



STUDY GUIDE

Program:	Bachelors of Dental Surgery (BDS)
Year:	4 th Professional Year
Batch No:	D-22
Session:	2025-2026



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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 Dental Education and the respective subject departments, ensuring a harmonized and in-depth learning experience tailored to your academic and professional growth.

List of Contributors:

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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.

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.

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 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

It is a matter of immense honor and privilege as the first Principal of Avicenna Dental College to welcome you to one of the finest dental institutes in the private sector of Pakistan. Avicenna Dental College is a private dental college, which aims to provide the finest dental education to dental undergraduate students in accordance with the latest trends in Dental Education, and to develop them to practice dentistry in the 21st century.

While educating dental students to become licensed, empathetic and competent professionals, Avicenna Dental College endeavors to educate students in a supportive environment in which they provide dental care for a diverse populace. In the times to come, we wish to transform our graduates into unfeigned teachers, researchers and consultants by starting post-graduation programs as well.

Avicenna Dental College aims to achieve an enterprising curriculum integrating the basic sciences with clinical experience while utilizing modern technological modalities. In addition to the production of outstanding oral health professionals, we at Avicenna Dental College recognize our responsibility as a private dental institution to the citizens of the country in making the provision of oral health care available to those who are deprived of ready access.

I feel proud to lead this dental establishment such an inspiring time and hope all of you at Avicenna Dental College will share this pride and play your respective roles in materializing the dream of making this institution the premier dental educator in Pakistan



Principal,
Prof. Dr. Sohail Abbas Khan
Avicenna Dental College

Message from the Vice-Principal

It is a matter of great privilege to be associated with Avicenna Dental College. Our institution boasts of renowned, well-qualified and devoted faculty members in each and every specialty of dentistry. We are looking forward to diligently equipping our undergraduates with comprehensive artistic and ethical oral health care.

Our goal is to inspire a lifelong passion for learning and innovation in our students, ensuring they are well-prepared to meet the evolving challenges of the dental profession. I look forward to collaborating with our students on this transformative journey, guiding them toward achieving excellence in oral health care



Vice Principal,
Prof. Dr. Usman Muneer
Avicenna Dental College

About Avicenna Dental College

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

Avicenna Dental College runs under the umbrella of Abdul Waheed Trust. Abdul Waheed 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 2018, Avicenna Dental College was recognized by the Pakistan Medical & Dental Council. With the advent of advanced tools and technology in every field of health science, dentistry today has shot up to the greater end of the gamut with superior choice and promises in dental therapy in the very vicinity of the common man. ADC promises to be one such neighborhood.

Infrastructure Resources

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.
7. **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.
8. **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.

9. **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.
10. **IT Lab:** The IT Lab is equipped with modern computers and software available for students who need access for academic purposes.
11. **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.
12. **Examination Halls:** The college provides dedicated examination halls that are designed to accommodate a large number of students comfortably. These halls are equipped with necessary facilities to ensure a smooth and secure examination process, including proper seating arrangements, monitoring systems, and accessibility features.

Operational Definitions

Sr.	Pedagogical Methodologies	Description
1.	Interactive 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. However, nowadays interactive components are being incorporated to aid two-way interaction between the presenter and the participants. The methods include brainstorming, buzz group, simulation, role plays and clinical cases.
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 & Reflective Writing	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	Clinical Teaching	Teaching and learning that occurs with actual patient as the focus. It occurs in the dental OPDS / Clinics, skilled / simulation labs, and for OMFS, General Surgery & General Medicine in the wards and operation theatre.
14.	Seminar	A seminar is an academic or professional setting where individuals discuss, present, and explore specific topics, often with expert guidance
15	Self-Directed Learning	Self-directed learning (SDL) is a learning approach in which individuals take responsibility for planning, managing, and evaluating their own learning. Instead of relying entirely on a teacher, learners identify what they need to learn, set goals, choose learning resources and strategies, monitor their progress, and assess the outcomes.

Resource Books

Avicenna Dental College is committed to providing students with high-quality learning resources that support the achievement of the course learning outcomes.

The resources listed in this study guide are categorized into two sections:

- **Essential Learning Resources:** These are the primary textbooks and core learning materials that students are expected to use throughout the course. They form the foundation of the curriculum and should be considered the principal source of study.
- **Additional Learning Resources:** These include recommended reference textbooks, review books, peer-reviewed journal articles, clinical guidelines, and other evidence-based educational materials. These resources are intended to supplement the essential learning resources, promote deeper understanding, encourage self-directed learning, and keep students informed of current developments in the discipline.

Students are encouraged to make effective use of both essential and additional learning resources to maximize their academic performance and professional development.

Sr.	Subject	Essential Learning Resources	Additional Learning Resources
1	Anatomy	• General Anatomy by Laiq Hussain Siddiqui 7th Edition • Gray's Anatomy for Students - 5th Ed. (2023) • Wheater's Functional Histology • Langman's Medical Embryology (15th ed.) • Snell's Clinical Neuroanatomy 9th Edition	• Clinically Oriented Anatomy (K.L. Moore) - 9th Ed. (2022) • Junqueira's Basic Histology: Text and Atlas (17th ed.)T • The Developing Human (10th ed.) by Moore et al. • Snell's Clinical Anatomy by Regions 11th Edition • Medical Histology Text and Atlas by Laiq Hussan Siddique 9th Edition • Siddiqui, L. H. Medical Histology: Text and Atlas
2	Physiology	• Guyton & Hall Textbook of Medical Physiology - 15th Ed. (2024) • Ganong's Review of Medical Physiology - 27th Ed. (2023) • Essential Physiology for Dental Students (Essentials (Dentistry) 1st Edition by Kamran Ali (Editor), Elizabeth Prabhakar (Editor)	• Sherwood Physiology 9th edition

3	Biochemistry	• Harper's Illustrated Biochemistry - 32nd Ed. (2021) • Lippincott Illustrated Reviews: Biochemistry - 9th Ed. (2024)	• Lippincott Cell and Molecular Biochemistry (3rd Edition, 2023) • Mushtaq Biochemistry 9th Edition. • Textbook of Medical Biochemistry by Dr. M.N. Chatterjea. (9th Edition, 2023)
4	Oral Biology & Tooth Morphology	• Ten Cate's Oral Histology, Development, Structure, and Function - 10th Ed. (2023) • Fuller, J. L. (4th ed.). Concise Dental Anatomy & Morphology.	• Wheeler's Dental Anatomy, Physiology & Occlusion 12th Ed. (2025) • Berkovitz, B. K., Holland, G. R., & Moxham, B. J. (2017). Oral Anatomy, Histology, and Embryology (5th ed.). Elsevier Health Sciences. • Kumar, G. S. (2023). Orban's Oral Histology & Embryology (13th ed.). Elsevier Health Sciences. • Orban's Oral Histology and Embryology (16th Edition)
5	General Pathology & Microbiology	• Robbins & Cotran Pathologic Basis of Disease 11th Ed. (2022) • Robbins Basic Pathology 11th Ed. (2023) • Review of Medical Microbiology and Immunology by Levinson 9th edition	• Microbiology and Immunology by Jawetz • General pathology by walter and Israel churchill Livingstone
6	Community & Preventive Dentistry / Dental Public Health	• Textbook of Preventive and Community Dentistry by S.S. Hiremath	• Essentials of Preventive & Community Dentistry (Soben Peter)7th Ed. (2023) • Community Oral Health by Cynthia Pine & Rebecca Harris • Burt & Eklund's Dentistry, Dental Practice and the Community 7th Ed. (2021) • Textbook of Preventive and Community Dentistry by Joseph Jones
7	Pharmacology & Therapeutics	• Katzung's Basic & Clinical Pharmacology - 16th Ed. (2023) • Lippincott Illustrated Reviews: Pharmacology - 8th Ed. (2023)	• Essential of medical pharmacology K.D. Tripathi (9th Edition) • Goodman n Gillmans the pharmacological basis of therapeutics

		• Katzung & Trevor's Pharmacology Examination & Board Review (12th ed.)- Mini	
8	Science of Dental Materials	• Phillips' Science of Dental Materials (Anusavice et al.) 14th Ed. (2024) • McCabe Applied Dental Materials (15th Edition) • Craig's Restorative Dental Materials - 15th Ed. (2024)	• Introduction to Dental Materials by Richard van Noort and Michele E. Barbour • Materials Science for Dentistry by B.W.Darvell
9	Oral Pathology	• Contemporary Oral and Maxillofacial Pathology by Wysocki, Sapp & Eversole • Soames' & Southam's Oral Pathology	• Neville • Cawson's Essentials of Oral Pathology and Oral Medicine
10	Oral Medicine / Diagnosis / Dental Radiology	• Tyldesley's Oral Medicine (5th Edition) • Burket's Oral Medicine - 13th Ed. (2021) • White & Pharoah's Oral Radiology - 9th Ed. (2024) • K. Horner, K. A. Eaton's Selection Criteria for Dental Radiography (3rd Edition)	• Whaites Essentials of dental radiography and radiology 7th Edition • Scully Medical Problems in Dentistry 7th Edition • Oral and Maxillofacial Medicine, The basis of diagnosis and treatment 3rd Edition • Medical Problems in dentistry by Cawson.
11	Periodontology	• Newman and Carranza's Clinical Periodontology - 14th Ed. (2023)	• Lindhe's Clinical Periodontology and Implant Dentistry Niklaus P. Lang & Tord Berglundh (Editors); originally by Jan Lindhe, 7th Edition (2022) • Clinical Periodontology (Glickman's Clinical Periodontology) Irving Glickman, 7th Edition (1984) • Manson's Clinical Periodontology B. M. Eley, M. Soory & J. D. Manson, 6th Edition (2010) • Colour Atlas of Clinical and Surgical Periodontology John D. Strahan & Ian M. Waite, 2nd Edition (1990)

			• Fundamentals of Periodontics Thomas G. Wilson Jr. & Kenneth S. Kornman, 2nd Edition (2003) • Periodontology and Periodontics: Modern Theory and Practice Sigurd P. Ramfjord & Major M. Ash Jr, 2nd Edition (1989)
12	Operative Dentistry	• Sturdevant's Art & Science of Operative Dentistry 8th Ed. (2025) • Summitt's Fundamentals of Operative Dentistry 5th Ed. (2021) • Dental Caries: The Disease and Its Clinical Management by Fejerskov & Kidd • Smith, planning and making crown and bridges, 7th edition • Grossman Endodontic Practice, 13th edition • M.A Marzouk	• Summit's Fundamentals of Operative dentistry • Pickards guide to minimally invasive operative Dentistry
13	Prosthodontics	• Prosthodontics treatment for edentulous patient Zarb Hobkrik 13th Edition. • McCracken's Removable Partial Prosthodontics 14th Ed. (2023).	• Boucher's Prosthodontic Treatment for Edentulous Patients (12th Edition). • Stewart' clinical removable partial prosthodontics 4th Edition • Clinical Dental Prosthetics by Fenn 3rd Edition • Complete Denture Prosthodontics by Sheldon Winkler 3rd Edition
14	Orthodontics	• Proffit's Contemporary Orthodontics - 7th Ed. (2023) • An Introduction to Orthodontics - Laura Mitchell-5th Edition	• A Textbook of Orthodontics by Houston, Stephens, and Tulley - second edition • Moyers' Handbook of Orthodontics by Robert E. Moyers is-4th edition
15	Oral & Maxillofacial Surgery	• Contemporary Oral & Maxillofacial Surgery (Hupp) 7th Ed. (2024) • Malamed's Handbook of Local Anesthesia 7th Ed. (2019)	• Killey's Fractures of the Mandible • Killey's Fractures of the Middle Third of the Facial Skeleton

16	General Medicine	Davidson's Principles & Practice of Medicine - 24th Ed. (2024)	- Macleods clinical examination 15th edition - Oxford Handbook of clinical medicine 11th edition
17	General Surgery	Bailey & Love's Short Practice of Surgery - 28th Ed. (2022)	Norman Browse 6th Edition
18	Paediatric Dentistry	Welbury's Paediatric Dentistry	McDonald & Avery's Dentistry for the Child and Adolescent - 11th Ed. (2021)
19	Behavioral Sciences	Hand book of Behavioral sciences, by MH Rana, 3rd ed.	Humayun A., Herbert M. (2010). Integrating behavioural sciences in healthcare. Islamabad: HEC.
20	PRISME (General Education)	- Medical Ethics: A Very Short Introduction – Tony Hope - Research Methodology: Methods and Techniques – C.R. Kothari & Gaurav Garg - 4th Ed. (2019) - Management Principles for Health Professionals – Joan Gratto Liebler & Charles McConnell - 7th Ed. - Skills for Communicating with Patients – Jonathan Silverman, Suzanne Kurtz & Juliet Draper - 4th Ed.	- Introduction to Health Informatics – Enrico Coiera - 4th Ed. - Evidence-Based Dentistry – Derek Richards & Laura Mitchell - 2nd Ed. - Leadership Skills for Dental Professionals – Raman Bedi - 1st Ed. (2022)
21	Islamiyat	Standard Islamiyat (Compulsory) for B.A, B.Sc., M.A, M.Sc., MBBS by Prof. M.Sharif	- Islahi Ilmi Islamiyat (Compulsory) for B.A. B.Sc., & equivalent. - Islamiyat by Farkhana Noor
22	Pakistan Studies	Pakistan studies (Compulsory) for B.A. B.Sc., B.Com., Medical/Engineering by Prof. Shah Jahan Kahlun	- Pakistan History, Culture & Government by Nigel Smith - Environment of Pakistan by Huma Naz Sethi

Curriculum Framework (Scheme of Study - Traditional Curriculum)

The curriculum framework for the Bachelor of Dental Surgery (BDS) program at Avicenna Dental College for batch D18 (2018-2019) up to batch D23 (2023-2024) is organized in accordance with the Traditional Discipline-Based System.

It is based on the curriculum, syllabus, and statutes prescribed by the University of Health Sciences (UHS), the affiliating university, and is implemented in strict adherence to the hour allocation and guidelines established by the Pakistan Medical and Dental Council (PMDC).

At Avicenna Dental College, the academic year is divided into three terms: Early Session, Mid Session, and Late Session, each spanning approximately 12 to 13 weeks. Summative Session Examinations are conducted at the conclusion of each term to evaluate student learning outcomes.

This framework guarantees a progressive and comprehensive learning experience for dental students, facilitating the sequential acquisition of theoretical knowledge and practical skills in an integrated and effective manner. Notably, this framework also facilitates a gradual transition into the clinical years, where students apply their acquired knowledge and skills in hands-on patient care.

Curriculum Framework - BDS (Traditional / Discipline-based System)

Professional Year	Early Session (1st Term)	Mid Session (2nd Term)	Late Session (3rd Term)
1st Year BDS	1. Anatomy (Theory & Practical) 2. Biochemistry (Theory & Practical) 3. Physiology (Theory & Practical) 4. Oral Biology & Tooth Morphology (Theory & Practical) 5. Islamiat & Pakistan Studies (Theory)		
2nd Year BDS	1. General Pharmacology (Theory & Practical) 2. General Pathology & Microbiology (Theory & Practical) 3. Community Dentistry (Theory & Practical) 4. Science of Dental Materials (Theory & Practical) 5. Behavioural Sciences (Theory & Practical) 6. Operative Dentistry (Preclinical) 7. Prosthodontics (Preclinical)		
3rd Year BDS	1. General Medicine (Theory & Clinical) 2. General Surgery (Theory & Clinical) 3. Oral Pathology (Theory & Practical) 4. Periodontology (Theory & Clinical) 5. Oral Medicine (Theory & Clinical) 6. Operative Dentistry (Clinical) 7. Prosthodontics (Clinical) 8. Oral & Maxillofacial Surgery (Clinical)		
4th Year BDS	1. Orthodontics (Theory & Clinical) 2. Operative Dentistry, Endodontics & Paediatric Dentistry (Theory & Clinical) 3. Prosthodontics (Theory & Clinical) 4. Oral & Maxillofacial Surgery (Theory & Clinical)		

(Scheme of Study - Traditional Curriculum)

Basic Dental Sciences / Preclinical Year		Clinical Dental Sciences / Clinical Years	
1 st Professional Year	2 nd Professional Year	3 rd Professional Year	4 th Professional Year
Anatomy 300 Hours	General Pathology 220 Hours	General Medicine 180 Hours	Operative Dentistry 250 Hours
Physiology 300 Hours	Pharmacology 220 Hours	General Surgery 170 Hours	Prosthodontics 250 Hours
Biochemistry 180 Hours	Science of Dental Materials 300 Hours	Oral Pathology 180 Hours	Orthodontics 250 Hours
Oral biology & Tooth Morphology 300 Hours	Community Dentistry 200 Hours	Oral Medicine 150 Hours	Oral & Maxillofacial Surgery 250 Hours
General Education 120 Hours (Islamiat, Pakistan Studies Behavioural Sciences, Research, English, Arts & Humanities)	Pre-clinical Operative Dentistry 80 Hours	Periodontology 180 Hours	Paediatric Dentistry 100 Hours
	Pre-clinical Prosthodontics 80 Hours	Clinical Operative 80 Hours	General Education 100 Hours (Research, English, Arts & Humanities, ICT)
	General Education 100 Hours (Behavioural Sciences, Research, English, Arts & Humanities, ICT)	Clinical Prosthodontics 80 Hours	
		Clinical Oral & Maxillofacial Surgery 80 Hours	
		General Education 100 Hours (Research, English, Arts & Humanities, ICT)	
1200 hours	1200 hours	1200 hours	1200 hours

Course Rationale

Advanced clinical training, multidisciplinary patient care, and treatment planning across specialties. Students refine clinical skills and prepare for independent practice.

- **Orthodontics:** Focuses on diagnosis and treatment of malocclusion, space maintenance, and interceptive therapy. Builds early competence in orthodontic assessment.
- **Operative Dentistry, Endodontics & Paediatric Dentistry:** Focuses on Advanced restoration techniques and aesthetics; Root canal therapy and pulp preservation and Comprehensive child-focused oral care. Additionally prepares students for diverse clinical challenges across age groups.
- **Prosthodontics:** Advances understanding in removable prostheses, crowns, bridges, and maxillofacial prosthetics. Enhances precision and patient satisfaction.
- **Oral & Maxillofacial Surgery:** Emphasizes complex extractions, trauma, cyst management, and surgical planning. Trains students in emergency care and advanced surgical techniques.

Course Contents			
Subject	Early Session (1st Term)	Mid Session (2nd Term)	Late Session (3rd Term)
Orthodontics	Growth and development Classification of malocclusion Diagnosis in orthodontics biomechanics	Treatment of class I malocclusion Treatment of class II malocclusion Treatment of class III malocclusion	Aligner therapy Adult orthodontics Adjunctive orthodontics Surgical orthodontics and Syndromes
Operative Dentistry, Endodontics & Paediatric Dentistry	Principles of cavity design materials and instruments of operative dentistry and endodontics. Dental Caries, contacts and contours, pin retained restorations, composite, sterilization Endodontic diagnosis, disease of pulp, Access cavity preparation, instrumentation and obturation, intracanal irrigants and medicaments	Complex restorations. Glassionomer cement Class 1,2,3,4,5 restorations for Composite Color match and shade guide Principles of paedodontics Primary and permanent Trauma Dental anomalies and stainless steel crown	Principles, indications, contraindications and failures of Crown and bridge
Prosthodontics	Effect of aging and nutrition in Complete denture Applied anatomy of maxilla and mandible Hx, Examination, diagnosis and Tx plan of edentulous patient Impression materials and techniques Maxillo-mandibular relationship (orientation, vertical, horizontal) Selection of artificial teeth and articulators Treatment planning related to different oral conditions	Biometric guidelines Occlusion and occlusal schemes Try in and insertion of CD Speech considerations Denture base materials Introduction and biomechanics of RPD Components of RPD; Major and minor connectors, Rest and rest seats, Direct and indirect retainers Surveying Guideplanes and denture base Precision attachment Atypical dentures Support for DEB Mouth preparation and Principles of partial denture design	Interim denture, Immediate denture, overdenture, copy denture, SCD, combination syndrome Neutral zone Denture liners, conditioners and cleansers Maxillofacial prosthodontics Implant prosthodontics
Oral & Maxillofacial Surgery	Principals of surgery and exodontia Maxillofacial trauma	Infections and management of oral pathological lesions	Orthognathic and preprosthetic surgery Implants in surgery Mx of pts undergoing Chemo and Radiotherapy TMJ disorders

Faculty Members

Avicenna Dental College is committed to providing students with a supportive, accessible, and student-centered learning environment. To facilitate effective communication and academic support, the contact details of the departmental faculty members are provided in this study guide.

Students are encouraged to communicate with faculty members through their official email addresses for academic guidance, course-related queries, feedback, research opportunities, mentorship, appointment requests, or any other academic concerns. All correspondence should be professional, respectful, and sent using appropriate email etiquette.

The table below provides the names, designations, and official email addresses of the departmental faculty members for the Academic Year **2025–2026**.

Sr.	Department	Course Faculty
1	Anatomy	• Prof. Dr. Razia (Head of Department) (dr.raziap@gmail.com) • Dr. Ahmed (ahmadiqbalavicennamch.edu.pk)
2	Physiology	• Prof. Dr. Sadia (Head of Department) (sadia.farqaleet@gmail.com) • Dr. Beenish Sohail (Assistant Professor) (drbeenish.fawad@gmail.com)
3	Biochemistry	• Prof. Dr. Sadia (Head of Department) (sadiawajahat2006@hotmail.com) • Prof. Dr. Haroon (dr.haroonhabib@gmail.com) • Dr. Yusra Leghari (yusraleghari@gmail.com) • Dr. Fatima Sabih (fatima.khalid1353@gmail.com)
4	Oral Biology & Tooth Morphology	• Prof. Dr. Sana Chaudhry (Head of Department) (sanajawad.ch@icloud.com) • Dr. Iqra Rafiq (Senior Lecturer) (doc.iqrarafiq@gmail.com) • Dr. Faseehuddin Babar (Demonstrator) (faseehbabar560@gmail.com)

		• Dr.Sami Maqsood (Demonstrator) (samimaqsood929@gmail.com)
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6	Community & Preventive Dentistry / Dental Public Health	• Dr. Lubna Yusuf (lubnayusuf@avicennamch.edu.pk) • Dr Tahira Bukhari (tahirabukhari2025@gmail.com) • Dr Khizer Alam (khizeralamzub@gmail.com) • Dr Abdullah Imran (Abdullahimran558@gmail.com)
7	Pharmacology & Therapeutics	• Dr. Rubina (rubinaiqbalke@gmail.com) • Dr. Iqra Ijaz (iqra.veritas@gmail.com)
8	Science of Dental Materials	• Dr Madiha Umer (HOD) (drmadiha01@gmail.com) • Dr Fahad Assist Prof (drfahad02@gmail.com) • Dr Mahnoor Fatima (mahnooorfatimaa001@gmail.com) • Dr. Usama Aslam (drusamaaslam02@gmail.com)
9	Oral Pathology	• Prof. Dr. Momin Ayub (Mominayub@hotmail.com) • Dr. Sultan M wahid (drwahid01@gmail.com) • Dr. Ummer amin (ummeramin247@gmail.com) • Dr. Amna jabbar (Amnajabbar441@gmail.com)

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11	Periodontology	• Associate Prof Dr Resham Hafeez (HOD) (dr.reshamhafeez@gmail.com) • Assist Prof Dr Ali Anwer (Acting HOD) (alianwer@live.com) • Dr. Nazia Kalim (Registrar) (naziakalim786@gmail.com) • Dr Muhammad Ahmed (Registrar) (ahmed95.m@gmail.com)
12	Operative Dentistry	• Prof. Dr. Sohail Abbas Khan(head of department) (doctorsohailabbaskhan@gmail.com) • Dr Nighat Shafi (Assistant Professor) (drnighatshafi7@gmail.com) • Dr Amir Anees (Registrar) (ameranees53@gmail.com) • Dr Saman Farooqi (Registrar) (samanfarooqi100@gmail.com) • Dr Samaila (Registrar) (7shamailamahmood@gmail.com)
13	Prosthodontics	• Prof. Dr. Usman Muneer (HOD) (usmuneer@hotmail.com) • Dr. Mahvish Wahad Khan (Assistant Professor) (mahvishwahad@avicennamch.edu.pk) • Dr. Nayab Rauf (Senior Registrar) (nayabrauf123@gmail.com) • Dr. Ayesha Rasool (ayesharasool407@gmail.com)

		• Dr. Haider Haye (hayehaider@gmail.com) • Dr. Hamza Bajwa (hamzabajwa483@gmail.com)
14	Orthodontics	• Prof. Dr. Nadia Bhutta (Head of Department) (nadiabhutta@gmail.com) • Dr. Anum Aziz (Assistant Professor) (anum.aziz@hotmail.com) • Dr. Sadaf Shaheen (Assistant Professor) (sadafshaheen010@gmail.com) • Dr. Hida Tajar (Registrar) (Hidach92@gmail.com) • Dr. Zainia Touseef (Registrar) (zainiasheikh@gmail.com) • Dr. Abdulah Naeem (Registrar) (abdullahnaeem08@gmail.com)
15	Oral & Maxillofacial Surgery	• Prof. Dr. Faisal Muneer (faisalmunir6@hotmail.com) • Dr. Mujtaba Nadeem (fullysacred@gmail.com) • Dr. Ali Masood (alimsood71819@gmail.com) • Dr. Anum (anumanwar15@gmail.com)
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		(fauziarazamd@gmail.com) • Dr Qassim Zia (qasimzia64@gmail.com)
17	General Surgery	• Prof. Dr. Zulfiqar (doctorzulfiqar@hotmail.com) • Dr. Shehzina (shehzinatariq56@gmail.com)
18	Paediatric Dentistry	• Asst. Prof. Dr. Tabassum Awais (Head of Department) (dr.tabassumawais@gmail.com) • Dr Minahil (Registrar) (minahilsafdar16@gmail.com)
19	Behavioral Sciences	• Prof. Dr. Farhat Minhas (HOD) (farhat.minhas26@gmail.com) • Dr. Shazia Akram (dr.shazia7676@gmail.com)
20	PRISME	• Dr. Salar Arsalan (drsalar@outlook.com) • Dr. Shiza (shizahaq960@gmail.com) • Dr. Ayesha Iqbal (ayeshamalik3661@gmail.com) • Ms. Uzma Jawad (uzmajawad63@gmail.com)
21	Islamiyat & Pakistan Studies/ Holy Quran	• Mr. M. Faizan (iftikharfaizan26@gmail.com)

Course Syllabus

Link:

https://drive.google.com/file/d/1T3df7X2SCTU-7Y7Kgv9li2k5RWOLFs4D/view?usp=drive_link

https://drive.google.com/file/d/1a1_drBepv0W0ahjiXvZ72sTg9SChWFYb/view?usp=drive_link

Assessment Policy & Criteria

Link:

[https://docs.google.com/document/d/1hTR6AyKqENLBh-wa_HdtGA28JOQuWHzb4PrPNTqzqM/edit?usp=s
haring](https://docs.google.com/document/d/1hTR6AyKqENLBh-wa_HdtGA28JOQuWHzb4PrPNTqzqM/edit?usp=ssharing)

Academic Calendar

Link:

https://docs.google.com/spreadsheets/d/1hpLZ6ah6VyT1gcTCX2dP7p0RejS_NtCT/edit?usp=sharing&ouid=108051225502977504720&rtpof=true&sd=true

Block Timetable

Link:

https://docs.google.com/spreadsheets/d/1Ufes_Bfr7pmA0Gqq8OOMT9P-CdEMKyZx/edit?usp=sharing&ouid=108051225502977504720&rtpof=true&sd=true

Clinical Rotation Plan

Link:

https://docs.google.com/document/d/1-x6MNgj8B94lAIVmSWi-qLgucEr9ddvomolR_tI_xSg/edit?usp=drive_link

Test Schedule

Link:

https://docs.google.com/document/d/1ciF6W5fNl4uHU3n8uKtQzwzzlPPjuQ_o_NPB6cKV_BA/edit?usp=drive_link