

AVICENNA MEDICAL & DENTAL COLLEGE



STUDY GUIDE

2025

Neurosciences- BLOCK 6- MODULE 10



Program: MBBS
Year: 2nd Professional Year
Batch No: M-23
Session: 2024-2025

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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

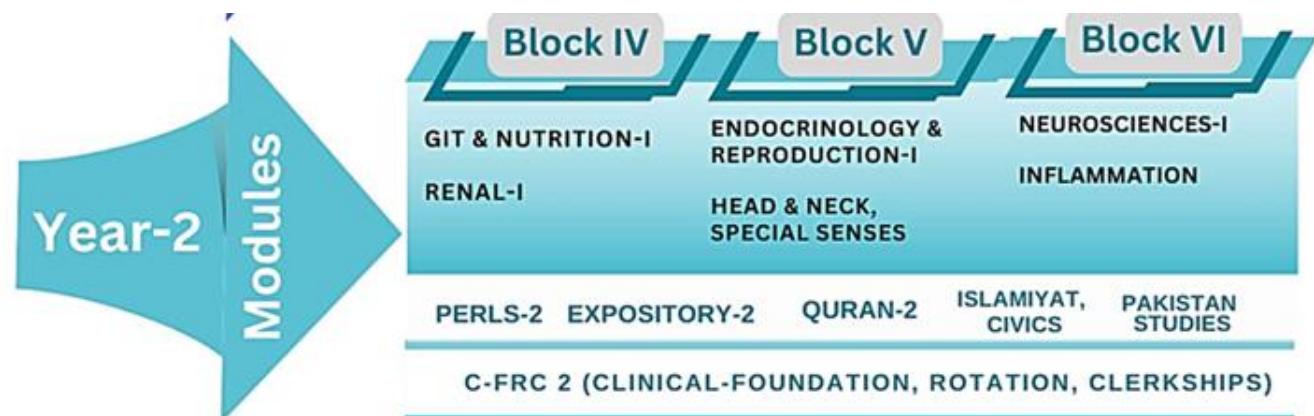
	CMV	cytomegalo virus
	CNS	Central Nervous System
	CO	Carbon monoxide
	CO2	Carbon dioxide
	CODIS	combined DNA index system
	COPD	Chronic obstructive pulmonary disease
	COVID-19	Corona Virus Disease 2019
	COX	Cyclooxygenase
	CPR	Cardiopulmonary Resuscitation
	CR	Clinical Rotation
	CRP	Clinical Rotation CSF C- Reactive Protein
	CSF	Cerebro Spinal Fluid
	CT	Computed tomography
	CV	Cardiovascular
	CVA	Cerebral vascular accident
	CVS	Cerebrovascular system
D	D.medinensis	Dracunculus Medinensis
	DALY	Disability-Adjusted Life Year
	DCIS	Ductal Carcinoma in situ
	DCM	Dilated Cardiomyopathy Dorsal Colu
	DCMLS	Dorsal column medial lemniscus system
	DLC	Differential Leukocyte Count
	DMARDs	Disease Modifying Anti Rheumatic Drugs
	DNA	DeoxyRibonucleic Acid
	DOTS	Directly Observed Treatment Short-course
	DTP	Diphtheria, Tetanus, Pertussis
	DVI	Disaster Victim Identification
	DVT	Deep Vein Thrombosis
E	E.coli	Escherichia coli
	ECF	Extracellular Fluid
	ECG	Electrocardiography
	ECP	Emergency contraceptive pills
	ED50	Median Effective Dose
	EEG	Electroencephalogram
	EIA	Enzyme Immunoassay
	ELISA	Enzyme Linked Immunosorbent Assay
	EnR	Endocrinology & Reproduction
	ENT	Ear Nose Throat
	EPI	Expanded Programme on Immunization
	ER	Emergency Room
F	F	Foundation
	FAST	Focused Assessment with Sonography
	FEV1	Forced Expiratory Volume 1
	FM	Family Medicine
	For	Forensic Medicine
	FPIA	Fluorescent Polarization Immunoassay
	FS	Forensic Serology
	FSc	Forensic Science
	FVC	Forced Vital Capacity
G	GCS	Glasgow Coma Scale

	GFR	Glomerular Filtration Rate
	GIT	Gastrointestinal tract
	GL-MS	Gas Liquid Mass Spectrometry
	GLC	Gas Liquid Chromatography
	GLP	Guanosine Monophosphate
	GMP	Guanosine monophosphate
	GO	Gynecology and Obstetrics
	GP	General Practitioner
	GPE	General Physical Examination
	GTO	Golgi Tendon Organ
	Gynae & Obs	Gynecology and Obstetrics
H	H & E	Hematoxylin and eosin
	H. influenzae	Haemophilus influenzae
	H.pylori	Helicobacter pylori
	HAI	Healthcare Associated Infections
	HbC	Hemoglobin C
	HbS	Sickle Hemoglobin
	HbSC	Hemoglobin Sickle C Disease
	HCL	Hydrochloric Acid
	HCM	Hypertrophic Cardiomyopathy
	HHV	Human Herpesvirus
	HIT	Hematopoietic, Immunity and Transplant
	HIV	Human Immunodeficiency Virus
	HL	Hematopoietic & Lymphatic
	HLA	Human Leukocyte Antigen
	HMP	Hexose Monophosphate
	HNSS	Head & Neck and Special Senses
	HPLC	High Pressure Liquid Chromatography
I	ICF	Intra Cellular Fluid
	ID	Infectious Diseases
	IE	Infective Endocarditis
	IL	Interleukin
	ILD	Interstitial Lung Disease
	IN	Inflammation
	INR	International Normalized Ratio
	INSTIs	Integrase Strand Transfer Inhibitors
	IPV	Intrauterine Device
	IUD	Intrauterine device
	IUGR	Intra-Uterine Growth Restriction
J	JVP	Jugular Venous Pulse
L	L	Law
	LD50	Median Lethal Dose
	LDH	Lactate Dehydrogenase
	LSD	Lysergic acid diethylamide
M	M	Medicine
	MALT	Mucosa Associated Lymphoid Tissue
	MBBS	Bachelor of Medicine, Bachelor of Surgery
	MCH	Mean corpuscular hemoglobin
	MCHC	Mean Corpuscular Hemoglobin Concentration
	MCV	Mean Corpuscular Volume
	MHO2001	Mental Health Ordinance 2001
	MoA	Mechanism of action

	MRI	Mechanism of action
	MS	Musculoskeletal
	MSD	Musculoskeletal disorders
	MSDS	Minimum Service Delivery Standards
	MSK	Musculoskeletal
N	N	Neoplasia
	NEAA	Non-Essential Amino Acids
	NK cells	Natural Killer Cells
	NNRTI	Non-nucleoside Reverse Transcriptase Inhibitors
	NRTIs	Nucleoside Reverse Transcriptase Inhibitors
	NS	Neurosciences
O	NSAIDs	Non-steroidal Anti-Inflammatory Drugs
	O	Ophthalmology
	OA	Osteoarthritis
	OPC	Organophosphate
	OPV	Oral poliovirus vaccine
	Or	Orientation
P	Orth	Orthopaedic
	P	Physiology
	P.jiroveci	<i>Pneumocystis jiroveci</i>
	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
Q	PT	Prothrombin Time
	PVC	Premature Ventricular Contraction
	PVD	Peripheral Vascular Diseases
	QALY	Quality-Adjusted Life Year
R	QI	Quran and Islamiyat
	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. bancrofti	Wuchereria bancrofti
	WBCs	White Blood Cells
	WHO	World Health Organization
Z	ZN Staining	Ziehl-Neelsen Staining

Curriculum Framework



Introduction to the Study Guide

Welcome to the Avicenna Medical & Dental College Study Guide!

This guide serves as your essential resource for navigating the complexities of your medical education at Avicenna Medical & Dental College. It integrates comprehensive details on institutional framework, curriculum, assessment methods, policies, and resources, all meticulously aligned with UHS, PMDC and HEC guidelines.

Each subject-specific study guide is crafted through a collaborative effort between the Department of Medical Education and the respective subject departments, ensuring a harmonized and in-depth learning experience tailored to your academic and professional growth.

Objectives of the Study Guide

1. Institutional Understanding:

- Gain insight into the college's organizational structure, vision, mission, and graduation competencies as defined by PMDC, setting the foundation for your educational journey.

2. Effective Utilization:

- Master the use of this guide to enhance your learning, understanding the collaborative role of the Department of Medical Education and your subject departments, in line with PMDC standards.

3. Subject Insight:

- Obtain a comprehensive overview of your courses, including detailed subject outlines, objectives, and departmental structures, to streamline your academic planning.

4. Curriculum Framework:

- Explore the curriculum framework, academic calendar, and schedules for clinical and community rotations, adhering to the structured guidelines of UHS & PMDC.

5. Assessment Preparation:

- Familiarize yourself with the various assessment tools and methods, including internal exam and external exam criteria, and review sample papers to effectively prepare for professional exams.

6. Policies and Compliance:

- Understand the institutional code of conduct, attendance and assessment policies, and other regulations to ensure adherence to college standards and accrediting body requirements.

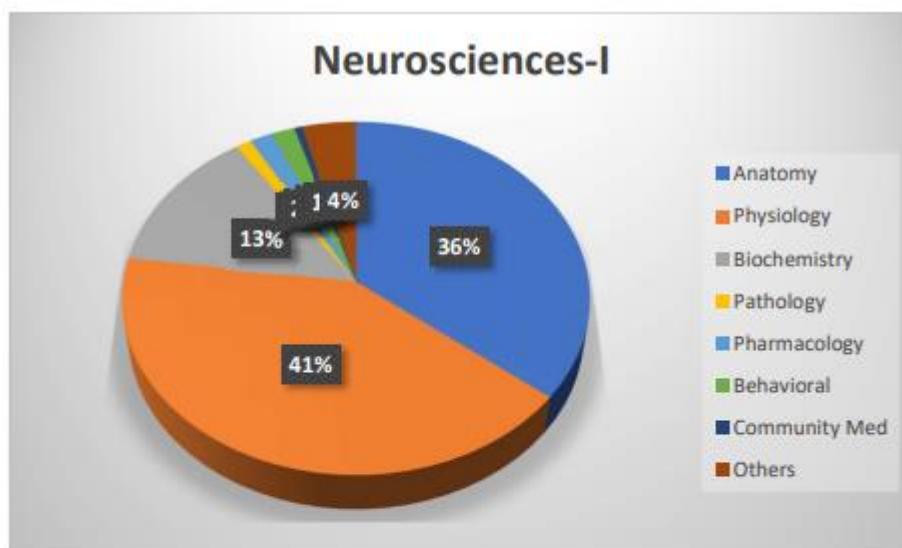
7. Learning Resources:

- Utilize the learning methodologies, infrastructure resources, and Learning Management System to maximize your educational experience and academic success.

This guide, meticulously developed in collaboration with your subject departments, is designed to support your academic journey and help you achieve excellence in accordance with the highest standards set by PMDC and HEC.

Introduction to Module

- The module 6 is designed to build upon and consolidate the foundational knowledge acquired in the earlier years of medical education, particularly from the Foundation-I module.
- As students transition into their clinical years, it is crucial to reinforce and deepen their understanding of basic medical sciences to support the integration of new, clinically relevant concepts.
- This module serves as a bridge, revisiting core topics in general Pharmacology, Pathology, and Forensic medicine with an emphasis on their clinical applications.
- By doing so, it ensures that students develop a more comprehensive understanding, which is vital for the advanced study of organ systems in subsequent modules (e.g., CVS 2, Respiratory-2, GIT-2, Neurosciences-2, and Reproduction 2).
- Mastery of these topics is essential before students can effectively approach the complexities of clinical scenarios.
- The revisiting of these concepts throughout the curriculum ensures a robust and integrated understanding, laying a solid foundation for clinical competence.



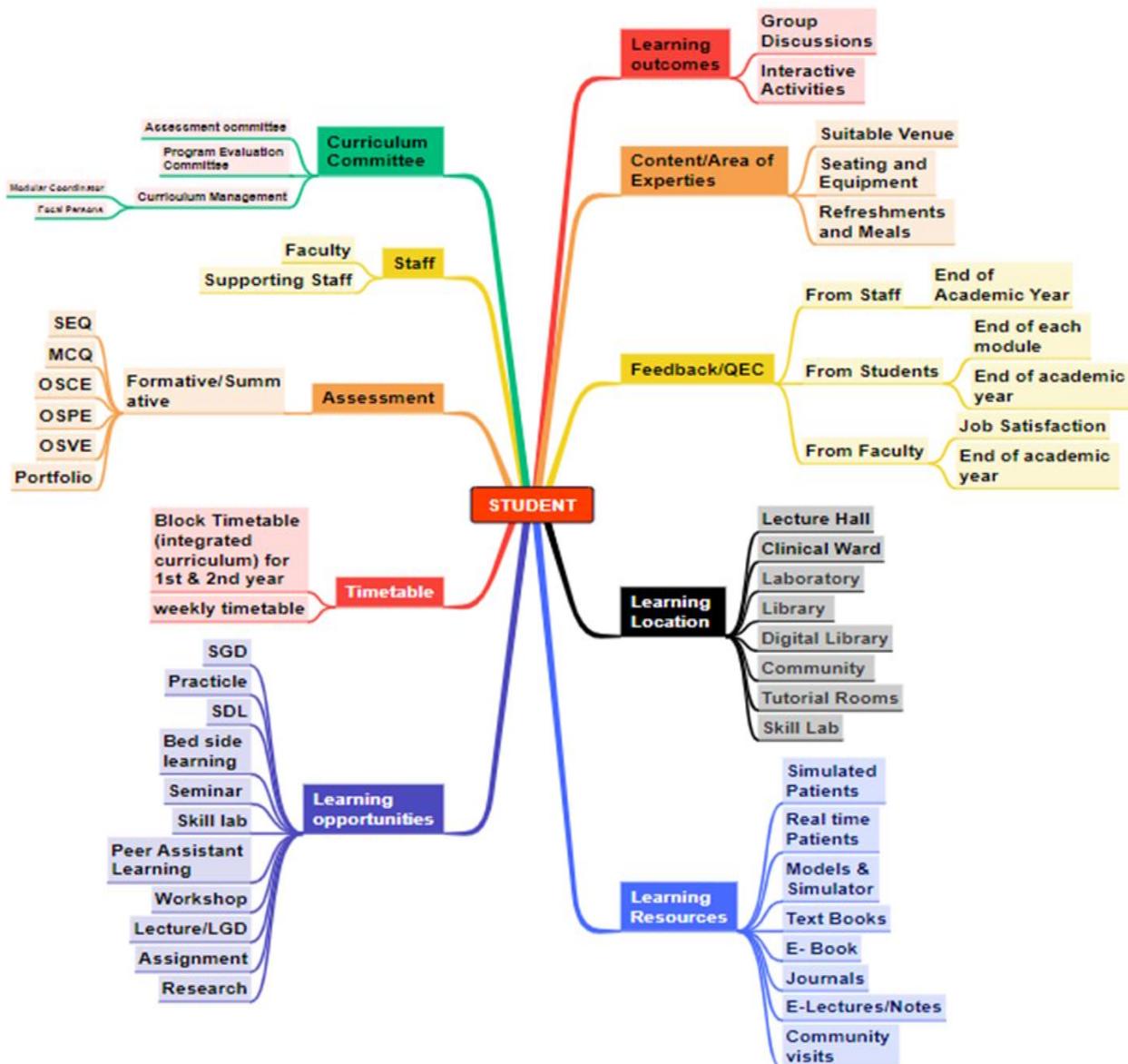
Module Weeks	Recommended Minimum Hours
07	174

Module Committee

Name	Designation	Department
Prof. Dr. Gulfreeen Waheed	Principal & Director	Medical Education
Dr. Saba Iqbal	Associate Director	Medical Education
Dr. Ijlal Zehra	Head	Assessment Cell
Dr. Javaid Shabkhez Rab	Coordinator	Medical Education
Dr. Salar Arsalan	Demonstrator	Medical Education
Dr. Zaib Hassan	Demonstrator	Medical Education
Ms. Tamzeela	Co-Coordinator	Medical Education
Mr. Adeel	Head	Student Affairs
Prof. Dr. Saeed Afzal	Head	Pathology
Dr. Majid	Focal Person	Pathology
Prof. Dr. Asma Saeed	Head	Pharmacology
Dr. Azka	Focal Person	Pharmacology
Prof. Dr. Rana Akhtar	Head	Community Medicine
Dr. Usman Sheikh	Focal Person	Community Medicine
Prof. Dr. Zainab	Head	Forensic Medicine
Dr. Anwar	Focal Person	Forensic Medicine
Prof. Dr. Hassan Khan	Head	Surgery Unit-1
Prof. Dr. Khalid Nizami	Head	Surgery Unit-2
Dr. Sumaira	Focal Person	General Surgery
Prof. Dr. Muzammil	Head	Medicine Unit-1
Prof. Dr. Waheed Ahmed	Head	Medicine Unit-2
Dr. Usman	Focal Person	General Medicine
Dr. Usman	Focal Person	Psychiatry
Dr. Usman	Focal Person	Family Medicine
Dr. Farhat	Head	Behavioural Sciences
Dr. Uzma	Focal Person	Paediatrics

Curriculum Map

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



Timetable

AVICENNA MEDICAL COLLEGE										
TIME TABLE M-23		2ND YEAR MBBS Week - 31			SESSION 2024 - 2025				BLOCK # VI MODULE - 10	
DATE	DAY	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:00	
22/09/2025	Mon	Lecture Anatomy	Lecture Physiology	Lecture Anatomy	Lecture PERLs	<u>BREAK</u>	SGD 3 BATCHES + 1 Patho Prac	PRACTICAL 3 BATCHES	Clinical	
23/09/2025	Tues	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
24/09/2025	Wed	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
<u>PREPARATION LEAVE</u>										
25/09/2025	Thur	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:00	
26/09/2025	Fri	BLOCK - V			KEY DISCUSSION	<u>BREAK</u>	SGD 3 BATCHES + 1 Patho Prac	PRACTICAL 3 BATCHES	SDL	
		08:00 - 09:00	09:00 - 10:00	10:00 - 10:30	10:30 - 11:30	11:30 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:30	
		OSPE + OSVE		<u>BREAK</u>	SGD 3 BATCHES + 1 Patho Prac	Lecture Holy Quran	SDL	Jumma Break	SDL	

AVICENNA MEDICAL COLLEGE

TIME TABLE M-23		2ND YEAR MBBS Week - 32			SESSION 2024 - 2025					BLOCK # VI MODULE - 10	
DATE	DAY	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:00		
29/09/2025	Mon	Lecture Anatomy	Lecture Biochemistry	Lecture Anatomy	Lecture Physiology		SGD 4 BATCHES		PRACTICAL 4 BATCHES	Clinical	
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 11:00</u>	<u>11:00 - 12:00</u>		<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:00</u>		
30/09/2025	Tues	Lecture Biochemistry	Lecture Physiology	Lecture Anatomy	Lecture Medicine		SGD 4 BATCHES		PRACTICAL 4 BATCHES	Clinical	
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 11:00</u>	<u>11:00 - 12:00</u>		<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:00</u>		
01/10/2025	Wed	Lecture Physiology	Lecture Anatomy	Lecture Biochemistry	Lecture Pathology		SGD 4 BATCHES		PRACTICAL 4 BATCHES	Clinical	
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 11:00</u>	<u>11:00 - 12:00</u>		<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:00</u>		
02/10/2025	Thur	GRAND TEST Physiology			OSPE + OSVE Physiology			SGD 4 BATCHES		SDL	
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 11:00</u>	<u>11:00 - 12:00</u>		<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:00</u>		
03/10/2025	Fri	Lecture Physiology	Lecture Anatomy	<u>BREAK</u>	Lecture Com. Med.	Lecture Peds	<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:30</u>	SDL	
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 10:30</u>	<u>10:30 - 11:30</u>	<u>11:30 - 12:30</u>	<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:30</u>	Jumma Break	

AVICENNA MEDICAL COLLEGE

TIME TABLE M-23		2ND YEAR MBBS Week - 33		SESSION 2024 - 2025					BLOCK # VI MODULE - 10	
DATE	DAY	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:00	
06/10/2025	Mon	Lecture Anatomy	Lecture Biochemistry	Lecture Anatomy	Lecture Physiology		SGD 4 BATCHES	PRACTICAL 4 BATCHES		Clinical
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
07/10/2025	Tues	Lecture Biochemistry	Lecture Physiology	Lecture Anatomy	Lecture Medicine		SGD 4 BATCHES	PRACTICAL 4 BATCHES		Clinical
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	BREAK	12:30-01:30	01:30 - 02:30	02:30 - 03:00	
08/10/2025	Wed	Lecture Physiology	Lecture Anatomy	Lecture Biochemistry	Lecture Pharmacology		SGD 4 BATCHES	PRACTICAL 4 BATCHES		Clinical
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
09/10/2025	Thur	GRAND TEST Anatomy		OSPE + OSVE Anatomy			SGD 4 BATCHES	PRACTICAL 4 BATCHES		SDL
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
10/10/2025	Fri	Lecture Physiology	Lecture Anatomy	BREAK	Lecture Beh. Sc.	Lecture Surgery	SDL	Jumma Break		SDL

AVICENNA MEDICAL COLLEGE

TIME TABLE M-23		2ND YEAR MBBS Week - 34		SESSION 2024 - 2025					BLOCK # VI MODULE - 10	
DATE	DAY	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:00	
13/10/2025	Mon	Lecture Anatomy	Lecture Biochemistry	Lecture Anatomy	Lecture Physiology	BREAK	SGD 4 BATCHES	PRACTICAL 4 BATCHES	Clinical	
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
14/10/2025	Tues	Lecture Biochemistry	Lecture Physiology	Lecture Anatomy	Lecture Medicine	BREAK	SGD 4 BATCHES	PRACTICAL 4 BATCHES	Clinical	
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
15/10/2025	Wed	Lecture Physiology	Lecture Anatomy	Lecture Biochemistry	Lecture Pathology	BREAK	SGD 4 BATCHES	PRACTICAL 4 BATCHES	Clinical	
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
16/10/2025	Thur	GRAND TEST Biochemistry		OSPE + OSVE Biochemistry		BREAK	SGD 4 BATCHES	PRACTICAL 4 BATCHES	SDL	
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
17/10/2025	Fri	Lecture Physiology	Lecture Anatomy	BREAK	Surgery	Lecture Holy Quran	SDL	Jumma Break	SDL	

AVICENNA MEDICAL COLLEGE

TIME TABLE M-23		2ND YEAR MBBS Week - 35		SESSION 2024 - 2025					BLOCK # VI MODULE - 10	
DATE	DAY	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:00	
20/10/2025	Mon	Lecture Anatomy	Lecture Biochemistry	Lecture Anatomy	Lecture Physiology		SGD 4 BATCHES	PRACTICAL 4 BATCHES		Clinical
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 11:00</u>	<u>11:00 - 12:00</u>		<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:00</u>	
21/10/2025	Tues	Lecture Biochemistry	Lecture Physiology	Lecture Anatomy	Lecture Aging Medicine		SGD 4 BATCHES	PRACTICAL 4 BATCHES		Clinical
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 11:00</u>	<u>11:00 - 12:00</u>	<u>BREAK</u>	<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:00</u>	
22/10/2025	Wed	Lecture Physiology	Lecture Anatomy	Lecture Pharmacology	Lecture Pathology		SGD 4 BATCHES	PRACTICAL 4 BATCHES		Clinical
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 11:00</u>	<u>11:00 - 12:00</u>		<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:00</u>	
23/10/2025	Thur	GRAND TEST Physiology		OSPE + OSVE Physiology			SGD 4 BATCHES	PRACTICAL 4 BATCHES		SDL
		<u>08:00 - 09:00</u>	<u>09:00 - 10:00</u>	<u>10:00 - 11:00</u>	<u>11:00 - 12:00</u>		<u>12:30-01:30</u>	<u>01:30 - 02:30</u>	<u>02:30 - 03:00</u>	
24/10/2025	Fri	Lecture Beh. Sc.	Lecture Anatomy	<u>BREAK</u>	Lecture Com. Med.	Lecture Holy Quran	SDL	Jumma Break		SDL

AVICENNA MEDICAL COLLEGE

TIME TABLE M-23		2ND YEAR MBBS Week - 36		SESSION 2024 - 2025					BLOCK # VI MODULE - 10	
DATE	DAY	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:00	
27/10/2025	Mon	Lecture Anatomy	Lecture Pathology	Lecture Anatomy	Lecture Pharmacology		SGD 3 BATCHES + 1 Patho Prac	PRACTICAL 4 BATCHES	Clinical	
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
28/10/2025	Tues	Lecture Aging Biochemistry	Lecture Physiology	Lecture Anatomy	Lecture Pathology		SGD 3 BATCHES + 1 Patho Prac	PRACTICAL 4 BATCHES	Clinical	
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	BREAK	12:30-01:30	01:30 - 02:30	02:30 - 03:00	
29/10/2025	Wed	Lecture Physiology	Lecture Anatomy	Lecture Pharmacology	Lecture PERL		SGD 3 BATCHES + 1 Patho Prac	PRACTICAL 4 BATCHES	Clinical	
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00		12:30-01:30	01:30 - 02:30	02:30 - 03:00	
30/10/2025	Thur	GRAND TEST Anatomy		OSPE + OSVE Anatomy			SGD 3 BATCHES + 1 Patho Prac	PRACTICAL 4 BATCHES	SDL	
		08:00 - 09:00	09:00 - 10:00	10:00 - 10:30	10:30 - 11:30	11:30 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:30	
31/10/2025	Fri	Lecture Anatomy	Lecture Pathology	BREAK	Lecture Pharmacology	Lecture Holy Quran	SDL	Jumma Break	SDL	

AVICENNA MEDICAL COLLEGE

TIME TABLE M-23		2ND YEAR MBBS Week - 37			SESSION 2024 - 2025					BLOCK # VI MODULE - 11			
DATE	DAY	08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	12:00 - 12:30	12:30-01:30	01:30 - 02:30	02:30 - 03:00				
03/11/2025	Mon	Lecture Anatomy	Lecture Pathology	Lecture PERL	Lecture Pharmacology			SGD 4 BATCHES	PRACTICAL 4 BATCHES	Clinical			
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00			12:30-01:30	01:30 - 02:30				
04/11/2025	Tues	Lecture Biochemistry	Lecture Com. Med.	Lecture Anatomy	Lecture Pathology			SGD 4 BATCHES	PRACTICAL 4 BATCHES	Clinical			
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00	<u>BREAK</u>		12:30-01:30	01:30 - 02:30				
05/11/2025	Wed	Lecture Physiology	Lecture Anatomy	Lecture Pharmacology	Lecture PERL			SGD 4 BATCHES	PRACTICAL 4 BATCHES	Clinical			
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00			12:30-01:30	01:30 - 02:30				
06/11/2025	Thur	GRAND TEST Physiology				OSPE + OSVE Physiology		SGD 4 BATCHES	PRACTICAL 4 BATCHES	SDL			
		08:00 - 09:00	09:00 - 10:00	10:00 - 11:00	11:00 - 12:00			12:30-01:30	01:30 - 02:30				
07/11/2025	Fri	Lecture Physiology	Lecture Beh. Sc.	<u>BREAK</u>	Lecture Holy Quran	Lecture Holy Quran	SDL	Jumma Break	SDL				
		08:00 - 09:00	09:00 - 10:00	10:00 - 10:30	10:30 - 11:30	11:30 - 12:30	12:30-01:30	01:30 - 02:30					

Allocation of Hours

Allocation of Hours 2nd Year MBBS																										
Wk #	Anatomy				Biochemistry				Physiology				Path		Pharm	Bh.Sc.	C.M.	PERL	Quran	Clinical	Exams	Total				
	Lec	Prac	SGD	SDL	Lec	Prac	SGD	SDL	Lec	Prac	SGD	SDL	Lec	Prac												
0	3				1	4			1	3			1	1	1	1	1	1	1	1	1	1	1	20		
1	6	2	2	1	6	1	1	5	1	1	5	1	1	1		1	1		1	3			34			
2	5	2	1	1	5	1	1	1	5	1	1	1	1	1						3	4		34			
3	6	2	2	1	4	1	1	1	5	1	1	1	1							3	4		34			
4	6	2	2	1	5	1	1	1	4	1	1	1	1					1		3	4		34			
5	5	2	2	1	4	1	1	1	5	1	1	1	1				1	1		3	4		34			
6																							0			
7	6	2	2	1	5	1	1	1	4	1	1	1	1						1		3	4		34		
8	5	2	2	1	5	1	1	1	4	1	1	1	1	1					1		3	4		34		
9	5	1	1	1	5	1	1	1	5	1	1	1	1				1	1		3	5		34			
10	3	1	1	1	4	1	1	1	4	1	1	1	1						1		3	4		27		
11	5	2	1	1	4	1	1	1	4	1	1	1	1	1					1		3	4		34		
12	4	2	2	1	4	1	1	1	4	1	1	1	1	1			1	1	1		3	4		34		
13	6	1	1	1	3	1	1	1	4	1	1	1	1	1					1	1	3	6		34		
14	3	1	1	1	2	1	1	1	3	1	1	1	1					1	1		2	6		27		
15	6	2	1		4	1	1		4	1	1	1	1	1				1			3			28		
16	5	1	1	1	2	1	1	1	3	1	1	1	1	1					1		2	4		27		
17	6	2	1	1	3	1	1	1	5	1	1	1	1	1	1						3	4		33		
18	6	2	1	1	3	1	1	1	4	1	1	1	1	1				1	1	1	3	4		34		
19	6	2	1	1	4	1	1	1	5	1	1	1	1					1	1		3	4		34		
20	6	2	1	1	3	1	1	1	6	1	1	1	1	1							1	3		34		
21	6	1	1	1	4	1	1	1	4	1	1	1	1							2	1	3	5		34	
22																								0		
23																								0		
24																								0		
25																								0		
26	7	2	1	1	4	1	1	1	5	1	1	1	1	1	1			1	1	1	3			34		
27	6	2	2	1	2	1	1	1	4	1	1	1	1				1	1		1	1	3	4		34	
28	6	2	2	1	3	1	1	1	4	1	1	1	1					1	1	1	3	4		34		
29	6	2	2	1	3	1	1	1	4	1	1	1	1					1	1	1	3	4		33		
30	5	1	1	1	2	1	1	1	4	1	1	1	1	1				1		2	1	3	6		34	
31	4	1	1	1	1	1	1	1	2	1	1	1	1	1	1					1	2	6		27		
32	5	2	2	1	3	1	1	1	4	1	1	1	1					1			3	4		31		
33	5	2	2	1	3	1	1	1	4	1	1	1	1					1	1		3	4		32		
34	5	2	2	1	3	1	1	1	4	1	1	1	1						1	1	3	4		33		
35	5	2	2	1	2	1	1	1	3	1	1	1	1	1				1	1	1	1	3		33		
36	5	2	1	1	1	1	1	1	2	1	1	1	1	3			1	3		1	1	3	4		34	
37	3	2	2	1	1	1	1	1	2	1	1	1	1	2				2	1	1	2	2	3	4		34
38																							6		6	
39																							6		6	
40																								0		
	171	56	47	32	111	32	32	32	132	32	32	32	21	6	13	15	15	17	17	94	138	1077				
	AL	AP	AS	AT	BL	BP	BS	BT	PL	PP	PS	PT	PtL	PtP	PhL	Bh.Sc.	C.M.	PERL	Quran	Clinical	Exams			1077		
					306		207						228			13	15	15	17	17	94	124			1077	

MODULE OUTCOMES

- To describe gross and microscopic anatomy of different parts of gastrointestinal system and associated organs
- To describe the embryological development of different parts of gastrointestinal system and associated organs
- To describe the functional anatomy and physiology of different parts of gastrointestinal system and associated organs
- To describe the motility, secretary and digestive function of gastrointestinal system
- To describe the biochemical aspects of carbohydrate metabolism
- To discuss pathological aspect and management of gastrointestinal related diseases
- To discuss the pharmacological treatment of diarrhea
- To discuss the psychosocial impact of gastrointestinal diseases in society
- To discuss the preventive measures related to gastrointestinal diseases
- To comprehend concept of balanced diet and malnutrition

Learning Objectives

Week: No	Total Hours	No.	Mode of Teaching	Topic	Code	Learning Objective	Reference	Facilitator
Physiology								
Week:31	1	1	Lecture	Motor areas of Brain, Brain Stem	NS-P-012,013	Name the motor areas of brain Enlist Brodmann number of motor areas of brain, Explain the features produced due to damage to the motor areas. Enlist the functions of brain stem	Guyton & Hall Ed 14th Ch. 58.Pg 734-738	Dr. Nida
Week:31	2	1	Lecture	Descending tracts/MOTOR NEURONS	NS-P-014,015	Enumerate the descending tracts, Describe the functions of Pyramidal tract, Describe the effect of lesions in motor cortex of brain or pyramidal tract	Guyton & Hall Ed 14th Ch. 56 Pg 701,702	Prof: Dr Sadia
Week:31	3	3	Practical	Superficial Reflexes	NS-P-029	Examine the Superficial Reflexes	Zafar Ch. Vol. II	Dr. Shaista
Week:31	4	4	Tutorial	Pain	NS-P-007	Classify pain. Differentiate between slow pain and fast pain	Guyton & Hall Ed 14th Ch. 48 Pg 612	Dr. Qutub
Week:31	Anatomy							

Week:31	5	1	Lecture	Brainstem	NS-A-004	<p>Differentiate clearly between upper and lower motor neuron lesions, Location, Relations, Blood supply and external features of medulla, pons midbrain. Cross sectional details of white and grey matter of Brain stem (mid brain, pons, medulla)</p> <p>Discuss clinical correlates of brain stem Medial and lateral medullary syndrome Weber syndrome, Benedikt syndrome</p>	<p>Snell Clinical Neuroanatomy 8th edition Page No 197-217</p>	Dr. Kalsoom
Week:31	6	2	Lecture	Cerebellum	NS-A-005	<p>Location, Relations, Functional classification & Blood supply along with major connections of Cerebellum (Cerebellar Peduncles)</p> <p>Define important clinical correlates</p>	<p>Snell Clinical Neuroanatomy 8th edition Page No 241</p>	Dr. Kalsoom
Week:31	7	3	Lecture	Nervous tissue	NS-A-022	<p>Describe the histological structure of Nervous tissue, Neuron, Nerve fiber, Sensory & motor nerve endings, Neuroglia, Blood brain barrier, ganglia</p>	<p>Medical Histology By Laiq Hussain 6th ed Pg. No 95-108</p>	Dr. Madiha
Week:31	8	4	Lecture	Pituitary gland	NS-A-021	<p>Describe development of Pituitary gland</p>	<p>Langman Medical Embryology, 5th ed. Ch. No Pg. No 313-323</p>	Dr. Razia
Week:31	9	5	Practical	Cerebrum	NS-A-026	<p>Identify Draw & label the light microscopic structure of the spinal cord</p>	<p>Histology practical note book</p>	Dr. Shaista

Week:31	10	6	Tutorial	Cerebellum	NS-A-005	Location, Relations, Functional classification & Blood supply along with major connections of Cerebellum (Cerebellar Peduncles) Define important clinical correlates	Snell Clinical Neuroanatomy 8th edition	Dr., Shazia/Dr. Madiha
Week:31	Biochemistry							
Week:31	11	1	Lecture	Synthesis and Degradation of Phospholipids and Asssociated Disorders	NS-B-010	Synthesis and Degradation of Phospholipids and Asssociated Disorders	Lippincott 7th edition Chapter 16	Prof Dr Haroon Habib
Week:31	12	2	Practical	Data Interpret	NS-B-015	Interpret the lysosomal storage diseases on given data Neiman pick disease, Gaucher's disease etc.	Lab Manual	Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad Thursday: Dr. Hamza
Week:31	13	3	Tutorial	Oncogenes	NS-B-011	Explain proto-oncogene, oncogene and tumor suppressor genes concept.	Lippincott 7th edition Chapter 16	Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad Thursday: Dr. Hamza
Week:31	Pakistan Studies							

Week:31	14	1	Lecture	<p>Describe brief the salient features of the Pakistan movement.</p> <p>2. Explain the basis for the creation of Pakistan.</p> <p>3. Give a brief account of the history of Pakistan.</p> <p>4. Explain the ethnic and cultural distribution of the population of Pakistan.</p> <p>5. Describe the Provinces and resources available in Pakistan.</p> <p>6. Explain current problems faced by Pakistan.7 Describe the social, economic and health problems of the rural population of Pakistan.</p>	Lecture Notes	Amna Syed	
Week:31	15	1	Lecture	<p>Describe brief the salient features of the Pakistan movement.</p> <p>2. Explain the basis for the creation of Pakistan.</p> <p>3. Give a brief account of the history of Pakistan.</p> <p>4. Explain the ethnic and cultural distribution of the population of Pakistan.</p> <p>5. Describe the Provinces and resources available in Pakistan.</p> <p>6. Explain current problems faced by Pakistan.7 Describe the social, economic and health problems of the rural population of Pakistan.</p>	Lecture Notes	Amna Syed	
Week:31	Pathology						
Week:31	16	2	Practical	CVA NS-Pa-001	Discuss the pathophysiology of cerebral vascular accident (CVA)	Lab Manual	Demo
Week:31	SDL						
Week:31	17	1	Self Directed Learning				
Week:31	18	2	Self Directed Learning				
Week:31	19	3	Self Directed Learning				

Week:31	Clinical Skill					
Week:31	20	1	Clinical skills	Revision of Interoperation of normal CT Brain.	LOG BOOK	Medical Faculty
Week:31	21	2	Clinical skills	Revision of Interoperation of normal CT Brain.	LOG BOOK	Medical Faculty
Week:31	SDL					
Week:31	22	1	Self Directed Learning			
Week:31	23	2	Self Directed Learning			
Week:31	24	3	Self Directed Learning			
Week:31	25	4	Self Directed Learning			
Week:31	26	5	Self Directed Learning			
Week:31	27	6	Self Directed Learning			
Week:31	28	7	Self Directed Learning			
Week:31	Assessment					
Week:31	29	1	Block-5			
Week:31	30	2	Block-5			
Week:31	31	3	Block-5			
Week:31	32	4	Key Discussion			
Week:31	33	5	OSPE/VIVA			
Week:31	34	6	OSPE/VIVA			

Week: No	Total Hours	No.	Mode of Teaching	Topic	Code	Learning Objective	Reference	Facilitator
Week:32	Physiology							
Week:32	1	1	Lecture	Spinal Shock and hemisection	NS-P-016	Define spinal shock, 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)	Guyton & Hall Ed 14th Ch. 49, Pg 620	Prof: Dr Sadia
Week:32	2	2	Lecture	Cerebellum, Basal Ganglia	NS-P-017,018	Explain the clinical features of cerebellar disease, Name the components of Basal ganglia, EXPLAIN the putamen and caudate circuits Enlist the neurotransmitters in basal ganglia and enlist the functions of basal ganglia	Guyton & Hall Ed 14th Ch. 56, Pg 711	Prof: Dr Shaheena
Week:32	3	3	Lecture	Cerebellum, Basal Ganglia	NS-P-017,018	Enumerate the descending tracts, Describe the functions of Pyramidal tract, Describe the effect of lesions in motor cortex of brain or pyramidal tract	Guyton & Hall Ed 14th Ch. 56 Pg 701,702	Prof: Dr Shaheena
Week:32	4	4	Lecture	Cerebellum, Basal Ganglia	NS-P-017,018	Define spinal shock, 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)	Guyton & Hall Ed 14th Ch. 49, Pg 620	Dr. Hafsa
Week:32	5	5	Practical	Deep Reflexes	NS-P-030	Examine the Deep Reflexes	Zafar Ch. Vol II	Dr. Ayesha

Week:32	6	6	Tutorial	Spinal Shock and hemisection	NS-P-016	Define spinal shock, Enumerate and explain the stages of spinal shock. Describe the features of hemisection of spinal cord, (at the level, above the level, below the level)	Guyton & Hall Ed 14th Ch. 49, Pg 620	Dr. Ayesha
Week:32	Anatomy							
Week:32	7	1	Gross Anatomy	Thalamus & Hypothalamus	NS-A-010	Describe and Illustrate the Hypothalamic and pituitary gland Nuclei with their functions, location afferents. Describe the Hypothalamo-Hypophyseal Portal System Describe the functions of Hypothalamus Explain the anatomical basis for the Thalamic Cauterization, Thalamic Pain, Thalamic Hand and Hypothalamic Disorders	Snell Clinical Neuroanatomy 8th edition Page No 363-380	Dr. Kalsoom
Week:32	8	2	Gross Anatomy	Intracranial Fossas/Meninges	NS-A-011	Explain the Gross anatomy of Intracranial fossae with intracranial foramina	Snell Clinical Neuroanatomy 8th edition Page No 191-194	Dr. Sumera
Week:32	9	3	HISTOLOGY	Spinal cord	NS-A-023	Describe the histological structure of the spinal cord	Medical Histology By Laiq Hussain 6th ed Pg. No 109-114	Dr. Madiha
Week:32	10	4	EMBRYOLOGY	Spinal cord development	NS-A-020	Describe the development of the spinal cord and related clinical anomalies	Langman Medical Embryology, 5th ed. Ch. No Pg. No 314-323	Dr. Razia

Week:32	11	5	EMBRYOLOGY	Neural tube development	NS-A-019	Explain the Development of Neural tube and Brain vesicles. Discuss related clinical anomalies	Langman Medical Embryology, 5th ed. Ch. NoPg. No 324-335	Dr. Razia
Week:32	12	6	Practical	Cerebellum	NS-A-027	Identify Draw & label the light microscopic structure of the Cerebrum	Histology practical note book	Dr. Shaista
Week:32	13	7	Tutorial	Spinal cord development	NS-A-020	Describe the development of the spinal cord and related clinical anomalies	Snell Clinical Neuroanatomy 8th edition	Dr. Madiha
Week:32	14	8	Practical	Intracranial Fossas	NS-A-011	Explain the Gross anatomy of Intracranial fossae with intracranial foramina	Snell Clinical Neuroanatomy 8th edition	Dr., Shazia/Dr.Sh aista
Week:32	15	9	Tutorial	Intracranial Fossas	NS-A-011	Explain the Gross anatomy of Intracranial fossae with intracranial foramina	Snell Clinical Neuroanatomy 8th edition	Dr., Shazia/Dr. Madiha
Week:32	Biochemistry							
Week:32	16	1	Lecture	Sphingolipids	NS-B-007	Sphingolipids	Lippincott 7th edition Chapter 16	Prof Dr Haroon Habib
Week:32	17	2	Lecture	Glycolipids	NS-B-008	Glycolipids	Lippincott 7th edition Chapter 16	Prof Dr Haroon Habib
Week:32	18	3	Lecture	Feed fast cycle	NS-B-0009	Feed fast cycle	Lippincott 7th edition Chapter 16	Prof Dr Haroon Habib

Week:32	19	4	Practical	PERFORM ESTIMATION OF SERUMTAG, CHOLESTEROL, HDL BY KIT METHOD AND CALCULATE LDL AND VLDL	NS-B-0 15	Interpret the lysosomal storage diseases on given data Gaucher's disease etc.	Lab Manual	Monday: Dr. Maryam Tuesday: Dr. Seemal Wednesday: Dr. Zahra Thursday: Dr. Aleena
Week:32	20	5	Tutorial	Neurotransmitters	NS-B-010	Explain fast. Discuss the structure, biochemical function and metabolism, dopamine, serotonin, histamine, GABA, Acetylcholine	Lippincott 7th edition Chapter 16	Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad Thursday: Dr. Hamza
Week:32	Com.Medicine							
Week:32	21	1	Lecture	EPIDEMIOLOGY OF MENTAL DISORDERS, PREVENTION OF MENTAL DISORDERS	NS-CM-001, 002	Students should be able to depict the depth of problem in context of mental illnesses	K.Park & Notes	Dr Sana Noor
Week:32	Pathology							
Week:32	22	1	Lecture	CVA	NS-Pa-001	Discuss the pathophysiology of cerebral vascular accident	Robbins	Prof Dr Saeed
Week:32	23	1	Lecture	Meningitis	NS-Pa-002	Define Meningitis	Robbins	Dr. Majid

						Identify types of meningitis				
Week:32	Pakistan Studies									
Week:32	24	1	Lecture	2. Explain the basis for the creation of Pakistan.		Lecture Notes	Amna Syed			
Week:32	SDL									
Week:32	25	1	Self Directed Learning							
Week:32	26	2	Self Directed Learning							
Week:32	27	3	Self Directed Learning							
Week:32	28	4	Self Directed Learning							
Week:32	Clinical Skill									
Week:32	29	1	Clinical skills	Revision of Learn How to DO history Taking.		LOG BOOK	Medical Faculty			
Week:32	30	2	Clinical skills	Revision of Learn How to DO history Taking.		LOG BOOK	Medical Faculty			
Week:32	Assessment									
Week:32	31	1	Grand Test							
Week:32	32	2	Grand Test							
Week:32	33	3	OSPE/VIVA							
Week:32	34	4	OSPE/VIVA							

Week: No	Total Hours	No.	Mode of Teaching	Topic	Code	Learning Objective	Reference	Facilitator
Week:33	Physiology							
Week:33	1	1	Lecture	Cerebellum,Basal Ganglia	NS-P-017,018	Define spinal shock, 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)	Guyton & Hall Ed 14th Ch. 49,Pg 620	Prof: Dr Sadia
Week:33	2	2	Lecture	Basal Ganglia	NS-P-018	Enumerate and explain the clinical abnormalities of putamen circuit, Explain the pathophysiology and features of, Huntington's disease	Guyton & Hall Ed 14th Ch. 56,Pg 713-715	Prof: Dr Shaheena
Week:33	2	2	Lecture	Brain Stem reticular formation,EEG	NS-P-021,022	define brain stem reticular formation (BRF), name the neurotransmitters of BRF, enlist functions of BRF, differentiate between the functions of Pontine and Enumerate and discuss the physiological basis of Electroencephalogram EEG waves	Guyton & Hall Ed 14th Ch. 59.Pg 741,Ch.60	Dr Nida
Week:33	3	3	Lecture	Sleep	NS-P-023	Explain the types of sleep, Discuss the stages of slow wave sleep, Explain the changes in EEG during sleep wake cycle	Guyton & Hall Ed 14th Ch. 60,Pg 755	Dr Amna Rizvi
Week:33	5	5	Practical	CN VII	NS-P-032	Demonstrate the testing of Cranial Nerve (CN) VII	Zafar Ch. Vol.II	Dr. Neelum

Week:33	6	6	Tutorial	Sleep/Memory	NS-P-025	Define 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	Guyton & Hall Ed 14th Ch. 58 Pg 739	Dr. Ayesha
Week:33 Anatomy								
Week:33	7	1	Gross Anatomy	Limbic System/Reticular Formation	NS-A-007	Describe components & functions of Limbic system & Reticular formation	Snell Clinical Neuroanatomy 8th edition Page No 299-301	Dr. Kalsoom
Week:33	8	2	Gross Anatomy	Cranial Nerves	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.	Snell Clinical Neuroanatomy 8th edition Page No 234-280	Dr. Kalsoom
Week:33	9	3	Gross Anatomy	Diencephalon	NS-A-009	Identify the Location and sub division of Diencephalon.	Snell Clinical Neuroanatomy 8th edition Page No 249	Dr. Sumera
Week:33	10	4	HISTOLOGY	Cerebrum,	NS-A-024	Describe the histological structure of Cerebrum	Medical Histology By Laiq Hussain 6th ed Pg. No 109-114	Dr. Madiha
Week:33	11	5	EMBRYOLOGY	Neural tube development	NS-A-019	Explain the Development of Neural tube and Brain vesicles. Discuss related clinical anomalies	Langman Medical Embryology, 5th ed. Ch. No Pg. No 324-335	Dr. Razia

Week:33	12	6	Practical	Cranial Nerves	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.	Practical note book	Dr., Shazia/Dr. Madiha
Week:33	13	7	Practical	Cerebrum	NS-A-026	Identify Draw & label the light microscopic structure of the spinal cord	Histology practical note book	Dr. Shaista
Week:33	14	8	Tutorial	Diencephalon	NS-A-009	Identify the Location and sub division of Diencephalon.	Snell Clinical Anatomy by Region	Dr., Shazia/Dr. Madiha
Week:33	15	9	Tutorial	Diencephalon	NS-A-009	Identify the Location and sub division of Diencephalon.	Snell Clinical Neuroanatomy 8th edition	Dr., Madiha
Week:33	Biochemistry							
Week:33	16	1	Lecture	Neurotransmitters II	NS-B-010	Neurotransmitters II	Lippincott 7th edition Chapter 17	Prof Dr Haroon Habib
Week:33	17	2	Lecture	Neurotransmitters II	NS-B-0110	Neurotransmitters II	Lippincott 7th edition Chapter 17	Prof Dr Haroon Habib
Week:33	18	3	Lecture	Oncogenesis	NS-B-011	Oncogenesis	Lippincott 7th edition Chapter 17	Prof Dr Haroon Habib
Week:33	19	4	Practical	PERFORM ESTIMATION OF SERUMTAG, CHOLESTEROL,HDL BY KIT METHOD AND CALCULATE LDL AND VLDL	NS-B-016	Perform the estimation of triglycerides by kit method	Lab Manual	Monday: Dr. Maryam Tuesday: Dr. Seemal Wednesday: Dr. Zahra Thursday: Dr. Aleena

Week:33	20	5	Tutorial	Cancer	NS-B-013	Explain the role of genetics in cancers especially breast, ovary, lung and colon.	Lippincott 7th edition Chapter 17	Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad Thursday: Dr. Hamza
Week:33	Pathology							
Week:33	21	1	Lecture	Acute inflammation	IN-Pa-001	Define acute inflammation Enlist stimuli for Acute Inflammation Recognize microbes, necrotic cells, and foreign substances causing acute inflammation Identify different components of inflammation	Robbins	Dr. Ujala
Week:33	Beh.Sciences							
Week:33	22	1	Lecture	NS-BhS001	Learning and Behavior	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		Dr Farhat Minhas
Week:33	Pharmacology							
Week:33	23	1	Lecture	Opioids	NS-Ph-001	classify opioid receptors.moa, clinical uses and adverse effects of agonist and antagonist	katzung edition 16	PROF.ASMA
Week:33	Medicine							

Week:33	24	1	Lecture	Epilepsy and CVA	Clinical Management of Epilepsy and CVA	Davidson Principles of Medicine	Dr Humaira				
Week:33	SDL										
Week:33	25	1	Self Directed Learning								
Week:33	26	2	Self Directed Learning								
Week:33	27	3	Self Directed Learning								
Week:33	28	4	Self Directed Learning								
Week:33	Clinical Skill										
Week:33	29	1	Clinical skills	Osculation of heart sound			LOG BOOK	Medical Faculty			
Week:33	30	2	Clinical skills	Osculation of heart sound			LOG BOOK	Medical Faculty			
Week:33	Assessment										
Week:33	31	1	Grand Test								
Week:33	32	2	Grand Test								
Week:33	33	3	OSPE/VIVA								
Week:33	34	4	OSPE/VIVA								

Week: No	Total Hours	No.	Mode of Teaching	Topic	Code	Learning Objective	Reference	Facilitator
Week:34	Physiology							
Week:34	1	1	Lecture	Epilepsy,EEG	NS-P-024,022	Enumerate the areas and hormones/,neurotransmitters involved in sleep,Describe sleep disorders (narcolepsy, cataplexy, insomnia, somnolence, somnambulism, bruxism, nocturnal enuresis and sleep apnea)	Guyton & Hall Ed 14th Ch. 56,Pg 711	Prof. Dr. Sadia
Week:34	2	2	Lecture	Vestibular Apparatus	NS-P-019	Enumerate and explain the clinical abnormalities of putamen circuit,Explain the pathophysiology and features of,Huntington's disease	Guyton & Hall Ed 14th Ch. 56,Pg 713-715	Prof: Dr Shaheena
Week:34	3	3	Lecture	Memory	NS-P-025	Enumerate the components of vestibular Apparatus,Name the sensory organs of vestibular apparatus,Describe the role of vestibular Apparatus in,maintenance of linear and angular equilibrium	Guyton & Hall Ed 14th Ch. 56,Pg 719	Dr. Nida

Week:34	4	4	Lecture	Memory	NS-P-025	Explain the clinical features of cerebellar disease, Name the components of Basal ganglia, EXPLAIN the putamen and caudate circuits Enlist the neurotransmitters in basal ganglia and enlist the functions of basal ganglia	Guyton & Hall Ed 14th Ch. 56, Pg 711	Prof. Dr. Shaheena
Week:34	5	5	Practical	Cerebellar Tests	NS-P-031	Demonstrate the Cerebellar Function Tests	Zafar Ch. Vol II	Dr. Shaista
Week:34	6	6	Tutorial	Basal Ganglia	NS-P-018	Enumerate and explain the clinical abnormalities of putamen circuit, Explain the pathophysiology and features of, Huntington's disease	Guyton & Hall Ed 14th Ch. 57	Dr. Neelum
Week:34	Anatomy							
Week:34	7	1	Gross Anatomy	Dural Venous Sinuses	NS-A-013	Discuss the Origin, tributaries & area of drainage, termination of Dural venous sinuses	Snell Clinical Neuroanatomy 8th edition Page No 418-435	Dr. Kalsoom
Week:34	8	2	Gross Anatomy	CSF	NS-A-014	Explain the Formation, circulation and absorption into venous system of CSF (Cerebrospinal fluid) Describe ventricular system, Lateral, 3rd & 4th ventricles	Snell Clinical Neuroanatomy 8th edition Page No 448	Dr. Kalsoom
Week:34	9	3	Gross Anatomy	Blood Supply of Brain and Spinal Cord	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	Snell Clinical Neuroanatomy 8th edition Page No 464-472	Dr. Sumera

Week:34	10	4	EMBRYOLOGY	Spinal cord development	NS-A-020	Describe the development of the spinal cord and related clinical anomalies	Langman Medical Embryology, 5th ed. Ch. No Pg. No 314-323	Dr. Razia
Week:34	11	5	HISTOLOGY	Cerebrum,	NS-A-024	Describe the histological structure of Cerebrum	Medical Histology By Laiq Hussain 6th ed Pg. No 109-114	Dr. Madiha
Week:34	12	6	Practical	Blood Supply of Brain and Spinal Cord	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	Practical note book	Dr., Shazia/Dr. Shaista
Week:34	13	7	Practical	Cerebellum	NS-A-027	Identify Draw & label the light microscopic structure of the Cerebrum	Histology practical note book	Dr. Shaista
Week:34	14	8	Tutorial	Spinal cord development	NS-A-020	Describe the development of the spinal cord and related clinical anomalies	Snell Clinical Neuroanatomy 8th edition	Dr. Madiha
Week:34	15	9	Tutorial	CSF	NS-A-014	Explain the Formation, circulation and absorption into venous system of CSF (Cerebrospinal fluid) Describe ventricular system, Lateral, 3rd & 4th ventricles	Snell Clinical Neuroanatomy 8th edition	Dr., Shazia/Dr. Madiha
Week:34	Biochemistry							
Week:34	16	1	Lecture	Tumor Markers	NS-012	Explain the biochemical and therapeutic roles of eicosanoids (prostaglandins, leukotrienes, thromboxane	Lippincott 7th edition chapter 24	Prof Dr Haroon Habib

						and prostacyclin		
Week:34	17	2	Lecture	Cancer	NS-B-013	Explain inflammatory changes and role of leukotriene and cytokines in old age	Lippincott 7th edition chapter 24	Prof Dr Haroon Habib
Week:34	18	3	Lecture	Xenobiotics	NS-B-014	Explain the biochemical and therapeutic roles of eicosanoids (prostaglandins, leukotrienes, thromboxane and prostacyclin	Lippincott 7th edition chapter 24	Prof Dr Haroon Habib
Week:34	20	5	Tutorial	Tumor Markers	IN-B-001	Explain the biochemical and therapeutic roles of eicosanoids (prostaglandins, leukotrienes, thromboxane and prostacyclin	Lippincott 7th edition chapter 24	Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad Thursday: Dr. Hamza
Week:34	Medicine							
Week:34	21	1	Lecture	Meningitis	NS-M-003	Types, Clinical Picture and Management strategies	Davidson Principles of Medicine	Dr Usman
Week:34	Pakistan Studies							
Week:34	22	1	Lecture	2. Explain the basis for the creation of Pakistan.			Lecture Notes	Amna Syed
Week:34	Pathology							

Week:34	23	1	Lecture	Process of acute inflammation	IN-Pa-002	Discuss the role of vascular and cellular events in acute inflammation Differentiate between transudate and exudate Classify chemical mediators Describe the different pathways of synthesis of chemical mediators and their role in clinical practice Pathology Process of acute inflammation	Robbins Pathology	Dr. Ujala			
Surgery											
Week:34	24	1	Lecture	Head injury	NS-S-002	Describe triage in ER Emergency Room	B & L	Dr. Umer			
SDL											
Week:34	25	1	Self Directed Learning								
Week:34	26	2	Self Directed Learning								
Week:34	27	3	Self Directed Learning								
Week:34	28	4	Self Directed Learning								
Clinical Skill											
Week:34	29	1	Clinical skills	Revision			LOG BOOK	Medical Faculty			
Week:34	30	2	Clinical skills	Revision			LOG BOOK	Medical Faculty			
Assessment											
Week:34	31	1	Grand Test								

Week:34	32	2	Grand Test
Week:34	33	3	OSPE/VIVA
Week:34	34	4	OSPE/VIVA

Week: No	Total Hours	No.	Mode of Teaching	Topic	Code	Learning Objective	Reference	Facilitator
Week:35	Physiology							
Week:35	1	1	Lecture	Speech	NS-P-026	Define 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	"Guyton & Hall Ed 14th Ch. 58 Pg 736"	Prof. Dr. Sadia
Week:35	2	2	Lecture	Limbic System	NS-P-020	Enlist the components of limbic system,Describe the functions of amygdala,Explain the effects of bilateral ablation of the amygdala—The Klüver-Bucy Syndrome	Guyton & Hall Ed 14th Ch. 59,Pg 741	Dr. Nida

Week:35	3	3	Lecture	Limbic System/Hypothalamus	NS-P-020	Enlist the components of limbic system,Describe the functions of amygdala,Explain the effects of bilateral ablation of the amygdala—The Klüver-Bucy Syndrome	Guyton & Hall Ed 14th Ch. 59,Pg 741	Dr. Amna Illyas
Week:35	4	4	Practical	CN VII	NS-P-032	Demonstrate the testing of Cranial Nerve (CN) VII	Zafar Ch. Vol.II	Dr. Ayesha
Week:35	5	5	Tutorial	Sleep/Memory	NS-P-025	Define 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	Guyton & Hall Ed 14th Ch. 58 Pg 739	Dr. Shaista
Week:35 Anatomy								
Week:35	6	1	Gross Anatomy	ANS	NS-A-016	Explain the Major subdivision of ANS into Sympathetic and parasympathetic nervous system with comparison of anatomical differences.	Snell Clinical Neuroanatomy 8th edition Page No 390	Dr. Kalsoom
Week:35	7	2	Gross Anatomy	Autonomic Ganglion	NS-A-017	Describe the Location, connections and functions of autonomic ganglion	Snell Clinical Neuroanatomy 8th edition Page No 390	Dr. Sumera
Week:35	8	3	Gross Anatomy	Sympathetic Chain	NS-A-018	Explain the origin, termination and branches of the sympathetic chain Localize spinal cord lesions	Snell Clinical Neuroanatomy 8th edition Page No 388-390	Dr. Sumera
Week:35	9	4	EMBRYOLOGY	Pituitary gland	NS-A-021	Describe development of Pituitary gland	Langman Medical Embryology, 5th	Dr. Razia

							ed. Ch. No Pg. No 313-324	
Week:35	10	5	HISTOLOGY	Cerebellum/Spinal Cord	NS-A-024	Describe the histological structure of Cerebellum	Medical Histology By Laiq Hussain 6th ed Pg. No 109-114	Dr. Madiha
Week:35	11	6	Practical	Spinal Cord	NS-A-028	Identify Draw & label the light m structure of the Cerebellum	Histology practical note book	Dr. Shaista
Week:35	12	7	Practical	Sympathetic Chain	NS-A-018	Explain the origin, termination and branches of the sympathetic chain Localize spinal cord lesions	practical note book	Dr. Shazia/Dr. Shaista
Week:35	13	8	Tutorial	Pituitary gland	NS-A-021	Describe development of Pituitary gland	Snell Clinical Anatomy by Region	Dr. Madiha
Week:35	14	9	Tutorial	Autonomic Ganglion	NS-A-017	Describe the Location, connections and functions of autonomic ganglion	Snell Clinical Neuroanatomy 8th edition	Dr. Shazia/Dr. Madiha
Week:35	Biochemistry							
Week:35	15	1	Lecture	Xenobiotics	NS-B-011	Explain fast. Discuss the structure, biochemical function and metabolism, dopamine, serotonin, histamine, GABA Correlate the biochemical functions of these neurotransmitters with their deficiency diseases	Lippincott 7th edition chapter 21	Prof Dr Haroon Habib
Week:35	16	2	Lecture	Eicosanoids	IN-B-001	Explain proto-oncogene and oncogene concept	Lippincott 7th edition chapter 21	Dr SAdia Khalil
Week:35	17	3	Practical	Triglycerides estimation	NS-B-016	Perform the estimation of triglycerides by kit method	Lab Manual	Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad

								Thursday: Dr. Hamza
Week:35	18	4	Tutorial	Xenobiotics	NS-B-011	Explain fast. Discuss the structure, biochemical function and metabolism, dopamine, serotonin, histamine, GABA Correlate the biochemical functions of these neurotransmitters with their deficiency diseases	Lippincott 7th edition chapter 21	Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad Thursday: Dr. Hamza
Week:35	Aging/Medicine							
Week:35	19	1	Lecture	Dementia	Ns-Ag-001	Definition, Causes, Risk Factors and management	Davidson principles of medicine	Dr Imran
Week:35	Pathology							
Week:35	20	1	Lecture	Process of acute inflammation	IN-Pa-002	Discuss the role of vascular and cellular events in acute inflammation Differentiate between transudate and exudate Classify chemical mediators Describe the different pathways of synthesis of chemical mediators and their role in clinical practice Pathology Process of acute inflammation	Robbins Pathology	Dr. Ujala
Week:35	Beh.Sciences							

Week:35	21	1	Lecture	NS-Bhs002	Memory	<p>Outline the structure of memory and explain the distinction between short- and long-term memory.</p> <p>Describe memory improvement techniques and how the appropriate ones will help patients recall long and complex explanations</p>	M.R	Dr Farhat Minhas
Week:35	Pakistan Studies							
Week:35	22	1	Lecture	2. Explain the basis for the creation of Pakistan.		Lecture Notes	Amna Syed	
Week:35	Com.Medicine							
Week:35	23	1	Lecture	COMMUNICABLE DISEASES PREVENTION	IN-CM-001	<p>Discuss the mode of transmission of communicable diseases</p> <p>Explain the general concept of prevention of communicable diseases</p>	K.Park & Notes	Dr Usman Sheikh
Week:35	Pharmacology							
Week:35	24	1	Lecture	CNS Stimulants & CNS Depressants	NS-Ph-002	CNS Stimulants & CNS Depressants	Katzung	Dr.Azka
Week:35	SDL							
Week:35	25	1	Self Directed Learning					
Week:35	26	2	Self Directed Learning					
Week:35	27	3	Self Directed Learning					
Week:35	28	4	Self Directed Learning					
Week:35	Clinical Skill							

Week:35	29	1	Clinical skills	Revision	LOG BOOK	Medical Faculty
Week:35	30	2	Clinical skills	Revision	LOG BOOK	Medical Faculty
Week:35	Assessment					
Week:35	31	1	Grand Test			
Week:35	32	2	Grand Test			
Week:35	33	3	OSPE/VIVA			
Week:35	34	4	OSPE/VIVA			

Week: No	Total Hours	No.	Mode of Teaching	Topic	Code	Learning Objective	Reference	Facilitator
Week:36	Physiology							
Week:36	1	1	Lecture	Limbic System	NS-P-020	Enlist the components of limbic system,Describe the functions of amygdala,Explain the effects of bilateral ablation of the,amygdala—The Klüver-Bucy Syndrome	Guyton & Hall Ed 14th Ch. 59,Pg 741	Dr Amna Rizvi
Week:36	2	2	Lecture	ANS	NS-P-027	Enlist the components of limbic system,Describe the functions of amygdala,Explain the effects of bilateral ablation of the,amygdala—The Klüver-Bucy Syndrome	Guyton & Hall Ed 14th Ch. 59,Pg 741	Dr Amna Ilyas
Week:36	3	3	Practical	Cerebellar Tests	NS-P-031	Demonstrate the Cerebellar Function Tests	Zafar Ch. Vol II	DR. Neelum
Week:36	4	4	Tutorial	Basal Ganglia	NS-P-018	Enumerate and explain the clinical abnormalities of putamen circuit,Explain the pathophysiology and features of,Huntington's disease	Guyton & Hall Ed 14th Ch. 57	Dr. Qutub

Week:36	Anatomy							
Week:36	5	1	MBRYOLOGY	Role of inflammation in Implantation & Development of Integumentary System	IN-A-001	Identify role of inflammation in implantation Development of cells involved in acute & chronic inflammation Development of integumentary system	Langman Medical Embryology, 5th ed. Ch. NoPg. No 370-373	Dr. Razia
Week:36	6	2	EMBRYOLOGY	Role of inflammation in Implantation & Development of Integumentary System	IN-A-001	Identify role of inflammation in implantation Development of cells involved in acute & chronic inflammation Development of integumentary system	Langman Medical Embryology, 5th ed. Ch. NoPg. No 370-373	Dr. Razia
Week:36	7	3	HISTOLOGY	Integumentary system & Inflammatory Response at Cellular Level	IN-A-002	Discuss the microscopic structure of components involved in inflammation (cells, capillaries) Discuss the histology of integumentary system	Medical Histology By Laiq Hussain 6th ed Pg. No141-150	Dr. Madiha
Week:36	8	4	HISTOLOGY	Integumentary system & Inflammatory Response at Cellular Level	IN-A-002	Discuss the microscopic structure of components involved in inflammation (cells, capillaries) Discuss the histology of integumentary system	Medical Histology By Laiq Hussain 6th ed Pg. No141-150	Dr. Madiha
Week:36	9	6	Practical	Integumentary System	IN-A-003	Draw and identify microscopic structure of integumentary system	Histology practical note book	Dr. Shaista
Week:36	10	7	Practical	Module 6 Topics	Revision	Revision	Snell Clinical Anatomy by Region	Dr., Shazia/Dr. Madiha
Week:36	11	8	Tutorial	Module 6 Topics	Revision	Revision	Snell Clinical Anatomy by Region	Dr., Shazia/Dr. Madiha

Week:36	12	9	Tutorial	Module 6 Topics	Revision	Revision	Snell Clinical Anatomy by Region	Dr., Shazia/Dr. Madiha
Week:36	Biochemistry							
Week:36	13	1	Lecture	Aging/ Biochemistry	In-Ag-001	Aging	Harper 30th edition Ch #56	Dr SAdia Khalil
Week:36	14	2	Practical	PERFORM ESTIMATION OF SERUMTAG, CHOLESTEROL,HDL BY KIT METHOD AND CALCULATE LDL AND VLDL	NS-B-016	Perform the estimation of triglycerides by kit method	Lab Manual	Monday: Dr. Maryam Tuesday: Dr. Seemal Wednesday: Dr. Zahra Thursday: Dr. Aleena
Week:36	15	3	Tutorial	Aging/ Biochemistry	NS-B-12,13	Aging	Harper 30th edition Ch #56	Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad Thursday: Dr. Hamza
Week:36	PERLs							
Week:36	16	1	Lecture	Leadership	Taking Evidence based Informed Consent	Lecture Presentation	Dr. Saba Iqbal	
Week:36	Holy Quran							
Week:36	17	1	Lecture	3. Give a brief account of the history of Pakistan.			Lecture Notes	Amna Syed
Week:36	Pharmacology							

Week:36	18	1	Lecture	Prostaglandin Analogues	IN-Ph-001	prostaglandin Analogues-clinical use and adverse effects	katzung edition 16	DR.AZKA
Week:36	19	2	Lecture	Anti-inflammatory drugs	IN-Ph-002	classify anti-inflammatory drugs	katzung edition 16	DR.AZKA
Week:36	20	3	Lecture	Steroids	IN-Ph-003	difference between steroids and NSAIs clinical uses and adverse effects of steroids	katzung edition 16	DR.AZKA
Week:36	Pathology							
Week:36	21	1	Lecture	Acute inflammation	IN-Pa-001	Define necrosis and explain its type with example	Robbins Pathology	Dr. Ujala
Week:36	22	2	Lecture	Chronic Inflammation	IN-Pa-003	Define chronic inflammation Discuss the role of chronic inflammatory cells and mediators in chronic inflammation Discuss the causes, pathophysiology and morphology of granulomatous inflammation Classify mycobacteria Explain the pathogenesis and lab diagnosis of mycobacterium tuberculosis Discuss the Runyon classification of atypical mycobacteria Discuss pathogeneses and lab diagnosis of leprosy	Robbins Pathology	Dr. Ujala

Week:36	23	3	Lecture	Chronic Inflammation	IN-Pa-003	<p>Define chronic inflammation</p> <p>Discuss the role of chronic inflammatory cells and mediators in chronic inflammation</p> <p>Discuss the causes, pathophysiology and morphology of granulomatous inflammation</p> <p>Classify mycobacteria Explain the pathogenesis and lab diagnosis of mycobacterium tuberculosis</p> <p>Discuss the Runyon classification of atypical mycobacteria</p> <p>Discuss pathogeneses and lab diagnosis of leprosy</p>	Robbins Pathology	Dr. Ujala
Week:36	24	4	Practical	inflammation	IN-Pa-001+002	<p>Define acute inflammation</p> <p>Enlist stimuli for Acute Inflammation</p> <p>Recognize microbes, necrotic cells, and foreign substances causing acute inflammation</p> <p>Identify different components of inflammation</p> <p>Define necrosis and explain its type with example,</p> <p>Discuss the role of vascular and cellular events in acute inflammation</p> <p>Differentiate between transudate and exudate</p> <p>Classify chemical mediators</p>	Lab Manual	Demo
Week:36	SDL							
Week:36	25	1	Self Directed Learning					
Week:36	26	2	Self Directed Learning					
Week:36	27	3	Self Directed Learning					

Week:36	28	4	Self Directed Learning						
Week:36	Clinical Skill								
Week:36	29	1	Clinical skills	Revision		LOG BOOK	Medical Faculty		
Week:36	30	2	Clinical skills	Revision		LOG BOOK	Medical Faculty		
Week:36	Assessment								
Week:36	31	1	Grand Test						
Week:36	32	2	Grand Test						
Week:36	33	3	OSPE/VIVA						
Week:36	34	4	OSPE/VIVA						

Operational Definitions

Traditional & Innovative Teaching Methodologies

Sr.	Pedagogical Methodologies	Description
1.	Lectures	Traditional method where an instructor presents information to a large group of students (large group teaching). This approach focuses on delivering theoretical knowledge and foundational concepts. It is very effective for introducing new topics.
2.	Tutorial	Tutorials involve small group discussion (SGD) where students receive focused instruction and guidance on specific topics.
3	Demonstrations	Demonstrations are practical displays of techniques or procedures, often used to illustrate complex concepts or practices, particularly useful in dental education for showing clinical skills.
4	Practicals	Hands-on sessions where students apply theoretical knowledge to real-world tasks. This might include lab work, clinical procedures, or simulations. Practicals are crucial for developing technical skills and understanding the application of concepts in practice.
5.	Student Presentations	Students prepare and deliver presentations on assigned topics. This method enhances communication skills, encourages students to explore topic in-depth. It also provides opportunities for peer feedback and discussion.
6.	Assignment	Tasks given to students to complete outside of class. Assignments can include research papers, case studies, or practical reports. They are designed to reinforce learning, assess understanding, and develop critical thinking and problem-solving skills.
7.	Self-directed Learning	Students take initiative and responsibility for their own learning process. Students are encouraged to seek resources, set goals, and evaluate their progress. This is a learner-centered approach where students take the initiative to plan, execute, and assess their own learning activities. This method promotes independence, critical thinking, and lifelong learning skills.

8.	Flipped Classroom	In this model, students first engage with learning materials at home (e.g., through videos, readings) and then use class time for interactive activities, discussions, or problem-solving exercises. This approach aims to maximize in-class engagement and application of knowledge.
9.	Peer-Assisted Learning (PAL)	A collaborative learning approach where students help each other understand course material. PAL involves structured peer tutoring, study groups, or collaborative tasks. It enhances comprehension through teaching, reinforces learning, and builds teamwork skills.
10.	Team-based Learning (TBL)	A structured form of small group learning where students work in teams on application-based tasks and problems. Teams are responsible for achieving learning objectives through collaborative efforts, promoting accountability, and deeper understanding of the material.
11.	Problem-based Learning (PBL)	Students work on complex, real-world problems without predefined solutions. They research, discuss, and apply knowledge to develop solutions. PBL fosters critical thinking, problem-solving skills, and the ability to integrate knowledge from various disciplines.
12.	Academic Portfolios	A collection of student's work that showcases learning achievements, reflections, and progress over time. Portfolios include assignments, projects, and self-assessments. They provide a comprehensive view of student development, highlight strengths and areas for improvement, and support reflective learning (experiential learning)
13.	Seminar	A seminar is an academic or professional setting where individuals discuss, present, and explore specific topics, often with expert guidance

AVICENNA MEDICAL & DENTAL COLLEGE **DEPARTMENT OF MEDICAL EDUCATION**

Internal Assessment Policy

Introduction

This policy outlines the guidelines for internal assessment of students at Avicenna Medical and Dental College. Internal assessment plays a crucial role in evaluating a student's progress, understanding their strengths and weaknesses, and providing timely feedback. This policy aims to ensure fairness, consistency, and transparency in the internal assessment process.

Internal Assessment Components

The internal assessment for each course will be comprised of the following components:

1. Attendance

- Attendance will be recorded regularly and will contribute to the overall internal assessment score.
- Students are expected to maintain a minimum attendance of 75% to be eligible for internal assessment marks.

2. Continuous Assessment

- Continuous assessment will be based on regular assignments, quizzes, presentations, and other activities conducted throughout the semester.
- These assessments will evaluate students' understanding of the course material, their critical thinking skills, and their ability to apply knowledge to real-world scenarios.

3. Grand Test and Module Exams

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

4. Attitude and Behavior

- Students' attitude towards learning, participation in class activities, and adherence to college rules and regulations will be assessed.
- This component will evaluate students' professionalism, teamwork skills, and ethical conduct.

5. Logbook and Portfolio

- Students will be required to maintain a logbook and portfolio to document their learning journey.
- The logbook will include reflections on lectures, tutorials, and practical sessions.
- The portfolio will showcase students' best work, including assignments, projects, and research papers.

Assessment Criteria and Weighting

The following table outlines the weighting of each component in the internal assessment:

Component	Marks	Percentage
Attendance	6	2%
Continuous Assessment	12	4%
Grand Test and Module Exams	30	10%
Attitude and Behavior	10	3%
Logbook and Portfolio	2	1%
Total	60	20%

Assessment Procedures

- Faculty Responsibility: Faculty members will be responsible for designing and administering the internal assessments in accordance with the course syllabus and this policy.
- Marking and Grading: Faculty members will mark and grade the assessments using a transparent and consistent marking scheme. Candidates shall be required to score at least 50% marks in the internal assessment in each subject to become eligible for admission to professional examinations.
- Feedback: Faculty members will provide timely and constructive feedback to students on their performance.
- Record-Keeping: Faculty members will maintain accurate records of all internal assessments, including marks and feedback.
- Moderation: Internal assessments will be moderated by the course coordinator or the head of the department to ensure fairness and consistency.

Appeal Process

Students who have concerns about their internal assessment marks may appeal to the concerned faculty member or the head of the department. The appeal process will be handled promptly and fairly.

The internal assessment policy is designed to promote student learning, assess their progress, and provide a fair and transparent evaluation system. Faculty members and students are expected to adhere to this policy to ensure the integrity of the internal assessment process.

Attendance Requirement & Internal Assessment Criteria

The institution follows the regulations for examinations of the UHS in letter and spirit. The students require **75% attendance** in all academic sessions and **50% passing marks** with internal assessments and send-up examinations to be eligible for the UHS Professional Examinations.

Assessment Guidelines

Assessment in medical & dental education is a critical component designed to ensure that medical & dental students acquire the necessary knowledge, skills, and competencies required for effective medical & dental practice.

Assessment drives learning! – George E. Millar

You will encounter a variety of assessment methods, each serving a specific purpose.

- Written examinations, including multiple-choice and essay questions, will test your grasp of theoretical concepts and subject matter.
- Practical assessments will require you to demonstrate your clinical skills and ability to apply knowledge in real-world scenarios.
- Clinical exams will evaluate your communication skills and reasoning abilities through case discussions and problem-solving exercises.

- Clinical skills and work-place based assessments will observe your hands-on proficiency and patient management capabilities.

At Avicenna Medical & Dental College, internal assessments are systematically conducted throughout each academic year of the MBBS program, as per the guidelines established by the University of Health Sciences (UHS). These assessments, overseen by the Assessment Cell, adhere to either the Annual Subject-Based System or the Integrated/Modular System, depending on the curriculum structure.

Notably, beginning with the 2024-25 academic year, the weightage of internal assessments will be increased from 10% to 20%. The UHS administers professional examinations independently, organizing them at designated neutral sites and appointing external examiners to ensure objectivity and fairness.

Internal Assessment Weightage	20%	100%
External Assessment Weightage	80%	

Assessment Schedule

Avicenna Medical & Dental College 2nd Year MBBS (M-23) Test Schedule Block-6

Week	Date	Day	Subject	Test	Topic				
32nd	2-Oct-25	Thu	Physiology	Grand Test OSPE+VIVA	Sensory System	Guyton & Hall Ed 14th			
33rd	9-Oct-25	Thu		Grand Test OSPE+VIVA					
34th	16-Oct-25	Thu	Biochemistry	Grand Test OSPE+VIVA	Metabolism of Lipids & Fatty acids, Feed fast cycle. Neurotransmitters, Oncogenesis, Tumor Markers, Cancer	NS-B-001 to NS-B-013			
35th	23-Oct-25	Thu		Grand Test OSPE+VIVA					
36th	30-Oct-25	Thu	Anatomy	Grand Test OSPE+VIVA	All the covered topics				
37th	6-Nov-25	Thu		Grand Test OSPE+VIVA					
38th	13-Nov-25	Thu	Integrated	Module Exam:10+11 OSPE+VIVA	Whole Syllabus of Module :10+11				
39th	17-Nov-25	Mon		Grand Test					
39th	20-Nov-25	Thu	Integrated	Block-6 Exam	Whole Syllabus of Module : 10 & 11				
	21-Nov-25	Fri		OSPE+VIVA					
End Of Block-6									
LSE/Send-Up Exam: 26th Nov,2025- 10th Dec,2025									
40th	26-Nov-25	Wed	Block-4 Exam	LSE/Send-Up	Whole Syllabus of Module-1 & 2				
40th	27-Nov-25	Thu			SDL				
40th	28-Nov-25	Fri			SDL				
40th	29-Nov-25	Sat			Day Off				
41st	30-Nov-25	Sun			Day Off				
41st	1-Dec-25	Mon	Block-5 Exam	LSE/Send-Up	Whole Syllabus of Module-3 (A+B)				
41st	2-Dec-25	Tue			SDL				
41st	3-Dec-25	Wed			SDL				
41st	4-Dec-25	Thu			SDL				
41st	5-Dec-25	Fri	Block-6 Exam	LSE/Send-Up	Whole Syllabus of Module-4 & 5				
41st	6-Dec-25	Sat			Day Off				
42nd	7-Dec-25	Sun			Day Off				
42nd	8-Dec-25	Mon	Block-4		OSPE/ VIVA				
42nd	9-Dec-25	Tue	Block-5		OSPE/ VIVA				
42nd	10-Dec-25	Wed	Block-6		OSPE/ VIVA				

Table of Specification

MBBS 2nd Professional

Block-4

Theme	Subject	Written Exam			Oral/Practical/Clinical Exam			
		MCQ (1 mark)	SEQ (5 mark each)	Marks	OSPE (8 marks each observed)	OSCE (5 marks each observed)	OSVE (14 marks each observed)	Marks
Normal Structure	Anatomy applied/clinical	23	03	38	04	-	01	46
Normal Function	Physiology applied/clinical	18	02	28	03	-	01	38
	Biochemistry applied/clinical	22	03	37	02	-	01	30
Disease Burden & Prevention	Community Medicine & Public Health	06	-	06	-	-	-	-
	Behavioral Sciences	05	-	05	-	-	-	-
Pathophysiology & pharmacotherapeutics	Pathology	11	01	16	01	-	-	08
	Pharmacology	05	01	10	01	-	-	08
CFRC	CF-2	-	-	-	-	01	-	05
PERLs	PERLs-2	-	-	-	-	01	-	05
Total		90	10x5=50	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 ed.

Langman's Medical Embryology 12th ed

Medical Histology by Laiq Hussain Siddiqui 8th edition.

General Anatomy by Laiq Hussain Siddiqui 6th edition.

Biochemistry

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

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

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

Pathology

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 Beverely E.Holland,

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

Community medicine

Parks Textbook of Preventive and Social Medicine. K. Park

Public Health and Community Medicine by Ilyas Ansari

MSDS manual of Government of Punjab

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

Surgery

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

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

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

Patent Safety

Patient Safety 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.Deimao

Knight B. Simpson's Forensic Medicine.

Knight and Pekka. Principles of Forensic Medicine

Forensic Pathology

Forensic pathology 2nd edition by V.J.Deimao 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 peds medicine

Islamiyat

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

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

About Avicenna Medical College

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

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

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

Infrastructure Resources

Sr .	Infrastructure Resources	Description
1.	Lecture Hall	Each year has a dedicated lecture hall, totaling five lecture halls for the five professional years. These halls are equipped with modern audiovisual aids to support effective teaching and learning.
2.	Tutorial Room	The college's tutorial rooms, each with a capacity of 30, are specifically designed to support small group discussions and interactive sessions. These rooms facilitate personalized instruction, enabling more engaged and effective learning through direct interaction between students and instructors.
3.	Lab	The college is equipped with state-of-the-art laboratories for practical and clinical work. Each lab is designed to support various disciplines, to facilitate hands-on learning.
4.	Library on campus	A huge library occupies a full floor and has 260 seats including study carrels and group-discussion tables. Latest reference books of Basic and Clinical Sciences along with national & international journals are available in the library.
5.	Digital Library	The digital library offers access to a vast collection of e-books, online journals, research databases, and other digital resources. It supports remote access and provides tools for academic research and learning.
6.	Learning Management System (LMS)	The LMS is a comprehensive online platform that supports course management, content delivery, student assessment, and communication. It provides tools for tracking progress, managing assignments, and facilitates ongoing academic activities.

6.	Phantom Labs	Specialized Phantom Labs are available for advanced simulation and practice in dental procedures. These labs provide high-fidelity models and simulators that help students refine their clinical skills in a controlled environment.
7.	Mess & Cafeteria	<p>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</p> <p>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.</p> <p>Two 50- inch LCD screens provide students an opportunity to get entertained during their meal times.</p>
8.	Gymnasium & Sports	<p>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.</p> <p>The gym itself is fully equipped with modern machinery both for students and faculty.</p>
9.	IT Lab	The IT Lab is equipped with modern computers and software available for students who need access for academic purposes.
10	Auditorium	The college has a spacious auditorium equipped with advanced audio-visual facilities. It is used for large-scale lectures, guest presentations, and academic conferences, providing a venue for students to engage with experts and participate in important educational events.
11	Examination Halls	The college provides dedicated examination halls that are designed to accommodate a large number of students comfortably. These halls are equipped with necessary facilities to ensure a smooth and secure examination process, including proper seating arrangements, monitoring systems, and accessibility features.

7-Star Doctor Competencies (PMDC)

According to national regulatory authority PMDC, a Pakistani medical/dental graduate who has attained the status of a 'seven-star doctor' is expected to demonstrate a variety of attributes within each competency. These qualities/ generic competencies are considered essential and must be exhibited by the individual professionally and personally.

1. Skillful / Care Provider.
2. Knowledgeable / Decision Maker.
3. Community Health Promoter / Community Leader.
4. Critical Thinker / Communicator
5. Professional / Lifelong learner.
6. Scholar / Researcher
7. Leader/ Role Model / Manager

Message from the Principal

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

Principal

Prof. Dr. Gulfreed Waheed

MBBS, FCPS, MHPE, PhD Scholar - HPE

Avicenna Medical & Dental College



Message from the Chairman

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

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

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

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

Chairman
Abdul Waheed Sheikh
Avicenna Medical & Dental College





Avicenna Medical & Dental College



Vision

The vision of **Avicenna Medical & Dental College** is to become a college that thrives to achieve improvement in healthcare of masses through creative delivery of educational programs, innovative research, commitment to public service and community engagement in a environment that supports diversity, inclusion, creative thinking, social accountability, life-long learning and respect for all.

Mission

The mission of **Avicenna Medical and Dental College** is to educate and produce competent, research oriented healthcare professionals with professional commitment and passion for life-long learning from a group of motivated students through quality education, research and service delivery for the improvement of health status of the general population.