Avicenna Medical & Dental College

STUDY GUIDE

2023-2024



Program:	MBBS
Year:	3rd Professional Year
Subject:	Forensic Medicine
Batch No:	M-21
Session:	2023-2024

Department of Medical Education

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Introduction to 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 and dental education at Avicenna Medical & Dental College. It integrates comprehensive details on institutional framework, curriculum, assessment methods, policies, and resources, all meticulously aligned with UHS, PMDC and HEC guidelines.

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



Objectives of the Study Guide

1. **Institutional Understanding:**
    - Gain insight into the college's organizational structure, vision, mission, and graduation competencies as defined by PMDC, setting the foundation for your educational journey.
2. **Effective Utilization:**
    - Master the use of this guide to enhance your learning and understanding 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.

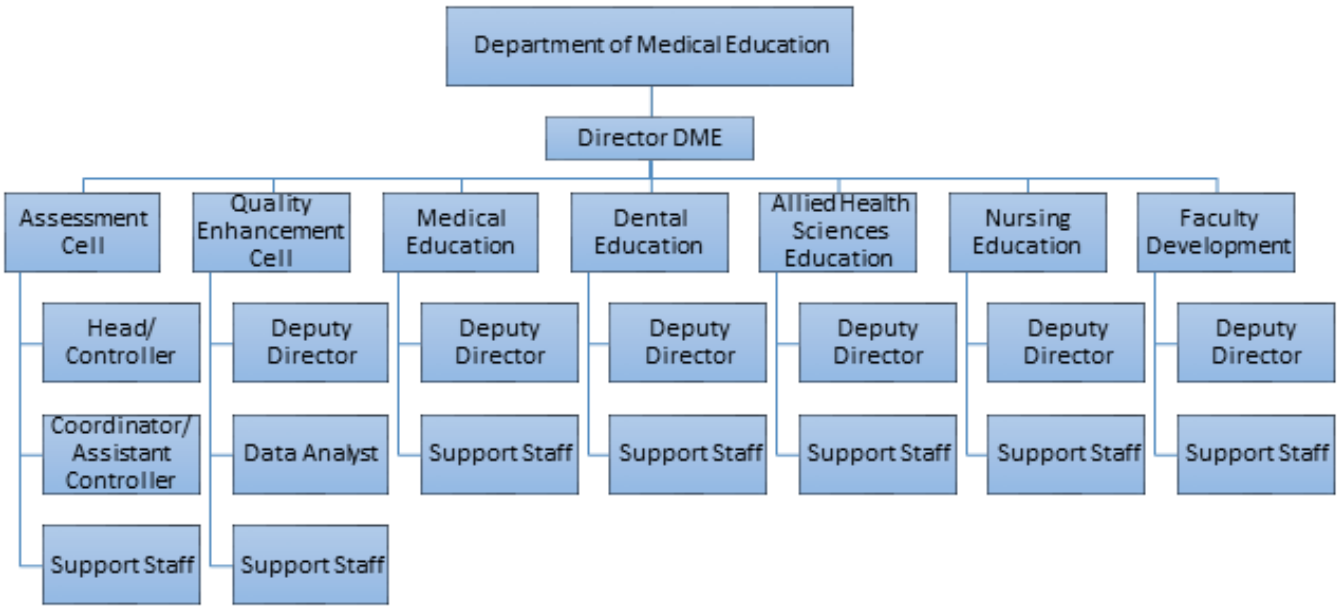
This guide, meticulously developed in collaboration with your subject departments, is designed to support your academic journey and help you achieve excellence in accordance with the highest standards set by PMDC and HEC.

DEPARTMENT OF MEDICAL EDUCATION

The Department of Medical Education (DME) serves as a cornerstone in delivering effective and high-quality education to both undergraduate and postgraduate medical and dental students. The DME is integral to the implementation and adoption of the latest curriculum provided by UHS and is responsible for organizing and managing related academic activities.

The DME will oversee the spirals of PERLs and C-FRC and monitor students' portfolio development and logbook completion. Additionally, the department is developing a mentoring platform and plans to initiate faculty development training which will focus on mentorship, reflective writing, and portfolio development skills. DME has a duty to collaborate with other disciplines to ensure that AVMDC students are not only competent in their respective fields but also well-trained in affective domains such as professionalism, ethics, research, and leadership.

A key responsibility of the DME is to plan and implement an effective training competency acquisition framework in collaboration with the academic council.



General Responsibilities of DME include:

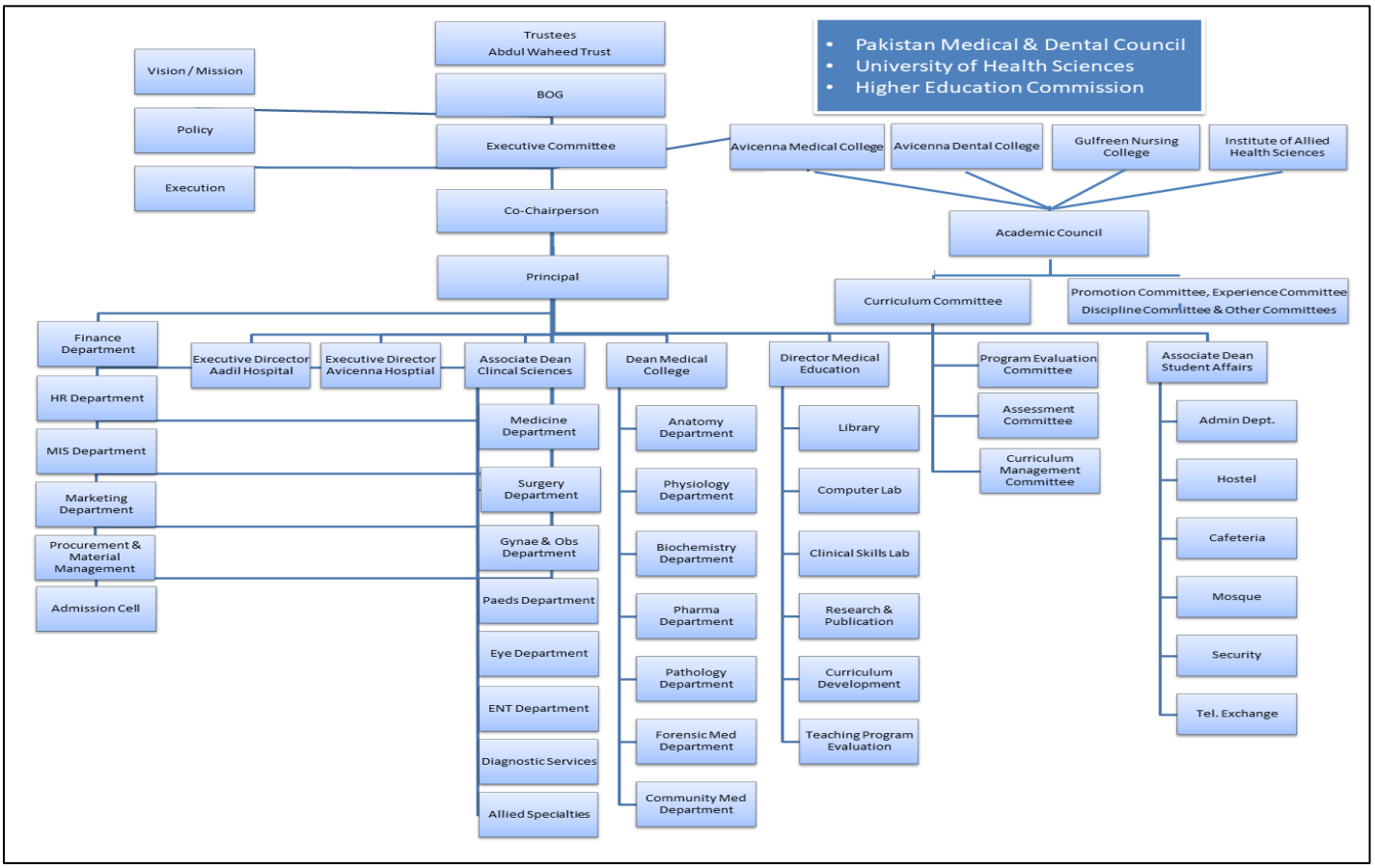
- Contribute and design, train the trainer activities which fulfill the need for undergraduate and postgraduate training.
- Shape and develop medical education research activities of the college.
- Facilitating & organizing workshops, seminars, symposia & conferences.
- Conducting CME activities to leverage culture of awareness, journal club.
- Networking by representing the college, when needed, in national /international meetings or conferences.
- Student counseling.
- Supervising students' academic progress.
- Academic Committees Development and Support.
- Staff Support and Development.
- Curriculum development and reform.
- Collaborate with curriculum committee and faculty members to develop quality instructional material such as modules, lecture, or study guides.
- Standard Operating Procedures for DME development.
- Skill lab management.

- Assessment analysis which includes blue printing, pre-exam review, item analysis and standard setting and provides feedback to concerned faculty and students on the learning outcome achievement.
- Develop and conduct periodical review of process of the program, learning and teaching activities, and assessment process.
- Identify opportunities for use of IT in teaching and learning, assessment and faculty development activities.
- Exam Cell management.
- Quality Assurance Cell management.
- Record keeping of departmental data.
- Leadership and management.
- Participation in overall planning and management of teaching in liaison with the departments.

Faculty	**Department**
Assistant Director / Assistant Professor Medical Education	Dr. Saman Fatima
Coordinator Medical Education	Dr. Javaid Shabkhaiz Rab
Deputy Director / Demonstrator Dental Education	Dr. Salar Arsalan
Deputy Director / Demonstrator Allied Health Sciences	Dr. Talha
Deputy Director / Demonstrator Nursing Education	Dr. Muneeba

Avicenna Medical & Dental College Overview

Institutional Organogram



Vision & Mission

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.

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

Message from the Principal

Prof. Dr. Gulfreen Waheed
Principal Medical College
MBBS, FCPS, MHPE, PHD Scholar, (HPE)



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.

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



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.

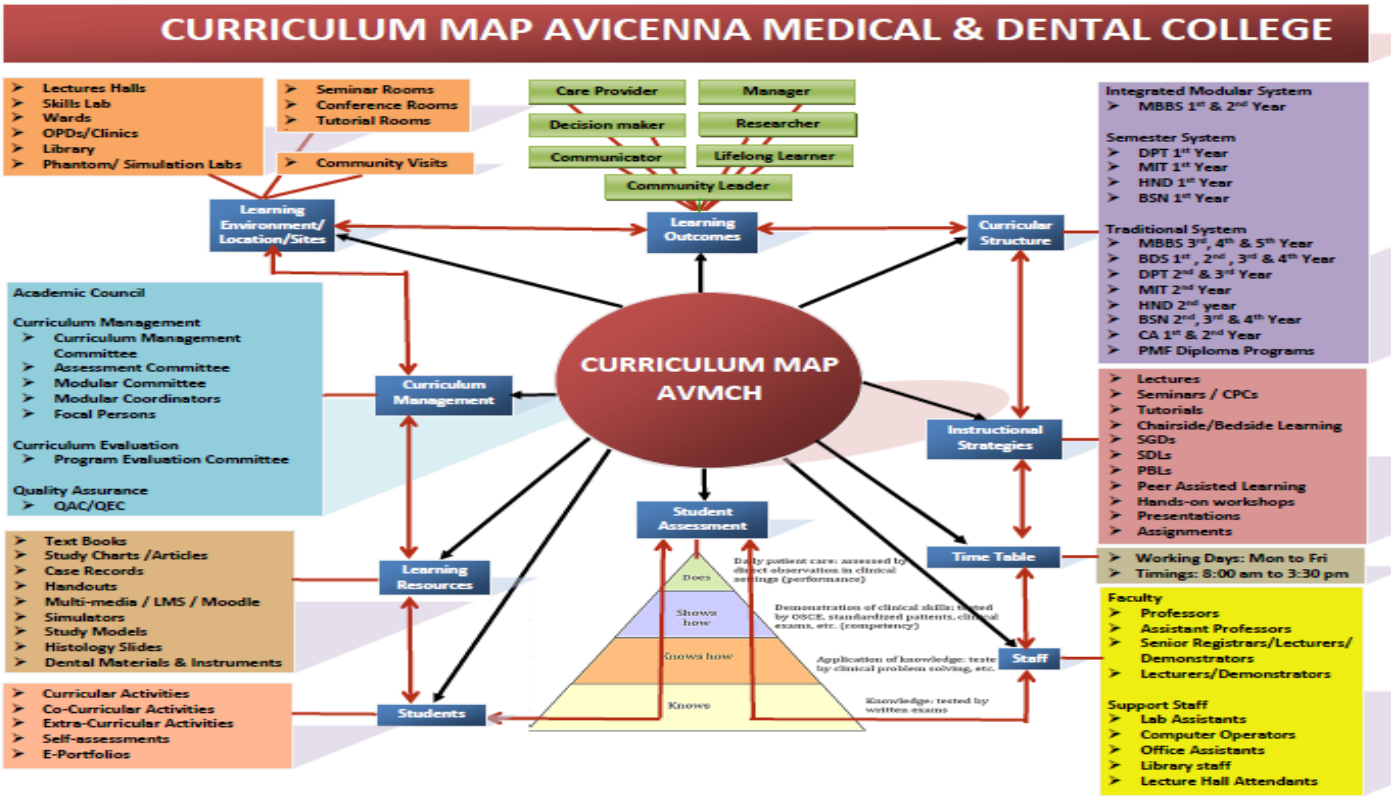
Avicenna Medical & Dental College runs under the umbrella of Abdul Waheed Trust. Abdul Wahid Trust is a non-profit social welfare organization and registered under the Societies Act with the Registrar of Societies. The Trust is legalized through a Trust Deed that bears necessary rectifications. The Trust 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.



Curricular 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:



Department & Subject Overview

Note from the Head of Department



Dr. Zainab Parveen

ASSOCIATE PROFESSOR

MBBS, DMG

Modern medicine has the capability to aid law and justice. During their studies, students will get an opportunity to apply knowledge of the various medical sciences related to human beings for furtherance of justice.

The importance of DNA analysis and dactylography is taught, and the students have the opportunity to learn the medicolegal significance of firearm and cutthroat injuries, burns, rigor mortis, drowning, etc.

The students are taught by faculty members who keep themselves updated of latest developments internationally so that they are equipped with the contemporary skills and knowledge.

They will also receive demonstrations from Forensic experts trained in postmortem and medicolegal examinations.

Separate labs exist with a full complement of equipment and trained staff to aid student understanding of trace evidence.

Departmental Organogram (as per PMDC guidelines)

Head of Department/Associate Professor
Dr. Zainab Parveen
Associate Professor
Dr. Muhammad Anwar Sibtain Fazli

Senior Demonstrator
Dr. Ambreen Serwer

Demonstrators
Dr. Noor-ul-Ain Arshad
Dr. Zahra Ijaz
Dr. Hira Ayub
Dr. Saba Khalid

Staff: Ahad Ali (Lab Technician), Asif Ali (Store Keeper)

Faculty Members

Name	Designation	Qualification
Dr. Zainab Parveen	Head of Department / Associate Professor	M.B.B.S, D.M.J
Dr. Muhammad Anwar Sibtain Fazli	Associate Professor	M.B.B.S, D.M.J
Dr. Ambreen Serwer	Senior Demonstrator	M.B.B.S, M/Phil.
Dr. Noor-ul-Ain Arshad	Demonstrator	M.B.B.S.
Dr. Zahra Ijaz	Demonstrator	M.B.B.S.
Dr. Hira Ayub	Demonstrator	M.B.B.S.
Dr. Saba Khalid	Demonstrator	M.B.B.S.

Goal of the Department

Our mission is to strive, motivate and train the undergraduate students to search for the truth in Criminal and Civil cases to help the Law through science for furtherance of Justice in the society and shape the future of the field using new knowledge and innovation.

The vision of the department is to make it center of excellence in Forensic medicine and toxicology.

The department will train health Professionals who are well informed and equipped with medico legal knowledge and skills to carry out the medico legal responsibilities efficiently.

Our goal is to present curriculum based on theoretical concepts and real-world examples.

To promote critical thinking in the field.

Maintain the ethical and professional standards of the Forensic Medicine

Prepare students for future employment in the field of Forensic Medicine and related disciplines.

Course Objectives

FORENSIC MEDICINE

It is a subject working as a hinge between crime and justice, unveiling the depths of hidden truth. The search for truth – is the essence of Forensic Medicine. This truth forms an essential link between crime and criminals, criminal and the enforcement of law, law and protection of public, public and administration of justice.

Doctor applies his medical knowledge not for the treatment of the patient but to help the law. It consists of two components:

- Medical aspects of Law: Medical knowledge applicable to law and justice, e.g.

Homicidal cases
Identification
Physical Assaults
Sexual assaults
Intoxications
Age Certification
Disputed Paternity/maternity

- Legal principles that guide medical practice. Law applicable to medical personnel also known as Medical Jurisprudence. E.g.
- Registration with PMDC.

Attendance Requirement & Internal Assessment Criteria

The institution follows the regulations for examinations of the UHS in letter and spirit. The students require **85% attendance** in all academic sessions and **50% marks** in internal assessments and send-up examinations to be eligible for the UHS Professional Examinations.



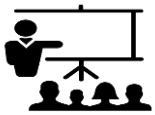
Learning Resources & Pedagogy

Book Recommendations



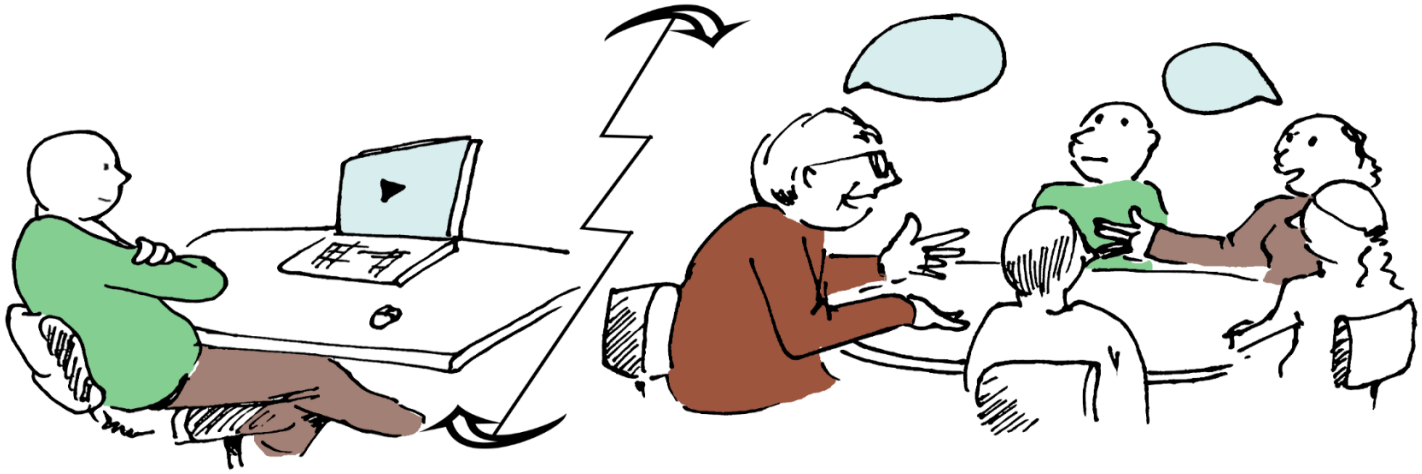
Sr.	Book Name	Author	Edition
1.	Simpson's Forensic Medicine.	Professor Cedric Keith Simpson	13th Ed
2.	Knight's Forensic Pathology	Bernard Knight	4th Ed.
3.	Parikh's Textbook of Medical Jurisprudence, Forensic Medicine and Toxicology	C.K. Parikh	7th Ed.
4.	General Principles and Practice of Forensic Medicine	Prof. NasibR. Awan	1st Ed.
5.	Textbook of forensic medicine and toxicology Principles and Practice	Krishan Vig	6th Ed.
6.	Principles of clinical toxicology	Thomas. Gossel	3rd Ed.
7.	Forensic Pathology	V. J. De Maio	5th Ed.
8.	Gun Shot Wounds	V. J. De Maio	2nd Ed.

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)

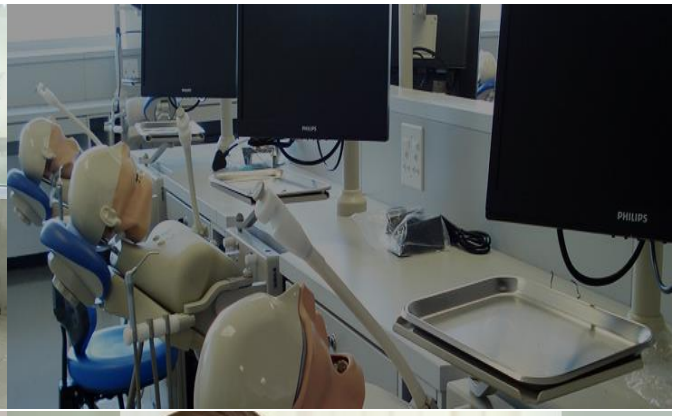


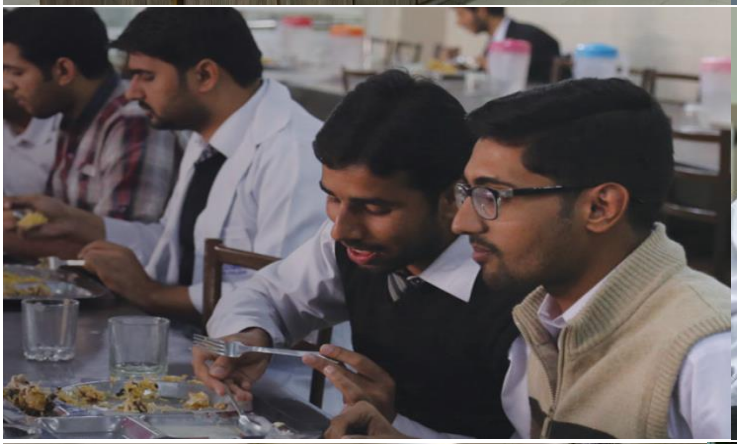
Flipped Classroom

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 full floor 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.






Digital Library & Learning Management System (LMS)

1. The COVID-19 pandemic highlighted the necessity of interactive online teaching for better retention of topics by students. Strategies like online learning management system (LMS), online discussions, online quizzes, assignment design, and flipped learning enhance student engagement in online education when needed.

2. Avicenna Medical & Dental College lays emphasis on the provision of learning material and online video lectures, video tutorials in the e-library and learning resource center, which has a dedicated website of Avicenna Medical College to enable the students to develop concepts and clarify their doubts, if they have not been able to do so in the teaching sessions during college hours. The digital library can be approached on http://digital.avicennamch.com/.

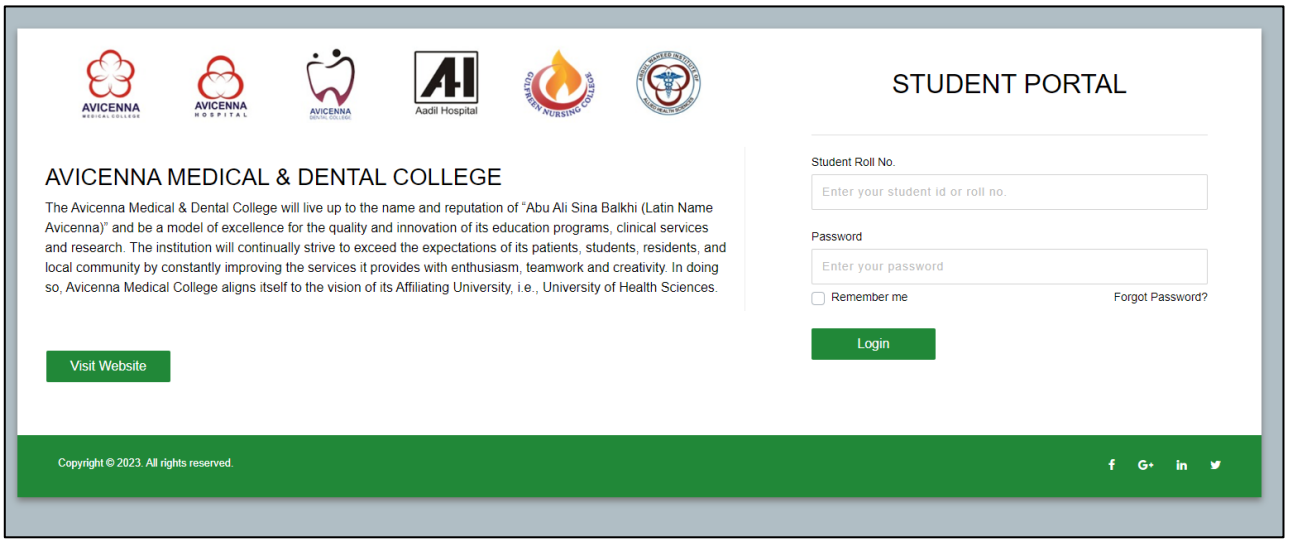


3. The institution has also endeavored to link itself with the digital libraries and e-library of the University of Health Science (UHS) and Higher Education Commission (HEC) to enable the students to benefit from the valuable resource material, lectures and knowledge bank at these sites. The links are available with the HEC http://www.digitallibrary.edu.pk/ and learning management system of UHS http://lms.uhs.edu.pk .

4. The Learning Management System (LMS) at Avicenna Medical & Dental College is a comprehensive platform managed by the Department of Student Affairs. It is designed to facilitate effective communication and information exchange between students, parents, faculty, and administrative staff. The LMS portals are specifically tailored to meet the needs of the following stakeholders:

   a. **Students**: For academic resources and scheduling.
   b. **Parents:** For monitoring academic progress and other relevant information.
   c. **Faculty:** For managing course content and academic activities.

d. **Department of Student Affairs:** For overseeing administrative functions.
e. **Department of Medical/Dental Education:** For overseeing academic functions.



5. Students can access a comprehensive range of academic resources and information through the student portal. By logging in with their roll number and password, students can:

- Look at their attendance and results.
- Review academic activities and weekly timetables/schedules.
- Access rotation planners and test schedules.
- Check for any notification, assignment or resource material from their teachers.

6. The information to the parent is duplicated by the issuance of the password and login to the Students Learning Management System which is dedicated to the Academic Program of the students. The parents can view the following by logging in to the mobile app of Avicenna Student Management System:

a) Syllabus
b) Table of specifications
c) Annual Planner
d) Synopsis
e) Block Time Table
f) Weekly training program
g) Allocation of Marks
h) Assessment calendar
i) Results of tests / exams*
j) Students' attendance record
k) Fees & fines

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%	



Internal Assessment

How is Internal Assessment Calculated for your department?

Internal Assessment		**Assessment Methods** (MCQ/SEQ/OSCE/Viva/ Practical)	**Percentage Weightage** (write N/A where not applicable)
Session Exams	Early Session Exam	MCQs=45 Marks SEQs=45 Marks Viva=50 Marks OSPE=40 Marks IA=10 Marks	70%
	Mid-term Session Exam	MCQs=45 Marks SEQs=45 Marks Viva=50 Marks OSPE=40 Marks IA=10 Marks	
	Late Session/Send up Exam	MCQs=45 Marks SEQs=45 Marks Viva=50 Marks OSPE=40 Marks IA=10 Marks	
Grand Tests		MCQs=50 Marks SEQs=50 Marks Viva=25 Marks OSPE=25 Marks	30%
Batch Clinical Assessment		NA	
Final Clinical Assessment		NA	
Ward Test	Early Ward Test	NA	
	Mid Ward Test	NA	
	Grand Ward Test	NA	
Attendance & Behaviour		20 Marks	
			100%

External Assessment

What to expect in External Exam?

External Assessment	Assessment Methods	Marks	Percentage Weightage
Theory • Total marks • Time	45 MCQs 9 SEQs	 45 45	45 %
Practical • Total marks • Time	Viva? OSCE? OSPE?	50 40	45 %
Internal Assessment		20	10 %
Total marks		200 Marks	100%

Sample Paper

MCQ

AUTHOR: Dr. Zainab
DATE: 29-08-24
DISCIPLINE/SUBJECT: Forensic Medicine and Toxicology
TOPIC: Medicolegal Autopsy
LEVEL OF STUDENT: 3rd Year MBBS
AREA: Investigations

Item Writing Template

Stem: A mutilated dead body of a young person has been sent for postmortem examination to you suspected to be a suicidal bomber in a terrorist attack. **Lead in:** What would be the method of choice to establish the identity of this individual?

Option:

a)Radiology
b)Blood Grouping
c)DNA profiling*
d) Dactylography
e) Odontology

Mark the key with an Asterix*

COGNITIVE LEVEL: Application
DIFFICULTY LEVEL: Moderate
IMPORTANCE: Need to Know
REFERENCE: **Parikh 6th Ed., page 2.38, 7.7**

SEQ/SAQ

AUTHOR: Dr. Zainab
DATE: 29-08-24
DISCIPLINE/SUBJECT: Forensic Medicine and Toxicology
TOPIC: Toxicology
LEVEL OF STUDENT: 3rd Year MBBS
AREA: Management/treatment

A person has attended the emergency department of the hospital with the complaints of weight loss, alopecia, pigmentation of various body parts and hyperkeratosis of the hands and feet.

Questions	**Marks**
a)What is the most likely diagnosis?	**02**
b)What is the naturally occurring source of this poison	**01**
c) Name the specific treatment of this condition?	**02**

Key	**Marks**
a)Chronic arsenic poisoning	**02**
b)Potable drinking water	**01**
c) BAL (Dimercaprol)	**02**

COGNITIVE LEVEL: Recall/ Application
DIFFICULTY LEVEL: Moderate
IMPORTANCE: Need to Know
REFERENCE: **Principles and Practice of Forensic Medicine by Prof Naseeb R Awan 1st Ed. Page 135**

MBBS 3RD YEAR

FORENSIC MEDICINE & TOXICOLOGY

Objectively Structured Performance Examination (OSPE)

Station 1

Non-Observed

Marks 04 **Time Allowed: 3.5 minutes**

For Organizer:

Requirements:

Response Sheet
Pen / Ball point
Table
Chair / Stool
Model / Dura pic / Slide

Model: (To be placed at this station)

Marbling

For Candidate: (Station 1)

Marks: 04 **Time Allowed: 3.5 minutes**

Task:

1. Define the condition. (01)
2. When does the said condition appear according to weather? (01)
3. What is the mechanism of putrefaction. (02)

For Examiner: (Station 1)

Key:

1. Appearance of purplish red, bluish or greenish streaks against background of black or green skin. The marbling of skin occurs due to hemolysis and decomposition of blood in the superficial veins of neck and chest that stains the vessel wall

2. The marbling of skin occurs in 24 to 36 hours in summer and 36 and 48 hours in winter.

3. Putrefaction is brought about mainly due to the action of

a) Anaerobic bacterial enzymes that originate from the bowel

b) Anaerobic fungi

c) Insect larvae (Proteolytic enzyme system)

d) Protozoa

e Adult insects

Shortly after death bacterial and coliform organisms make their way to the tissues from GIT through blood vessels, respiratory tract and open skin wounds.

MBBS 3RD YEAR

FORENSIC MEDICINE & TOXICOLOGY

Objectively Structured Performance Examination (OSPE)

Station 9

Observed

Marks 04 **Time Allowed : 3.5 minutes**

For Organizer:

Requirements:

Response Sheet
Pen / Ball point
Table
Chair / Stool
Funnel
Jars with blank labels
Salt
Water

For Candidate: (Station 9)

Marks: 04 **Time Allowed: 3.5 minutes**

Task:

While performing autopsy you have to send the specimen to PFSA, how will you label them and preserve them?

For Examiner (Station 9)

Key: The label is to be filled in by the doctor in the following manner.

Name of the Department

Date
F.I.R. #

Autopsy #
Sample:
Send to:
Preservatives used:

Seal

Signature of Authorized Personnel

CURRICULUM DETAILS

Curricular Framework including Allocation of Hours (PMDC)

<table>
<tr><td colspan="4">Basic & Clinical Medical Sciences / Preclinical & Para Clinical Years</td></tr>
<tr><td>1st & 2nd Professional Year</td><td>3rd Professional Year</td><td>4th Professional Year</td><td>5th Professional Year</td></tr>
<tr><td>Anatomy
500 Hours</td><td>General & Special Pathology
500 Hours</td><td>Eye
150 Hours</td><td>General Surgery
600 Hours</td></tr>
<tr><td>Physiology
450 Hours</td><td>Pharmacology
300 Hours</td><td>ENT
150 Hours</td><td>General Medicine
600 Hours</td></tr>
<tr><td>Biochemistry
250 Hours</td><td>Forensic Medicine & Toxicology
100 Hours</td><td>General & Special Pathology
500 Hours</td><td>Paediatrics
300 Hours</td></tr>
<tr><td rowspan="2">General Education
450 Hours
• Quran Kareem – 50 Hours
• Pakistan Studies / Ideology & Pakistan Constitution – 25 Hours
• Islamiyat / Ethics – 25 Hours
• Professionalism – 25 Hours
• Communication Skills -25 Hours
• English Expository Writing – 25 Hours
• Arts & Humanities (One Course) -25 Hours
• Co-curricular activities – 200 Hours</td><td>Psychiatry & Beh. Sciences
150 Hours</td><td>Community Medicine & Public Health
200 Hours</td><td>OBS &Gynae
300 Hours</td></tr>
<tr><td>Pre-clinical Operative Dentistry
80 Hours</td><td>Research Methodology & Evidence Based Medicine
100 Hours</td><td>Surgical specialties
225 Hours
• Neurosurgery
• Vascular surgery
• Adult Cardiac surgery
• Paediatrics surgery
• Thoracic surgery
• Plastic surgery</td></tr>
<tr><td></td><td></td><td></td><td>Medical specialties
225 Hours
• Neurology
• Rheumatology
• Geriatrics
• Endocrinology
• Paediatrics Cardiology
• Infectious Diseases
• Oncology</td></tr>
</table>

Academic Planner

Avicenna Medical & Dental College
Calendar 2023- 2024
3rd Year MBBS

January 2024

	Su	Mo	Tu	We	Th	Fr	Sa	
		1	2	3	4	5	6	
	7	8	9	10□	11□	12	13	
	14	15□	16	17□	18	19	20	1
	21	22	23	24□	25□	26	27	2
	28	29□	30	31				3

February 2024

	Su	Mo	Tu	We	Th	Fr	Sa	
					1	2	3	3
	4	i5	6	7	8	9	10	4
	11	12	13	14	15	16	17	5
	18	19	20	21	22	23	24	6
	25	26 Path	27	28	29			7
								8

March 2024

	Su	Mo	Tu	We	Th	Fr	Sa
						1	2
	3	4 Ph	5	6	7	8	9
	10	11 FM	12	13	14	15	16
	17	18 BS	19	20	21	22	ii 23
	24	25 Path	26	27	28	29	30
	31						

April 2024

	Su	Mo	Tu	We	Th	Fr	Sa	
8		1 Ph	2	3	4	5	6	11
Eid-ul-Fitr	7	iii 8	iii 9	iii 10□	iii 11□	iii 12	iii 13	12
9	14	15□	16 wt1	17 FM	18	19	20	13 ESE+V
10	21	22 BS	23	24□	25□	26	27	14 ESE+V+OSPE
11	28	29 Path	30					15 OSPE

May 2024

	Su	Mo	Tu	We	Th	Fr	Sa	
				iv 1	2	3	4	15
	5	6 Ph	7	8	9	10	11	16
	12	13 Ph	14	15	16 FM	17	18	17
	19	20 Path	21	22 BS	23ospe	24 ospe	25	Eid-ul-Adha+Su.V
	26	27 ospe	28 v	29 ospe	30	31		Su.V
								Su.V

June 2024

	Su	Mo	Tu	We	Th	Fr	Sa
							1
	2	3 FM	4 wt2	5	6	7	8
	9	10 BS	11	12	13	14	15
	16	vi 17	vi 18	vi 19	20	21	22
	23	24	25	26	27	28	29
	30						

July 2024

	Su	Mo	Tu	We	Th	Fr	Sa	
Su.V		1	2	3	4	5	6	19
Su.V	7	8	9	10□	11□	12	13	20
Su.V	14	15□	vii 16	vii 17□	18	19	20	21
18	21	22 Path	23	24□	25□	26	27	22
19	28	29 Ph□	30	31				23 MSE

August 2024

	Su	Mo	Tu	We	Th	Fr	Sa	
					1	2	3	24 MSE
	4	5 FM	6	7	8wt3	9	10	25 MSE
	11	12 BS	13	viii 14	15	16	17	26 MSE
	18	19 Path	20	21	22	23	24	27 OSPE+Viva
	25	26 Ph	27	28 FM	29 FM	30 FM	31	28

September 2024

	Su	Mo	Tu	We	Th	Fr	Sa
	1	2 FM	3 Ph	4 Ph	5 Ph+wt4	6 Ph	7
	8	9 Ph	10 Path	11 Path	12 Path	13 Path	14
	ix 15	16 Path	17BS	18 BS	19	20 BS	21
	22	23 o/v	24 o/v	25 o/v	26 o/v	27	28
	29	30					

October 2024

	Su	Mo	Tu	We	Th	Fr	Sa	
28			1	2	3	4 FM	5	32
29	6	7 BS	8	9	10 wt5	11	12	33
30	13	14Path	15	16	17	18	19	34 SendUp
31	20	21 Ph	22	23	24	25	26	35 SendUp
32	27	28 FM	29	30	31			OSPE

November 2024

	Su	Mo	Tu	We	Th	Fr	Sa	
						1	2	
	3	4 BS	5	6	7 wt6	8	9	
	10	11 Ph	12	13	14FM	15	16	
	17	18 Patho	19	20	21 BS	22	23	Winter Vac.
	24	25Ph	26o/v	27o/v	28o/v	29o/v	30	

December 2024

	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	x25	26	27	28
	29	30	31				

SESSION START: 12th Feb,2024

Gazetted Holidays

i- Kashmir Holiday - 5th Feb,2024
ii- Pakistan Day -23rd March,2024
iii - Eid- Ul- Fitr-7th April-14th April,2024
iv- Labor Holiday- 1st May,2024
v- Youm-e-Takbeer Holiday-28th May,2024
vi- Eid- Ul- Adha- 17th June-19th June,2024
vii- Ashura- 16 &17 July,2024
viii- Independence Day- 14th Aug,2024
ix- Rabi Ul Awal-15th Sep,2024
x- Quaid-e-Azam Day/Christmas- 25th Dec,2024

Vacations

Spring Vacations-7th April,2024- 14th April,2024
Summer Vacations-15th June,2024- 21st July,2024
Winter Vacations-22nd Dec-29th Dec,2024

Events

White Coat Ceremony-17 April,2024
Sports Day- 6 March
Funfair-
Trips and Tours-

Session Exam

Early Session- 13th May,2024 - 29th May,2024
Mid Session-28th Aug,2024 - 26th Sep,2024
Send Up-14th Nov,2024 - 29th Nov,2024

AVICENNA MEDICAL COLLEGE

ALLOCATION OF CURRICULUM HOURS

3rd YEAR MBBS

Subject Title	Tutorial	Practical	lecture	SDL	Assessment	CR	Clinical Skill	Total Hours (33 Weeks)	Interactive Session (6 Weeks)	AVMC	PMDC
pharmacology	11	33	198		49.5			291.5	53	344.5	300
Pathology	11	33	198		49.5			291.5	53	344.5	250
Forensic Medicine	11	33	66		49.5			159.5	29	188.5	100
Behavioral Sciences		33	66		49.5			148.5	27	175.5	150
Community Medicine				33				33	6	39	
Special Pathology											
Eye						11		11	2	13	
ENT						11		11	2	13	
Medicine				49.5		11	16.5	77	14	91	
Surgery				49.5		11	16.5	77	14	91	
Paeds						11		11	2	13	
Gynae						11		11	2	13	
Islamiyat											
Spare											
Total	**33**	**132**	**528**	**132**	**198**	**66**	**33**	**1122**	**204**	**1326**	**800**

Sr. No.	Topic	LEARNING OBJECTIVES	KNOWLEDGE Cognitive Domain			SKILL Psychomotor Domain	ATITTUDE Effective Domain	TOTAL %	Mode of information transfer MIT				TOTAL HOURS	Lecture Topics	References	Practicals
			C1	C2	C3	P	A		Lecture	Tutorial	Practical	Clinical Rotation				
		FORENSIC MEDICINE														
1	Pakistan's Legal System	Students should be able to:	1.50%	2.25%	3.75%	4.00%										
		1. Describe the powers and jurisdiction of courts, procedures for inquest, and legal Procedures.							1	1				1. Law and Legal Procedure, powers and jurisdiction of courts, procedures for inquest, and legal Procedures.Important Legal terms. Relevant Legal sections of the penal code.	NRA 1st Edition	
		2. Define important Legal terms.													NRA 1st Edition	
		3. Debate the application of relevant Legal sections of the penal code.									1					1. Procedures and etiquettes of court attendance/evidence recording
		4. Define the role of a medical doctor in the medico-legal system							1					2. Role of a medical doctor in the medico-legal system. Medical evidence in courts	NRA 1st Edition	
		5. Give medical evidence in courts														
		6. Document information to be prepared by a medical doctor for legal procedures							1					3.Information to be prepared by a medical doctor for legal procedures. Procedure of Court attendance and recording of evidence	NRA 1st Edition	
		7. Describe Procedure of Court attendance and recording of evidence														

		Total	1.50%	2.25%	3.75%	4.00%		11.50%	3	1	1		5			
2	Forensic Sciences	Students should be able to:														1. Procedure of preservation, dispatch of Biological and other evidentiary material
		1. Describe the role of Forensic Sciences in Crime detection		2.00%		0.50%			1		1			1. Forensic Sciences in Crime detection and Forensic Psychiatry	Parikh 7th Edition	
		Total		2.00%		0.50%		2.50%	1		1		2			
3	Law in Relation to Medical Man	Students should be able to:	0.50%	3.00%		1.50%										
		1. Understand and act according to and within the framework of Privileges and obligations of Registered medical practitioner							1		1			1. Privileges and obligations of Registered medical practitioner, Doctor-patient relationship and ethical standards, Professional misconduct .	NRA 1st Edition	1. Procedure of Consent taking and Medical certification
		2. Maintain a Doctor-patient relationship in the context of the highest ethical standards .							1					2. Professional secrecy and privileged communication, ethical principles in medical examination and consent taking, Medical negligence.	NRA 1st Edition	
		3. Understand and refrain from any temptations to professional misconduct .							1					3. Organ transplantation and its relevant legal considerations, Professional aspects of Artificial insemination, Therapeutic abortions, Euthanasia, Biomedical research etc.	NRA 1st Edition	
		4. Guard Professional secrets and privileged communication .														
		5. Maintain highest ethical principles in medical examination and when obtaining consent .														
		6. Define what constitutes medical negligence .														
		7. Debate the pros and cons of organ transplantation in each individual case .														
		8. Develop and defend a personal moral view on Artificial insemination, Therapeutic abortions, Euthanasia, Biomedical research etc. in keeping with the norms of society and highest ethical principles .														

		Total	0.50%	3.00%		1.50%		5.00%	3		1		4			
4	Personal Identity	Students should be able to:	7.00%		3.00%											
		1. Explain the parameters of personal identity, methods of identifying living, dead, decomposed, mutilated and burnt bodies, and skeletal and fragmentary remains, using special techniques and objective methods of identification .							1		1			1.Introduction and parameters of personal identity.	NRA 1st Edition	1. Forensic Radiology
		2. Detail the methods of determination of age, sex and race by various methods with their medico-legal aspects .							1		1			2. Methods of identifying living, dead.	Parikh 7th Edition	2. Forensic Anatomy
		3. Trace evidence, Locard's Principle of exchange and its medico-legal significance .							1	1	1			3. Identification of decomposed, mutilated and burnt bodies, skeletal and fragmentary remains, using special techniques and objective methods of identification .	Parikh 7th Edition	3. Estimation of age, sex and race
									1					4. Determination of age, sex and race by various methods.	Parikh 7th Edition	

		Total	7.00%		3.00%			10.00%	5	1	3		9			
5	Thanatology	Students should be able to:	4.50%		3.00%	2.50%										
		1. Explain scientific concepts regarding death, medico-legal aspect of Brain death, Indicators of Death, medico-legal aspects of Sudden and unexpected deaths, causes, manner, mode and mechanisms of death .							1					1. Modern Scientific concepts regarding death, medico-legal aspect of Brain death, Indicators of Death.	Parikh 7th Edition	
		2. Explain postmortem changes after death occurring in various body tissues and organs under various environmental conditions .							1		1			2. Sudden and unexpected deaths, causes, manner, mode and mechanisms of death .	Parikh 7th Edition	1.Diagnosis of death and preparation of death certificate
		3. Write a certification of Death according to WHO guidelines							1	1				3. Postmortem changes occurring in the body under various environmental conditions.	Parikh 7th Edition	
									1					4. Putrefaction and its modifications	Parikh 7th Edition	
									1					5. Certification of death according to WHO guidelines in natural/unnatural circumstances	Parikh 7th Edition	

		Total	4.50%		3.00%	2.50%		10.00%	5	1	1		7			
6	Traumatology	Students should be able to:	10.00%													
		1. Describe mechanisms of wound production..							1					1. Mechanisms of wound production..	NRA 1st Edition	
		2. Classify wounds and detail medico-legal aspects of wound production by conventional weapons							1	1	1			2. Classification of wounds and their medico-legal aspects.	NRA 1st Edition	1. Medico-legal Examination of mechanical injuries
		3. State the classification, Nomenclature, wound ballistics, and medico-legal aspects of Firearm and ammunitions injuries							1		1			3. Classification, Nomenclature of firearm weapons.	parikh 7th Edition	2. Examination of burnt patients
									1		1			4. Ammunition used in firearm.	parikh 7th Edition	3. Examination of firearm injuries
									1					5. Internal and external ballistics	parikh 7th Edition	
									1					6. Terminal or wound ballistics	Parikh 7th Edition	
		Total	10.00%					10.00%	6	1	3		10			

7	**Mechanical Injuries: Medicolegal Considerations**	Students should be able to:		0.50%	2.50%	3.00%		6.00%								
		1. List and debate laws in relation to causing Bodily harm, Wounding and Homicide							1	1	1			1. Qisas and Diyat Act	NRA 1st Edition	1. Medico-legal Examination and nature of injuries Qisas and Diyat Act
		2. Examine an injured person, certify nature, manner of cause, causative agent and dating of wounds							1					2. Transportation injuries and their medicolegal aspects	Parikh 7th Edition	
		3. Medicolegal aspects of Transportation injuries							1					3. Transportation injuries and their medicolegal aspects	Parikh 7th Edition	
		4. Identify the causes of death from wounds							1					4. Accidents in Home and Environment	Parikh 7th Edition	
		5. Distinguish between ante-mortem and post-mortem wounds							1					5. Accidents in Home and Environment	Parikh 7th Edition	
		6. Diagnose whether death is suicidal, homicidal, or accidental													Parikh 7th Edition	
		Total		0.50%	2.50%	3.00%		6.00%	5	1	1		7			

8	Regional Injuries	Students should be able to:		1.50%	0.50%	1.00%									
		1. Describe methods of treatment and possible etiologies of regional injuries, and should be able to suture simple superficial wounds of:							1		1			1. Methods of treatment and possible etiologies of regional injuries.	Parikh 7th Edition	1. Visual identification of various weapons
		a. Head (Scalp, Skull, Brain) and Face							1	1	1			2. Injuries of Head (Scalp, Skull, Brain) and Face	Parikh 7th Edition	2. Examination of the closed skull injury and its investigations
		b. Vertebral column and its contents							1					3. Injuries of Vertebral column, Neck, Chest, Abdomen, Limbs, Bones and Joints	Parikh 7th Edition	
		c. Neck, Chest, Abdomen, Limbs, Bones and Joints							1					4. Police torture, and Deaths in Custody	Parikh 7th Edition	
		2. Identify special trauma cases: Transportation injuries, Police torture, and Deaths in Custody														
		3. Determine the medicolegal aspects of Heat, Cold, Electrical injuries														

		Total		1.50%	0.50%	1.00%		3.00%	4	1	2		7			
9	**Violent Deaths due to Asphyxia**	Students should be able to:		2.50%		2.50%										
		1. Define, classify, and determine causes of violent death							1	1	1			1. Define, Classify, and determine cause of violent death due to asphyxia	NRA 1st Edition	1. Examination of various types of ligature marks in asphyxial deaths
		2. Detect the Anatomical, Physiological, Biochemical, and Pathological signs of violent death and its medicolegal implications							1					2. Detect the Anatomical, Physiological, Biochemical, and Pathological signs of violent death and its medicolegal implications	NRA 1st Edition	
		3. Detect the anatomical, physiological, biochemical, and pathological signs of mechanical, chemical, and environmental asphyxial death and their medicolegal implications							1					3. Detect the anatomical, physiological, biochemical, and pathological signs of mechanical, chemical, and environmental asphyxial death and their medicolegal implications	NRA 1st Edition	
									1					4. Deaths due to drowning	NRA 1st Edition	

		Total		2.50%		2.50%		5.00%	4	1	1		6		
10	**Autopsy**	Students should be able to:		6.00%	2.00%	2.50%									
		1. Describe the types, objectives, rules, techniques and procedure for post-mortem							1	1	1			1. Types, objectives, rules, techniques and procedure for post-mortem examination	NRA 1st Edition	1. Postmortem examination
		2. Describe methods for assessment of fatal period and post-mortem interval							1		1			2. Methods for assessment of fatal period and post-mortem interval	NRA 1st Edition	2. Postmortem examination
		3. Describe Post-mortem artifacts and risks and hazards of autopsy, and Autopsy Protocol							1		1			3. Post-mortem artifacts, risks and hazards of autopsy, and Autopsy Protocol	NRA 1st Edition	3. Postmortem examination
		4. Describe the procedure for selection and reservation, labeling and dispatch of Biological and non-Biological materials for laboratory examination							1		1			4. Procedure for selection and preservation, labeling and dispatch of Biological and non-Biological materials for laboratory examination	NRA 1st Edition	4. Postmortem examination
		5. Describe the exhumation procedures, and debate its value and limitations							1					5. Exhumation and its legal aspects	NRA 1st Edition	

		Total		6.00%	2.00%	2.50%		10.50%	5	1	4		10			
11	**Forensic Sexology**	Students should be able to:														
		1. Describe the approach to Impotence, determination of Virginity, and Pregnancy				1.50%			1					1. Pregnancy, Virginity, Delivery and impotence	Parikh 7th Edition	
		2. Describe the approach to criminal processes during delivery, their medio-legal aspects, examination procedure and reporting							1					1. Pregnancy, Virginity, Delivery and impotence	Parikh 7th Edition	
		Total				1.50%		1.50%	2				2			
12	**Sexual Offences and Relevant Sections of Law (Zinna and Hadood Ordinances)**	Students should be able to:	1.50%	1.00%		1.50%	0.50%									
		1. Differentiate between Natural and unnatural sexual offences and know how to perform a Medical examination of victim and assailant, collect specific specimens and write a required certification							1	1	1			1. Unnatural Sexual Offenses, homosexuality, lesbianism, bestiality	Parikh 7th Edition	1. Medicolegal examination of victim of sexual assault
		2. List common sexual perversions and address their cause							1		1			2. Sexual perversions	Parikh 7th Edition	2. Medicolegal examination of accused of sexual assault
									1					3. Natural Sexual Offenses Rape, zina, incest	NRA 1st Edition	
									1		1			4. Natural Sexual Offenses Rape, zina, incest	Parikh 7th Edition	3. Specimen collection, preservation and dispatch to PFSA lab particularly DNA profiling
									1					5. Natural Sexual Offenses Rape, zina, incest	Parikh 7th Edition	
									1					6. Specimen collection of victim of sexual offense and its certification	Parikh 7th Edition	

		Total	1.50%	1.00%		1.50%	0.50%	4.50%	6	1	3		10		
13	**Miscarriage**	Students should be able to: 1. Determine the relevant sections of law, Medico-legal aspects applicable to miscarriage 2. Examine mother and aborted material, and send aborted material in proper preservative for examination	0.50%		0.50%	1.00%			1					1. Abortion	NRA 1st Editon
		Total	0.50%		0.50%	1.00%		2.00%	1				1		
14	**Crime against Newborn, Infant, or child**	Students should be able to: 1. Identify infanticide and criminal and non-accidental violence or abuse to a newborn, infant or child	0.50%			0.50%			1					1. Infanticide	Parikh 7th Edition
		Total	0.50%			0.50%		1.00%	1				1		

15	**Forensic Psychiatry**	Students should be able to: 1. Diagnose mental illness 2. Distinguish between true and feigned insanity 3. Advise on procedure of restraint of the mentally ill 4. List limitations to civil and criminal responsibilities of mentally ill	0.50%	1.50%		1.00%			1	1				1. Mental illness, true and feigned insanity, criminal responsibility of mental ill patient, restraint of mentally ill	Parikh 7th Edition	
		Total	0.50%	1.50%		1.00%		3.00%	1	1			2			
16	**Examination of Biological Specimens**	Students should be able to: 1. State the forensic importance of Biological specimens (Blood, Semen, Salvia, Vomitus, Breath, Urine, Hair) 2. Describe the method of their collection, preservation, dispatch and the common laboratory tests performed	0.50%	0.50%					1 1	1	1 1 1			1. Forensic importance of Biological specimens (Blood, Semen, Salvia, Vomitus, Breath, Urine, Hair) 2. Collection, preservation, dispatch and the common laboratory tests performed on biological specimens	Parikh 7th Edition parikh 7th Edition	1. Examination of blood stain 2. Examination of semen 3. Examination of hair and fibers 4. Blood grouping
		TOTAL	0.50%	0.50%				1.00%	2	1	4		7			

		TOXICOLOGY														
17	**General Principals**	Students should be able to:	1.50%	3.00%	1.00%	3.00%			1					1. Scope of toxicology, Laws regulating drugs and noxious products, Common intoxicants in our environments and their abuse	Parikh 7th Edition	
		1. State the scope of toxicology .							1		1			2. Drug dependence, fate and detoxification of poisons in the biological tissues, acute and chronic exposure in living and dead, general principles of treatment with antidotal therapy and management	NRA 1st Edition	1. Diagnostic and management process of (Alcohol, Narcotics and Insecticide poisons)
		2. Know how to access the laws regulating drugs and noxious products .							1		1			3. Specimens required, framework of duties of Doctor in cases of poisoning, interpretation of toxicology report from PFSA	Parikh 7th Edition	2. Visual, olfactory and tactile identification of common poisons found in communities and country
		3. Describe common Toxicants in our environments and their abuse														

		4. Describe the cause of drug dependence, the fate and detoxification of poisons in the biological tissues														
		5. Diagnose toxicological cases in acute and chronic exposure in living and dead														
		6. Utilize general principles of treatment with antidotal therapy and management														
		7. Handle specimens														
		8. Work within the framework of duties of Doctor in cases of poisoning														
		9. Prepare and interpret chemical examiners reports														
		Total	1.50%	3.00%	1.00%	3.00%		8.50%	3	0	2		5			
18	**Toxicology Specimens related to**	Students should be able to:														
		1. Describe Autopsy techniques with collection, preservation and dispatch of Biological material to analytical laboratory		0.50%		0.50%			1					1. Autopsy procedure of dissection of viscera in a poisoned patient	NRA 1st Edition	
		Total		0.50%		0.50%		1.00%	1				1			

19	Specific Poisons	Students should be able to:	4.00%	0.50%											
		1. Detail the poisons/drugs of abuse prevailing in our society along with their medico-legal aspects.							1		1			1. Alcohol	Parikh 7th Edition	1.Stas Otto process
		2. Enlist the medico-legal aspects of the following:							1		1			2. Opiates, Opioids and other narcotics	Parikh 7th Edition	2. Steam distillation
		i) Alcohol							1		1			3. Hypnotics and Sedatives	Parikh 7th Edition	3. Thin layer chromatogarphy
		ii) Opiates, Opioids and other narcotics							1		1			4. Salicylates and paracetamol	Parikh 7th Edition	4.Spectroscopic examination
		iii) Salicylates and paracetamol							1		1			5. Stimulants (Cocaine), cannabis	Parikh 7th Edition	5. Visual identification of various poisons
		iv) Hypnotics and Sedatives							1		1			6. Poisonous Plants (Aconite, Belladonna, Hyoscyamus, Stramonium, Digitalis, Ergot, Mushrooms, Nux Vomica, Oleander, Tobacco)	Parikh 7th Edition	6. Microscopic examination, Dhatura, Capsicum and Bhang

		v) Stimulants (Cocaine), cannabis							1					7. Venomous insects (Snakes), Pesticides, herbicides and insecticides	Parikh 7th Edition	
		vi) Poisonous Plants (Aconite, Belladonna, Hyoscyamus, Stramonium, Digitalis, Ergot, Mushrooms, Nux Vomica, Oleander, Tobacco)							1					8. Inorganic elements, Antimony, Arsenic, lead, Mercury, Phosphorus,Volatile Poisons and corrosives (Carbon monoxide, Hydro carbons, Cyanides, Sulphuric Acid, Oxalic Acid, Carbolic Acid and Alkalis), cardiac	Parikh 7th Edition	
		vii) Venomous insects (Snakes)														
		viii) Inorganic elements, Antimony, Arsenic, lead, Mercury, Phosphorus														
		ix) Volatile Poisons and corrosives (Carbon monoxide, Hydro carbons, Cyanides, Sulphuric Acid, Oxalic Acid, Carbolic Acid and Alkalis)														
		x) Pesticides, Herbicides and Insecticides														
		Total	4.00%		0.50%			4.50%	8	0	6		14			
		33 weeks	32.50%	24.75%	16.25%	27%		100.00%	66	11	33		110			

Avicenna Medical College

3rd Year MBBS (M-21)

1st Term Test Schedule

Week	Date	Day	Subject	Test	Topic	Reference
1st	12-Feb-24	Mon	All Subjects	Lecture	Lecture Time Divided	
2nd	19-Feb-24	Mon	All Subjects	Lecture	Lecture Time Divided	
3rd	26-Feb-24	Mon	Pathology	Grand Test+Key Discussion+Viva	Cell Injury	Robbins Pathology 10th Ed: Chapter 2
	27-Feb-24	Tue	Pathology	OSPE		
4th	4-Mar-24	Mon	Pharmacology	Grand Test+Key Discussion+Viva	General Pharmacology	Katzung ed. 14 Ch:1-5
	5-Mar-24	Tue	Pharmacology	OSPE		
5th	11-Mar-24	Mon	For. Medicine	Grand Test+Key Discussion+Viva	Law , legal procedures, medical jurispudence and Forensic Psychiatry	NRA (1st edition), pages 1-23 Parikh (7th edition), pages 441-463.
	12-Mar-24	Tue	For. Medicine	OSPE		
6th	18-Mar-24	Mon	Beh. Science	Grand Test+Key Discussion+Viva	Section A: Behavioural Sciences & their relevance to healthcare	Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 1-33
	19-Mar-24	Tue	Beh. Science	OSPE		

7th	25-Mar-24	Mon	Pathology	Grand Test+Key Discussion+Viva	General Bacteriology/ Gram Positive Bacteria	Levinson 17th edition Part I & Chapter 15, 17, 22
	26-Mar-24	Tue	Pathology	OSPE		
8th	1-Apr-24	Mon	Pharmacology	Grand Test+Key Discussion+Viva	ANS	Katzung ed. 14 ch:9-10
	2-Apr-24	Tue	Pharmacology	OSPE		
Eid- Ul- Fitr Holidays: 7th April ,2024 - 14th April ,2024						
9th	15-Apr-24	Mon	All Subjects	Lecture	Lecture Time Divided(Wed &Thu lectures)	
	16-Apr-24	Tue	Ward Test-1			
	17-Apr-24	Wed	For. Medicine	Grand Test+Key Discussion+Viva	Personal Identity, DNA Identification, Thanatology	NRA(1st Edition), Pages 31-45 Parikh (7th Edition), pages 55-86. Nasib R. Awan (1st Edition), Pages 91-105, Parikh (7th Edition), pages 137-163.
	18-Apr-24	Thu	For. Medicine	OSPE		

10th	22-Apr-24	Mon	Beh. Science	Grand Test+Key Discussion+Viva	Section B: Medical Ethics & professionalism	Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 35-61
	23-Apr-24	Tue	Beh. Science	OSPE		
11th	29-Apr-24	Mon	Pathology	Grand Test+Key Discussion+Viva	Inflammation/ Healing & Repair/ Haemodynamics	Robbins Pathology 10th Ed: Chapter 3, 4
	30-Apr-24	Tue	Pathology	OSPE		
12th	6-May-24	Mon	Pharmacology	Grand Test+Key Discussion+Viva	CVS	Katzung ed.14 Ch:9,10
	7-May-24	Tue	Pharmacology	OSPE		
Early Session: 13th May,2024 - 29th May,2024						
13th	13-May-24	Mon	Pharmacology	ESE+VIVA	Syllabus covered till E.S	
13th	14-May-24	Tue	Day Off			
13th	15-May-24	Wed	Day Off			
13th	16-May-24	Thu	Forensic Medicine	ESE+VIVA	Syllabus covered till E.S	

13th	17-May-24	Fri	Day Off		
13th	18-May-24	Sat	Day Off		
14th	19-May-24	Sun	Day Off		
14th	20-May-24	Mon	Pathology	ESE+VIVA	Syllabus covered till E.S
14th	21-May-24	Tue	Day Off		
14th	22-May-24	Wed	Beh. Science	ESE+VIVA	*Behavioural Sciences & their relevance to healthcare, Medical ethics & professionalism*
14th	23-May-24	Thu	OSPE		
14th	24-May-24	Fri	OSPE		
14th	25-May-24	Sat	Day Off		
15th	26-May-24	Sun	Day Off		
15th	27-May-24	Mon	OSPE		
15th	28-May-24	Tue	Youm-e-Takbeer Holiday-28th May,2024		
15th	29-May-24	Wed	OSPE		
End Of 1st Term					

Avicenna Medical College

3rd Year MBBS (M-21)

2nd Term Test Schedule

Week	Date	Day	Subject	Test	Topic	Reference
16th	3-Jun-24	Mon	For. Medicine	Grand Test+Key Discussion+Viva	Autopsy, General Trauma and Regional injuries	NRA (1st Edition), Pages 46-69, 118-130 Parikh (7th Edition), pages 87-120, 211-231, 287-315.
	4-Jun-24	Tue	For. Medicine	OSPE		
	4-Jun-24	Tue	Ward Test-2			
17th	10-Jun-24	Mon	Beh. Science	Grand Test+Key Discussion+Viva	Section C- 1st Half : Psychology in medical practice	Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 63-123
	11-Jun-24	Tue	Beh. Science	OSPE		
Summer Vacations+ Eid- Ul- Adha: 15th June ,2024 - 21st July ,2024						
18th	22-Jul-24	Mon	Pathology	Grand Test+Key Discussion+Viva	Gram Negative Bacteria/ Mycology/ Parasitology	Levinson 17th edition chapter 16, 18-26. Part V, Part VI
	23-Jul-24	Tue	Pathology	OSPE		

19th	29-Jul-24	Mon	Pharmacology	Grand Test+Key Discussion+Viva	Blood & GIT	Katzung ed. 14, CH:26,28
	30-Jul-24	Tue	Pharmacology	OSPE		
20th	5-Aug-24	Mon	For. Medicine	Grand Test+Key Discussion+Viva	Accidents in home and environment, Firearm injuries and Road Traffic Accidents	NRA(1st Edition), Pages 70-75, Parikh (7th Edition), pages 232-243, 332-364, 317-331 NRA(1st Edition), Pages 59-65, 116-117.
	6-Aug-24	Tue	For. Medicine	OSPE		
	8-Aug-24	Thu	Ward Test-3			
21st	12-Aug-24	Mon	Beh. Science	Grand Test+Key Discussion+Viva	Section C- 2nd Half : Psychology in medical practice&Section D	Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 108-140
	13-Aug-24	Tue	Beh. Science	OSPE		
22nd	19-Aug-24	Mon	Pathology	Grand Test+Key Discussion+Viva	Neoplasia/ Genetics	Robbins Pathology 10th edition chapter 5, 7
	20-Aug-24	Tue	Pathology	OSPE		
23rd	26-Aug-24	Mon	Pharmacology	Grand Test+Key Discussion+Viva	CNS	Katzung ed. 14 CH
	27-Aug-24	Tue	Pharmacology	OSPE		
Mid Session Exam: 28th Aug,2024 - 26th Sep,2024						

23rd	**28-Aug-24**	**Wed**	**Forensic Medicine**	**RT-1**	**Law, legal procedures, Medical Jurisprudence, Forensic psychiatry, Personal identity, and thanatology**	**NRA (1st edition), pages 1-23 Parikh (7th edition), pages 441-463. NRA(1st Edition), Pages 31-45 Parikh (7th Edition), pages 55-86. Nasib R. Awan (1st Edition), Pages 91-105, Parikh (7th Edition), pages 137-163.**
23rd	**29-Aug-24**	**Thu**	**Forensic Medicine**	**RT-2**	**Medicolegal Autopsy, General truama and Regional injuries**	**NRA (1st Edition), Pages 46-69, 118-130 Parikh (7th Edition), pages 87-120, 211-231, 287-315.**
23rd	**30-Aug-24**	**Fri**	**Forensic Medicine**	**RT-3**	**Accidents in home and environment, Firearm injuries and Road traffic accidents**	**NRA(1st Edition), Pages 70-75, Parikh (7th Edition), pages 232-243, 332-364, 317-331 NRA(1st Edition), Pages 59-65, 116-117.**
23rd	**31-Aug-24**	**Sat**	**Day Off**			
24th	**1-Sep-24**	**Sun**	**Day Off**			
24th	**2-Sep-24**	**Mon**	**Forensic Medicine**	**MSE+Viva**	**Syllabus covered till mid session**	
24th	**3-Sep-24**	**Tue**	**Pharmacology**	**RT-1**		
24th	**4-Sep-24**	**Wed**	**Pharmacology**	**RT-2**		
24th	**5-Sep-24**	**Thu**	**Pharmacology**	**RT-3**		
24th			**Ward Test-4**			

24th	6-Sep-24	Fri	Pharmacology	RT-4		
24th	7-Sep-24	Sat	Day Off			
25th	8-Sep-24	Sun	Day Off			
25th	9-Sep-24	Mon	Pharmacology	MSE+Viva	Syllabus covered till mid session	
25th	10-Sep-24	Tue	Pathology	RT-1	Cell Injury	Robbins Pathology 10th Ed: Chapter 2
25th	11-Sep-24	Wed	Pathology	RT-2	General Bacteriology/ Gram Positive Bacteria	Levinson 17th edition Part I & Chapter 15, 17, 22
25th	12-Sep-24	Thu	Pathology	RT-3	Inflammation/ Healing & Repair/ Haemodynamics	Robbins Pathology 10th Ed: Chapter 3, 4

25th	**13-Sep-24**	**Fri**	**Pathology**	**RT-4**	**Gram Negative Bacteria/ Mycology/ Parasitology** Neoplasia/ Genetics	**Levinson 17th edition chapter 16, 18-26. Part V, Part VI** Robbins Pathology 10th edition chapter 5, 7
25th	**14-Sep-24**	**Sat**	**Day Off**			
26th	**15-Sep-24**	**Sun**	**Day Off**			
26th	**16-Sep-24**	**Mon**	**Pathology**	**MSE+Viva**	**Syllabus covered till mid session**	
26th	**17-Sep-24**	**Tue**	**Rabi- ul -Awal Holiday**			
26th	**18-Sep-24**	**Wed**	**Beh Sciences**	**RT-1**	**Section A&Section B**	**Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 1-62**
26th	**19-Sep-24**	**Thu**	**Beh Sciences**	**RT-2**	**Section C&Section D**	**Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 63-140**
26th	**20-Sep-24**	**Fri**	**Beh Sciences**	**MSE+Viva**	**Syllabus covered till mid session**	

25th	**13-Sep-24**	**Fri**	**Pathology**	**RT-4**	**Gram Negative Bacteria/ Mycology/ Parasitology** Neoplasia/ Genetics	**Levinson 17th edition chapter 16, 18-26. Part V, Part VI** Robbins Pathology 10th edition chapter 5, 7
25th	**14-Sep-24**	**Sat**	**Day Off**			
26th	**15-Sep-24**	**Sun**	**Day Off**			
26th	**16-Sep-24**	**Mon**	**Pathology**	**MSE+Viva**	**Syllabus covered till mid session**	
26th	**17-Sep-24**	**Tue**	**Rabi- ul -Awal Holiday**			
26th	**18-Sep-24**	**Wed**	**Beh Sciences**	**RT-1**	**Section A&Section B**	**Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 1-62**
26th	**19-Sep-24**	**Thu**	**Beh Sciences**	**RT-2**	**Section C&Section D**	**Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 63-140**
26th	**20-Sep-24**	**Fri**	**Beh Sciences**	**MSE+Viva**	**Syllabus covered till mid session**	
26th	**21-Sep-24**	**Sat**	**Day Off**			
27th	**22-Sep-24**	**Sun**	**Day Off**			
27th	**23-Sep-24**	**Mon**	**OSPE**			
27th	**24-Sep-24**	**Tue**	**OSPE**			
27th	**25-Sep-24**	**Wed**	**OSPE**			
27th	**26-Sep-24**	**Thu**	**OSPE**			
End Of 2nd Term						

Avicenna Medical College

3rd Year MBBS (M-21)

3rd Term Test Schedule

Week	Date	Day	Subject	Test	Topic	Reference
28th	30-Sep-24	Mon	All Subjects	Lecture	Lecture Time Divided	
	1-Oct-24	Tue	All Subjects	Lecture	Lecture Time Divided	
	3-Oct-24	Thus	For. Medicine	OSPE	Asphyxia, Sexual Offenses and related crimes	Nasib R. Awan (1st Edition), Pages 76-84, 103-115, Parikh (7th Edition), pages 367-437, 165-190
	4-Oct-24	Fri	For. Medicine	Grand Test+Key Discussion+Viva		
29th	7-Oct-24	Mon	Beh. Science	Grand Test+Key Discussion+Viva	Section E ;Psychosocial aspects of haelth & disease	Handbook of Behavioural sciences, 3rd Edition, MH Rana, Page no 143-228
	8-Oct-24	Tue	Beh. Science	OSPE		
	10-Oct-24	Thus	Ward Test-5			
30th	14-Oct-24	Mon	Pathology	Grand Test+Key Discussion+Viva	Immunology/ Virology	Levinson 17th Edition Part III, Part IV, Part VII
	15-Oct-24	Tue	Pathology	OSPE		

31st	**21-Oct-24**	**Mon**	**Pharmacology**	**Grand Test+Key Discussion+Viva**	**ENDO**	**Katzung ed. 14**
	22-Oct-24	**Tue**	**Pharmacology**	**OSPE**		
32nd	**28-Oct-24**	**Mon**	**For. Medicine**	**Grand Test+Key Discussion+Viva**	**General and Special Toxicology**	**Parikh 7th Edition, pages 507-691**
	29-Oct-24	**Tue**	**For. Medicine**	**OSPE**		
33rd	**4-Nov-24**	**Mon**	**Beh. Science**	**Grand Test+Key Discussion+Viva**		
	5-Nov-24	**Tue**	**Beh. Science**	**OSPE**		
	7-Nov-24	**Thus**	**Ward Test-6**			
34th	**11-Nov-24**	**Mon**	**Pharmacology**	**Grand Test+Key Discussion+Viva**		
	12-Nov-24	**Tue**	**Pharmacology**	**OSPE**		
Send-Up: 14th Nov,2024- 29th Nov,2024						
End Of 3rd Term						


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