

AVICENNA MEDICAL & DENTAL COLLEGE



STUDY GUIDE

2025

Cariology

BLOCK 1 - MODULE 3



Program: BDS
Year: 1st Professional Year
Batch No: D-24
Session: 2024-2025

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List of Abbreviations

Abbreviations	Subjects
UHS	University of Health Sciences
BDS	Bachelor of Dental Surgery
PRISME	Professionalism, Research, Informatics, Social Responsibility and Accountability, Management & Entrepreneurship, Ethics Evidence Based Dentistry
WHO	World Health Organization
A	Anatomy
AI	Artificial Intelligence
B	Biochemistry
GDC	General Dental Council
Ph	Pharmacology
P	Physiology
Pa	Pathology
OB	Oral Biology
OP	Oral Pathology
CD	Community Dentistry
OD	Operative Dentistry
AMIA	American Medical Informatics Association
AMEE	Association of Medical Education in Europe
BhS	Behavioral Sciences
CNS	Central Nervous System
GIT	Gastrointestinal Tract
CVS	Cardiovascular System
TMJ	Temporomandibular Joint
CBC	Complete Blood Count
ESR	Erythrocyte Sedimentation Rate
PCR	Polymerase Chain Reaction
ED50	Median Effective Dose
LD50	Median Lethal Dose

TD50	Median Toxic Dose
AUC	Area Under Curve
MCV	Mean Corpuscular Volume
MCH	Mean Corpuscular Hemoglobin
MCHC	Mean Corpuscular Hemoglobin Concentration
Na	Sodium
K	Potassium
DNA	Deoxyribonucleic Acid
TORCH	Toxoplasmosis, Other, Rubella, Cytomegalovirus, Herpes simplex
CF	Craniofacial
CFII	Craniofacial II
Car	Cariology
DEJ	Dentin enamel Junction
HERS	Hertwig's Epithelial Root Sheath
FDI	Fédération Dentaire Internationale
GAGs	Glycosaminoglycans
EFA	Essential Fatty Acids
Hb	Hemoglobin
HbA1c	Glycated Hemoglobin
ATP	Adenosine Triphosphate
RBC	Red Blood Cell
NMJ	Neuromuscular Junction
ID50	Median Infectious Dose
RCTs	Randomized Control Trials

CURRICULUM FRAMEWORK

BDS Integrated Curriculum 2K25

Version 01

YEAR-1 MODULES

Block-1

1. Foundation (Cell)
2. Craniofacial-I
3. Cariology-I

Block-2

4. Craniofacial-II
5. Neurosciences
6. Alveo-Cemental Complex

Block-3

7. Blood & Cardiovascular System
8. Gastrointestinal Tract
9. Occlusion-I

PRISME

Professionalism, Research, Informatics (Dental), Social Responsibility, Management/Entrepreneurship and Evidence Based Dentistry)

Islamiyat/Civics & Pakistan Studies

Introduction to the Study Guide

Welcome to the Avicenna Dental College Study Guide!

This guide serves as your essential resource for navigating the complexities of your dental education at Avicenna 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:

- o 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:

- o 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:

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

4. Curriculum Framework:

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

5. Assessment Preparation:

- o 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:

- o 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:

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

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

Introduction to Module

- This module establishes a comprehensive foundation in cariology, focusing on the biological, microbial, and environmental factors in dental caries development.
- By building this knowledge base, students are prepared for advanced applications in clinical practice and public health initiatives.
- Since caries follows the same biological principles worldwide, the methods for teaching its underlying biology, etiology, epidemiology, prevention, diagnosis, and treatment should also be consistent.

Block 1			Block 2			Block 3			Spirals			
Module 1	Module 2	Module 3	Module 4	Module 5	Module 6	Module 7	Module 8	Module 9	Module A	Module B	Module C	Module D
Foundation (Cell)	Craniofacial I	Cariology I	Craniofacial II	Neurosciences I	Alveocele mental complex	Blood & Cardiovascular System	Gastrointestinal Tract	Occlusion I	Islamiat	Pakistan Studies	PRISME	Holy Quran
190 Hours	95 Hours	72 Hours	111 Hours	154 Hours	48 Hours	153 Hours	115 Hours	34 Hours	30 Hours	30 Hours	60 Hours	54 Hours
6 Weeks	3 Weeks	3 Weeks	4 Weeks	6 Weeks	2 Weeks	5 Weeks	4 Weeks	2 Weeks	Contact sessions held across the whole academic year			
12 Weeks			12 Weeks			12 Weeks						
36 Weeks												

BLOCK 1 – MODULE 1

Module Coordinator		
Oral Biology – Prof. Dr. Raheela		
Module Committee Members		
1	Oral Biology & Tooth Morphology	Dr. Sana Chuadhary
2	Biochemistry	Dr. Sadia Khalil
3	Community Dentistry	Dr. Momin Ali
4	Oral Pathology	Dr. Abdul Razzaq / Dr Ummer Amin
5	Operative Dentistry	Dr. Nighat Shafi

Curriculum Map

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



Timetable

BDS 1st Year - D24								
Week - 10 (16th June 2025 to 20th June 2025)								
Day & Time	8:00 to 9:00	9:00 to 10:00	10:00 to 11:00	11:00 to 11:30	11:30 to 12:30	12:30 to 1:30	1:30 to 2:30	2:30 to 3:30
Monday 16th June 2025	Oral Pathology (Theory) Code: Car1-OP-001 Topic: Amelogenesis Imperfecta Facilitator: Dr Sultan Muhammad Wahid Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car1-OB-001 Topic: Enamel Facilitator: Dr Sana Dental Lecture Hall - 1	Community Dentistry (Theory) Code: Car1-CD-001 Topic: Cariology Facilitator: Dr Syeda Tahira Dental Lecture Hall - 1	Break	Oral Biology (Theory) Code: Car1-OB-003 Topic: Saliva Facilitator: Prof. Dr Raheela Dental Lecture Hall - 1	Oral Pathology (Theory) Code: Car1-OP-001 Topic: Enamel hypoplasia Facilitator: Dr Momin Ayub Dental Lecture Hall - 1	Oral Biology (Practical) Code: Car1-OB-005 Topic: Enamel Facilitator: Dr Anushey / Dr Faseeh Oral Biology Lab	
						The Bitish School of Excellence Only Batch 8 to attend student session by Ms. Maria Venue: Room 1 from 12:30 to 3:30 PM		
Tuesday 17th June 2025	Oral Biology (Theory) Code: Car1-OB-001 Topic: Enamel Facilitator: Integrated with Operative Dentistry Dental Lecture Hall - 1	Community Dentistry (Theory) Code: Car1-CD-001 Topic: Cariology Facilitator: Dr Syeda Tahira Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car1-OB-003 Topic: Saliva Facilitator: Prof. Dr Raheela Dental Lecture Hall - 1	Break	Anatomy Practical* Code: F-A-015 Topic: Glandular Epithelium Facilitator: Dr. Sarwat Anatomy Lab	Biochemistry (Theory) Code: Car1-B-001 Topic: Biochemical Role of carbohydrates in Dental Caries Facilitator: Dr Yusra Dental Lecture Hall - 1	Opeative Dentistry (Practical) Code: Topic: Prevention of Dental caries / Disclosing Agents for plaque Facilitator: Integrated with Community Dentistry Departmental Lab	
						The Bitish School of Excellence Only Batch 9 to attend student session by Ms. Maria Venue: Room 1 from 12:30 to 3:30 PM		
Wednesday 18th June 2025	Opeative Dentistry (Theory) Code: Car1-OD-001,002,004,005,006 Topic: Pit and fissure caries, Smooth surface caries, Active caries, arrested caries Facilitator: Prof. Dr Sohail Abbas khan Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car1-OB-001 Topic: Enamel Facilitator: Prof. Dr Sana Dental Lecture Hall - 1	Oral Pathology (Theory) Code: Car1-OP-001 Topic: Developmental disturbances in structure of Dentine Facilitator: Dr Momin Ayub Dental Lecture Hall - 1	Break	Biochemistry (Theory) Code: Car1-B-002,003 Topic: Saliva’s Biochemical Role Facilitator: Dr Sadia khaliI Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car-OB-004 Topic: Tooth Morphology Facilitator: Prof. Dr Raheela Dental Lecture Hall - 1	Oral Biology (Practical) Code: Car1-OB-005 Topic: Enamel Facilitator: Dr Anushey / Dr Faseeh Oral Biology Lab	
Thursday 19th June 2025	Biochemistry (Theory) Code: Car1-B-003 Topic: Saliva’s Biochemical Role Facilitator: Dr Sadia khaliI Dental Lecture Hall - 1	Opeative Dentistry (Tutorial) Code: Car1-OD-001,002,004,005,006 Topic: Pit and fissure caries, Smooth surface caries, Active caries, arrested caries Facilitator: Dr. Salman, Dr. Tabassum, Dr. Nighat Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car01-OB-001 Topic: Enamel Facilitator: Prof. Dr Sana Dental Lecture Hall - 1	Break	Physiology (Practical)* Code: F-P-007 Topic: Microscope Facilitator: Dr. Fahad Physiology Lab	Community Dentistry (Theory) Code: Topic: Cariology Facilitator: Dr Syeda Tahira Dental Lecture Hall - 1	Oral Pathology (Practical) Code: Car1-OP-003 Topic: Histopathological Changes in Enamel and Dentine / Histopathological Changes in Enamel and Dentine Facilitator: Dr. Abdul Razzaq / Dr Ummer Amin Oral Pathology Lab	
Day & Time	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	
Friday 20th June 2025	Oral Biology (Practical)* Time Divided Code: F-OB-008 Topic: Introduction & Nomenclature of tooth Facilitator: Dr Anushey / Dr Faseeh Oral Biology Lab	Oral Biology (Practical)* Time Divided Code: F-OB-008 Topic: Introduction & Nomenclature of tooth Facilitator: Dr Anushey / Dr Faseeh Oral Biology Lab	Physiology (Practical)* Time Divided Code: F-P-008 Topic: Verbal Consent Facilitator: Dr. Nida Physiology Lab	Pathology (Practical)* Time Divided Code: FPa-004 Topic: Necrosis Facilitator: Demonsterator Pathology Lab	Oral Biology (Tutorial) Code: Car1-OB-003 Topic: Saliva Facilitator: Dr Anushey / Dr Faseeh Dental Lecture Hall - 1	Jummaah Break	Self Directed Learning	

Module III Timetable								
BDS 1st Year - D24								
Week - 11 (23rd June 2025 to 27th June 2025)								
Day & Time	8:00 to 9:00	9:00 to 10:00	10:00 to 11:00	11:00 to 11:30	11:30 to 12:30	12:30 to 1:30	1:30 to 2:30	2:30 to 3:30
Monday 23rd June 2025	Oral Pathology (Theory) Code: Car1-OP-001 Topic: Dentinogenesis Imperfecta and Dentine Dysplasia Facilitator: Dr. Sultan Muhammad Wahid Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car01-OB-004 Topic: Tooth Morphology Facilitator: Prof. Dr. Raheela Dental Lecture Hall - 1	Community Dentistry (Theory) Code: Car01-CD-001 Topic: Dental Caries Facilitator: Dr Syeda Tahira Dental Lecture Hall - 1	Break	Oral Biology (Theory) Code: Car01-OB-001 Topic: Enamel Facilitator: Prof. Dr. Sana Dental Lecture Hall - 1	Opeative Dentistry (Theory) Code: Car1-OD-003 Topic: Root caries Facilitator: Dr. Nighat Shafi Dental Lecture Hall - 1	Oral Biology (Practical) Code: Car01-OB-005 Topic: Enamel / Enamel Facilitator: <i>Integrated with Oral Medicine</i> Oral Biology Lab	
Tuesday 24th June 2025	Oral Biology (Theory) Code: Car01-OB-004 Topic: Tooth Morphology Facilitator: Prof. Dr. Raheela Dental Lecture Hall - 1	Community Dentistry (Theory) Code: Car01-CD-002 Topic: Prevention of dental caries Facilitator: Dr Syeda Tahira Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car01-OB-001 Topic: Enamel Facilitator: Prof. Dr. Sana Dental Lecture Hall - 1	Break	Oral Pathology (Theory) Code: Car1-OP-002 Topic: Etiological factors of Dental Caries Facilitator: Dr Momin Ayub Dental Lecture Hall - 1	Biochemistry (Theory) Code: Car1-B-002 Topic: Carbohydrate Metabolism and Acidogenesis in relation to Dental Caries Facilitator: Dr Yusra Dental Lecture Hall - 1	Opeative Dentistry (Practical) Code: Car1-OD-007 Topic: Identification of caries / Identification of caries Facilitator: <i>Integrated with community dentistry</i> Departmental Lab	
Wednesday 25th June 2025	Oral Pathology (Theory) Code: Car1-OP-002 Topic: Dental Caries Facilitator: Dr. Sultan Muhammad Wahid Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car01-OB-004 Topic: Tooth Morphology Facilitator: Prof. Dr. Raheela Dental Lecture Hall - 1	Anatomy Practical Code: F-P-020 Topic: Lymphoid Organs Facilitator: Dr. Sarwat Departmental Lab	Break	Biochemistry (Theory) Code: Car1-B-002 Topic: Carbohydrate Metabolism and Acidogenesis in relation to Dental Caries Facilitator: Dr Yusra Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car01-OB-001 Topic: Enamel Facilitator: <i>Integrated with Oral Pathology</i> Dental Lecture Hall - 1	Oral Biology (Practical) Code: Car01-OB-005 Topic: Enamel / Enamel Facilitator: <i>Integrated with Oral Pathology</i> Oral Biology Lab	
Thursday 26th June 2025	Biochemistry (Theory) Code: Car1-B-004 Topic: Fluoride's Biochemical Mechanism Facilitator: Dr Yusra Dental Lecture Hall - 1	Opeative Dentistry (Theory) Code: Car1-OD-003 Topic: Root caries Facilitator: Dr. Salman, Dr. Tabassum, Dr. Nighat Dental Lecture Hall - 1	Oral Biology (Theory / Tutorial) Code: Car01-OB-001 Topic: Enamel Facilitator: Prof. Dr. Sana Dental Lecture Hall - 1	Break	Physiology Practical Code: F-P-008 Topic: Interpretation of RBC count and hemoglobin Facilitator: Dr. Waqas Departmental Lab	Community Dentistry (Theory) Code: Car01-CD-002 Topic: Prevention of dental caries Facilitator: Dr Syeda Tahira Dental Lecture Hall - 1	Oral Pathology (Practical) Code: Car1-OP-004 Topic: Identify bacteria in Dental Plaque Facilitator: Dr. Abdul Razzaq / Dr Ummer Amin Departmental Lab	
Day & Time	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	
Friday 27th June 2025	Time Divided	Time Divided	Time Divided	Time Divided	Oral Biology (Theory) Code: Topic: Enamel Facilitator: Dr Anushey / Dr Faseeh Dental Lecture Hall - 1	Jumma Break	Holy Quran	
	Oral Biology (Practical) Code: F-OB-009 Topic: Oral Histology Facilitator: Dr Anushey / Dr Faseeh Oral Biology Lab	Oral Biology (Practical) Code: F-OB-009 Topic: Oral Histology Facilitator: Dr Anushey / Dr Faseeh Oral Biology Lab	Physiology Practical Code: F-P-008 Topic: Interpretation of cocncentration and hematocrit Facilitator: Dr. Shalsta Departmental Lab	Pathology (Practical) Code: F-Pa-006 Topic: Intracellular accumulations Facilitator: Demonstrator Departmental Lab				

Module III Timetable								
BDS 1st Year - D24								
Week - 12 (30th June 2025 to 4th July 2025)								
Day & Time	8:00 to 9:00	9:00 to 10:00	10:00 to 11:00	11:00 to 11:30	11:30 to 12:30	12:30 to 1:30	1:30 to 2:30	2:30 to 3:30
Monday 30th June 2025	Oral Pathology (Theory) Code: Car1-OP-002 Topic: Role and Characteristics of Cariogenic bacteria Facilitator: Dr Sultan Muhammad Wahid Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car1-OB-004 Topic: Tooth Morphology Facilitator: Prof. Dr. Raheela Dental Lecture Hall - 1	Community Dentistry (Theory) Code: Car01-CD-002 Topic: Prevention of dental caries Facilitator: Dr Syeda Tahira Dental Lecture Hall - 1	Break	Oral Biology (Theory) Code: Car1-OB-002 Topic: Dentin Facilitator: Prof. Dr. Sana Dental Lecture Hall - 1	Oral Pathology Practical Code: Car1-OP-005 Topic: Pathological process in a cariou ground section of Tooth slide Facilitator: Dr. Abdul Razzaq / Dr Ummer Amin Departmental Lab	Oral Biology (Practical) Code: F-OB-011 Topic: Oral Histology / Oral Histology Facilitator: Dr Anushey / Dr Faseeh Departmental Lab	
						The British School of Excellence Only Batch 9 to attend student session by Ms. Maria Venue: Room 1 from 12:30 to 3:30 PM		
Tuesday 1st July 2025	Oral Biology (Theory) Code: Car1-OB-004 Topic: Tooth Morphology Facilitator: Prof. Dr. Raheela Dental Lecture Hall - 1	Community Dentistry (Theory) Code: Car01-CD-002 Topic: Prevention of dental caries Facilitator: Dr Syeda Tahira Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car1-OB-002 Topic: Dentin Facilitator: Prof. Dr. Sana Dental Lecture Hall - 1	Break	Anatomy Practical Code: F-A-021 Topic: Skin Facilitator: Dr. Sarwat Departmental Lab	Oral Pathology Practical Code: Car1-OP-005 Topic: Pathological process in a cariou ground section of Tooth slide Facilitator: Dr. Abdul Razzaq / Dr Ummer Amin Departmental Lab	Oral Biology Practical Code: F-OB-011 Topic: Oral Histology / Oral Histology Facilitator: Dr Anushey / Dr Faseeh Departmental Lab	
Wednesday 2nd July 2025	Opeative Dentistry Theory (Tutorial) Code: Car01-OD-001 Topic: Pit and fissure caries Facilitator: Dr.Salman, Dr. Tabassum ,Dr. Nighat Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car1-OB-004 Topic: Dentin Facilitator: Prof. Dr. Sana Dental Lecture Hall - 1	Oral Pathology (Theory) Code: Car1-OP-002 Topic: Plaque and Stages of Plaque Development Facilitator: Dr Momin Ayub Dental Lecture Hall - 1	Break	Biochemistry (Theory) Code: F-B-007 Topic: Cell Facilitator: Dr Yusra Dental Lecture Hall - 1	Oral Biology (Theory) Code: Car1-OB-004 Topic: Dentin Facilitator: Prof. Dr. Raheela Dental Lecture Hall - 1	General Pathology (Practical) Code: F-Pa-007 / F-Pa-008 Topic: Pigmentation / Calcification Facilitator: Demonstertor Departmental Lab	
Thursday 3rd July 2025	Biochemistry (Theory) Code: Topic: Carbohydrate Metabolism and Acidogenesis in relation to Dental Caries Facilitator: Dr Yusra Dental Lecture Hall - 1	Opeative Dentistry Theory (Tutorial) Code: Car01-OD-002 Topic: Smooth Surface caries Facilitator: Sturdevant Art and science 7th edition Dental Lecture Hall - 1	Oral Biology Practical Code: Car-OB-006 Topic: Dentin Facilitator: Dr Anushey / Dr Faseeh Departmental Lab	Break	Physiology Practical Code: F-P-009 Topic: ESR Facilitator: Dr. Tahir Departmental Lab	Oral Biology Practical Code: Car1-OB-005 Topic: Enamel Facilitator: Integrated with Oral Pathology Departmental Lab	Anatomy Practical Code: F-A-021 Topic: Skin / Revision Facilitator: Dr. Sarwat Departmental Lab	
Day & Time	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	
Friday 4th July 2025	Time Divided	Time Divided	Time Divided	Time Divided	Oral Biology Practical Code: Car1-OB-006 Topic: Dentin Facilitator: Integrated with Oral Pathology Departmental Lab	Jumma Break	Holy Quran	
	Module III Exam Theory - 2 hours 30 Minutes Practical - 1 hour 30 Minutes Examination Hall - 1							

1st Year BDS - D24

Block 1 - Module 3

Sr.	Subjects	Theory Hours	Practical Hours	Total Hours
1	Oral Biology & Tooth Morphology	22	10	32
2	Biochemistry	8	0	8
3	Community Dentistry	8	0	8
4	Oral Pathology	8	6	14
5	Operative Dentistry	6	4	10
TOTAL		52	20	72

Modular Outcomes

Module Name	Modular Outcomes
Block 1 Module 3 Cariology	<ul style="list-style-type: none">• Describe the basic structure and function of teeth.• The natural history of dental caries Identify the microbial, dietary, and environmental factors in caries formation.• Evaluate the impact of dietary habits, saliva composition, and environmental factors on caries development.• Explain the principles of caries prevention and oral hygiene Discuss caries prevention strategies

Learning Objectives

Session	Section / class code	Week No	subject	TOTAL HOURS in a week	No of lectures subject wise	Mode of Teaching	Topic	Code	Learning Objective	Hours Duration	Reference	Facilitator
2024-2025		10	Operative Dentistry	1	1	Theory (Lecture)	Pit and fissure caries, Smooth surface caries, Active caries, arrested caries	Car1-OD-001,002,004,005,006	Define caries, clinical features, risk and etiological factors	1	Sturdevant Art and Science; 7th edition	Prof. Dr Sohail Abbas khan
2024-2025		10	Operative Dentistry	1	2	Theory (Tutorial)	Pit and fissure caries, Smooth surface caries, Active caries, arrested caries	Car1-OD-001,002,004,005,006	understand the clinical significance of active and arrested caries	1	Sturdevant Art and Science; 7th edition	Dr. Salman, Dr. Tabassum, Dr. Nighat
2024-2025		10	Operative Dentistry	1	1	Practical	Prevention of Dental caries	Car1-OD-006	Identify fluoride gel and procedure to apply it	1	Josephn John	integrated with Community Dentistry
2024-2025		10	Operative Dentistry	1	2	Practical	Disclosing Agents for plaque	Car1-OD-007	How to use disclosing agents for identification of dental plaque	1	Josephn John	integrated with Community Dentistry

2024-2 025		10	Oral Biology	1	1	Theory Lecture	Enamel	Car1-OB- 001	Describe the physical and chemical properties of enamel	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Sana
2024-2 025		10	Oral Biology	1	1	Theory Lecture	Saliva	Car1-OB- 003	List down the components of Saliva	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Raheela
2024-2 025		10	Oral Biology	1	2	Theory Lecture	Enamel	Car1-OB- 001	Describe the structural organization of enamel and identify the enamel on radiograph	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Operative Dentistry
2024-2 025		10	Oral Biology	1	3	Theory Lecture	Saliva	Car1-OB- 003	State the functions of Saliva	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Raheela
2024-2 025		10	Oral Biology	1	4	Theory Lecture	Enamel	Car1-OB- 001	Describe the life cycle of Ameloblasts	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Sana

2024-2 025		10	Oral Biology	1	5	Theory Lecture	Tooth Morphology	Car-OB-0 04	Differentiate between terms	1	Wheeler's Dental Anatomy, Physiology and Occlusion / "Dental Anatomy and Occlusion" by Ronald E. Jordan and Mark F. Fuller	Dr Raheela
2024-2 025		10	Oral Biology	1	6	Theory Lecture	Enamel	Car01-OB- -001	Enlist the stages of amelogenesis and describe the pre-secretory stage	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Sana
2024-2 025		10	Oral Biology	1	7	Theory Tutorial	Saliva	Car1-OB- 003	List the components of Saliva	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		10	Oral Biology	1	1	Practical	Enamel	Car1-OB- 005	Draw and label "Enamel rods: fish scale pattern & keyhole pattern"	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh

2024-2 025		10	Oral Biology	1	2	Practical	Enamel	Car1-OB- 005	Ameloblasts (life cycle)	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		10	Oral Biology	1	3	Practical	Enamel	Car1-OB- 005	DEJ with organic defects	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		10	Oral Biology	1	4	Practical	Enamel	Car1-OB- 005	Draw and label Enamel Rods, Striae of retzius	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		10	Communi ty Dentistry	1	1	Theory Lecture	Dental Caries	Car1-CD- 001	Discuss the importance of role of diet in caries. Discuss the concept of stefen's curve in dental caries	1	Car01-CD-002	Dr Syeda Tahira

2024-2025		10	Community Dentistry	1	2	Theory Lecture	Dental Caries	Car1-CD-001	Role of dental biofilm in acid production. Discuss the concept of demineralization and remineralization process	1	Josephn John	Dr Syeda Tahira
2024-2025		10	Community Dentistry	1	3	Theory Lecture	Dental Caries	Car1-CD-001	Describe the importance of oral hygiene on caries	1	Josephn John	Dr Syeda Tahira
2024-2025		10	Oral Pathology	1	1	Theory Lecture	Enamel hypoplasia	Car1-OP-001	Etiology and pathogenesis of acquired and generalized enamel hypoplasia	1	Contemporary Oral and Maxillofacial Pathology	Dr Sultan Muhammad Wahid
2024-2025		10	Oral Pathology	1	2	Theory Lecture	Amelogenesis Imperfecta	Car1-OP-001	Types of amelogenesis Imperfecta according to clinical and radiological appearances	1	Contemporary Oral and Maxillofacial Pathology	Dr Momin Ayub

2024-2 025		10	Oral Pathology	1	3	Theory Lecture	Developmental disturbances in structure of Dentine	Car1-OP- 001	Classify Developmental disturbances in structure of Dentine	1	Contemporar y Oral and Maxillofacial Pathology	Dr Momin Ayub
2024-2 025		10	Oral Pathology	1	1	Practical	Histopathologica l Changes in Enamel and Dentine	Car1-OP- 003	Histopathologic al Changes in Enamel and Dentine	1	Practice Manual of Oral Pathology	Dr. Abdul Razzaq / Dr Ummer Amin
2024-2 025		10	Oral Pathology	1	2	Practical	Histopathologica l Changes in Enamel and Dentine	Car1-OP- 003	Histopathologic al Changes in Enamel and Dentine	1	Practice Manual of Oral Pathology	Dr Abdul Razzaq/Dr Ummer Amin
2024-2 025		10	Biochemis try	1	1	Theory (Lecture)	Biochemical Role of carbohydrates in Dental Caries	Car1-B- 001	Explain the biochemical properties of sucrose, glucose, and fructose.Comp are the cariogenic potential of sucrose, glucose, and starch,	1	Harper 33rd edition	Dr Yusra

2024-2025		10	Biochemistry	1	2	Theory (Lecture	Saliva's Biochemical Role	Car1-B-002,003	Explain the concept of acidogenicity and aciduricity in cariogenic bacteria. Identify and analyze the components of saliva (salivary proteins, enzymes, bicarbonate, statherin, lysozyme, lactoferrin, amylase, histatins) and their functions in maintaining oral pH and enamel repair	1	Chatterjee 9th edition chapter 41	Dr Sadia khalil
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2024-2025		10	Biochemistry	1	3	Theory (Lecture)	Saliva's Biochemical Role	Car1-B-003	Describe the buffering action of saliva (bicarbonate, phosphate, and protein buffers). Discuss factors that affect salivary flow and pH regulation. Explain the role of carbonic anhydrase in maintaining oral pH.	1	Chatterjee 9th edition chapter 42	Dr Sadia khalil
2024-2025		10	Anatomy	1	1	Practical* (Module 1)	Glandular Epithelium	F-A-015	identify under the microscope different types of epithelia	1	Medical Histology by Laiq Hussain Siddiqui ch.4	Dr. Sarwat
2024-2025		10	Physiology	1	1	Practical* (Module 1)	Microscope	F-P-007	Parts of Microscope and their functions and how to operate it	1	Modular Integrated Curriculum Experimental Physiology Manual Vol 1- Prof. Dr. Zafar Ali Ch and Prof. Dr. Sadia Zafar	Dr. Fahad

2024-2 025		10	Physiology	1	2	Practical* (Module 1)	Verbal Consent	F-P-008	How to obtain verbal consent from subject before and observation of drawing blood for CBC testing	1	Modular Integrated Curriculum Experimental Physiology Manual Vol 1- Prof. Dr. Zafar Ali Ch and Prof. Dr. Sadia Zafar	Dr. Nida
2024-2 025		10	Pathology	1	1	Practical* (Module 1)	Necrosis	F-Pa-004	Identify various types with examples	1	Robbins 10th Edition	Demonstrator
2024-2 025		10	Oral Biology	1	1	Practical* (Module 1)	Introduction & Nomenclature of tooth	F-OB-008	Carve tooth models in wax/soap (one anterior & one posterior) and demonstrate the morphological features.	1	Wheeler's Dental Anatomy, Physiology and Occlusion / "Dental Anatomy and Occlusion" by Ronald E. Jordan and Mark F. Fuller	Dr Anushey / Dr Faseeh

2024-2 025		10	Oral Biology	1	2	Practical* (Module 1)	Introduction & Nomenclature of tooth	F-OB-008	Carve tooth models in wax/soap (one anterior & one posterior) and demonstrate the morphological features.	1	Wheeler's Dental Anatomy, Physiology and Occlusion / "Dental Anatomy and Occlusion" by Ronald E. Jordan and Mark F. Fuller	Dr Anushey / Dr Faseeh
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Session	Section / class code	Week No	subject	TOTAL HOURS in a week	No of lectures subject wise	Mode of Teaching	Topic	Code	Learning Objective	Hours Duration	Reference	Facilitator
2024-2025		11	Operative Dentistry	1	1	Theory (Lecture)	Root caries	Car1-OD-003	Identification of etiological factors and clinical features of root caries	1	Sturdevant Art and Science ; 7th edition	Dr. Nighat Shafi
2024-2025		11	Operative Dentistry	1	2	Theory (Tutorial)	Root caries	Car1-OD-003	Describe clinical features and progression of root caries	1	Sturdevant Art and Science ; 7th edition	Dr. Salman, Dr. Tabassum, Dr. Nighat
2024-2025		11	Operative Dentistry	1	1	Practical	Identification of caries	Car1-OD-007	Identification of pit and fissure smooth surface caries	1	Sturdevant Art and Science ; 7th edition	Dr. Salman, Dr. Tabassum, Dr. Nighat
2024-2025		11	Operative Dentistry	1	2	Practical	identification of caries	Car1-OD-007	Identification of root caries and active caries	1	Sturdevant Art and Science ; 7th edition	Dr. Salman, Dr. Tabassum, Dr. Nighat
2024-2025		11	Oral Biology	1	1	Theory Lecture	Tooth Morphology	Car01-OB-004	Differentiate between terms	1	Wheeler's Dental Anatomy, Physiology and Occlusion / "Dental Anatomy and Occlusion" by	Dr Raheela

											Ronald E. Jordan and Mark F. Fuller	
2024-2025		11	Oral Biology	1	1	Theory Lecture	Enamel	Car01-O B-001	Describe the maturation stage of amelogenesis and process of modulation	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Sana
2024-2025		11	Oral Biology	1	2	Theory Lecture	Enamel	Car01-O B-001	Classify enamel proteins and Describe the structural features of enamel	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Sana
2024-2025		11	Oral Biology	1	3	Theory Lecture	Tooth Morphology	Car01-O B-004	Differentiate between terms	1	Wheeler's Dental Anatomy, Physiology and Occlusion / "Dental Anatomy and Occlusion" by Ronald E. Jordan and Mark F. Fuller	Dr Raheela

2024-2 025		11	Oral Biology	1	4	Theory Lecture	Tooth Morphology	Car01-O B-004	Describe the number and names of the lobes of the anterior and posterior teeth	1	Wheeler's Dental Anatomy, Physiology and Occlusion / "Dental Anatomy and Occlusion" by Ronald E. Jordan and Mark F. Fuller	Dr Raheela
2024-2 025		11	Oral Biology	1	5	Theory Lecture	Enamel	Car01-O B-001	Describe the regulation of pH during enamel formation	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Oral Pathology
2024-2 025		11	Oral Biology	1	6	Theory Lecture	Enamel	Car01-O B-001	Discuss the effects of flouride on enamel structure and resistance to caries and Discuss the principles of enamel etching and its importance in restorative dentistry	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Sana

2024-2 025		11	Oral Biology	1	7	Theory Tutorial	Enamel	Car01-O B-001	Describe the age changes and repair / regeneration of enamel and explain how developmental disturbances can affect enamel formation	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		11	Oral Biology	1	1	Practical	Enamel	Car01-O B-005	Draw and label bands of hunter & schreger, gnarled enamel, DEJ, tufts, lamella, spindles, and neonatal lines	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		11	Oral Biology	1	2	Practical	Enamel	Car01-O B-005	Identify amelogenesis imperfecta (hypoplastic, hypo calcified and hypomaturative types) and fluorosis	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Oral Medicine
2024-2 025		11	Oral Biology	1	3	Practical	Enamel	Car01-O B-005	Prepare the ground section of the tooth	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Oral Pathology

2024-2 025		11	Oral Biology	1	4	Practical	Enamel	Car01-O B-005	Prepare the ground section of the tooth	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Oral Pathology
2024-2 025		11	Communi ty Dentistry	1	1	Theory Lecture	Dental Caries	Car01-C D-001	Explain the concept of keye's circle in the etiology in dental caries	1	Josephn John	Dr Syeda Tahira
2024-2 025		11	Communi ty Dentistry	1	2	Theory Lecture	Prevention of dental caries	Car01-C D-002	Classify the basic types of tooth brushing, the clinical effect of tooth cleaning and the effect of dental flossing	1	Josephn John	Dr Syeda Tahira
2024-2 025		11	Communi ty Dentistry	1	3	Theory Lecture	Prevention of dental caries	Car01-C D-002	Identify the basic concept of importance of flouride in caries prevention	1	Josephn John	Dr Syeda Tahira
2024-2 025		11	Oral Pathology	1	1	Theory Lecture	Dentinogenesis imperfecta and Dentine Dysplasia	Car1-OP- 001	Compare clinical, radiographic, and histopathological features of Dentinogenesis imperfecta and Dentine Dysplasia	1	Contemporary Oral and Maxillofacial Pathology	Dr Sultan Muhammad Wahid

2024-2 025		11	Oral Pathology	1	2	Theory Lecture	Dental Caries	Car1-OP- 002	Define phenomena of Dental Caries	1	Contemporary Oral and Maxillofacial Pathology	Dr Sultan Muhammad Wahid
2024-2 025		11	Oral Pathology	1	3	Theory Lecture	Etiological factors of Dental Caries	Car1-OP- 002	Etiological factors and their effects in development of caries	1	Contemporary Oral and Maxillofacial Pathology	Dr Momin Ayub
2024-2 025		11	Oral Pathology	1	1	Practical	Identify bacteria in Dental Plaque	Car1-OP- 004	Identify bacteria in Dental Plaque Using Gram staining	1	Practice Manual of Oral Pathology	Dr. Abdul Razzaq / Dr Ummer Amin
2024-2 025		11	Oral Pathology	1	2	Practical	Identify bacteria in Dental Plaque	Car1-OP- 004	Identify bacteria in Dental Plaque Using Gram staining	1	Practice Manual of Oral Pathology	Dr. Abdul Razzaq / Dr Ummer Amin
2024-2 025		11	Biochemi stry	1	1	Theory (Lecture)	Carbohydrate Metabolism and Acidogenesis in relation to Dental Caries	Car1-B-0 02	Illustrate the glycolytic pathway in cariogenic bacteria and its role in acid production.	1	Lippincott 9th edition chapter 8	Dr Yusra
2024-2 025		11	Biochemi stry	1	2	Theory (Lecture)	Carbohydrate Metabolism and Acidogenesis in relation to Dental Caries	Car1-B-0 02	Explain the process of lactic acid fermentation, including the conversion of pyruvate into organic acids.	1	Lippincott 9th edition chapter 8	Dr Yusra

2024-2025		11	Biochemistry	1	3	Theory (Lecture)	Fluoride's Biochemical Mechanism	Car1-B-004	Discuss how fluoride disrupts bacterial glycolysis and acid production	1	Lippincott 9th edition chapter 8	Dr Yusra
2024-2025		11	Anatomy	1	1	Practical* (Module 1)	Lymphoid Organs	F-P-020	Identify under the light microscope and draw & label the Lymphoid organs	1	Medical Histology by Laiq Hussain, Ch 14	Dr. Sarwat
2024-2025		11	Physiology	1	1	Practical* (Module 1)	Interpretation of RBC count and hemoglobin	F-P-008	Interpret the RBC count, hemoglobin in the CBC report generated by automated Analyzer	1	Modular Integrated Curriculum Experimental Physiology Manual Vol 1- Prof. Dr. Zafar Ali Ch and Prof. Dr. Sadia Zafar	Dr. Waqas
2024-2025		11	Physiology	1	2	Practical* (Module 1)	Interpretation of concentration and hematocrit	F-P-008	Interpret the concentration and hematocrit in the CBC report generated by automated Analyzer	1	Modular Integrated Curriculum Experimental Physiology Manual Vol 1- Prof. Dr. Zafar Ali Ch and Prof. Dr. Sadia Zafar	Dr. Shaista

2024-2 025		11	Pathology	1	1	Practical* (Module 1)	Intracellular accumulations	F-Pa-006	Define accumulation and areas where they can accumulate	1	Robbins 10th Edition	Demonstrato r
2024-2 025		11	Oral Biology	1	1	Practical* (Module 1)	Oral Histology	F-OB-009	Draw & label the diagram of cytoskeletal elements.	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		11	Oral Biology	1	2	Practical* (Module 1)	Oral Histology	F-OB-009	Draw & label the diagram of cytoskeletal elements.	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh

Session	Section/ class code	Week No	subject	TOTAL HOURS in a week	No of lectures subject wise	Mode of Teaching	Topic	Code	Learning Objective	Hours Duration	Reference	Facilitator
2024-2 025		12	Operative Dentistry	1	1	Theory (Tutorial)	Pit and fissure caries	Car01-OD -001	describe appearance and progression of pit and fissure caries	1	Sturdevant Art and science 7th edition	Dr.Salman, Dr. Tabassum ,Dr. Nighat
2024-2 025		12	Operative Dentistry	1	2	Theory (Tutorial)	Smooth Surface caries	Car01-OD -002	describe appearance and progression of pit and fissure caries	1	Sturdevant Art and science 7th edition	Sturdevant Art and science 7th edition
2024-2 025		12	Oral Biology	1	1	Theory Lecture	Tooth Morphology	Car1-OB- 004	Describe and differentiate contact areas and height of contours including their location, size, function, age related changes, and clinical significance	1	Wheeler's Dental Anatomy, Physiology and Occlusion / "Dental Anatomy and Occlusion" by Ronald E. Jordan and Mark F. Fuller	Dr Raheela
2024-2 025		12	Oral Biology	1	2	Theory Lecture	Dentin	Car1-OB- 002	Describe the composition and structure of dentin	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Sana

2024-2 025		12	Oral Biology	1	3	Theory Lecture	Tooth Morphology	Car1-OB- 004	Describe the components, boundaries and functions of interproximal space and embrasures	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Raheela
2024-2 025		12	Oral Biology	1	4	Theory Lecture	Dentin	Car1-OB- 002	Identify the structure of dentin radiographically	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Operative Dentistry
2024-2 025		12	Oral Biology	1	5	Theory Lecture	Dentin	Car1-OB- 004	Describe the cellular contents of the dental pulp	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Sana
2024-2 025		12	Oral Biology	1	6	Theory Lecture	Dentin	Car1-OB- 004	Explain how developmental disturbances can affect Dentine formation (Dentinogenesis Imperfecta and dysplasias)	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Operative Dentistry

2024-2 025		12	Communit y Dentistry	1	1	Theory Lecture	Prevention of dental caries	Car01-CD -002	Describe preventive measures such as fluoride treatments, and improve oral hygiene practices and dietary modifications	1	Joseph John	Dr Syeda Tahira
2024-2 025		12	Communit y Dentistry	1	2	Theory Lecture	Prevention of dental caries	Car01-CD -002	Describe preventive measures such as fluoride treatments, and improve oral hygiene practices and dietary modifications	1	Josephn John	Dr Syeda Tahira
2024-2 025		12	Oral Patholog y	1	1	Theory Lecture	Role and Characteristics of Cariogenic bacteria	Car1-OP- 002	Role and Characteristics of Cariogenic bacteria	1	Contemporary Oral and Maxillofacial Pathology	Dr Sultan Muhammad Wahid
2024-2 025		12	Oral Patholog y	1	2	Theory Lecture	Plaque and Stages of Plaque Development	Car1-OP- 002	Define Plaque and Stages of Plaque Development	1	Contemporary Oral and Maxillofacial Pathology	Dr Momin Ayub
2024-2 025		12	Oral Patholog y	1	1	Practical	Pathological process in a carious ground section of Tooth slide	Car1-OP- 005	Pathological process in a carious ground section of Tooth slide	1	Practice Manual of Oral Pathology	Dr. Abdul Razzaq / Dr Ummer Amin

2024-2025		12	Oral Pathology	1	2	Practical	Pathological process in a carious ground section of Tooth slide	Car1-OP-005	Pathological process in a carious ground section of Tooth slide	1	Practice Manual of Oral Pathology	Dr. Abdul Razzaq / Dr Ummer Amin
2024-2025		12	Biochemistry	1	1	Theory (Lecture)	Cell	F-B-007	subcellular fractionation for separation of cell organelles	1	Cell notes	Dr Yusra
2024-2025		12	Biochemistry	1	2	Theory (Lecture)	Carbohydrate Metabolism and Acidogenesis in relation to Dental Caries	Car1-B-002	illustrate the glycolytic pathway in cariogenic bacteria and its role in acid production.	1	Lippincott 9th edition chapter 8	Dr Yusra
2024-2025		12	Pathology	1	1	Practical* (Module 1)	Pigmentation	F-Pa-007	Define pigmentation/shapes/areas of pigmentation	1	Robbins 10th Edition Chap 2	Demonstrator
2024-2025		12	Pathology	1	2	Practical* (Module 1)	Calcification	F-Pa-008	Dystrophic and metastatic calcification	1	Robbins 10th Edition Chap 2	Demonstrator
2024-2025		12	Anatomy	1	1	Practical* (Module 1)	Skin	F-A-021	Identify under a light microscope and draw & label thick and thin skin.	1	Medical Histology by Laiq Hussain Siddiqui, Ch 15	Dr. Sarwat

2024-2025		12	Anatomy	1	2	Practical* (Module 1)	Skin	F-A-021	Identify under a light microscope and draw & label thick and thin skin.	1	Medical Histology by Laiq Hussain Siddiqui, Ch 15	Dr. Sarwat
2024-2025		12	Anatomy	1	3	Practical* (Module 1)	Revision		Revision	1	Medical Histology by Laiq Hussain Siddiqui	Dr. Sarwat
2024-2025		12	Physiology	1	1	Practical* (Module 1)	ESR	F-P-009	Read and interpret ESR result on Westergren's tube and mention conditions in which ESR is increased or decreased physiologically and pathologically	1	Modular Integrated Curriculum Experimental Physiology Manual Vol 1- Prof. Dr. Zafar Ali Ch and Prof. Dr. Sadia Zafar	Dr. Tahir

2024-2 025		12	Oral Biology	1	1	Practical	Dentin	Car-OB-0 06	Draw & label primary, secondary & tertiary dentin, dental tubules in crown & root portions, dentin-pulp complex showing dental tubules, pre dentin & zones of dental pulp showing its different cells, odontoblast with different developmental shapes, peritubular and intra tubular dentin, inter globular dentin, dead tracts, and pulp stones	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		12	Oral Biology	1	2	Practical	Enamel	Car1-OB- 005	Identify enamel on X-rays	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Oral Pathology

2024-2 026		12	Oral Biology	1	3	Practical* (Module 1)	Dentin	Car1-OB- 006	Identify dentin genesis imperfect, identify dentin & pulp cavity on x-rays.	1	Ten Cate's Oral Histology: Development, Structure, and Function	Integrated with Oral Pathology
2024-2 027		12	Oral Biology	1	4	Practical* (Module 1)	Oral Histology	F-OB-011	Draw and label steps of collagen synthesis and assembly	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 028		12	Oral Biology	1	5	Practical* (Module 1)	Oral Histology	F-OB-011	Draw and label steps of collagen synthesis and assembly	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		12	Oral Biology	1	6	Practical* (Module 1)	Oral Histology	F-OB-011	Draw and label steps of collagen synthesis and assembly	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh
2024-2 025		12	Oral Biology	1	7	Practical* (Module 1)	Oral Histology	F-OB-011	Draw and label steps of collagen synthesis and assembly	1	Ten Cate's Oral Histology: Development, Structure, and Function	Dr Anushey / Dr Faseeh

2024-2025		12	Assessment	1	1	Assessment - Module Exam	1	Assessment Module 3 Exam
2024-2025		12	Assessment	1	2		1	
2024-2025		12	Assessment	1	3		1	
2024-2025		12	Assessment	1	4		1	

Operational Definitions

Traditional & Innovative Teaching Methodologies

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

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

AVICENNA MEDICAL & DENTAL COLLEGE

Internal Assessment Policy

Introduction

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

Internal Assessment Components

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

1. Attendance

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

2. Continuous Assessment

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

3. Grand Test and Module Exams

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

4. Attitude and Behavior

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

5. Logbook and Portfolio

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

Assessment Criteria and Weighting

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

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

Assessment Procedures

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

Appeal Process

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

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

Attendance Requirement & Internal Assessment Criteria

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

Assessment Guidelines

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

Assessment drives learning! – George E. Millar

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

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

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

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

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

Assessment Schedule

Avicenna Dental College 1st Year BDS Integrated (D24) - Session 2024-2025					
WEEK	DATE	DAY	SUBJECT	TEST	TOPIC / CODE
Commencement of Classes: 14th April 2025 Monday					
COMMENCEMENT OF MODULE - 1					
1	14th & 15th April Orientation Day				
3	Labour day 1st May 2025, Thursday				
3	2nd May 2025	Friday	(Oral Biology) (Pathology) (Behavi.Science) (Anatomy)	GRAND TEST - 1	Oral Biology: F-OB-001 / F-OB-001 Pathology Cell Injury F-Pa 001 / F-Pa 002 / F-Pa 003 / F-Pa 004 / F-Pa 005 / F-Pa 006 / F-Pa 007 / F-Pa-008 Behavi.Science: F-Bhs-001 / F-Bhs-002 / F-Bhs-003 / F-Bhs-004 / F-Bhs-005 Anatomy: F-A-001 / F-A-002 / F-A-006 / CF1-A-001 / CF1-A-002
4	Day off due to precautionary security measures				
5	16th May 2025	Friday	(Biochemistry) (Physiology) (Pathology) (Pharmacology)	GRAND TEST - 2	Biochemistry: F-B-001 / F-B-002 / 003 / 007 / 008 / 005 / 006 Physiology: F-P-001 / F-P-002 / F-P-003 / F-P-004 / F-P-005 / F-P-006 (Plasma proteins only) Pathology: F-Pa 010 / F-Pa 011 / F-Pa 012 Pharmacology:

					F-PH-001& 002 / F-PH-003& 005 / F-PH-004& 007 / F-PH-008& 006 Pharmacokinetics and pharmacodynamics
6	23rd May 2025	Friday	(Anatomy) (Biochemistry) (Oral Biology) (Community Dentistry)	GRAND TEST - 3	Anatomy: F-A-003 / F-A-004 / F-A-005 / F-A-006 / F-A-007 / CF1-A-003 Biochemistry: Insert here F-B-005 / F-B-006 F-B-009,010,012 Oral Biology: F-OB-002 / F-OB-006 Community Dentistry: Car1-CD-001 / Car1-CD-002 / Car1-CD-003
7	<u>Youme Takbeer</u> 28th May (Wednesday)				
COMMENCEMENT OF MODULE - 2					
8	2nd June 2025	Monday	Anatomy Physiology Biochemistry Oral Biology & Tooth Morphology General Pathology & Microbiology Pharmacology Community Dentistry	Module - 1 Exam	Complete Module - 1 Syllabus
<u>Eid-ul-Adha</u> 6th / 7th / 8th & 9th June 2025					
9	13th June 2025	Friday	Anatomy Oral Biology & Tooth Morphology General Pathology & Microbiology	Module - 2 Exam	Complete Module - 2 Syllabus

COMMENCEMENT OF MODULE - 3					
12	4th July 2025	Friday	Oral Biology & Tooth Morphology Biochemistry Community Dentistry Oral Pathology Operative Dentistry	Module - 3 Exam	Complete Module - 3 Syllabus
Ashura 5th & 6th July 2025					
COMMENCEMENT OF MODULE - 4					
14	14th July 2025	Monday	Anatomy Physiology Biochemistry Oral Biology & Tooth Morphology	Block 1 Exam (Theory)	Complete Block 1 Syllabus
14	15th July 2025	Tuesday	General Pathology & Microbiology Pharmacology Community Dentistry Oral Pathology Operative Dentistry	Block 1 Exam (Practical)	Complete Block 1 Syllabus
Summer Break 21st July 2025 to 17th August					
16	29th August 2025	Friday	Oral Biology & Tooth Morphology Anatomy Biochemistry General Pathology & Microbiology Pharmacology Physiology	Module - 4 Exam	Complete Module - 4 Syllabus
COMMENCEMENT OF MODULE - 5					
22	10th October 2025	Friday	Physiology Anatomy Biochemistry Pharmacology General Pathology & Microbiology	Module - 5 Exam	Complete Module - 5 Syllabus

COMMENCEMENT OF MODULE - 6					
24	24th October 2025	Friday	Oral Biology & Tooth Morphology Community Dentistry Dental Radiology (Oral Diagnosis/Oral Medicine) Periodontology General Pathology & Microbiology	Module - 6 Exam	Complete Module - 6 Syllabus
COMMENCEMENT OF MODULE - 7					
25	27th October 2025	Monday	Oral Biology & Tooth Morphology Anatomy Biochemistry General Pathology & Microbiology Pharmacology Physiology	Block 2 Exam (Theory)	Complete Block 2 Syllabus
25	28th October 2025	Tuesday	Community Dentistry Dental Radiology (Oral Diagnosis/Oral Medicine) Periodontology	Block 2 Exam (Practical)	Complete Block 2 Syllabus
29	28th November 2025	Friday	Anatomy Biochemistry Physiology General Pathology & Microbiology Pharmacology	Module - 7 Exam	Complete Module - 7 Syllabus
COMMENCEMENT OF MODULE - 8					
Winter Break / Quaid E Azam Day 22nd To 26th December 2025					

33	2nd January 2025	Friday	Anatomy Oral Biology & Tooth Morphology Physiology Biochemistry Pharmacology General Pathology & Microbiology Oral Pathology Community Dentistry	Module - 8 Exam	Complete Module - 8 Syllabus
COMMENCEMENT OF MODULE - 9					
35	16th January 2025	Friday	Oral Biology & Tooth Morphology	Module - 9 Exam	Complete Module - 9 Syllabus
36	19th January 2025	Monday	Anatomy Biochemistry Physiology General Pathology & Microbiology	Block 3 Exam (Theory)	Complete Block 3 Syllabus
	20th January 2025	Tuesday	Pharmacology Oral Biology & Tooth Morphology Oral Pathology Community Dentistry	Block 3 Exam (Practical)	Complete Block 3 Syllabus
	23rd January 2025	Friday	Islamiat / Pak. Study	Send Up Islamiat / Pak. Study	Complete Syllabus
	26th January 2025	Monday	Anatomy Physiology Biochemistry Oral Biology & Tooth Morphology General Pathology & Microbiology Pharmacology Community Dentistry Oral Pathology Operative Dentistry	SENDUP Block 1	Block 1 Complete Syllabus

	28th January 2025	Wednesday	Anatomy Physiology Biochemistry Oral Biology & Tooth Morphology General Pathology & Microbiology Pharmacology Community Dentistry Oral Pathology Operative Dentistry	Send Up Block 1 (Practical)	Block 1 Complete Syllabus
	30th January 2025	Friday	Oral Biology & Tooth Morphology Anatomy Biochemistry General Pathology & Microbiology Pharmacology Physiology Community Dentistry Dental Radiology (Oral Diagnosis/Oral Medicine) Periodontology	SEND UP Block 2	Block 2 Complete Syllabus
	2nd February 2025	Monday	Oral Biology & Tooth Morphology Anatomy Biochemistry General Pathology & Microbiology Pharmacology Physiology Community Dentistry Dental Radiology (Oral Diagnosis/Oral Medicine) Periodontology	Send Up Block 2 (Practical)	Block 2 Complete Syllabus
	4th February 2025	Wednesday	Anatomy Biochemistry Physiology General Pathology & Microbiology Pharmacology Oral Biology & Tooth	Send Up Block 3	Block 3 Complete Syllabus

			Morphology Oral Pathology Community Dentistry		
	6th February 2025	Friday	Anatomy Biochemistry Physiology General Pathology & Microbiology Pharmacology Oral Biology & Tooth Morphology Oral Pathology Community Dentistry	Send Up Block 3 (Practical)	Block 3 Complete Syllabus

Table of Specification

BDS Integrated Curriculum 2K25, 1st Professional Exam							
BLOCK 1 - ASSESSMENT PARAMETERS AND DIVISION OF MARKS							
Subject	Written Exam			Oral/Practical Exam			
	MCQ (1 mark and 1 minute each)	SEQ (4 marks each and 11 minutes for each SEQ)	Marks	OSPE (9 Marks Each and 6 minutes each)	OSCE (9 Marks Each and 6 minutes each)	OSVE (6 Marks Each and 6 minutes each)	Marks
Anatomy	13	2	21	2	0	1	24
Physiology	12	1	16	1	0	1	15
Biochemistry	9	1	13	0	0	1	6
Oral Biology	21	3	33	3	0	1	33
General Pathology & Microbiology	12	1	16	1	0	1	15
Pharmacology	7	1	11	0	0	1	6
Community Dentistry and Public Health	3	0	3	0	0	1	6
Oral Pathology / Operative Dentistry	3	1	7	1	0	1	15
Total Questions	80	10		8	0	8	
Net Total	80x1=80	10x4=40	120	8x9=72	0	8x6=48	120
Internal Assessment Marks*	30			30			
Grand Total	150			150			

Table of Specification

Block 1 Internal Assessment for Theory Examination – 30 Marks		
Scoring Parameter	Percentage Allocation	Marks Allocation
Attendance in lectures*	20%	6
Block Examination (Theory)	50%	15
Continuous Assessment (Class Tests, Mock Exam, Assignments, Attitudes)	30%	9
Total	100%	30
* Attendance Marks will be according to the following criteria: 1. if 85 % = Eligible 2. if $> 90\% \leq 93\%$ = 3 marks 3. if $> 93\% \leq 95\%$ = 5 marks 3. if $> 95\%$ = 6 marks		
Block 1 Internal Assessment for Practical/ Tutorials Examination – 30 Marks		
Scoring Parameter	Percentage Allocation	Marks Allocation
Attendance in Practicals/ Tutorials*	20%	6
Block Examination (Practical/ Oral Examination)	50%	15
Continuous Assessment/ Log Books / Practical Notebooks/ Assignments / Attitudes	30%	9
Total	100%	30
* Attendance Marks will be according to the following criteria 1. if 85 % = Eligible 2. if $> 90\% \leq 93\%$ = 3 marks 3. if $> 93\% \leq 95\%$ = 5 marks 3. if $> 95\%$ = 6 marks		

Recommended Books & Reading Resources

Block 1: Learning Resources

Subject	Learning Resources
Oral Biology	<ol style="list-style-type: none">1. Nanci, A. (2024). Ten Cate's Oral Histology, Development, Structure, and Function (10th ed.). Elsevier Health Sciences.2. Berkovitz, B. K., Holland, G. R., & Moxham, B. J. (2017). Oral Anatomy, Histology, and Embryology (5th ed.). Elsevier Health Sciences.3. Kumar, G. S. (2023). Orban's Oral Histology & Embryology (13th ed.). Elsevier Health Sciences.4. Fuller, J. L. (4th ed.). Concise Dental Anatomy & Morphology.5. Nelson, S. J. (2015). Wheeler's Dental Anatomy, Physiology and Occlusion (1st SAE).
General Anatomy, Histology & Embryology	<ol style="list-style-type: none">1. Junqueira's Basic Histology: Text and Atlas (17th ed.)2. Wheater's Functional Histology3. Siddiqui, L. H. Medical Histology: Text and Atlas4. General Anatomy by Laiq Hussain Siddiqui5. Langman's Medical Embryology (15th ed.)6. The Developing Human (10th ed.) by Moore et al.
Physiology	<ol style="list-style-type: none">1. Guyton & Hall. Textbook of Medical Physiology (14th ed.).
Biochemistry	<ol style="list-style-type: none">1. Harper's Illustrated Biochemistry (32nd ed.) by Rodwell et al.2. Lippincott Illustrated Reviews: Biochemistry (8th ed.) by Abali et al.
Pathology & Microbiology	<ol style="list-style-type: none">1. Robbins & Cotran Pathologic Basis of Disease2. Review of Medical Microbiology and Immunology by Levinson3. Textbook of Pathology by Walter & Israel
Pharmacology	<ol style="list-style-type: none">1. Katzung & Trevor's Pharmacology Examination & Board Review (12th ed.)2. Lippincott Illustrated Reviews: Pharmacology (7th ed.)

Community Oral Health	<ol style="list-style-type: none"> 1. Textbook of Preventive and Community Dentistry by S.S. Hiremath 2. Community Oral Health by Cynthia Pine & Rebecca Harris
Oral Pathology	<ol style="list-style-type: none"> 1. Contemporary Oral and Maxillofacial Pathology by Wysocki, Sapp & Eversole 2. Cawson's Essentials of Oral Pathology & Oral Medicine
Operative Dentistry	<ol style="list-style-type: none"> 1. Sturdevant's Art and Science of Operative Dentistry 2. Summitt's Fundamentals of Operative Dentistry 3. Dental Caries: The Disease and Its Clinical Management by Fejerskov & Kidd
Behavioral Sciences	<ol style="list-style-type: none"> 1. Hand book of Behavioral sciences, by MH Rana, 3rd ed. 2. Humayun A., Herbert M. (2010). Integrating behavioural sciences in healthcare. Islamabad: HEC.

About Avicenna Medical College

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

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

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

Infrastructure Resources

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

6.	Phantom Labs	Specialized Phantom Labs are available for advanced simulation and practice in dental procedures. These labs provide high-fidelity models and simulators that help students refine their clinical skills in a controlled environment.
7.	Mess & Cafeteria	<p>The College has its own on-campus Mess which caters to 600 students. All food items including dairy, meat, and vegetables are sourced organically and bought in at the time of cooking, in order to ensure that students get freshly cooked meals at all times</p> <p>Students form the Mess committee which decides the mess menu in consultation with other students. The Mess offers fresh food to all residents three times a day. However, day scholars are also welcome to use the Mess facility at a reasonable cost.</p> <p>Two 50- inch LCD screens provide students an opportunity to get entertained during their meal times.</p>
8.	Gymnasium & Sports	<p>We recognize sports as a pivotal key to shape and maintain students' personality and good health. The College has indoor and outdoor sports facilities to help enhance the cognition and capacity to learn. There is a proper sports section for various games like basketball, football, volleyball, and cricket.</p> <p>The gym itself is fully equipped with modern machinery both for students and faculty.</p>
9.	IT Lab	The IT Lab is equipped with modern computers and software available for students who need access for academic purposes.
10	Auditorium	The college has a spacious auditorium equipped with advanced audio-visual facilities. It is used for large-scale lectures, guest presentations, and academic conferences, providing a venue for students to engage with experts and participate in important educational events.
11	Examination Halls	The college provides dedicated examination halls that are designed to accommodate a large number of students comfortably. These halls are equipped with necessary facilities to ensure a smooth and secure examination process, including proper seating arrangements, monitoring systems, and accessibility features.

7-Star Doctor Competencies (PMDC)

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

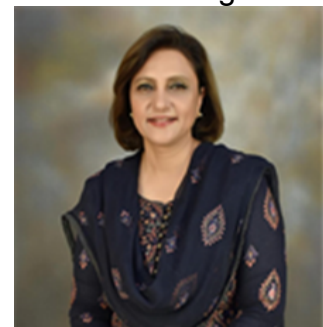
1. Skillful / Care Provider.
2. Knowledgeable / Decision Maker.
3. Community Health Promoter / Community Leader.
4. Critical Thinker / Communicator
5. Professional / Lifelong learner.
6. Scholar / Researcher
7. Leader/ Role Model / Manager

Message from the Principal

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

Principal

Prof. Dr. Gulfreem 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.