

AVICENNA MEDICAL & DENTAL COLLEGE



STUDY GUIDE
2026

Infectious Diseases
BLOCK 8 - MODULE 17



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

Table of Contents

About Avicenna Medical College	4
 Message from the Principal	5
 Message from the Chairman	6
Vision & Mission	7
List of Abbreviations	8
Curriculum Framework	14
Introduction to the Study Guide	15
Objectives of the Study Guide	15
7-Star Doctor Competencies (PMDC)	16
Introduction to Module	17
Module Committee	18
Curriculum Map	19
ACADEMIC CALENDER:	20
Timetable	21
Allocation of Hours	26
Modular Outcomes	27
Learning Objectives	29
Operational Definitions	66
 Infrastructure Resources	67
Internal Assessment Policy	70
 Assessment Criteria and Weighting	71
 Assessment Procedures	71
 Appeal Process	72
 Attendance Requirement & Internal Assessment Criteria	72
 Assessment Guidelines	72
Assessment Schedule	74
Table of Specification	75
Recommended Books & Reading Resources	76

About Avicenna Medical College

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

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

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

Message from the Principal

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

Principal

Prof. Dr. Gulfreen Waheed

MBBS, FCPS, MHPE, PhD Scholar - HPE

Avicenna Medical & Dental College



Message from the Chairman

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

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

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

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

Chairman
Abdul Waheed Sheikh
Avicenna Medical & Dental College





Avicenna Medical & Dental College



Vision

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

Mission

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

List of Abbreviations

Letter	Abbreviations	Subjects
A	A	Anatomy
	ABCDE	Airway, Breathing, Circulation, Disability, Exposure
	ABG	Arterial blood gas
	ACS	Acute Coronary Syndromes
	Ag	Aging
	AKI	Acute kidney injury
	ALT	Alanine transaminase
	AMI	Acute Myocardial Infarction
	AMP	Adenosine monophosphate
	ANA	Antinuclear Antibody
	ANCA	Anti-neutrophil Cytoplasmic Antibodies
	ANS	Autonomic Nervous System
	AO	Association of osteosynthesis
	APTT	Activated Partial Thromboplastin Clotting Time
	ARDS	Acute Respiratory Distress Syndrom
	ARVC	Arrhythmogenic Right ventricular Cardiomyopathy
	ASD	Atrial Septal Defect
	AST	Aspartate aminotransferase
	ATLS	Advanced Trauma Life Support
	Au	Autopsy
	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

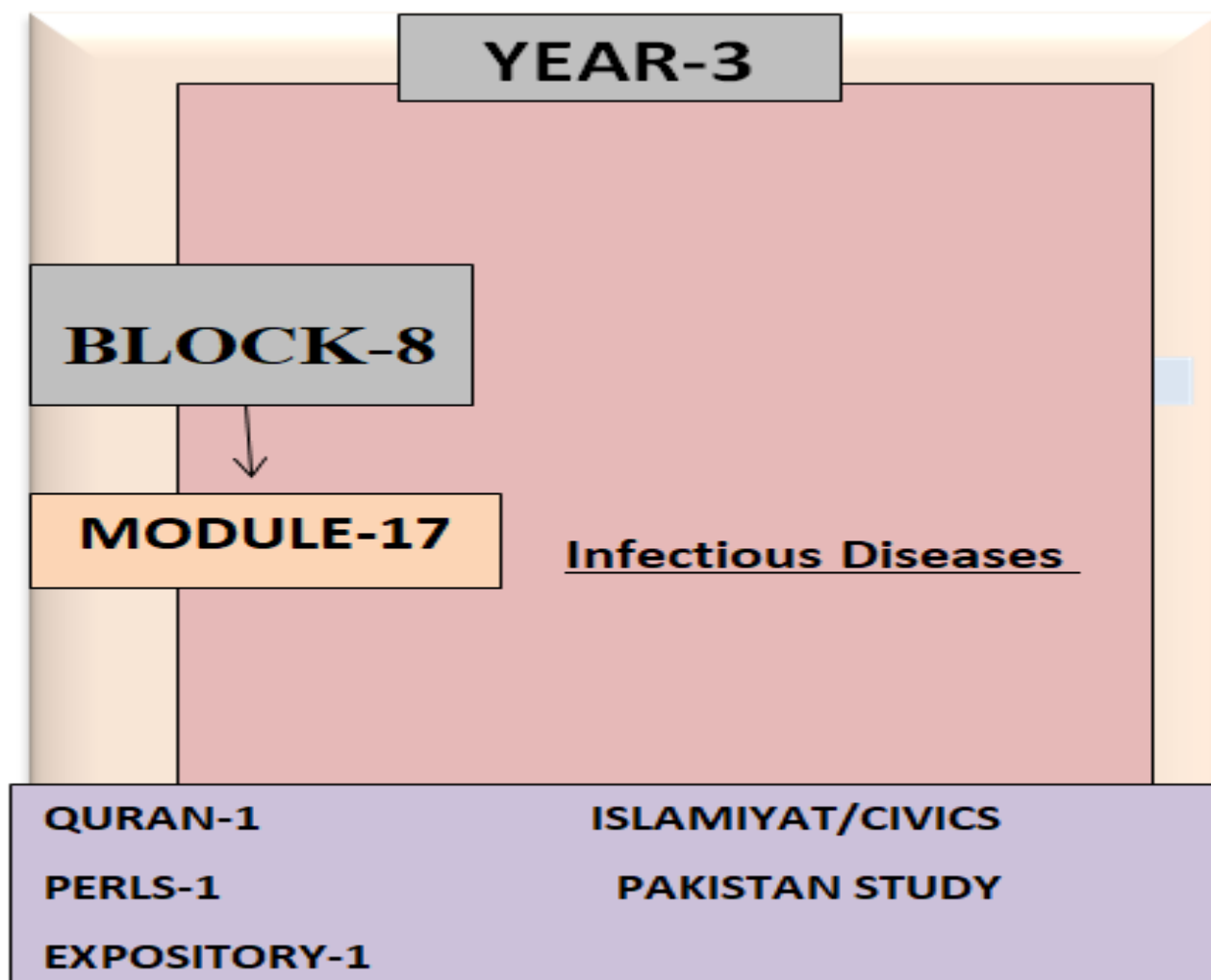
	CLED	cystine lactose electrolyte deficient
	CLL	chronic lymphocytic leukemia
	CM	Community Medicine
	CML	chronic myeloid leukemia
	CMV	cytomegalo virus
	CNS	Central Nervous System
	CO	Carbon monoxide
	CO2	Carbon dioxide
	CODIS	combined DNA index system
	COPD	Chronic obstructive pulmonary disease
	COVID-19	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
	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



Introduction to the Study Guide

Welcome to the Avicenna Medical & Dental College Study Guide!

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

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

Objectives of the Study Guide

1. Institutional Understanding:

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

2. Effective Utilization:

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

3. Subject Insight:

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

4. Curriculum Framework:

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

5. Assessment Preparation:

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

6. Policies and Compliance:

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

7. Learning Resources:

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

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

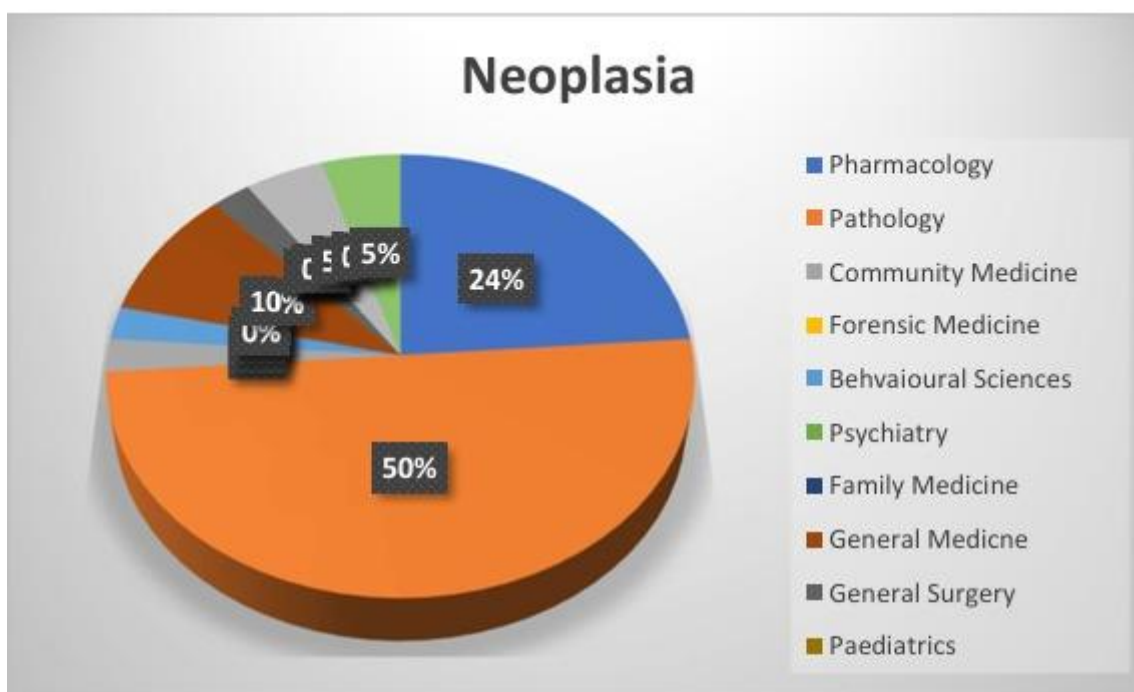
7-Star Doctor Competencies (PMDC)

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

- 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

- Neoplasia module is essential to provide MBBS students with the knowledge and skills abilities necessary to comprehend the biological, clinical, and public health aspects of cancer.
- This module provides the foundation for effective cancer diagnosis, management, and prevention, it guarantees that our future doctor is well prepared to address one of the most pressing healthcare challenges of our time.
- Aim of this module is to provide MBBS students with a comprehensive understanding of neoplasia, preparing them to diagnose, treat, and prevent cancer effectively in their future clinical practice.

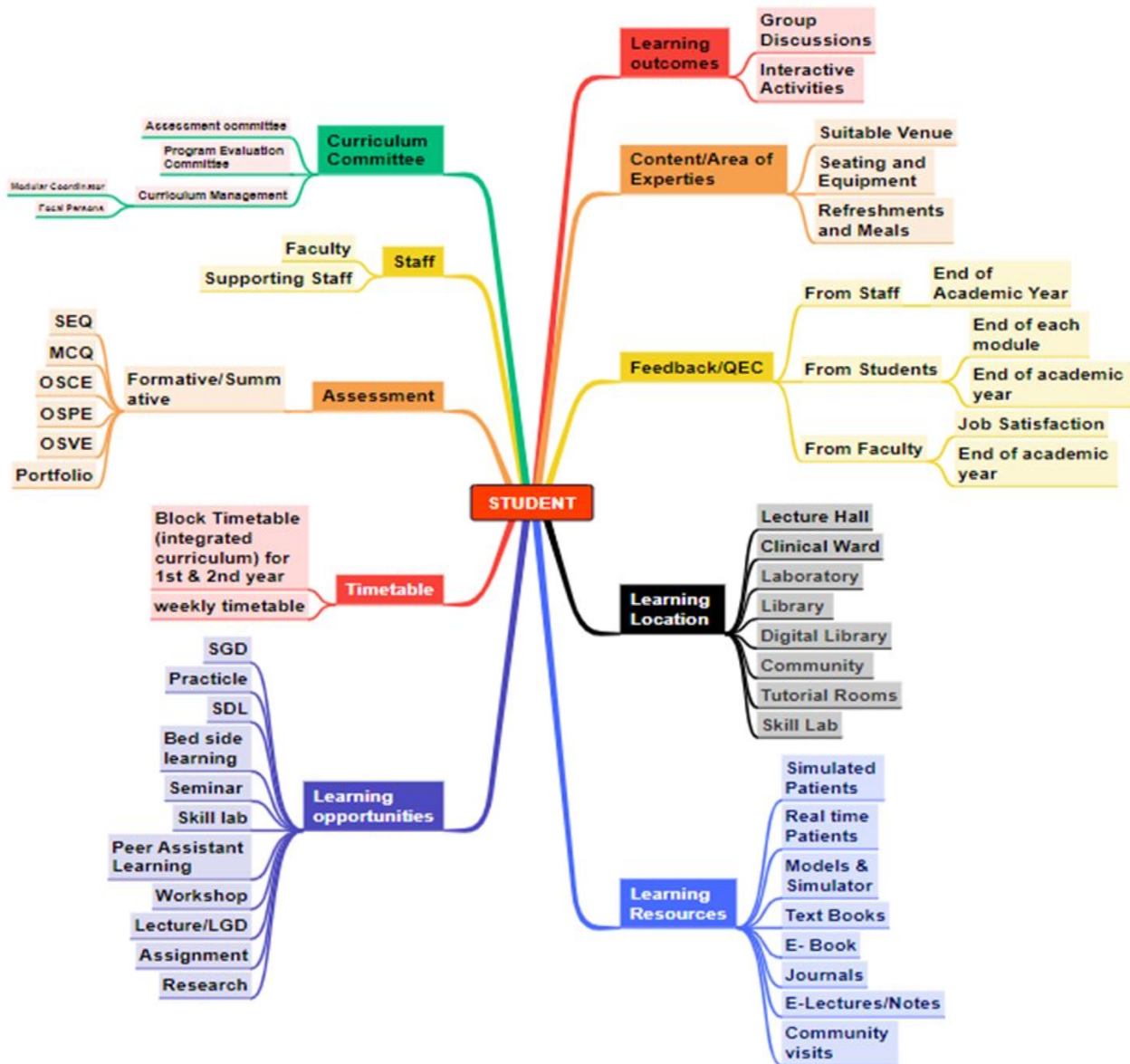


Module Weeks	Recommended Minimum Hours
1.2	42

Name	Designation	Department
Prof. Dr. Gulfreen Waheed	Principal & Director	Medical Education
Dr. Saba Iqbal	Associate Director	Medical Education
Dr Hussain Raza	Assistant Professor	Medical Education
Dr. Javaid Shabkhez Rab	Coordinator	Medical Education
Dr. Salar Arsalan	Demonstrator	Medical Education
Dr. Huma Fatima	Demonstrator	Medical Education
Dr. Ijlal Zehra	Head	Assessment Cell
Mr. Adeel	Head	Student Affairs
Prof. Dr. Saeed Afzal	Head	Pathology
Dr. Majid Rauf Ahmad	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. Hassan	Focal Person	General Surgery
Prof. Dr. Muzammil	Head	Medicine Unit-1
Prof. Dr. Waheed Ahmed	Head	Medicine Unit-2
Dr. Imran	Focal Person	General Medicine
Dr. Usman	Focal Person	Psychiatry
Dr. Sadia Malik	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:



ACADEMIC CALENDER:

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

AVICENNA MEDICAL & DENTAL COLLEGE

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 13		M-23 3rd Year MBBS	SESSION 2025-2026						BLOCK 8
DATE	DAY								MODULE -17
8-Jun	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE PHARMACOLOGY	LECTURE RADIOLOGY	LECTURE PATHOLOGY	Break	LECTURE PATHOLOGY	LECTURE PERLS (RESEARCH Biostatition (Lecture / Practical)	Clinical Rotation-CFRC	
9-Jun	TUE	8.00-9.00	9.00-10.00	10.00-10.30	10.30-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		Module 16 Exam (Written)		Break	Module 16 Exam (OSPE/VIVA)			Clinical Rotation-CFRC	
10-Jun	WED	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE COMMUNITY MEDICINE	LECTURE PATHOLOGY	LECTURE MEDICINE	Break	LECTURE PHARMACOLOGY	PRACTICAL	Clinical Rotation-CFRC	
11-Jun	THU	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30
		LECTURE FOR.MEDICINE	LECTURE PHARMACOLOGY	LECTURE PATHOLOGY		LECTURE COMMUNITY MEDICINE	LECTURE MEDICINE	E.W	PRACTICAL
12-Jun	FRI	8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-1.00	1.00-2.00	2.00-3.30	
		LECTURE SURGERY	LECTURE FOR.MEDICINE	LECTURE PHARMACOLOGY	LECTURE PATHOLOGY	LECTURE Pediatrics	JUMMA BREAK	PRACTICAL	

AVICENNA MEDICAL & DENTAL COLLEGE

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 14		M-23 3rd Year MBBS	SESSION 2025-2026					BLOCK 8	
DATE	DAY							MODULE -17	
15-Jun	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30		12.30-1.30	1.30-3.30
		LECTURE PATHOLOGY	LECTURE COMMUNITY MEDICINE	LECTURE PHARMACOLOGY	Break	TUTORIAL		PRACTICAL	Clinical Rotation-CFRC
16-Jun	TUE	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30		12.30-1.30	1.30-3.30
		LECTURE MEDICINE	LECTURE PATHOLOGY	LECTURE PHARMACOLOGY		TUTORIAL		PRACTICAL	Clinical Rotation-CFRC
17-Jun	WED	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30		12.30-1.30	1.30-3.30
		LECTURE SURGERY	LECTURE PHARMACOLOGY	LECTURE PATHOLOGY		LECTURE PATHOLOGY		LECTURE GYNAECOLOGY	Clinical Rotation-CFRC
18-Jun	THU	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30		12.30-1.30	1.30-2.30 2.30-3.30
		LECTURE FOR.MEDICINE	LECTURE PATHOLOGY	LECTURE PHARMACOLOGY		LECTURE PATHOLOGY		LECTURE COMMUNITY MEDICINE	TUTORIAL PRACTICAL
19-Jun	FRI	8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-1.00	1.00-2.00		2.00-3.30
		LECTURE PEDIATRICS	LECTURE FOR.MEDICINE	LECTURE PATHOLOGY	LECTURE PHARMACOLOGY	LECTURE PATHOLOGY	JUMMA BREAK		LECTURE PERLS

AVICENNA MEDICAL & DENTAL COLLEGE

Rectangular Snip

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 15		M-23 3rd Year MBBS	SESSION 2025-2026						BLOCK 8	
DATE	DAY		MODULE -17							
22-Jun	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30		
		LECTURE GYNAECOLOGY	LECTURE PATHOLOGY	LECTURE COMMUNITY MEDICINE	Break	TUTORIAL	PRACTICAL	Clinical Rotation-CFRC		
23-Jun	TUE	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30		
		LECTURE MEDICINE	LECTURE PHARMACOLOGY	LECTURE PATHOLOGY		TUTORIAL	PRACTICAL	Clinical Rotation-CFRC		
24-Jun	WED	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30		
		LECTURE SURGERY	LECTURE FOR.MEDICINE	LECTURE PATHOLOGY		TUTORIAL	PRACTICAL	Clinical Rotation-CFRC		
25-Jun	THU	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30	
		Ashura								
26-Jun	FRI	8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-1.00	1.00-2.00	2.00-3.30		
		Ashura								

AVICENNA MEDICAL & DENTAL COLLEGE

Rectangular Snip

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 16		M-23 3rd Year MBBS	SESSION 2025-2026					BLOCK 8	
DATE	DAY							MODULE -17	
29-Jun	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE PATHOLOGY	LECTURE PHARMACOLOGY	LECTURE COMMUNITY MEDICINE	Break	TUTORIAL	PRACTICAL	Clinical Rotation-CFRC	
30-Jun	TUE	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE PHARMACOLOGY	LECTURE MEDICINE	LECTURE PATHOLOGY		TUTORIAL	PRACTICAL	Clinical Rotation-CFRC	
1-Jul	WED	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE PATHOLOGY	LECTURE PHARMACOLOGY	LECTURE PATHOLOGY		LECTURE PHARMACOLOGY	LECTURE PERLS (Research Coordinator Practical)	Clinical Rotation-CFRC	
2-Jul	THU	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30
		LECTURE FOR.MEDICINE	LECTURE PATHOLOGY	LECTURE PHARMACOLOGY		LECTURE PATHOLOGY	LECTURE COMMUNITY MEDICINE	TUTORIAL	PRACTICAL
3-Jul	FRI	8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-1.00	1.00-2.00	2.00-3.30	
		LECTURE PHARMACOLOGY	LECTURE FOR.MEDICINE	LECTURE PATHOLOGY	LECTURE PERLS (Community Medicine)	LECTURE PATHOLOGY	JUMMA BREAK	LECTURE PERLS	

Allocation of Hours

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

Modular Outcomes

Module Name

Block 8

Module 17

Infectious Diseases

- Demonstrate a systematic approach to assessing patients with suspected infections, including pyrexia of unknown origin and sepsis, while adhering to biosafety protocols to minimize the risk of infection transmission during patient evaluation.
- Diagnose common viral infections such as measles, chickenpox, rubella, mumps, influenza, COVID-19, and dengue based on clinical features and diagnostic tools, applying biosafety measures during sample collection and handling.
- Outline treatment options, including antiviral therapies, supportive care, and preventive measures (e.g., immunization) for viral infections.
- Diagnose and manage gram-positive and gram-negative bacterial infections such as pharyngitis, pneumonia, enteric fever, and meningitis.
- Describe the clinical features, diagnosis, and management of clostridial infections (botulism, gas gangrene) and sexually transmitted infections like syphilis.
- Recognize the clinical features and management strategies for mycobacterial infections, with a focus on pulmonary and abdominal tuberculosis.
- Identify and manage common fungal infections, including diagnosis, treatment, and preventive measures.
- Explain the clinical features, investigations, and treatment of protozoal infections such as amoebiasis and helminthic infections like ascariasis and hookworm.
- Describe the life cycle of helminths and explain how infections like hookworm contribute to anemia, along with prevention and treatment strategies.
- Diagnose and manage acute and chronic diarrhea based on etiologies such as bacterial, viral, and protozoal infections.
- Discuss strategies for immunization and prevention of vaccine-preventable diseases, including measles, mumps, rubella, and poliomyelitis.
- Apply empirical and definitive treatment protocols for various infectious diseases, including antibiotic stewardship and antiviral therapies.
- Analyze the epidemiology of diseases like dengue, rabies, and COVID-19, and propose public health interventions for their control and prevention.
- Describe the role of surgical interventions in infections like hydatid cysts, alongside medical management approaches.
- Recognize different types of Healthcare-Associated Infections (HAI), associated pathogens, transmission routes, and prevention strategies.

- Implement effective prevention and control measures for HAI in clinical settings to ensure patient safety.
- Identify and apply biosafety measures in laboratory and clinical settings to ensure safe handling of biological materials and minimize bio risk during infectious disease management.
- Evaluate the importance of bio risk management protocols in infection prevention strategies, focusing on the safe collection, storage, and disposal of biological samples to protect both healthcare workers and patients.

Learning Objectives

MICROBIOLOGY			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 53	
		INTEGRATING DISCIPLINE	TOPIC
ID-Pa-001	Explain the morphological, pathological and diagnostic aspects of Staphylococci, Streptococci, Clostridia, Bacillus, Corynebacterium, Listeria, and Gardnerella.	Microbiology	Bacterial infectious agents
	Explain the morphological, pathological, and diagnostic aspects of <i>Neisseria gonorrhoeae</i> (gonococci), <i>Neisseria meningitidis</i> (meningococci), <i>Escherichia coli</i> , <i>Salmonella</i> , <i>Shigella</i> , <i>Vibrio</i> , <i>Proteus</i> , <i>Pseudomonas</i> , <i>Helicobacter pylori</i> , <i>Campylobacter</i> , spirochetes, <i>Mycobacterium</i> , <i>Chlamydia</i> , <i>Rickettsia</i> , and <i>Actinomyces</i> .	Microbiology	

ID-Pa-002	Explain the life cycles and diagnostic aspects of <i>Wuchereria bancrofti</i>, <i>Dracunculus medinensis</i>, <i>Loa loa</i>, <i>Taenia saginata</i>, <i>Taenia solium</i>, <i>Echinococcus granulosus</i>, <i>Diphyllobothrium latum</i>, <i>Hymenolepis nana</i>, <i>Giardia lamblia</i>, <i>Entamoeba histolytica</i>, <i>Plasmodium</i> species, <i>Leishmania</i>, <i>Toxoplasma gondii</i>, <i>Trypanosoma</i> species, Schistosoma, liver fluke, and <i>Naegleria fowleri</i>.	Microbiology	Parasitic infectious agents
ID-Pa-003	Explain the morphological, pathological, and diagnostic aspects of dermatophytes, <i>Malassezia furfur</i>, <i>Sporothrix schenckii</i>, and <i>Histoplasma capsulatum</i>.	Microbiology	Fungal infections
	Explain the morphological, pathological, and diagnostic aspects of <i>Coccidioides</i>, <i>Paracoccidioides</i>, <i>Blastomyces</i>, <i>Candida</i>, <i>Mucor</i>, <i>Aspergillus</i>, and <i>Cryptococcus</i>.		

ID- Pa- 004	Explain the morphological, pathological, and diagnostic aspects of adenoviruses, papillomaviruses, polyomaviruses, poxviruses, herpesviruses,	Microbiology	Viral infectious agents
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	hepadnaviruses, picornaviruses, hepeviruses, caliciviruses, and reoviruses.		
	Explain the morphological, pathological, and diagnostic aspects of retroviruses, flaviviruses, togaviruses, coronaviruses, deltaviruses, paramyxoviruses, rhabdoviruses, orthomyxoviruses, and filoviruses.		
	Enlist the organisms causing central nervous system (CNS) infections. Compare the CSF findings of viral and bacterial meningitis.		

ID- P a - 0 0 5	Correlate the clinical features of CNS infections with the virulence factors, transmission, pathogenesis, and laboratory diagnosis of <i>Streptococcus pneumoniae</i>, <i>Streptococcus agalactiae</i>, <i>Neisseria meningitidis</i>, <i>Haemophilus influenzae</i>, <i>Escherichia coli</i>, <i>Listeria monocytogenes</i>, and <i>Mycobacterium tuberculosis</i>.	Microbiology	Microorganism s causing CNS infections
	Correlate the clinical aspects of CNS infections with the virulence factors, transmission, pathogenesis, and laboratory diagnosis of enteroviruses, mumps virus, herpes simplex virus, adenoviruses, <i>Cryptococcus neoformans</i>, rabies virus, <i>Plasmodium species</i> (malaria), <i>Toxoplasma gondii</i>, and <i>Naegleria fowleri</i>.		
	Enlist organisms causing diarrhea & food poisoning.	Microbiology	

ID- P a - 0 0 6	Correlate the clinical aspects of gastrointestinal (GIT) infections with the virulence factors, transmission, pathogenesis, and laboratory diagnosis of <i>Escherichia coli</i> , <i>Bacillus cereus</i> , <i>Salmonella</i> species, <i>Shigella</i> species, <i>Vibrio cholerae</i> and other <i>Vibrio</i> species, <i>Helicobacter pylori</i> , <i>Campylobacter jejuni</i> , <i>Clostridium</i> species, and <i>Entamoeba histolytica</i> .	Microbiology	Microorganism s causing GIT infections
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	Correlate the clinical aspects of gastrointestinal (GIT) infections with the virulence factors, transmission, pathogenesis, and laboratory diagnosis of <i>Giardia lamblia</i>, <i>Cryptosporidium parvum</i>, <i>Diphyllobothrium latum</i>, <i>Hymenolepis nana</i>, <i>Ancylostoma duodenale</i>, <i>Necator americanus</i>, <i>Ascaris lumbricoides</i>, <i>Enterobius vermicularis</i>, <i>Trichuris trichiura</i>, <i>Trichinella spiralis</i>, poliovirus, hepatitis A and E viruses, norovirus, and rotavirus.	Microbiology	
	Correlate clinically the following viruses via their virulence factors, transmission, pathogenesis, laboratory diagnosis in acute & chronic hepatitis; Hepatitis A, B, C, D, E, G	Microbiology	
	Correlate clinically the virulence factors, transmission, pathogenesis, laboratory diagnosis of <i>Entamoeba</i> & <i>Echinococcus</i> in liver infections.	Microbiology	

ID-Pa-007	Correlate clinically the virulence factors, transmission, pathogenesis, and laboratory diagnosis of organisms causing genital tract infections, including <i>Neisseria gonorrhoeae</i> , <i>Treponema pallidum</i> , <i>Chlamydia trachomatis</i> , <i>Mycoplasma hominis</i> , <i>Candida albicans</i> , <i>Trichomonas vaginalis</i> , <i>Gardnerella vaginalis</i> , hepatitis B virus, HIV, and herpes simplex virus type II.	Microbiology integrates with medicine	Sexually transmitted infections
ID-Pa-008	Describe and identify the key features, pathogenicity, and diagnostic aspects of the causative organisms of anthrax, plague, and selected bacterial zoonoses, including <i>Rickettsia</i> , <i>Leptospira</i> , <i>Brucella</i> , <i>Bacillus anthracis</i> , <i>Yersinia pestis</i> , <i>Francisella</i> , and <i>Bartonella</i> .	Microbiology	Zoonotic infections

PHARMACOLOGY

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 18	
		INTEGRATING DISCIPLINE	TOPIC
	Classify cell wall synthesis inhibitors. Discuss the mechanism of action of beta lactam antibiotics,. Outline the mechanism of resistance to beta lactam antibiotics. Differentiate the clinical uses of beta lactam antibiotics. Enlist the major adverse effects of penicillin		
	Discuss the mechanism of action and clinical significance of beta lactamase inhibitors.		

ID- Ph- 001	Classify cephalosporin generations. Describe their antibacterial spectrum and clinical uses. Enumerate the clinical uses and enlist major adverse effects of cephalosporin generations.	Pharmacology	Cell Wall Inhibi tors
	Describe important features of the carbapenems and monobactam.		
	Enumerate the membrane active antibiotics. Describe the mechanism of action of membrane, clinical uses, adverse effects of active antibiotics, Describe the mechanism of resistance of membrane active antibiotics.		

	Describe antibacterial spectrum, mechanism of action, resistance, clinical uses, and toxicity of vancomycin. Describe clinical features of Redman Syndrome.	Pharmacology	
	Enlist antibacterial spectrum of vancomycin. Discuss mechanism of action, resistance, clinical uses, and toxicity of vancomycin. Describe the pharmacological significance of Redman Syndrome.		

	Explain briefly the steps of protein synthesis.		
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	Classify protein synthesis inhibitors. Discuss mechanism of action, resistance, antibacterial spectrum, clinical uses, adverse effects of tetracyclines. Classify macrolide Describe the mechanism of action and pharmacokinetics, antimicrobial spectrum, clinical uses, adverse effects of macrolides. Enlist mechanism of resistance and drug interactions of macrolides. Discuss mechanism of action, pharmacokinetics, clinical uses and adverse effects of clindamycin. Explain mechanism of action, resistance, antibacterial spectrum, pharmacokinetics,	Pharmacology	
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I D - P H C O O 2	clinical uses and adverse effects of chloramphenicol. Describe pharmacological significance of Gray Baby Syndrome. Enlist major pharmacokinetic characteristics of streptogramins.	Pharmacology	Protein Synthesis Inhibitors
	Classify antifolate drugs. Classify sulfonamides. Describe mechanism of action, clinical uses, and adverse effects. Outline clinical features of Steven Johnsons Syndrome.	Pharmacology	

	Explain mechanism of actions, resistance, antibacterial spectrum, pharmacokinetics, clinical uses and adverse effects of trimethoprim and cotrimoxazole.		
	Classify aminoglycosides. Describe the mechanism of action of aminoglycosides. Describe the mechanism of resistance of aminoglycosides. Discuss the clinical uses, adverse effects of aminoglycosides.		
		Pharmacology	

	Classify Flouoroquinolones. Describe the mechanism of action, resistance, clinical uses, and adverse effects of Flouoroquinolones.		
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ID-Ph-003	Classify antituberculosis drugs into 1st line and 2nd line agents with examples. Describe the characteristic pharmacodynamics and pharmacokinetic properties of Rifampin, Isoniazid, Ethambutol and Pyrazinamide. Discuss the adverse effects of 1st line antituberculosis drugs. Describe standard protocols (WHO recommendation) for management of newly diagnosed pulmonary tuberculosis, multidrug-resistant tuberculosis, latent tuberculosis. Describe how to monitor patients during antituberculosis drug therapy. Discuss 2nd line drugs used in treatment of multidrug resistant tuberculosis with their therapeutic and adverse effects.		Antituberculosis Therapy (ATT)
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ID-Ph-004	Enumerate the drugs for leprosy. Explain standard protocols (WHO recommendation) for management of leprosy. Describe their mechanism of action and adverse effects.		Drugs used in Leprosy
ID-Ph-005	Classify antiprotozoal drugs. Classify antimalarial drugs. Describe the mechanism of action and mechanism of resistance, clinical uses, adverse effects of Antimalarial drugs. Discuss mechanism of action, pharmacokinetics, clinical uses and adverse effects of antiprotozoal drugs used for the treatment of amoebiasis, giardiasis, Leishmaniasis, and Trypanosomiasis.	Pharmacology & Medicine	Antiprotozoal Drugs

ID-Ph-006	Classify anti-helminthic drugs. Discuss mechanisms of action, clinical uses, adverse effects of anthelmintic drugs.		Anti-Helminthic Drugs
ID-Ph-007	Classify antifungal drugs. Discuss drugs used for systemic mycotic infections. Discuss mechanisms of action and resistance, pharmacokinetics, clinical uses, adverse effects of antifungal drugs.		Antifungal Drugs Classification

ID-Ph-008

Classify antiviral drugs.

Discuss the main steps of viral replication that are targets for antiviral drugs.

Describe drugs used in treatment of herpes simplex, varicella zoster, and cytomegalovirus virus infection with their pharmacological properties, mechanism of action and adverse effects.

Explain the mechanism of action, pharmacodynamics and adverse effects of acyclovir, valacyclovir, and famciclovir.

Classify antiretroviral agents.

Discuss their mechanism of action, resistance, pharmacokinetics, clinical uses, and adverse effects.

Classify drugs for treatment of Hepatitis B & C. Discuss their mechanism of action, resistance, pharmacokinetics, clinical uses, and adverse effects.

Enumerate the drugs used to treat coronavirus

Describe their mechanism of action and their adverse effects.

Pharmacology

Antiviral Agents

COMMUNITY MEDICINE

CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 06	
		INTEGRATING DISCIPLINE	TOPIC

ID- CM- 001	Identify the risk factors of TB Analyze the local and global burden of Tuberculosis Discuss prevention and control measures for Pulmonary TB in line with WHO strategies to control TB. Explain significance of TB DOTS therapy for TB control		Tuberculosis
	Explain the global burden of hepatitis. Discuss the importance of awareness and screening of hepatitis.		

ID- CM- 002	Explain effective prevention methods for each type of hepatitis. Discuss role of vaccination and public health initiatives for prevention and control of hepatitis. Describe the measures for prevention of vertical transmission (from mother to child) of Hepatitis B virus.	Community Medicine	Hepatitis
ID- CM- 003	Describe the global polio eradication initiative. Discuss the historical and current global impact of poliomyelitis vaccination efforts. Evaluate the effectiveness of different poliovirus vaccines (OPV and IPV) and outline the vaccination schedules. Discuss community health strategies for poliovirus surveillance, outbreak response, and vaccination campaigns.		Polio

	Describe 'end game strategy' by WHO for polio eradication.		
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ID- C M - 0 0 4	Discuss the global distribution of measles, mumps, rubella, and their occurrence in different population groups. Describe the mode of transmission and the highly contagious nature of measles, mumps, and rubella. Discuss the role of vaccination coverage and herd immunity in controlling outbreaks of measles, mumps,		Me asl es, Mu mp s, Ru
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	and rubella. Explain public health strategies for prevention and control of measles, mumps, and rubella including vaccination campaigns, surveillance, and outbreak response.		bell a
	Describe the goals and objectives of the Expanded Program of Immunization (EPI) in Pakistan.		

ID-CM-005	List the key vaccines included in the EPI schedule. Identify the strategies employed to implement the EPI in various communities. Evaluate the role of healthcare workers, community leaders, and families in promoting immunization. Identify the common barriers to immunization coverage in Pakistan. Describe enhance vaccination uptake. Discuss recent developments in the EPI, Pakistan.	Community Medicine	EPI
	Describe the role of DTP vaccination in preventing		

ID- C M - 0 0 6	diphtheria.		
	Identify the recommended vaccine schedule for		
	children and adults.		
	Analyze community-based vaccination campaigns.		Diphtheria
	Analyze public awareness programs & school health initiatives to control its transmission.		

ID-CM-007	Identify the global distribution of tetanus, including endemic areas and populations at higher risk. Describe the role of tetanus vaccination (Td or Tdap) in children and adults. Explain the importance of booster doses and timely immunization after potential exposure to contaminated wounds. Discuss the importance of seeking medical attention for injuries and educating the community about wound care.		Tetanus
INTERNAL MEDICINE			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 05	
		INTEGRATING DISCIPLINE	TOPIC
ID-M-001	Define pyrexia of unknown origin and state the diagnostic criteria. Classify the major etiological groups of PUO. Describe briefly the initial clinical approach to a patient with PUO.		Pyrexia of unknown origin

ID-M-002	Define sepsis and septic shock. Identify common causes of sepsis. Describe the key clinical signs and red flags of systemic infection. Outline basic laboratory and bedside investigations to diagnose sepsis. Plan the initial management and discuss preventive strategies.	Medicine	Sepsis
ID-M-003	Define meningitis. Identify the common signs and symptoms of meningitis. Describe the clinical importance of meningeal signs (Kernig's and Brudzinski's).		Meningitis

	Outline the key investigations used in the diagnosis of meningitis.		
ID-M-004	Diagnose and differentiate between upper and lower respiratory tract infections based on clinical presentation. Identify common causative organisms. Identify warning signs. Outline basic investigations to establish diagnosis and plan the management.		Respiratory tract infections
GYNAECOLOGY			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 02	
		INTEGRATING DISCIPLINE	TOPIC

ID-GO-001	Describe the routes of transmission of Human Papillomavirus. Diagnose HPV infection based on clinical presentation. Explain the role of HPV vaccination, including recommended age groups, vaccine types, and schedules. Describe preventive strategies and predict the possible outcomes of HPV infection.	Gynaecology	HPV
ID-GO-002	Define pelvic inflammatory disease. Identify common causative organisms and risk factors. Diagnose PID based on clinical presentation. Outline the diagnostic approach and plan the management.		Pelvic inflammatory disease
PEDIATRICS MEDICINE			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 02	
		INTEGRATING DISCIPLINE	TOPIC

ID-Pe-001	Define fever in children and differentiate it from hyperthermia. Identify common causes of fever in pediatric age group.	Paediatrics	Fever in children
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	Identify danger signs in a febrile child. Outline the steps of initial management and preventive measures including immunization and parental guidance.		
ID-Pe-002	Identify common infectious causes of diarrhea in children. Differentiate between mild, moderate, and severe dehydration in children based on clinical assessment findings. Outline the management plan and explain preventive measures.		Diarrhea in children
SURGERY			
		TOTAL HOURS = 02	

CODE	SPECIFIC LEARNING OUTCOMES	INTEGRATING DISCIPLINE	TOPIC
ID-S-001	List the common risk factors that predispose to surgical site infections. Identify early clinical features suggestive of a surgical site infection. Outline steps of initial management and prevention strategies. Describe the potential outcomes of untreated or poorly managed SSI.	Surgery	Surgical site infections
ID-S-002	Define surgical antibiotic prophylaxis and its role in preventing infection. Explain the principles of timing, choice, and duration of prophylaxis. Recognize the consequences of inappropriate use. Discuss the role of prophylaxis as part of a wider infection control strategy.		Antibiotic prophylaxis
INFECTION CONTROL			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 08	

		INTEGRATING DISCIPLINE	TOPIC
	Differentiate between contact, droplet, and airborne precautions for infection prevention and control. Discuss appropriate isolation and patient-care practices to prevent the spread of infectious agents. Explain the importance of adherence to transmission-based precautions in reducing healthcare-associated infections.	Community medicine	Transmission- based precautions

	Distinguish between cleaning, disinfection, and sterilization. Describe the levels of disinfection and their relevance in clinical practice. Identify commonly used sterilization methods and their indications. Explain the importance of proper instrument handling to prevent hospital-acquired infections and surgical site infections. Discuss the consequences of inadequate cleaning and sterilization.	Microbiology	Cleaning, disinfection, and sterilization.
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ID-IC-001	Define ventilator-associated pneumonia (VAP). Identify the common risk factors for VAP in critically ill and mechanically ventilated patients. Describe the typical clinical features and warning signs suggestive of VAP. Outline the basic diagnostic approach to suspected VAP. Explain the principles of prevention and discuss the potential outcomes and consequences of VAP. Identify the role of the surgical/clinical team in early recognition and prevention of VAP.	Medicine	Ventilator- associated pneumonia
	Define hospital-acquired infections and enlist its types. Describe the major risk factors for developing HAIs in hospitalized patients.	Community Medicine	Hospital acquired infections

	Identify the warning signs and clinical features suggestive of HAIs. Explain the principles of prevention and control of HAIs. Discuss the consequences of HAIs for patients, healthcare providers, and the healthcare system. Relate the importance of rational antibiotic use in preventing antimicrobial resistance linked to HAIs. Outline the role of the surgical team in preventing HAIs.		
	Discuss the safe work practices that reduce the risk of infection transmission in healthcare settings. Describe the safe disposal of sharps and waste. Explain aseptic technique and safe handling of invasive devices, in infection prevention.	Medicine/ Surgery	Safe work practices in healthcare settings
PATIENT SAFETY			
		TOTAL HOURS = 05	

CODE	SPECIFIC LEARNING OUTCOMES	INTEGRATING DISCIPLINE	TOPIC
ID-PS-001	Define biosafety and biosafety levels according to WHO. Describe biosafety levels. Enlist the bio risk organisms in each of biosafety levels. Discuss the safety protocols of BSL 1. Discuss the safety protocols of BSL 2. Discuss the safety protocols of BSL 3. Discuss the safety protocols of BSL 4.	Microbiology	Bio-risk management (BRM)
	Define biological waste. Categorize the biological wastes. Describe procedures for segregation, storage, treatment and disposal of biological waste.		

	Define spill management. Discuss the steps for the management of a laboratory spill.		
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	Define personal protective equipment. Discuss the situations under which PPE should be used by the health care professionals.		
	Discuss the SOP of transportation of biological samples.		
	Define bio risk management. Explain its relevance in healthcare and laboratory settings. Identify common biological hazards encountered in clinical, surgical, and laboratory environments.		

	Describe key components of biorisk management. Outline the steps of proper specimen handling, safe waste disposal, and correct use of protective equipment in healthcare facilities. Explain the role of institutional policies, training, and emergency preparedness in ensuring effective biorisk management.		
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MICROBIOLOGY			
CODE	SPECIFIC LEARNING OUTCOMES	TOTAL HOURS = 08	
		INTEGRATING DISCIPLINE	TOPIC

ID-Pa-009	Identify the stained slides of Gram-positive organisms (Staphylococci, Streptococci, Streptococcus pneumoniae), Gram-negative organisms (Neisseria, Escherichia coli, Proteus), and acid-fast bacilli under microscope. <i>(If slides are not available, photographic slides should be used)</i>	Microbiology	Staining
ID-Pa-010	Interpret the culture sensitivity reports and antibiograms of gram positive and gram-negative bacteria.		Laboratory reporting
ID-Pa-011	Identify and describe the growth characteristics of organisms on common culture media: Blood agar, Chocolate agar, Nutrient agar, TCBS, MacConkey agar, LJ medium, CLED agar, TSI, Urease, Citrate, blood culture bottles, and in anaerobic jars.		Culture sensitivity
ID-Pa-012	Identify the ova, cysts, and trophozoites of protozoans, helminths, cestodes and schistosomes under microscope. Perform the urine complete examination.		Stool & Urine examination

ID-Pa-015	Perform and interpret the catalase test, coagulase test, and oxidase test.		Laboratory tests
PHARMACOLOGY			
ID-Ph-009	Prepare and dispense 4 doses of APC Powder. Prepare and dispense doses of carminative mixture. Write prescription for the following clinical conditions: Urinary Tract Infection, Acute Bacillary Dysentery, Malaria, Amoebiasis, Helminthic infections, Hepatitis B	Pharmacology	Prescription

	and C, Dengue, COVID, Typhoid fever, Community acquired pneumonia and Pulmonary Tuberculosis		
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AVICENNA MEDICAL & DENTAL COLLEGE

Rectangular Snip

AVICENNA MEDICAL & DENTAL COLLEGE

TIME TABLE Week 13		M-23 3rd Year MBBS	SESSION 2025-2026					BLOCK 8	
DATE	DAY							MODULE -17	
8-Jun	MON	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE PHARMACOLOGY	LECTURE RADIOLOGY	LECTURE PATHOLOGY	Break	LECTURE PATHOLOGY	LECTURE PERLS (RESEARCH Biostatitian (Lecture / Practical)	Clinical Rotation-CFRC	
9-Jun	TUE	8.00-9.00	9.00-10.00	10.00-10.30	10.30-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		Module 16 Exam (Written)		Break	Module 16 Exam (OSPE/VIVA)			Clinical Rotation-CFRC	
10-Jun	WED	8.00-9.00	9.00-10.00	10.00-11.00	11.00-11.30	11.30-12.30	12.30-1.30	1:30-3.30	
		LECTURE COMMUNITY MEDICINE	LECTURE PATHOLOGY	LECTURE MEDICINE	Break	LECTURE PHARMACOLOGY	PRACTICAL	Clinical Rotation-CFRC	
11-Jun	THU	8.00-9.00	9.00-10.00	10.00-11.00		11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30
		LECTURE FOR.MEDICINE	LECTURE PHARMACOLOGY	LECTURE PATHOLOGY		LECTURE COMMUNITY MEDICINE	LECTURE MEDICINE	E.W	PRACTICAL
12-Jun	FRI	8.00-9.00	9.00-10.00	10.00-11.00	11.00-12.00	12.00-1.00	1.00-2.00	2.00-3.30	
		LECTURE SURGERY	LECTURE FOR.MEDICINE	LECTURE PHARMACOLOGY	LECTURE PATHOLOGY	LECTURE Pediatrics	JUMMA BREAK	PRACTICAL	

Operational Definitions

Traditional & Innovative Teaching Methodologies

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

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

Infrastructure Resources

Sr.	Infrastructure Resources	Description
1.	Lecture Hall	Each year has a dedicated lecture hall, totaling five lecture halls for the five professional years. These halls are equipped with modern audiovisual aids to support effective teaching and learning.

2.	Tutorial Room	The college's tutorial rooms, each with a capacity of 30, are specifically designed to support small group discussions and interactive sessions. These rooms facilitate personalized instruction, enabling more engaged and effective learning through direct interaction between students and instructors.
3.	Lab	The college is equipped with state-of-the-art laboratories for practical and clinical work. Each lab is designed to support various disciplines, to facilitate hands-on learning.
4.	Library on campus	A huge library occupies a full floor and has 260 seats including study carrels and group-discussion tables. Latest reference books of Basic and Clinical Sciences along with national & international journals are available in the library.
5.	Digital Library	The digital library offers access to a vast collection of e-books, online journals, research databases, and other digital resources. It supports remote access and provides tools for academic research and learning.
6.	Learning Management System (LMS)	The LMS is a comprehensive online platform that supports course management, content delivery, student assessment, and communication. It provides tools for tracking progress, managing assignments, and facilitates ongoing academic activities.
6.	Phantom Labs	Specialized Phantom Labs are available for advanced simulation and practice in dental procedures. These labs provide high-fidelity models and simulators that help students refine their clinical skills in a controlled environment.
7.	Mess & Cafeteria	The College has its own on-campus Mess which caters to 600 students. All food items including dairy, meat, and vegetables are sourced organically and bought in at the time of cooking, in order to ensure that students get freshly cooked meals at all times Students form the Mess committee which decides the mess menu in consultation with other students. The Mess offers fresh food to all residents three times a day. However, day scholars are also welcome to use the Mess facility at a reasonable cost. Two 50- inch LCD screens provide students an opportunity to get entertained during their meal times.
8.	Gymnasium & Sports	We recognize sports as a pivotal key to shape and maintain students' personality and good health. The College has indoor and outdoor sports facilities to help enhance the cognition and capacity to learn. There is a proper sports section for various games like basketball, football, volleyball, and cricket. The gym itself is fully equipped with modern machinery both for students and faculty.
9.	IT Lab	The IT Lab is equipped with modern computers and software available for students who need access for academic purposes.

10 .	Auditorium	The college has a spacious auditorium equipped with advanced audio-visual facilities. It is used for large-scale lectures, guest presentations, and academic conferences, providing a venue for students to engage with experts and participate in important educational events.
11 .	Examination Halls	The college provides dedicated examination halls that are designed to accommodate a large number of students comfortably. These halls are equipped with necessary facilities to ensure a smooth and secure examination process, including proper seating arrangements, monitoring systems, and accessibility features.

AVICENNA MEDICAL & DENTAL COLLEGE
DEPARTMENT OF MEDICAL EDUCATION

Internal Assessment Policy

Introduction

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

Internal Assessment Components

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

1. Attendance

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

2. Continuous Assessment

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

3. Grand Test and Module Exams

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

4. Attitude and Behavior

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

5. Logbook and Portfolio

- Students will be required to maintain a logbook and portfolio to document their learning journey.
- The logbook will include reflections on lectures, tutorials, and practical sessions.

- The portfolio will showcase students' best work, including assignments, projects, and research papers.

Assessment Criteria and Weighting

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

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

Assessment Procedures

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

Appeal Process

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

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

Attendance Requirement & Internal Assessment Criteria

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

Assessment Guidelines

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

Assessment drives learning! – George E. Millar

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

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

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

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

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

YEAR-3		
A.	Block 7 (Foundation-II + Hematopoietic, Immunity & Implant + General Pharmacology + Forensic Medicine & Toxicology-I)	Marks
		350
B.	Block 8 (Musculoskeletal & Locomotion-II + Infectious Diseases + Neoplasia + Forensic Medicine & Toxicology - II)	350
C.	Block 9 (Cardiovascular-II + Respiratory II + Community Medicine & Public Health + Family Medicine I + Forensic Medicine & Toxicology - III)	350
	Total	1050



Avicenna Medical & Dental College
3rd Year MBBS (M-22)
Test Schedule Block-8

Week	Date	Day	Subject	Test	Topic
12th	3-Jun-25	Tue	All Subjects	Lecture	Lecture Time Divided
13th	10-Jun-25	Tue	All Subjects	Lecture	Lecture Time Divided
14th	17-Jun-25	Tue	Pathology	Grand Test OSPE+VIVA	Neoplasia,Gram positive bacteria
15th	24-Jun-25	Tue	For.Medicine	Grand Test OSPE+VIVA	General Trauma and Firearm injuries
16th	1-Jul-25	Tue	Pharamcology	Grand Test OSPE+VIVA	Cell cycle specific and non-specific antitumor agents, cell wall inhibitors,protein synthesis inhibitors, ATT,Leprsosy, antiprotozoal drugs,anti-helminthic drugs, Anti-Fungal drugs, Antiviral Agents, DRUGS IN PUO, Drugs used in GIT Infections, respiratory tract infections, drugs used in STDs
17th	8-Jul-25	Tue	Pathology	Grand Test OSPE+VIVA	GNR-1,Parasitology,Mycology
18th	15-Jul-25	Tue	For.Medicine	Grand Test OSPE+VIVA	Regional Injuries, Accidents in home and environment, Road traffic accidents, Battered
19th	Summer Vacations-20th July -17th Aug ,2025				
20th	Summer Vacations-20th July -17th Aug ,2025				
21st	Summer Vacations-20th July -17th Aug ,2025				
22nd	Summer Vacations-20th July -17th Aug ,2025				
23rd	19-Aug-25	Tue	All Subjects	Lecture	Lecture Time Divided
24th	26-Aug-25	Tue	Surgery	Grand Test OSPE+VIVA	All the covered topics
24th	29-Aug-25	Fri	Pharamcology	Grand Test OSPE+VIVA	MSK Drugs & Interventions, Pharmacologic Management in Rheumatology, sedative hypnotics
25th	2-Sep-25	Tue	Medicine	Grand Test OSPE+VIVA	All the covered topics
26th	9-Sep-25	Tue	Pathology	Grand Test OSPE+VIVA	GNR-2,Virolog,MSK
26th	12-Sep-25	Fri	Integrated	Module Exam: VIVA/OSPE	Whole Syllabus
27th	16-Sep-25	Tue	Integrated	Block-8 Exam	Whole Syllabus of Module- 16,17,18,19
	17-Sep-25	Wed		OSPE+VIVA	
End Of Block-8					

Table of Specification

MBBS 3 rd . Professional						
Block-8						
Subject	Written Exam		Oral/Practical/Clinical Exam			
	MCQ (1 mark)	Marks	OSPE /OSCE (8 marks each observed)	OSCE (10 marks each observed)	OSVE (14 marks each observed)	Marks
Pharmacology	22	22	03	-	01	38
Pathology	55	55	04	-	02	60
Community Medicine	04	04	-	-	-	-
Surgery	20	20	01	-	-	08
Medicine	20	20	01	-	-	08
Forensic	15	15	01	-	-	08
Behavioral	02	02	-	-	-	-
Patient Safety	02	02	-	-	-	-
CFRC	-	-	01	-	-	08
PERLs + Expository	-	-	-	01	-	10
Total	140	140	11 stations x 08 = 88	01 stations x 10 = 10	03 stations x 14=42	140

Recommended Books & Reading Resources

Anatomy

Snell's Clinical Anatomy 10th ed.

Langman's Medical Embryology 12th ed

Medical Histology by Laiq Hussain Siddiqui 8th edition.

General Anatomy by Laiq Hussain Siddiqui 6th edition.

Biochemistry

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

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

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

Pathology

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

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

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

Walter and Israel. General Pathology. Churchill Livingstone.

Robbins & Kumar, Medical Microbiology and Immunology Levinson.

General Medicine

Principles and Practice of Medicine by Davidson (latest edition)

Clinical Medicine by Parveen J Kumar & Michael Clark

Oxford Handbook of Medicine

Macleod's Clinical Examination book

Medicine and Toxicology by C.K. Parikh

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

Pharmacology And Therapeutics

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

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

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

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

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

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

Katzung Basic and Clinical pharmacology, Lippincott Illustrated reviews.

Clinical Pathology Interpretations by A. H. Nagi

Behavioural Sciences

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

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

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

Community medicine

Parks Textbook of Preventive and Social Medicine. K. Park

Public Health and Community Medicine by Ilyas Ansari

MSDS manual of Government of Punjab

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

Surgery

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

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

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

Patient Safety

Patient Safety Curriculum Guide: Multi Professional Guide

Microbiology

Levinson's review of Microbiology

Medical Microbiology and Immunology by Levinson and Jawetz,

Pediatrics Medicine

Nelson Textbook of Pediatrics

Basis of Pediatrics by Pervez Akbar Khan

Gynecology

Gynecology by Ten Teachers

Infection Control

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

Biosafety

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

WHO Laboratory Biosafety Manual, Fourth Edition, And Associated Monographs

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

Family medicine

Oxford Handbook of General Practice, 5th Edition

Orthopedics

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

Rheumatology

Davidson's Principles and Practice of Medicine

Clinical Medicine by Parveen J Kumar & Michael Clark

Hutchison's Clinical Methods by Michael Swash

Radiology

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

Elsevier Science Limited; 2003.

Forensic Medicine

Knight's Forensic Pathology by Barnard Knight 3rd edition

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

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

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

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

Knight B. Simpson's Forensic Medicine.

Knight and Pekka. Principles of Forensic Medicine

Forensic Pathology

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

Washington DC

Toxicology

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

Forensic Sciences

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

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

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

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

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