25	26	27	Class Trips			
Week-37	24	25	26 B:6	27 B:8	28	29	30		28								28	29	30	31				World Environment Day			
																								Fun Fair			
																								International Self-Care Day			
																								Oral & Nasal Competition			
																								Blood Cancer Awareness Day			
																								World First Aid Day			
																								World Patient Safety Day			
																								World Heart Day			
																								Sports Fest - 26			
																								World Mental Health Day			
																								Breast Cancer Awareness			
																								Talent Hunt & Drum Circle			
																								Art & Craft			
																								Yoga & Aerobics			
																								Character Day & Bake Sale			
																								Golden Week			
																								Block Exam			
																								a. Block-4 Exam : 9th July, 2026			
																								b. Block-5 Exam : 11th November, 2026			
																								c. Block-6 Exam : 9th February, 2027			
																								LSZ/ Send-Up			
																								Send Up = 12th Feb 2027 to 24th Feb 2027			
																								Prof Exam			

Time Table:

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-28		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # VI		MODULE - 10	
16-Nov-26	Mon	08:00 - 11:00		11:00 - 11:30	11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	BREAK	3:30 - 5:00	5:00 - 6:00
		BLOCK - V THEORY		BREAK	English Expository Writing	Lecture PERL Leadership	Lecture Islamiyat	Lecture Pakistan Studies		CFRC	
17-Nov-26	Tues	08:00 - 10:30		10:30-11:00	11:00 - 01:00		1:30-3:30			5:00 - 6:00	
		BLOCK - V OSPE / OSVE BATCH B		BREAK	BLOCK - V OSPE / OSVE BATCH C		BREAK	BLOCK - V OSPE / OSVE BATCH A		CFRC	
18-Nov-26	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00	BREAK	11:30 - 12:30	12:30-01:30	1:30 - 2:30		2:30 - 3:30	5:00 - 6:00
		Lecture Histology	Lecture Physiology	Lecture Gross Anatomy		Lecture Physiology	Tutorial Anatomy Biochemistry Physiology	Clinical Skill		Practical Histology Biochemistry Physiology	CFRC
19-Nov-26	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30 - 2:30		2:30 - 3:30	5:00 - 6:00
		Lecture Biochemistry	Lecture Physiology	Lecture Embryology		Lecture Physiology	Tutorial Anatomy Biochemistry Physiology	Clinical Skill		Practical Histology Biochemistry Physiology	CFRC
20-Nov-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 Physiology	Lecture Gross Anatomy	Lecture Physiology	Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology	JUMMA BREAK	Lecture Quran		CFRC	

AVICENNA MEDICAL & DENTAL COLLEGE												
TIME TABLE WEEK-29		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:				
DATE	DAY							BLOCK # VI		MODULE - 10		
23-Nov-26	Mon	08:00 - 09:00	09:00 - 10:00	10:00-11:00	BREAK	11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	BREAK	3:30 - 5:00	5:00 - 6:00
		Lecture Gross Anatomy	Lecture Biochemistry	Lecture Physiology		Lecture Embryology	Lecture Physiology	Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology		CFRC	
24-Nov-26	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30		5:00 - 6:00	
		Lecture Biochemistry	SGD Anatomy			Lecture Physiology	English Expository Writing	Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology		CFRC	
25-Nov-26	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00	
		Lecture Physiology	SGD Anatomy			Lecture Physiology	Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Practical Histology Biochemistry Physiology		CFRC	
26-Nov-26	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30	5:00 - 6:00			
		Lecture Gross Anatomy	Lecture Physiology	Lecture Biochemistry	Lecture Physiology	Lecture Pharmacology	Clinical Skill	Lecture PERL Leadership	CFRC			
27-Nov-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 Physiology	Lecture Embryology	Lecture Physiology	Lecture Histology	Lecture Quran	JUMMA BREAK	Lecture Islamiyat	CFRC			

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-30		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # VI		MODULE - 10	
		08:00 - 09:00	09:00 - 10:00	10.00-11.00	11:00 - 11:30	11:30 - 12:30	12:30-01:30	1.30-2.30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00
30-Nov-26	Mon	Lecture Histology	Lecture Biochemistry	Lecture Physiology	BREAK	Lecture Embryology	Lecture Physiology	Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology	BREAK	CFRC
1-Dec-26	Tues	08:00 - 09:00	09:00 - 10:00	10.00-11.00		11:30 - 12:30	12:30-01:30	1.30-2.30	2:30 - 3:30		5:00 - 6:00
		Lecture Biochemistry	Lecture Physiology	Lecture Gross Anatomy		Lecture Physiology	Computer Science	Tutorial Anatomy Biochemistry Physiology	Practical Histology Biochemistry Physiology		CFRC
2-Dec-26	Wed	08:00 - 09:00	09:00 - 10:00	10.00-11.00		11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		Lecture Physiology	SGD Anatomy			Lecture Physiology	Tutorial Anatomy Biochemistry Physiology	Clinical Skill	Practical Histology Biochemistry Physiology		CFRC
3-Dec-26	Thur	08:00 - 09:00	09:00 - 10:00	10.00-11.00	11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30	5:00 - 6:00		
		Lecture Gross Anatomy	Lecture Physiology	Lecture Biochemistry	Lecture Pathology	Lecture PERL Leadership	Clinical Skill	Lecture Islamiyat	CFRC		
4-Dec-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 Physiology	SGD Anatomy		Lecture Physiology	English Expository Writing	JUMMA BREAK	Lecture Quran	CFRC		

AVICENNA MEDICAL & DENTAL COLLEGE												
TIME TABLE WEEK-31		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:				
DATE	DAY							BLOCK # VI		MODULE - 10		
7-Dec-26	Mon	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 11:30	11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00	
		<u>Lecture</u> Gross Anatomy	<u>Lecture</u> Biochemistry	<u>Lecture</u> Physiology		<u>Lecture</u> Pathology	<u>Lecture</u> Physiology	<u>Tutorial</u> Anatomy Biochemistry Physiology	<u>Practical</u> Histology Biochemistry Physiology			
8-Dec-26	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30			
		<u>Lecture</u> Biochemistry	<u>Lecture</u> Physiology	<u>Lecture</u> Embryology		<u>Lecture</u> Physiology	Computer Science	<u>Tutorial</u> Anatomy Biochemistry Physiology	<u>Practical</u> Histology Biochemistry Physiology			
9-Dec-26	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00		BREAK	11:30 - 12:30	12:30-01:30	1:30 - 2:30			2:30 - 3:30
		<u>Lecture</u> Physiology	SGD Anatomy				<u>Lecture</u> Behavioural Science	<u>Tutorial</u> Anatomy Biochemistry Physiology	<u>Clinical Skill</u>			<u>Practical</u> Histology Biochemistry Physiology
10-Dec-26	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00			11:30 - 12:30	12:30-01:30	1:30 - 2:30			2:30 - 3:30
		<u>Lecture</u> Histology	<u>Lecture</u> Physiology	<u>Lecture</u> Gross Anatomy			<u>Lecture</u> Physiology	<u>Lecture</u> PERL Leadership	<u>Clinical Skill</u>			<u>Lecture</u> Islamiyat
11-Dec-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		
		<u>Lecture</u> Physiology	SGD Anatomy		<u>Lecture</u> Physiology		English Expository Writing	JUMMA BREAK		<u>Lecture</u> Quran		

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-32		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # VI		MODULE - 10	
		08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 11:30	11:30 - 12:30	12:30-01:30	1.30-2.30	2:30 - 3.30	3:30 - 5.00	5:00 - 6.00
14-Dec-26	Mon	<u>Lecture</u> Gross Anatomy	<u>Lecture</u> Physiology	<u>Lecture</u> Biochemistry	BREAK	<u>Lecture</u> Embryology	<u>Lecture</u> Physiology	<u>Tutorial</u> Anatomy Biochemistry Physiology Pathology	<u>Practical</u> Histology Biochemistry Physiology	BREAK	CFRC
15-Dec-26	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1.30-2.30	2:30 - 3.30		5:00 - 6.00
		<u>Lecture</u> Biochemistry	SGD Anatomy			<u>Lecture</u> Physiology	English Expository Writing	<u>Tutorial</u> Anatomy Biochemistry Physiology Pathology	<u>Practical</u> Histology Biochemistry Physiology		CFRC
16-Dec-26	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1.30 - 2:30	2:30 - 3.30		5:00 - 6.00
		Integrated Formative Assessment 06	<u>Lecture</u> Gross Anatomy	<u>Lecture</u> Physiology		<u>Lecture</u> Behavioural Science	<u>Tutorial</u> Anatomy Biochemistry Physiology Pathology	<u>Clinical Skill</u>	<u>Practical</u> Histology Biochemistry Physiology		CFRC
17-Dec-26	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3.30	5:00 - 6.00		
		<u>Lecture</u> Physiology	SGD Anatomy		<u>Lecture</u> Community Medicine	<u>Tutorial</u> Anatomy Biochemistry Physiology Pathology	<u>Clinical Skill</u>	Computer Science	CFRC		
18-Dec-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		
		<u>Lecture</u> Histology	<u>Lecture</u> Physiology	<u>Lecture</u> Embryology	<u>Lecture</u> Physiology	<u>Lecture</u> Quran	JUMMA BREAK	<u>Lecture</u> Quran	CFRC		

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-33		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # VI		MODULE - 10	
		08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 11:30	11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00
28-Dec-26	Mon	<u>Lecture</u> Physiology	<u>Lecture</u> Embryology	<u>Lecture</u> Physiology	BREAK	<u>Lecture</u> Medicine AGING	<u>Lecture</u> Surgery	<u>Tutorial</u> Anatomy Biochemistry Physiology Pathology	<u>Practical</u> Histology Biochemistry Physiology	BREAK	CFRC
29-Dec-26	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30		5:00 - 6:00
		<u>Lecture</u> Gross Anatomy	<u>Lecture</u> Physiology	<u>Lecture</u> Surgery		<u>Lecture</u> Physiology	<u>Lecture</u> Medicine	<u>Tutorial</u> Anatomy Biochemistry Physiology Pathology	<u>Practical</u> Histology Biochemistry Physiology		CFRC
30-Dec-26	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00
		<u>Lecture</u> Physiology	<u>Lecture</u> Biochemistry	<u>Lecture</u> Behavioural Science		<u>Lecture</u> Physiology	<u>Tutorial</u> Anatomy Biochemistry Physiology Pathology	<u>Clinical Skill</u>	<u>Practical</u> Histology Biochemistry Physiology		CFRC
31-Dec-26	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30	5:00 - 6:00		
		<u>Lecture</u> Biochemistry	<u>Lecture</u> Gross Anatomy	<u>Lecture</u> Physiology	<u>Lecture</u> Community Medicine	<u>Tutorial</u> Anatomy Biochemistry Physiology Pathology	<u>Clinical Skill</u>	English Expository Writing	CFRC		
1-Jan-27	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		
		<u>Lecture</u> Histology	<u>Lecture</u> Physiology	<u>Lecture</u> Medicine	<u>Lecture</u> Peds	<u>Lecture</u> Quran	JUMMA BREAK	<u>Lecture</u> Pakistan Studies	CFRC		

AVICENNA MEDICAL & DENTAL COLLEGE											
TIME TABLE WEEK-34		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:			
DATE	DAY							BLOCK # VI		MODULE - 11	
		08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 11:30	11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00
4-Jan-27	Mon	<u>Lecture</u> Histology	<u>Lecture</u> Pathology	<u>Lecture</u> Pharmacology	BREAK	Computer Science	<u>Lecture</u> Quran	English Expository Writing	<u>Practical</u> Histology Pathology Pharmacology	BREAK	CFRC
5-Jan-27	Tues	<u>Lecture</u> Pathology	<u>Lecture</u> Embryology	<u>Lecture</u> Pathology		English Expository Writing	<u>Lecture</u> Quran	<u>Lecture</u> Pakistan Studies	<u>Practical</u> Histology Pathology Pharmacology		CFRC
6-Jan-27	Wed	Integrated Formative Assessment 07	<u>Lecture</u> Pharmacology	<u>Lecture</u> Pathology		English Expository Writing	<u>Lecture</u> Quran	<u>Clinical Skill</u>	<u>Practical</u> Histology Pathology Pharmacology		CFRC
7-Jan-27	Thur	<u>Lecture</u> Pharmacology	<u>Lecture</u> Embryology	<u>Lecture</u> Pathology		<u>Lecture</u> PERL Research	<u>Lecture</u> Community Medicine	<u>Clinical Skill</u>	<u>Lecture</u> Quran		CFRC
8-Jan-27	Fri	<u>Lecture</u> Biochemistry	<u>Lecture</u> Pathology	<u>Lecture</u> Community Medicine		English Expository Writing	JUMMA BREAK	<u>Lecture</u> Pakistan Studies			CFRC

AVICENNA MEDICAL & DENTAL COLLEGE												
TIME TABLE WEEK-27		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:				
DATE	DAY							BLOCK # VI		MODULE - 10		
		08:00 - 09:00	09:00 - 10:00	10:00-11:00	11:00 - 11:30	11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	3:30 - 5:00	5:00 - 6:00	
9-Nov-26	Mon	SGD Anatomy		Lecture Physiology	BREAK	Lecture Embryology	Lecture Physiology	Lecture PERL Professionalism	Lecture Quran	BREAK	CFRC	
10-Nov-26	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30		5:00 - 6:00	CFRC
		Lecture Biochemistry	Lecture Gross Anatomy	Lecture Physiology		Lecture Embryology	Lecture Physiology	Lecture PERL Ethics	Practical Histology Biochemistry Physiology			
11-Nov-26	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30		5:00 - 6:00	CFRC
		Lecture Histology	Lecture Physiology	Lecture Gross Anatomy		Lecture Physiology	Lecture PERL Research	Lecture PERL Ethics	Practical Histology Biochemistry Physiology			
12-Nov-26	Thur	08:00 - 11:00		11:00-12:30		12:30 - 2:00		2:00-3:30		5:00 - 6:00		
		MODULE - 09 THEORY		MODULE - 09 OSPE / OSVE BATCH - C		MODULE - 09 OSPE / OSVE BATCH - A		MODULE - 09 OSPE / OSVE BATCH - B		CFRC		
13-Nov-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 Gross Anatomy	Lecture Physiology	Lecture Biochemistry	Lecture Physiology	Practical Histology Biochemistry Physiology	JUMMA BREAK		Lecture Pakistan Studies	CFRC		

AVICENNA MEDICAL & DENTAL COLLEGE										
TIME TABLE WEEK-35		M-24 2nd Year MBBS		SESSION 2025-2026				Theme:		
DATE	DAY							BLOCK # VI		MODULE - 11
11-Jan-27	Mon	08:00 - 11:00		11:00-12:30		12:30 - 2:00		2:00-3:30		3:30 - 5:00
		MODULE - 10 THEORY		MODULE - 10 OSPE / OSVE BATCH - C		MODULE - 10 OSPE / OSVE BATCH - A		MODULE - 10 OSPE / OSVE BATCH - B		5:00 - 6:00
12-Jan-27	Tues	08:00 - 09:00	09:00 - 10:00	10:00-11:00	BREAK	11:30 - 12:30	12:30-01:30	1:30-2:30	2:30 - 3:30	5:00 - 6:00
		Lecture Pathology	Lecture Pharmacology	Lecture Pathology		Lecture Community Medicine	English Expository Writing	Lecture Quran	Practical Histology Pathology Pharmacology	CFRC
13-Jan-27	Wed	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30	5:00 - 6:00
		Lecture Biochemistry	Lecture Pathology	Lecture Pharmacology		Computer Science	English Expository Writing	Clinical Skill	Practical Histology Pathology Pharmacology	CFRC
14-Jan-27	Thur	08:00 - 09:00	09:00 - 10:00	10:00-11:00		11:30 - 12:30	12:30-01:30	1:30 - 2:30	2:30 - 3:30	5:00 - 6:00
		Lecture Pathology	Lecture Pharmacology	Lecture Pathology		Lecture Embryology	Lecture Quran	Clinical Skill	Practical Histology Pathology Pharmacology	CFRC
15-Jan-27	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 Histology	Lecture Pathology	Lecture Behavioural Science	Lecture Pathology	Lecture Islamiyat	JUMMA BREAK		Lecture Pakistan Studies	CFRC

Allocation of Hours

AVICENNA MEDICAL COLLEGE, LAHORE																																
2ND YEAR MBBS																																
Wk #	Anatomy			Biochemistry			Physiology			Path			Pharm		Bh.Sc.	C.M.	Clinical Lectures	PERL				Quran	Islamiyat	Pak Std	Clinical Skills	Clinical Rotations	Comp. Sc.	EEW	Sports	Exam	Total	
	Lec	Tut	Prac	Lec	Tut	Prac	Lec	Tut	Prac	Lec	Tut	Prac	Lec	Prac				Prof	Ethics	Research	Lead											
1	9		2	6		2	5		2	1					1	1					2				1	1					39	
2	7	1	2	6	1	2	4	1	2	1					1					2				2	5		1				39	
3	7	2	2	5	1	2	3	1	2	1					1	1			2				1	5			1				39	
4	5	1	2	4	1	2	1				1		2	1						2	1			2	4					1	32	
5	8	1	2	7	1	2	2	1						2	1	1					1	1	1	2	5						39	
6	8	2	2	8	1	2	2	1	2						1	1					1		1	2	5						39	
7	4	1	2	3	1	2	6	1	2	2						1		1			1			5						7	39	
8	5	1	2	5	1	2	7	1	2	2			1		1				1					2	5				1		39	
9	4	1	2	5	1	2	8	1		2		2	1			1				1				2	5				1		39	
10	3	1	2	3	1	2	8	1		3			1	2					1	1				2	5				1	1	39	
11	2	1	2	2	1	2	2	1	2	1			1				1								3	1				1	24	
12	6		2	4		2	6			1		2						1					1		5		1		1	7	39	
13	6	1	1	2	1	1	4	1		1		1								1	1	1			5	1			1	10	39	
14	5	1	2	2	1		5	1	2	2	2	1							1		1			2	4						32	
15	7	1	2	3	1		6	1		1	2	1	2		1				1		1			2	5	1			1		39	
16	6	1	2	2	1	2	4	1		1	2													2	4		1		1		31	
17	6	1	2	3	1	2	6	1	2	2	2				1					1		1	1		5	1			1		39	
18	6	1	1	2	1		6	1	2	1	2		1		1			1			1	1	1	2	5	1			1	1	39	
19	6	1	1	3	1		6	1	2	1	2		1		1					1	1	1	1	2	5	1			1		39	
20	7	1		3	1		9	1	2					1	1	1				1	1		1	2	5				1	1	39	
21	12		2	1		2	4		2	1					1					1					5				1	7	39	
22	11	2	2	1	1	2	4	1	2	1								1							5					5	39	
23	9	2	2		1	2	3	1	2							1				1					4					11	39	
24	12	2	2		1	2	5	1	2	1						1				1				2	5					1	39	
25	13	2	2	1	1	2	4	1	2						1			1			1			2	5					1	39	
26	13	2	2		1	2	5	1	2						1			1					1	2	5							39
27	8		1	2		1	8		1									1	2	1		1			5					7	39	
28	4	1	1	1	1	1	6	1	1											1	1	1	1	2	5		1			10	39	
29	9	1	1	3	1	1	9	1	1				1							1	1	1		2	5		1				39	
30	8	1	1	3	1	1	9	1	1	1										1	1	1		2	5	1	1				39	
31	8	1	1	2	1	1	9	1	1	1					1					1	1	1		2	5	1	1				39	
32	9	1	1	2	1	1	7	1	1		1				1	1				2				2	5	1	1			1	39	
33	4	1	1	2	1	1	8	1	1		1				1	1	6			1			1	2	5		1				39	
34	3		1	1						6		1	3	1		2			1		4	1	2	2	5	1	4			1	39	
35	2		1	1						6		1	3	1	1	1				2	1	1	2	5	1		2				8	39
36																																17
37																																34
38																																27
39																																14
242	36	56	98	29	48	181	29	41	43	2	21	14	10	15	21	9	9	6	7	15	28	13	13	52	169	12	16	28	157	1420		
AL	AT	AP	BL	BT	BP	PL	PT	PP	PtL	PtT	PtP	PhL	PhP	Bh.Sc.	C.M.	Clin Lec	Prof	Ethics	Research	Lead	Quran	Isl	PS	CI SK	CI Rota	CS	EEW	Sports	Exam			
	278	56		127	48		210	41		45	21		24																			65
	334			175			251			66																						1328

Module Outcome

- Describe the neuroanatomy, histology and embryology of the central nervous system.
- Discuss the physiology of Autonomic Nervous System (ANS), motor and sensory system.
- Explain the pathophysiology of common diseases pertaining to the nervous system.
- Explain a basic management and prevention plan for common neurological disorders.
- Appreciate the burden of neuroscience disorders and their psychosocial impact.

Learning Objectives

NORMAL STRUCTURE			
GROSS ANATOMY			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 46	
		DISCIPLINE	TOPIC
NS-A-001	Describe the basic organization of nervous system	Human Anatomy	Nervous system
	Identify and describe the components of the Nervous system and their function	Human Anatomy	
NS-A-002	Trace the Origin, exit from vertebral canal, branches & Distribution of typical spinal nerves.	Human Anatomy	Spinal Nerves
	Identify the Location, Extent, Coverings and Blood supply of spinal cord		

NS-A-003	Discuss & tabulate nuclear organization at different levels of Spinal cord. Describe, draw & label the transverse section of spinal cord at mid cervical level showing ascending & descending tracts Tabulate the sensory nerve endings, and anatomical sites of first, second, third order neurons of ascending tracts Tabulate first, second, third order neurons of descending tracts. Elaborate on the Cross-sectional details of white and gray matter of cervical, thoracic and lumbar segments of Spinal cord for localization of site of lesion.	Human Anatomy	Spinal cord Clinical correlates (Spinal cord)
	Differentiate clearly between upper and lower motor neuron lesions	Human Anatomy	

NS-A-004	Location, Relations, Blood supply and external features of medulla, pons midbrain.	Human Anatomy	Brainstem
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	Cross sectional details of white and grey matter of Brain stem (mid brain, pons, medulla) Discuss clinical correlates of brain stem Medial and lateral medullary syndrome Weber syndrome, Benedikt syndrome		
NS-A-005	Location, Relations, Functional classification & Blood supply along with major connections of Cerebellum (Cerebellar Peduncles) Define important clinical correlates	Human Anatomy	Cerebellum
	Identify the Lobes, Sulci & Gyri, Cortical areas. Describe Venous drainage and arterial supply of each lobe Describe Functional areas of cerebrum. Draw and Label Homunculus. Define important clinical correlates		

NS-A-006	Describe internal structure of cerebral hemisphere; 1. white matter 2. Basal ganglia 3. Lateral ventricle	Human Anatomy	Cerebrum
NS-A-007	Describe components & functions of Limbic system & Reticular formation		Limbic system. Reticular formation
NS-A-008	Explain the origin, exit from the brain and intracranial course of cranial nerves Describe the Functional Components and specific functions of each cranial nerve.	Human Anatomy	Cranial nerves
NS-A-009	Identify the Location and sub division of Diencephalon.	Human Anatomy	Diencephalon
NS-A-010	Discuss the Location, Relations, Blood supply, nuclei and major connections of Thalamus, Hypothalamus, Epithalamus, Subthalamus, Metathalamus Describe and Illustrate the Hypothalamic and pituitary gland Nuclei with their functions, location afferents. Describe the Hypothalamo-Hypophyseal Portal System	Human Anatomy	Thalamus and hypothalamus

	Describe the functions of Hypothalamus Explain the anatomical basis for the Thalamic Cauterization, Thalamic Pain, Thalamic Hand and Hypothalamic Disorders		
NS-A-011	Explain the Gross anatomy of Intracranial fossae with intracranial foramina	Human Anatomy	Intracranial fossa
NS-A-012	Explain the attachments, blood supply and nerve supply of the meninges of the brain	Human Anatomy	Meninges
NS-A-013	Discuss the Origin, tributaries & area of drainage, termination of Dural venous sinuses	Human Anatomy	Dural venous sinuses
NS-A-014	Explain the Formation, circulation and absorption into venous system of CSF (Cerebrospinal fluid) Describe ventricular system, Lateral, 3rd & 4th ventricles	Human Anatomy	CSF
NS-A-015	Discuss the Origin, course, branches and distribution of internal carotid artery, vertebral artery Formation, Location, branches and area of supply of Circle of Willis	Human Anatomy	Blood supply of brain & spinal cord

NS-A-016	Explain the Major subdivision of ANS into Sympathetic and parasympathetic nervous system with comparison of anatomical differences.	Human Anatomy	ANS
NS-A-017	Describe the Location, connections and functions of autonomic ganglion	Human Anatomy	Autonomic ganglia
NS-A-018	Explain the origin, termination and branches of the sympathetic chain Localize spinal cord lesions	Human Anatomy	Sympathetic chain
EMBRYOLOGY & POST-NATAL DEVELOPMENT			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 03	
		DISCIPLINE	TOPIC
NS-A-019	Explain the Development of Neural tube and Brain vesicles. Discuss related clinical anomalies	Embryology	Neural tube development
NS-A-020	Describe the development of the spinal cord and related clinical anomalies	Embryology	Spinal cord development

MICROSCOPIC ANATOMY (HISTOLOGY & PATHOLOGY)			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 05	
		DISCIPLINE	TOPIC
NS-A-021	Describe the histological structure of Nervous tissue, Neuron, Nerve fiber, Sensory & motor nerve endings,	Histology	Nervous tissue

	Neuroglia, Blood brain barrier, ganglia		
NS-A-022	Describe the histological structure of the spinal cord	Histology	Spinal cord
NS-A-023	Describe the histological structure of Cerebrum, Cerebellum	Histology	Cerebrum, Cerebellum
NORMAL FUNCTION			
MEDICAL PHYSIOLOGY			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 60	
		DISCIPLINE	TOPIC
NS-P-001	Describe the general organization of nervous system	Medical Physiology	Organization of Nervous System, Neurons and Synapses
	Classify synapses		
	Explain physiological anatomy of synapses		
	Describe the properties of synaptic transmission		
	Classify the substances that act as neurotransmitters		
	Classify all sensory receptors in the body		
	Enumerate the properties of receptors		
	Explain the mechanism of adaptation of receptors		
	Enlist the rapid adapting mechanism of receptors		

NS-P-002	Explain the properties of receptors		Nerve fibers
	Briefly describe the general, numerical, and Gasser classification of nerve fibers.		
	Explain the numerical classification of nerve fibers		
	Explain Gasser classification of nerve fibers		
	Explain summation and its types		
NS-P-003	Describe the sensory areas of brain		

	Enlist Brodmann number of sensory areas		Sensory areas of the brain
	Describe the effects produced by damage to each sensory area of brain		
	Describe the pathophysiology and features of personal neglect syndrome		
NS-P-004	Classify and explain somatic sensations	Medical Physiology	Somatic sensations
NS-P-005	Enumerate the ascending tracts/Pathways		Ascending Tracts/ pathways
NS-P-006	Enlist the functions & sensations carried by ascending tracts/Pathways		Anterolateral system

NS-P-007	Classify pain	Medical Physiology	Pain
	Differentiate between slow pain and fast pain		
	Describe the analgesia system in brain and spinal cord		
	Describe the cause and features of Brown Sequard Syndrome Define & explain the mechanism of referred pain Explain visceral and parietal pain		
NS-P-008	Describe the Physiological anatomy of spinal cord	Medical Physiology	Spinal cord
	Name the anterior motor neurons and their location		
	Explain the Renshaw cells feedback		
	Classify the spinal cord reflexes according to number of synapses		
NS-P-009	Describe the structure & functions of Muscle spindle		Muscle Spindle and stretch reflex
	Trace the reflex arc of stretch reflex		
	Discuss the clinical significance of stretch reflex		
NS-P-110	Define tone and how it is maintained		Tone
NS-P-011	Trace the reflex arc of Golgi Tendon Organ GTO, Golgi tendon reflex		GTO

	Explain the importance of Golgi tendon reflex		
NS-P-012	Define and explain flexor reflex and cross extensor reflex. Discuss the reflexes of posture and locomotion		Spinal cord reflexes

	Describe the spinal cord reflexes for scratch, muscle spasm and autonomic reflexes		
NS-P-013	Name the motor areas of brain		Motor areas of the brain
	Enlist Brodmann number of motor areas of brain Explain the features produced due to damage to the motor areas		
NS-P-014	Enlist the functions of brain stem		Brainstem
NS-P-015	Enumerate the descending tracts	Medical Physiology	Descending tracts
	Describe the functions of Pyramidal tract		
	Describe the functions of Pyramidal & extrapyramidal tracts		
	Discuss the location of upper and lower motor neuron		Location of motor neurons
	Explain the features of upper motor neuron lesion		

NS-P-016	Explain the features of lower motor neuron lesions		
NS-P-017	Define spinal shock	Medical Physiology	Spinal shock and hemi section
	Enumerate and explain the stages of spinal shock		
	Describe the features of hemi section of spinal cord (at the level, above the level, below the level)		
NS-P-018	Name the functional parts of cerebellum		Cerebellum
	Explain the functions of spinocerebellum		
	Describe the functions of cerebro cerebellum		
	Discuss the functions of vestibule cerebellum		
	Explain the clinical features of cerebellar disease		
NS-P-019	Name the components of Basal ganglia		Basal Ganglia
	EXPLAIN the putamen and caudate circuits		
	Enlist the neurotransmitters in basal ganglia and enlist the functions of basal ganglia		
	Enumerate and explain the clinical abnormalities of putamen circuit		

	Explain the pathophysiology and features of Parkinson's disease.		
	Explain the pathophysiology and features of Huntington's disease		
	Explain the types of rigidity		
	Differentiate spasticity and rigidity		
	Define decerebrate rigidity		
NS-P-020	Enumerate the components of vestibular Apparatus	Medical Physiology	Vestibular apparatus
	Name the sensory organs of vestibular apparatus		
	Describe the role of vestibular Apparatus in maintenance of linear and angular equilibrium		
NS-P-021	Enlist the components of limbic system		Limbic system
	Describe the functions of amygdala		
	Explain the effects of bilateral ablation of the amygdala—The Klüver-Bucy Syndrome		
	Explain the functions of hippocampus		
	Explain the functions of Hypothalamus		
	Explain Functions of Thalamus		
	Discuss the Thalamic syndrome		

NS-P-022	define brain stem reticular formation (BRF), name the neurotransmitters of BRF, enlist functions of BRF, differentiate between the functions of Pontine and medullary reticular Formation	Medical Physiology	Brain stem reticular formation
NS-P-023	Enumerate and discuss the physiological basis of Electroencephalogram EEG waves	Medical Physiology	EEG
NS-P-024	Explain the types of sleep		Sleep
	Discuss the stages of slow wave sleep		
	Explain the changes in EEG during sleep wake cycle		
	Enumerate the areas and hormones/ neurotransmitters involved in sleep		

	Describe sleep disorders (narcolepsy, cataplexy, insomnia, somnolence, somnambulism, bruxism, nocturnal enuresis and sleep apnea)		
NS-P-025	Enumerate different types of epilepsy		Epilepsy
	Explain the features and physiological basis and EEG waves in different types of epilepsy		

NS-P-026	Define memory		Memory	
	Classify memory on the basis of duration and information stored			
	Explain the Molecular Mechanism of Intermediate Memory			
	Enumerate the structural changes of long-term memory			
	Explain the higher intellectual functions of prefrontal association cortex	Medical Physiology		Speech
	Explain the mechanism of consolidation of memory			
	Explain retrograde and anterograde amnesia			
	Explain the physiological basis and features of Alzheimer's disease			
Enlist the areas of speech				
Explain the functions of motor and sensory areas of speech				
Trace and explain the pathway of written and heard speech				
Enlist the abnormalities of speech				
Explain the features of motor aphasia				

NS-P-027	Elaborate the features of sensory aphasia		
	Define dyslexia, alexia, agraphia		
NS-P-028	Discuss the sites of CSF secretion, flow of CSF, and abnormalities of CSF production	Medical Physiology	CSF (Cerebrospinal Fluid)
	Discuss the formation, flow and absorption of CSF		
	Explain the functions of CSF		

	Explain the composition and flow of CSF and pathophysiology of hydrocephalus.		
	Explain the regulation of CSF pressure, increase in CSF pressure in pathological conditions of the brain, and measurement of CSF pressure.		

MEDICAL BIOCHEMISTRY			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 20	
		DISCIPLINE	TOPIC
NS-B-001	Explain the digestion and absorption of lipids with enzymes involved in it. Discuss role of bile acids and salts in lipid digestion and absorption		Digestion and absorption of lipids

NS-B-002	Explain the concept of lipid transport and storage. Discuss the metabolism of cholesterol along with its regulations and associated disorders	Medical Biochemistry	Lipid transport and storage and cholesterol metabolism
NS-B-003	Discuss the reactions of beta-oxidation, alpha and omega oxidation of unsaturated and saturated fatty acids Calculate energy yield from palmitate in oxidation		Sphingolipidosis
NS-B-004	Discuss role of carnitine shuttle		Carnitine shuttle
NS-B-005	Discuss the role of citrate shuttle in fatty acid synthesis		Citrate shuttle
NS-B-006	Explain the pathway of fatty acid synthesis and its regulation Explain the steps of the reactions of hepatic ketogenesis and regulation		Fatty acid synthesis
NS-B-007	Describe utilization of ketone bodies by extrahepatic tissue. Describe the Synthesis and degradation of phospholipids and sphingolipids		Metabolism of phospholipids and sphingolipids

	interpret the disorders related to enzyme deficiencies.		
NS-B-008	Discuss the metabolism of glycolipids interpret the disorders related to enzyme deficiencies.		Glycolipid metabolism

NS-B-009	Explain fast feed cycle with reference to pathways activated and suppressed in each tissue in starved and fed state Discuss integration of metabolism		Fast feed cycle
NS-B-010	Explain fast. Discuss the structure, biochemical function and metabolism, dopamine, serotonin, histamine, GABA, Acetylcholine Correlate the biochemical functions of these neurotransmitters with their deficiency diseases		Neurotransmitters
NS-B-011	Explain proto-oncogene, oncogene and tumor suppressor genes concept.	Medical Biochemistry	Oncogene

NS-B-012	Discuss tumor markers and their significance.		Tumor markers
NS-B-013	Explain the role of genetics in cancers especially breast, ovary, lung and colon.		Cancer
NS-B-014	Discuss the metabolism of xenobiotics.		Xenobiotics
PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 05	
		DISCIPLINE	TOPIC
NS-Ph-001	Classify various CNS stimulants and depressants	Pharmacology	CNS stimulants & depressants
NS-Pa-001	Discuss the pathophysiology of cerebral vascular accident (CVA).	Pathology	CVA
NS-Pa-002	Define Meningitis Identify types of meningitis	Microbiology	Meningitis
DISEASE PREVENTION AND IMPACT			
CODE	COMMUNITY MEDICINE & BEHAVIORAL SCIENCE	TOTAL HOURS = 10	
	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	TOPIC
NS-CM-001	Students should be able to depict the depth of problem in context of mental illnesses	Community Medicine	Epidemiology of Mental Disorders

NS-CM-002	Able to learn the general approach to prevent mental illnesses at community level	and Public Health	Community based
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			interventions for Mental Illnesses
NS-BhS-001	Explain the theoretical basis of classic conditioning, operant conditioning and observational learning with examples in medical practice Incorporate learning principles to help prepare people for medical interventions	Behavioral Sciences	Learning and Behavior
NS-BhS-002	Outline the structure of memory and explain the distinction between short- and long-term memory. Describe memory improvement techniques and how the appropriate ones will help patients recall long and complex explanations		Memory
NS-M-001	Identify various types of CVA (cerebrovascular accident) Describe various symptoms and signs Outline management strategies	Medicine	Stroke/CVA

NS-S-001	Discuss the role of surgery in stroke	Surgery	Stroke/CVA
NS-M-002	Define Epilepsy Enlist various types of epilepsy Identify various symptoms and signs Outline management strategies	Medicine	Epilepsy
NS-M-003	Enlist various types of meningitis Describe symptoms and signs Outline management strategies	Medicine / Neurology	Meningitis
NS-S-002	Describe triage in ER Emergency Room	Surgery	Head injury
NS-S-003	Identify the various types of hematomas	Neurosurgery	Hematoma/CVA
NS-Pe-001	Describe the clinical features of Cerebral Palsy	Pediatrics	Cerebral Palsy
AGING			
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 01	
		DISCIPLINE	TOPIC
	Define dementia		

NS-Ag-001	Discuss various causes for dementia	Medicine	Dementia
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	Discuss various risks for dementia		
	Outline management strategies		

HISTOLOGY			
COD E	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 07	
		DISCIPLINE	TOPIC
NS-A-024	Identify draw & label light microscopic structure of Peripheral nerve sensory ganglia, autonomic ganglia	Histology	CNS
NS-A-025	Identify Draw & label the light microscopic structure of the spinal cord	Histology	Cerebrum
NS-A-026	Identify Draw & label the light microscopic structure of the Cerebrum	Histology	Cerebellum
NS-A-027	Identify Draw & label the light m structure of the Cerebellum	Histology	Spinal Cord
BIOCHEMISTRY			
COD E	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 04	
		DISCIPLINE	TOPIC

NS-B-015	Interpret the lysosomal storage diseases on given data Neiman pick disease, Gaucher's disease etc.	Biochemistry Practical	Data Interpret
NS-B-016	Perform the estimation of serum triglycerides, cholesterol, HDL by kit method and calculate LDL and VLDL		Estimation of lipids

PHYSIOLOGY

COD E	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 13	
		DISCIPLINE	TOPIC
NS-P-029	Examine the Sensory System	Physiology Practical	Sensory system
NS-P-030	Examine the Superficial Reflexes		Superficial Reflexes
NS-P-031	Examine the Deep Reflexes		Deep Reflexes
NS-P-032	Demonstrate Cerebellar Function Test		Cerebellar Tests
NS-P-033	Demonstrate the testing of Cranial Nerve (CN) VII		CN VII

NS-P-034	Demonstrate the Testing of Cranial Nerves (XI, XII)		CN X, XI, XII
NS-P-035	Examine the Motor system		Motor system

Infrastructure Resources

Sr .	Infrastructure Resources	Description
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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.

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

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-6 Modules (NEUSCIENCE-1 & INFALMMATION)	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:

Avicenna Medical College

2nd Year MBBS – Exam Schedule – 2026/27

Week #	Date	Exam
3	20/4/26 to 24/4/26	Tutorial Test
4	29/4/26	Integrated Formative Assessment – 01
5	4/5/26 to 8/5/26	Tutorial Test
6	11/5/26 to 15/5/26	Tutorial Test
7	21/5/26	Module – 06 (Theory + OSPE/OSVE)
9	8/6/26 to 12/6/26	Tutorial Test
10	17/6/26	Integrated Formative Assessment – 02
11	24/6/26	Allied Subjects Integrated Formative Assessment – 01
12	2/7/26	Module – 07 (Theory + OSPE/OSVE)
13	6/7/26	Block – IV (Theory)
13	7/7/26	Block – IV (OSPE / OSVE)
15	17/8/26 to 21/8/26	Tutorial Test
16	24/8/26 to 28/8/26	Tutorial Test
17	31/8/26 to 4/9/26	Tutorial Test
18	9/9/26	Integrated Formative Assessment – 03
20	23/9/26	Integrated Formative Assessment – 04
21	30/09/26	Module – 08 (Theory + OSPE/OSVE)
23	12/10/26 to 16/10/26	Tutorial Test
24	21/10/26	Integrated Formative Assessment – 05
25	28/10/26	Allied Subjects Integrated Formative Assessment – 02
26	2/11/26 to 6/11/26	Tutorial Test
27	11/11/26	Module – 09 (Theory + OSPE/OSVE)
28	16/11/26	Block – V (Theory)
28	17/11/26	Block – V (OSPE / OSVE)
30	30/11/26 to 4/12/26	Tutorial Test
31	7/12/26 to 11/12/26	Tutorial Test
32	16/12/26	Integrated Formative Assessment – 06
33	28/12/26 to 1/1/27	Tutorial Test
34	6/1/27	Integrated Formative Assessment – 07
35	13/1/27	Module – 10 (Theory + OSPE/OSVE)
35	18/1/27	Allied Subjects Integrated Formative Assessment – 03
36	21/1/27	Module – 11 (Theory + OSPE/OSVE)
36	25/1/27	Block – VI (Theory)
36	26/1/27	Block – VI (OSPE / OSVE)

Table of Specification

Version 1.001-02

MBBS 2nd Professional

Rectangular Snip

Block-6

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	39	39	03	-	01	38
Normal Function	Physiology applied/clinical	47	47	04	-	01	46
	Biochemistry applied/clinical	22	22	01	-	01	22
Disease Burden & Prevention	Community Medicine & Public Health	04	04	-	-	-	-
	Behavioral Sciences	03	03	-	-	-	-
Pathophysiology & <u>pharmacotherapeutics</u>	Pathology	17	17	02	-	-	16
	Pharmacology	08	08	01	-	-	08
CFRC	CF-2	-	-	-	01	-	05
PERLs	PERLs-2	-	-	-	01	-	05
Total		140	140	11 stations x 08 = 88	02 stations x 05 = 10	03 stations x 14=42	140

Recommended Books & Reading Resources

Anatomy

Snell's Clinical Anatomy 10th edition.

Langman's Medical Embryology 12th edition

Medical Histology by Laiq Hussain Siddiqui 8th edition.

General Anatomy by Laiq Hussain Siddiqui 6th edition.

Biochemistry

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

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

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

Pathology

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

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

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

Walter and Israel. General Pathology. Churchill Livingstone.

Robbins & Kumar, Medical Microbiology and Immunology Levinson.

General Medicine

Principles and Practice of Medicine by Davidson (latest edition)

Clinical Medicine by Parveen J Kumar & Michael Clark

Oxford Handbook of Medicine

Macleod's Clinical Examination book

Medicine and Toxicology by C.K. Parikh

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

Pharmacology And Therapeutics

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

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

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

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

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

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

Katzung Basic and Clinical pharmacology, Lippincott Illustrated reviews.

Clinical Pathology Interpretations by A. H. Nagi

Behavioural Sciences

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

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

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

Community medicine

Parks Textbook of Preventive and Social Medicine. K. Park

Public Health and Community Medicine by Ilyas Ansari

MSDS manual of Government of Punjab

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

Surgery

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

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

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

Patient Safety

Patient Safety Curriculum Guide: Multi Professional Guide

Microbiology

Levinson's review of Microbiology

Medical Microbiology and Immunology by Levinson and Jawetz,

Pediatrics Medicine

Nelson Textbook of Pediatrics

Basis of Pediatrics by Pervez Akbar Khan

Gynecology

Gynecology by Ten Teachers

Infection Control

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

Biosafety

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

WHO Laboratory Biosafety Manual, Fourth Edition, And Associated Monographs

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

Family medicine

Oxford Handbook of General Practice, 5th Edition

Orthopedics

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

Rheumatology

Davidson's Principles and Practice of Medicine

Clinical Medicine by Parveen J Kumar & Michael Clark

Hutchison's Clinical Methods by Michael Swash

Radiology

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

Elsevier Science Limited; 2003.

Forensic Medicine

Knight's Forensic Pathology by Barnard Knight 3rd edition

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

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

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

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

Knight B. Simpson's Forensic Medicine.

Knight and Pekka. Principles of Forensic Medicine

Forensic Pathology

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

Toxicology

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

Forensic Sciences

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

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

Biomedical ethics

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

Evidence Based Medicine

Databases for the latest articles/manuscripts

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

Books (Latest edition-within last 5 years)

Pediatrics

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

Islamiyat

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

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