Avicenna Medical & Dental College

AVICENNA
DENTAL COLLEGE

STUDY GUIDE

2023-2024



Program:	Bachelor of Dental Surgery
Year:	4th Professional Year
Subject:	Oral & Maxillofacial Surgery
Batch No:	D20
Session:	2023-2024

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- Refer to Students Policy Manual

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

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



OBJECTIVES OF THE STUDY GUIDE

1. **Institutional Understanding:**
    - Gain insight into the college's organizational structure, vision, mission, and graduation competencies as defined by PMDC, setting the foundation for your educational journey.
2. **Effective Utilization:**
    - Master the use of this guide to enhance your learning, understanding the collaborative role of the Department of Dental Education and your subject departments, in line with PMDC standards.
3. **Subject Insight:**
    - Obtain a comprehensive overview of your courses, including detailed subject outlines, objectives, and departmental structures, to streamline your academic planning.
4. **Curriculum Framework:**
    - Explore the curriculum framework, academic calendar, and schedules for clinical and community rotations, adhering to the structured guidelines of UHS & PMDC.
5. **Assessment Preparation:**
    - Familiarize yourself with the various assessment tools and methods, including internal exam and external exam criteria, and review sample papers to effectively prepare for professional exams.
6. **Policies and Compliance:**
    - Understand the institutional code of conduct, attendance and assessment policies, and other regulations to ensure adherence to college standards and accrediting body requirements.
7. **Learning Resources:**
    - Utilize the learning methodologies, infrastructure resources, and Learning Management System to maximize your educational experience and academic success.

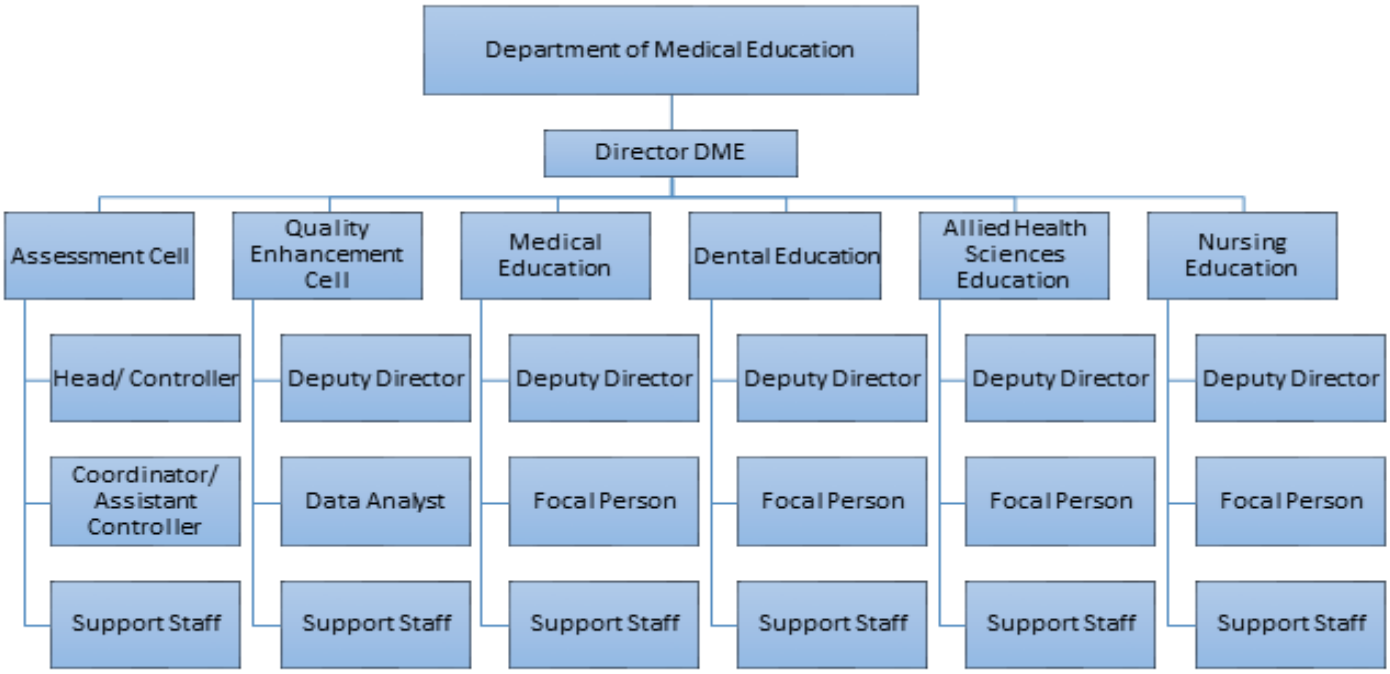
This guide, meticulously developed in collaboration with your subject departments, is designed to support your academic journey and help you achieve excellence in accordance with the highest standards set by PMDC and HEC.

DEPARTMENT OF MEDICAL EDUCATION

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

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

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



General Responsibilities of DME include:

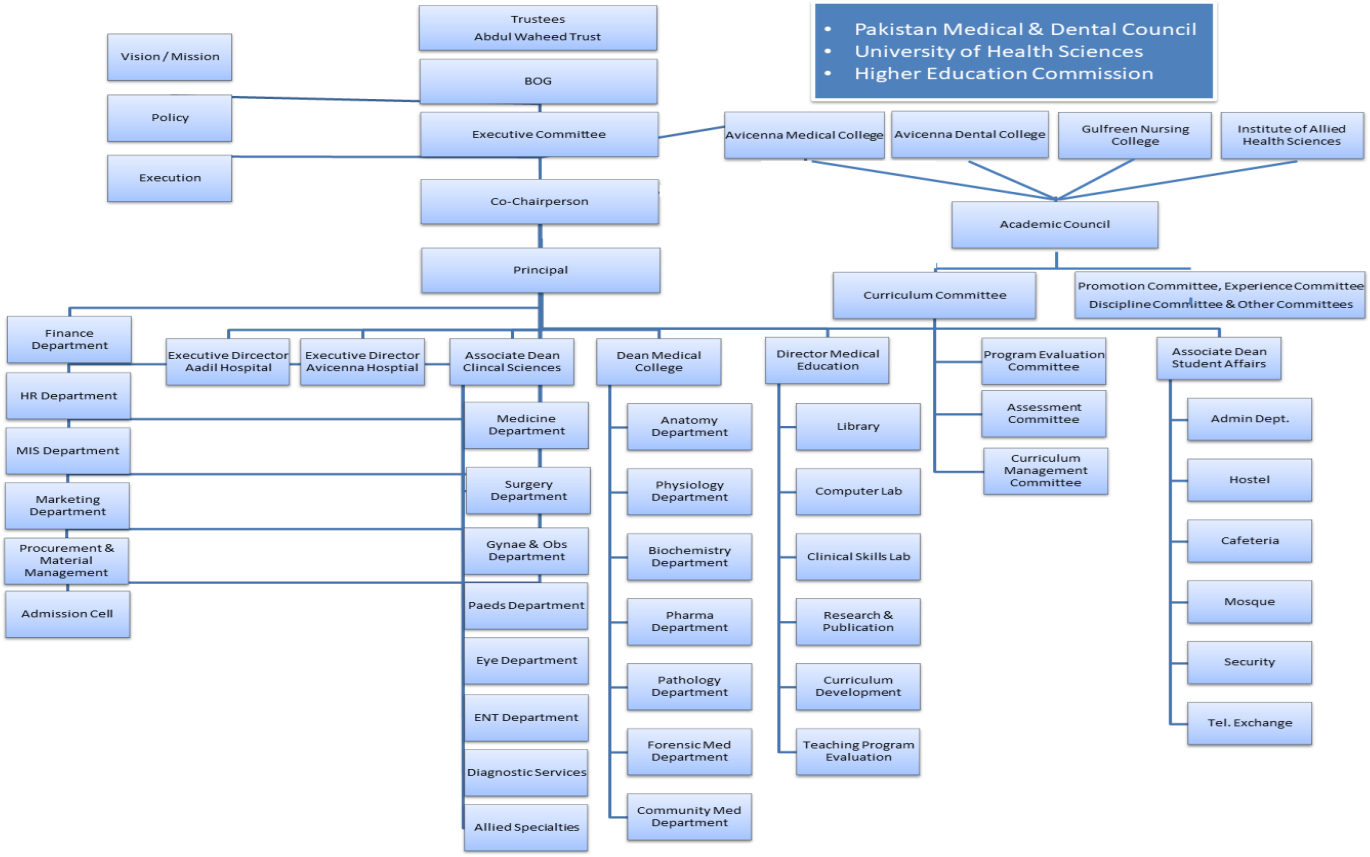
- Contribute and design, train the trainer activities which fulfill the need for undergraduate and postgraduate training.
- Shape and develop medical education research activities of the college.
- Facilitating & organizing workshops, seminars, symposia & conferences.
- Conducting CME activities to leverage culture of awareness, journal club.
- Networking by representing the college, when needed, in national /international meetings or conferences.
- Student counseling.
- Supervising students' academic progress.
- Academic Committees Development and Support.
- Staff Support and Development.
- Curriculum development and reform.

- Collaborate with curriculum committee and faculty members to develop quality instructional material such as modules, lecture, or study guides.
- Standard Operating Procedures for DME development.
- Skill lab management.
- Assessment analysis which includes blue printing, pre-exam review, item analysis and standard setting and provides feedback to concerned faculty and students on the learning outcome achievement.
- Develop and conduct periodical review of process of the program, learning and teaching activities, and assessment process.
- Identify opportunities for use of IT in teaching and learning, assessment and faculty development activities.
- Exam Cell management.
- Quality Assurance Cell management.
- Record keeping of departmental data.
- Leadership and management.
- Participation in overall planning and management of teaching in liaison with the departments.

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

Avicenna Medical & Dental College Overview

Institutional Organogram



Vision & Mission

Avicenna Medical & Dental College

Vision

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

Mission

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

Message from the Chairman

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

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

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

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

Chairman
Abdul Waheed Sheikh
Avicenna Medical & Dental College



Message from the Principal

Prof. Dr. Sohail Abbas Khan
Principal Dental College
MDS, Dip Op (Hons) BDS



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



Message from the Vice Principal

Prof. Dr. Usman Muneer
Vice Principal Dental College
BDS, FCPS

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.

7-Star Doctor Competencies (PMDC)

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

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



About Avicenna 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.



Department & Subject Overview

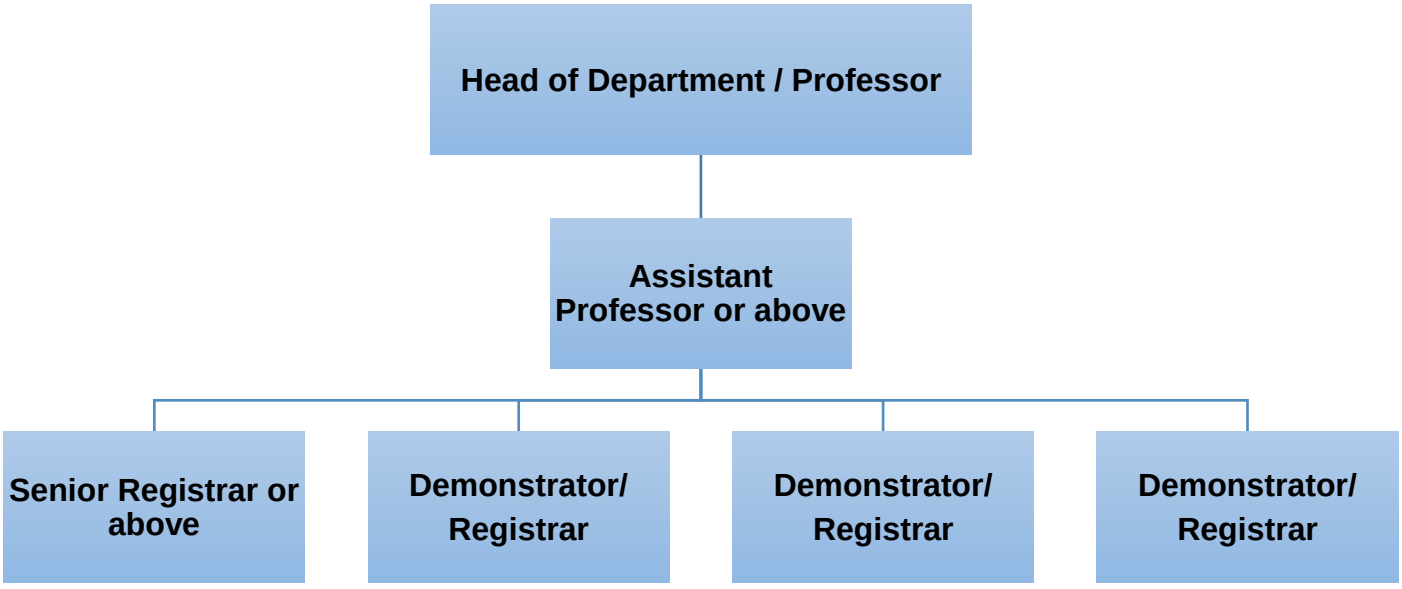
Note from the Head of Department

Oral and Maxillofacial surgery is a clinical specialty comprising the knowledge and skills required for management of diseases, abnormalities & trauma of the oral cavity, jaws, facial & neck structures. Our aim is to provide medical aid to those most in need regardless of their race or religion to enhance the quality of life for all. We have the most recent equipment, strict cross infection control, operation theaters, ward, staff & facilities for managing medical emergencies.

Prof. Dr. M. Faisal Munir
(BDS, FCPS, MFDS)
Professor & Head of Department
Department of Oral & Maxillofacial Surgery



Departmental Organogram (as per PMDC guidelines)



Faculty Members

Name	Designation	Qualification
Prof. Dr. Faisal Munir	Head of Department / Professor	**BDS, MJDFRCS, FCPS**
Dr. Mujtaba Nadeem	Senior Registrar	**BDS, FCPS**
D. Mahrukh Nisar	Senior Registrar	**BDS, FCPS**
Dr. Ali Masood	Demonstrator	**BDS**
Dr. Kumail Abbas	Demonstrator	**BDS**

Goal of the Department

The Department of Oral & Maxillofacial Surgery in Avicenna Dental College is a well-equipped and highly efficient department. We have a specialist staff that is not only devoted in making our students the best in the country but also provide solutions for patients in Minor and Major Operation Theaters for our students to observe and one day practice.

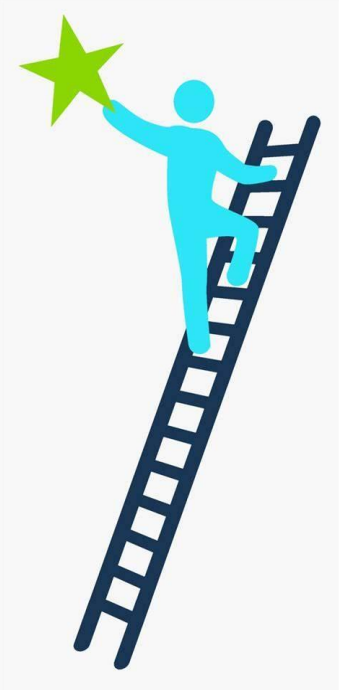


Course Objectives

- Provide knowledge in Oral & Maxillofacial Surgery to undergraduate students.
- The skills and knowledge for a productive, competent, and compassionate Clinical practice.
- To familiarize the students with the foundational knowledge necessary for critical thinking, problem solving and diagnosis of oral diseases.
- The skills to clearly communicate their knowledge as needed.
- To familiarize students with multiple diagnostic techniques applicable in every condition.

Attendance Requirement & Internal Assessment Criteria

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



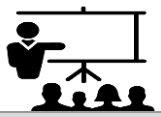
Learning Resources & Pedagogy

Book Recommendations



Sr.	Book Name	Author	Edition
1.	Contemporary Oral and Maxillofacial Surgery	Patterson, Ellis & Tucker.	7th
2.	Killey's Fractures of Middle third of the facial skeleton	Killey	
3.	Killey's Fracture of the Mandible	Killey	
4.	Medical problems in Dentistry by Scully & Cawson		
5.	Local Anaesthesia in Dentistry	Stanley F. Melamed	7th

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.
	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.
3.	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.
4.	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.
5.	Assignment	Tasks given to students to complete outside of class. Assignments can include research papers, case studies, or practical reports. They are designed to reinforce learning, assess understanding, and develop critical thinking and problem-solving skills.

7.	Self-directed Learning	Students take initiative and responsibility for their own learning process. Students are encouraged to seek resources, set goals, and evaluate their progress. This is a learner-centered approach where students take the initiative to plan, execute, and assess their own learning activities. This method promotes independence, critical thinking, and lifelong learning skills.
8.	Flipped Classroom	In this model, students first engage with learning materials at home (e.g., through videos, readings) and then use class time for interactive activities, discussions, or problem-solving exercises. This approach aims to maximize in-class engagement and application of knowledge.
9.	Peer-Assisted Learning (PAL)	A collaborative learning approach where students help each other understand course material. PAL involves structured peer tutoring, study groups, or collaborative tasks. It enhances comprehension through teaching, reinforces learning, and builds teamwork skills.
10.	Team-based Learning (TBL)	A structured form of small group learning where students work in teams on application-based tasks and problems. Teams are responsible for achieving learning objectives through collaborative efforts, promoting accountability, and deeper understanding of the material.
11.	Problem-based Learning (PBL)	Students work on complex, real-world problems without predefined solutions. They research, discuss, and apply knowledge to develop solutions. PBL fosters critical thinking, problem-solving skills, and the ability to integrate knowledge from various disciplines.
12.	Academic Portfolios	A collection of student's work that showcases learning achievements, reflections, and progress over time. Portfolios include assignments, projects, and self-assessments. They provide a comprehensive view of student development, highlight strengths and areas for improvement, and support reflective learning (experiential learning)



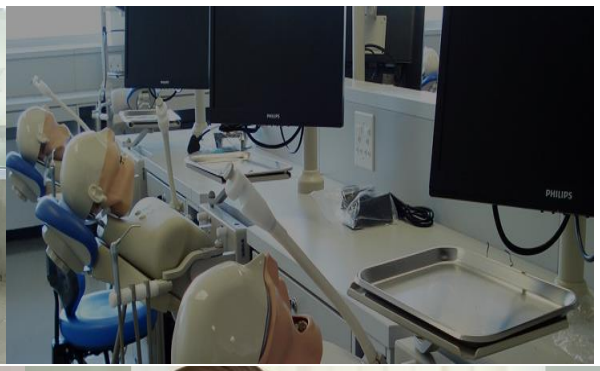
Flipped Classroom

Infrastructure Resources

Sr.	Infrastructure Resources	Description
1.	Lecture Hall	Each year has a dedicated lecture hall, totaling four lecture halls for the four 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.	Mess & Cafeteria	The College has its own on-campus Mess which caters to 600 students. All food items including dairy, meat, and vegetables are sourced organically and bought in at the time of cooking, in order to ensure that students get freshly cooked meals at all times Students form the Mess committee which decides the mess menu in consultation with other students. The Mess offers fresh food to all residents three times a day. However, day scholars are also welcome to use the Mess facility at a reasonable cost. Two 50- inch LCD screens provide students an opportunity to get entertained during their meal times.
8.	Gymnasium & Sports	We recognize sports as a pivotal key to shape and maintain students' personality and good health. The College has indoor and outdoor sports facilities to help enhance the cognition and capacity to learn. There is a proper sports section for various games like basketball, football, volleyball, and cricket. The gym itself is fully equipped with modern machinery both for students and faculty.

9.	IT Lab	The IT Lab is equipped with modern computers and software available for students who need access for academic purposes.
10.	Auditorium	The college has a spacious auditorium equipped with advanced audio-visual facilities. It is used for large-scale lectures, guest presentations, and academic conferences, providing a venue for students to engage with experts and participate in important educational events.
11.	Examination Halls	The college provides dedicated examination halls that are designed to accommodate a large number of students comfortably. These halls are equipped with necessary facilities to ensure a smooth and secure examination process, including proper seating arrangements, monitoring systems, and accessibility features.
12	Operation Theatre	Oral and Maxillofacial Surgery's advanced cases are performed under General anesthesia in purpose built operation theaters. Cases like that of Orthognathic surgery, maxillofacial pathology, facial trauma etc are done by the Maxillofacial Surgeons.

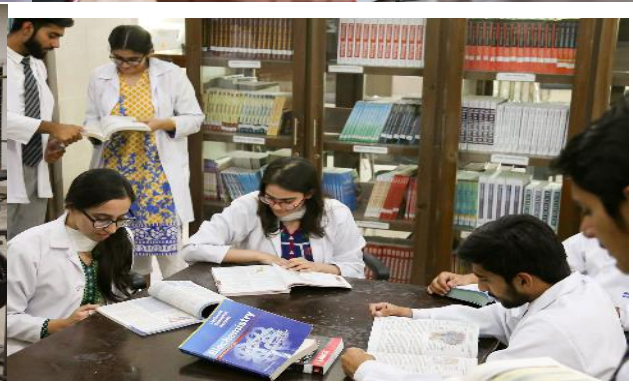








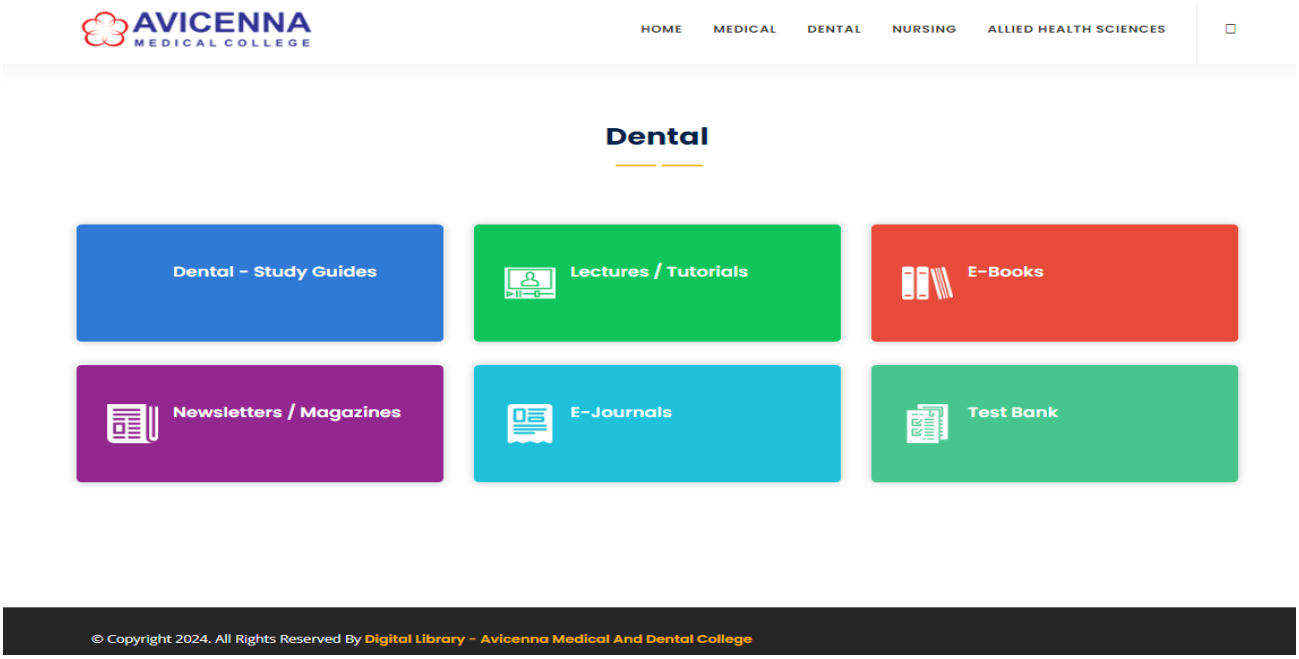




Digital Library & Learning Management System (LMS)

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

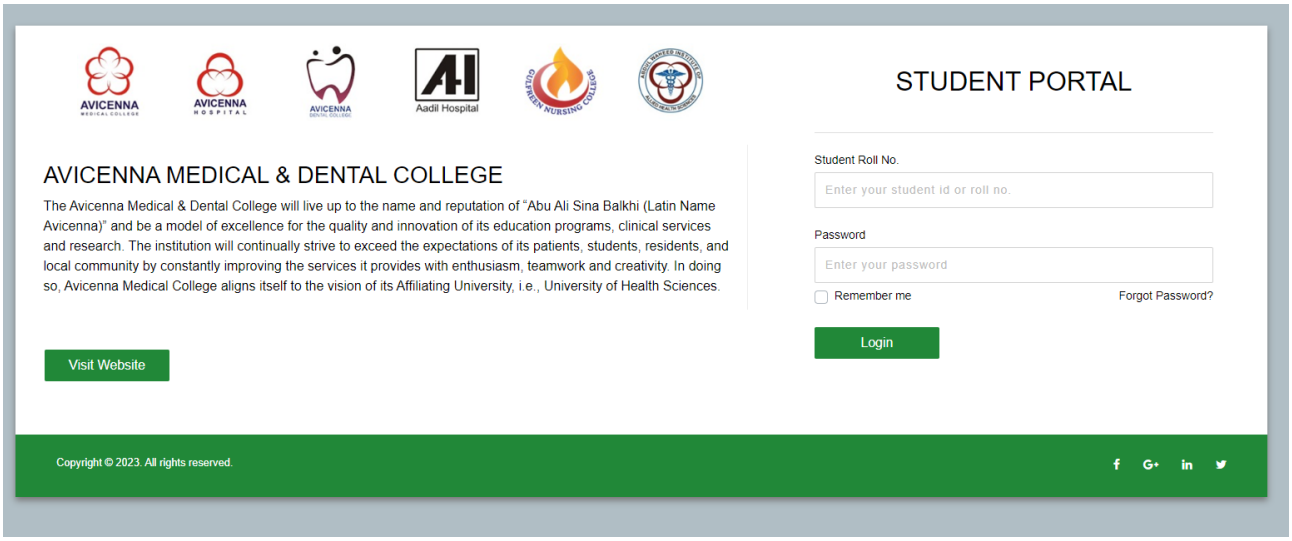
2. Avicenna Medical & Dental College lays emphasis on the provision of learning material and online video lectures, video tutorials in the e-library and learning resource center, which has a dedicated website of Avicenna Medical College to enable the students to develop concepts and clarify their doubts,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



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

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

   a. **Students**: For academic resources and scheduling.
   b. **Parents:** For monitoring academic progress and other relevant information.
   c. **Faculty:** For managing course content and academic activities.
   d. **Department of Student Affairs:** For overseeing administrative functions.
   e. **Department of Medical/Dental Education:** For overseeing academic functions.



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

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

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

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

Assessment Guidelines

Assessment in dental education is a critical component designed to ensure that dental students acquire the necessary knowledge, skills, and competencies required for effective 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.
- Oral 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 BDS 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	10%	100 %
External Assessment Weightage	90%	



Internal Assessment Criteria

Internal Assessment	Paper	Assessment Methods	Percentage Weightage
Grand Tests	Theory	MCQs SEQs	30%
Early Session Exam	Theory	MCQs SEQs	70%
Mid Session Exam	Theory	MCQs SEQs	
Clinical Assessment	Batch Clinical Assessment	Practical Viva	100%
Send-up Exam	Theory	MCQ SEQ	100%
	Final Clinical Assessment	Practical Viva	100%
Total			400%

Reference attached on next page.

Avicenna Dental College

Examination Marks Scheme 2023-2024

New

Final Year BDS

Form No	BDS-4 Form-1		BDS-4 Form-2		BDS-4 Form-3		BDS-4 Form-4		BDS-4 Form-5		BDS-4 Form-6	
Test Type	Grand Test		Revision Test		Session Exam		Send Up		Batch Clinical Assessment (BCA) *1		Final Clinical Assessment (FCA) *2 (Late Session & Send up Exam)	
Mode of Exam	Theory		Theory		Theory		Theory		Clinical			
Weightage	30%		0%		70%		100%		100%		100%	
Operative Dentistry 200	MCQ 55, SEQ 45	100	MCQ 26, SEQ 24	50	MCQ 41, SEQ 39	80	MCQ 41, SEQ 39	80	Practical 55, Viva 25	80	Practical 55, Viva 25	80
Prosthodontics 200	MCQ 55, SEQ 45	100	MCQ 26, SEQ 24	50	MCQ 41, SEQ 39	80	MCQ 41, SEQ 39	80	Viva 40, Practical 40	80	Viva 40, Practical 40	80
Oral & Maxillofacial Surgery 200	MCQ 55, SEQ 45	100	MCQ 26, SEQ 24	50	MCQ 41, SEQ 39	80	MCQ 41, SEQ 39	80	Practical 40, Viva 40	80	Practical 40, Viva 40	80
Orthodontics 200	MCQ 55, SEQ 45	100	MCQ 26, SEQ 24	50	MCQ 41, SEQ 39	80	MCQ 41, SEQ 39	80	OSPE 20, Practical 35, Viva 25	80	OSPE 20, Practical 35, Viva 25	80

NOTE 1: * Batch Clinical Assessment(BCA) Clinical exam held at the end of each rotation for each batch

NOTE 2 : * Final Clinical Assessment(FCA) Exit exam at the end of Late Session & Send up exam Before Final Prof for all students

Department of Operative Dentistry	Department of Orthodontics	Department of Prosthodontics	Department of Oral Maxillofacial Surgery

Head of Examination Cell : _____

Chairman Avicenna: _____

External Assessment

<table>
<tr><th colspan="2">Paper Details</th><th>Assessment Methods</th><th>Total Marks</th><th>Percentage Weightage</th></tr>
<tr><td rowspan="3">Theory
● 90 marks
● 3 hrs</td><td rowspan="2">External Assessment</td><td>45 MCQs (1 mark each)</td><td>45 marks</td><td rowspan="3">50 %</td></tr>
<tr><td>15 SEQs (3 marks each)</td><td>45 marks</td></tr>
<tr><td>Internal Assessment</td><td>See Internal Assessment Criteria</td><td>10 marks</td></tr>
<tr><td rowspan="2">Practical
● 90 marks
● 3 hrs</td><td>External Assessment</td><td>Viva & OSPE</td><td>90 marks</td><td rowspan="2">50%</td></tr>
<tr><td>Internal Assessment</td><td>See Internal Assessment Criteria</td><td>10 marks</td></tr>
<tr><td colspan="3">Total</td><td>200 Marks</td><td>100%</td></tr>
</table>

Sample Paper

MCQ

A patient with cellulitis after giving heat, antibiotics and fluid returns 24 hours later. On palpation, the area is soft and painful to touch and the tissue rebounds when palpated. The condition is termed as

Option:

a)Abscess*

b)Resorption

c)Induration

d)Purulence

COGNITIVE LEVEL: Recall
DIFFICULTY LEVEL: Moderate
IMPORTANCE: Must Know
REFERENCE: OMFS by Tucker 7th edition

SEQ/SAQ

Scenario A 65 year old patient who is diabetic and has a nephrotoxic history presents to you clinic with a bilateral swelling in mandibular region. He has fever and dyspnea. He also has a history of hepatotoxic liver.

Questions	**Marks**
a) What is the most likely diagnosis?	**1**
b) How will you manage this patient?	**2**

Key	**Marks**
a) Ludwig's angina	**1**
b) Treatment: • Sufficient airway management • Surgical decompression • Incision and drainage • Antibiotic therapy • Penicillin's are the first line of antibiotics. It is administered in the form of aqueous penicillin G, 2 to 4 million units, IV 4 to 6 hourly, or 500 mg six hourly orally. • In case of allergy to penicillin; • Erythromycin 600 mg 6 to 8 hourly. • Hydration	**2**

COGNITIVE LEVEL: Application

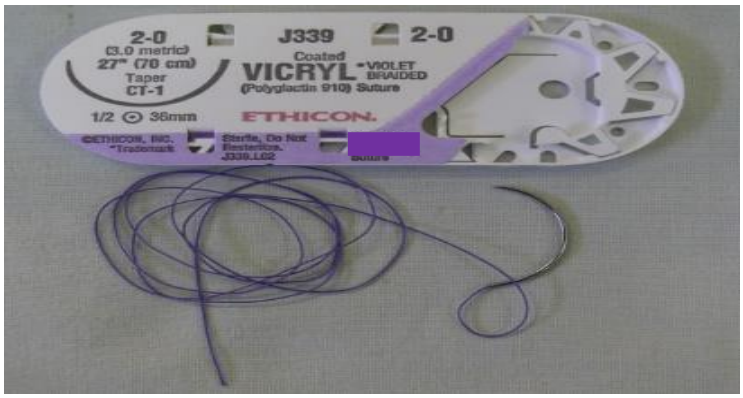
DIFFICULTY LEVEL: Moderate

IMPORTANCE: Must Know

REFERENCE: OMFS by Tucker 7th edition

OSCE

Scenario :



Carefully inspect the photograph and answer the following questions.

- Is this suture synthetic or natural? 01
- Is this suture absorbable or Non-absorbable? 01
- Give advantage of this suture 02
- Give disadvantage of this suture 01

Key:

- synthetic
- absorbable
- Can be used in sub mucosal suturing, no need to be removed. Good knot formation.
- Takes 60 days to resorb, can cause tissue reaction, is expensive.

CURRICULUM DETAILS

Curricular Framework including allocation of hours (PMDC)

<table>
<tr><th colspan="4">BDS SCHEME OF STUDIES</th></tr>
<tr><th colspan="2">Basic Dental Sciences / Preclinical Year</th><th colspan="2">Clinical Dental Sciences / Clinical Years</th></tr>
<tr><th>1st Professional Year</th><th>2nd Professional Year</th><th>3rd Professional Year</th><th>4th Professional Year</th></tr>
<tr><td>Anatomy
300 Hours</td><td>General Pathology
220 Hours</td><td>General Medicine
180 Hours</td><td>Operative Dentistry
250 Hours</td></tr>
<tr><td>Physiology
300 Hours</td><td>Pharmacology
220 Hours</td><td>General Surgery
170 Hours</td><td>Prosthodontics
250 Hours</td></tr>
<tr><td>Biochemistry
180 Hours</td><td>Science of Dental Materials
300 Hours</td><td>Oral Pathology
180 Hours</td><td>Orthodontics
250 Hours</td></tr>
<tr><td>Oral biology & Tooth Morphology
300 Hours</td><td>Community Dentistry
200 Hours</td><td>Oral Medicine
150 Hours</td><td>Oral & Maxillofacial Surgery
250 Hours</td></tr>
<tr><td>General Education
120 Hours

(Islamiat, Pakistan Studies Behavioural Sciences, Research, English, Arts & Humanities)</td><td>Pre-clinical Operative Dentistry
80 Hours</td><td>Periodontology
180 Hours</td><td>Paediatric Dentistry
100 Hours</td></tr>
<tr><td rowspan="4"></td><td>Pre-clinical Prosthodontics
80 Hours</td><td>Clinical Operative
80 Hours</td><td>General Education
100 Hours

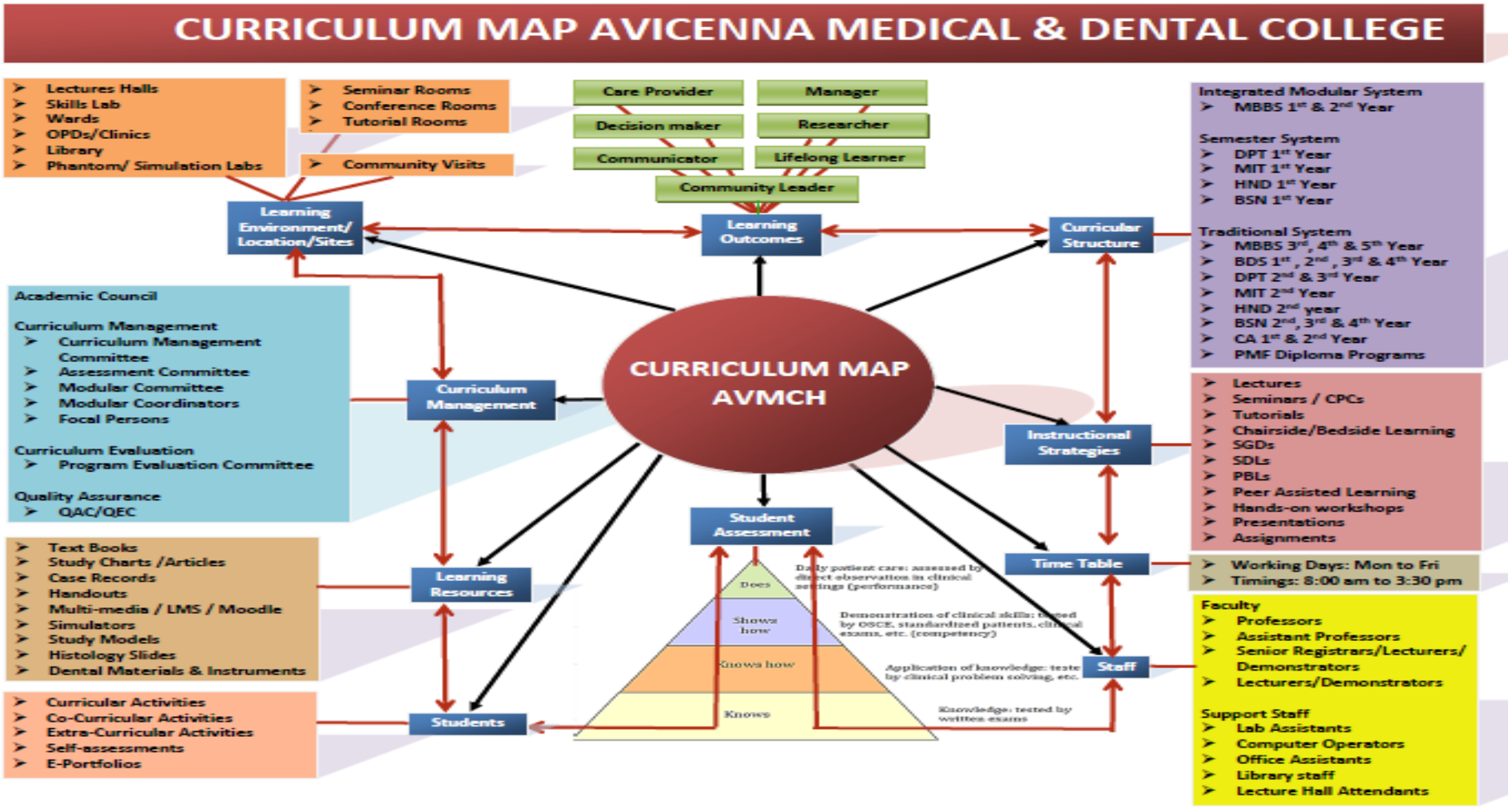
(Research, English, Arts & Humanities, ICT)</td></tr>
<tr><td>General Education
100 Hours

(Behavioural Sciences, Research, English, Arts & Humanities, ICT)</td><td>Clinical Prosthodontics
80 Hours</td><td rowspan="3"></td></tr>
<tr><td rowspan="2"></td><td>Clinical Oral & Maxillofacial Surgery
80 Hours</td></tr>
<tr><td>General Education
100 Hours

(Research, English, Arts & Humanities, ICT)</td></tr>
<tr><td>1200 hours</td><td>1200 hours</td><td>1200 hours</td><td>1200 hours</td></tr>
</table>

Curricular Map & Rationale

1. 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:



Rationale 4th Professional Year	
Subjects	**Oral & Maxillofacial Surgery**
TERM- I	● · Principles of surgery and exodontia
TERM- II	● · Infections and management of oral pathological lesions
TERM-III	● · Maxillofacial trauma ● · TMJ disorders

Learning Outcomes

Unit/ Chapter	Topic/ Content	Student Learning Outcomes	Mode of Information (MOIT)	Learning Domain (KSA-Model)
History and examination	1. History Taking 2. Examination	By the end of this topic, students will be able to: ● Outlines a treatment plan of a patient on the basis of history and examination. Discuss Developing a surgical diagnosis	Lecture/Tutorial/ Practical/ SDL/ Skill/ Clinical/ Bedside Teaching / Demonstration	Knowledge (Cognitive) or Skill (Pscyhomotor)/ or Attitude (Effective)
Basic Principles of Surgery and wound healing	1. Basic Principles of Surgery 2. Wound Healing	● Explain Basic necessities for surgery ● Describe Incisions ● Describe Flap Designs ● Prevention of flap necrosis ● Prevention of Flap dehiscence ● Prevention of flap tearing ● Describe tissue handling ● Describe Hemostasis ● Means of promoting wound healing ● Hemostasis and Dead Space management ● Describe decontamination & debridement ● Describe Edema control ● Discus Patient general health & nutrition		

Cross infection Control & sterilization	1. Cross infection Control & sterilization 2. Needle stick Injury and COVID 19 Guidelines	● Discuss Aseptic techniques & universal precautions o Techniques of instrument sterilization o Techniques of instrument disinfection o Maintenance of sterility o Operating disinfection o Surgical staff Preparation o Post surgical Asepsis Needle stick injury Covid 19 guide lines		
Local Anaesthesia	1. Introduction (Neurophysiology, Classification of Local Anesthetics, Pharmacology of Local Anesthetics, Pharmacology of Local Vasoconstrictors) 2. The Armamentarium & Techniques of Regional Aneshthesia in Maxilla 3. Techniques of Regional Aneshthesia in Mandible 4. Complications & Management	● Classify Anesthesia ● Describe different type of Anesthetic solution used in dentistry ● Discuss indication & contraindication of Anesthesia ● Demonstrate infiltration and block anesthesia techniques ● Explain conventional & specialized technique of LA ● Explain local anesthesia related emergencies		
Exodontia	1. Introduction, Instruments and Armamentarium in basic Oral Surgery 2. Priciples of Routine Exodontia (Indications, Contraindications, Clinical and Radiographic evaluation of tooth,Patient and Surgeon positioning) 3. Principles of routine exodontia (Mechanical Principles involved in tooth extraction, Principles	●Discuss pain & Anxiety control ●Discuss Presurgical Medical Assessment ●Discuss Clinical evaluation of teeth for removal ●Discuss Radiographic examination of tooth for removal ●Describe patient & surgeons' preparation ●Describe instruments for incising tissue ●Describe instruments for elevating muco periosteum ●Describe instrument for retracting soft tissue ●Describe instruments for controlling hemorrhage ●Describe instruments for grasping tissue ●Describe instruments for removing bone ●Describe instruments for removing soft tissue from bony defects ●Describe instruments for suturing mucosa ●Describe instruments for holding mouth open ●Describe instruments for providing suction		

	of elevators and forceps, Specific techniques for removal of each tooth 4. Postoperative Patient Management, Prevention & Management of Extraction Complications 5.Introduction, Assessment and classifications of Impacted tooth 6. Surgical Procedures and Complications	●Describe instruments for transferring sterile instruments ●Describe instruments for holding towel & drapes in position ●Describe instruments for irrigation ●Describe Dental elevators ●Describe extraction forceps ●Discuss instrument tray system ●List the Indications for removal of teeth ●List Contraindications for the removal of teeth ●Explain Chair position for Forceps extraction ●Explain mechanical principles involved in tooth extractions ●Explain principles of forceps use ●Describe procedure for closed extraction ●Discuss specific techniques for removal of each tooth ●Describe post extraction care of tooth socket ●Discuss principles of flap design, development and management oDesign parameters for soft tissue flaps oTypes of mucoperiosteal flaps oPrinciples of suturing ●Explain Principles and techniques for surgical extraction oIndications for surgical extraction oTechnique for open extraction of single- rooted tooth oTechnique for surgical removal of multirooted teeth oRemoval of small root fragments and root tips oPolicy for leaving root fragments. ●Discuss Multiple extractions oTreatment planning oExtraction sequencing ●Technique for multiple extractions ●Define Impaction ●List the indications & contraindications for removal of impacted teeth ●Explain the Classification system of impacted teeth ●Describe Root Morphology ●Discuss Modifications of Classification system for maxillary impacted teeth. ●Discus the difficulty of removal of other impacted teeth ●Describe surgical procedures ●Discuss preoperative patient management ●Describe control of postoperative bleeding ●Describe control of postoperative pain and discomfort ●Discuss postoperative follow up visit ●Describe operative notes for the records ●Describe prevention of complication ●Explain soft tissue injuries		

		●Discuss complications with the tooth being extracted ●Discuss injuries to the adjacent teeth ●Discuss injuries to osseous structures ●Discuss injuries to adjacent structures ●Describe oroantral communications ●Describe post-operative bleeding ●Describe delayed healing and infection ●Describe fractures of the mandible		
Management of medically compromised patients & medical emergencies	1. Pre-Operative Health Status Evaluation Medical history, physical examination, Management of Patients with Compromised Medical Conditions (Cardiovascular Problems, Pulmonary Problems) 2. Pre-Operative Health Status Evaluation Management of Patients with Compromised Medical Conditions (Renal Problems, Hepatic Disorders, Endocrine Disorders, Hematologic Problems, neurologic disorders & Management of Patients during and after Pregnancy 3.Medical Emergencies (History taking,prevention, preparation, emergency medicienes and euipment. 4. (Chest Discomfort, Respiratory Difficulty) 4 5. Medical Emergencies (Hypersenstivity reactions & Altered Consciousness)	●Diagnose Dental problems in Medically compromise patient ●Obtain informed /Written consent ●Discuss different medical conditions ●Discuss Management of Patient with Compromising Medical Condition. ●Prescribed Medication for pregnant & postpartum patients after treatment. ●Discuss different medical emergencies ●Discuss investigations and management of medical emergencies		

Management of oro facial infections	1. Oral Microbiology and anatomy of facial spaces 2.Management of facial space Infecions 3. Principles of management of odontogenic infections 4. Prophlaxsis of Wound and metastatic infection	●Explain microbiology of odontogenic infections ●Classify spaces of infection ●Explain Fascial space infections ●Explain mandibular spaces ●Explain osteomyelitis ●Explain actinomycosis ●Explain candida infections ●Discuss natural history of progression of odontogenic infections ●Explain principles of therapy of odontogenic infections ●Explain principles of prevention of infection ●Explain principles of prophylaxis of wound infection ●Explain principles of prophylaxis against metastatic infection		
Diseases of maxillary antrum	1. Maxillary Antrum Anatomy, assessment 2. Medical and surgical management of patients with maxillary antrum pathologies	●Explain the embryology and anatomy ●Discuss the clinical examination, management and treatment ●Discuss non odontogenic and odontogenic infections ●Discuss antral pseudocysts ●Discuss the complications		
Surgical endodontics	1. Assessment , Diagnosis and Planning 2. Surgical Procedures	●Discuss the indication and contraindications of the procedure ●Describe drainage of an abscess ●Define Periapical surgery ●Define Corrective surgery ●Describe Healing ●Discuss recall ●Discuss adjuncts ●Discuss when to consider referral		
Biopsy	1.Definations, Assessment, Indictions and contraindications for biopsy 2. Surgical Procedures	●Discuss examination and diagnostic methods ●Discuss Principles of biopsy ●Describe soft tissue biopsy technique and surgical principles ●Describe intraosseous or hard tissue biopsy technique and surgical principles ●Discuss referral for biopsies		

Management of cysts and benign tumors	1.Odontogenic and Non Odontogenic Cyts 2. Odontogenic and Non odontogenic Tumours 3. Principles and surgical managements	●Discuss Basic surgical goals ●Describe Surgical management of cysts and cyst like lesions of the jaws ●Identify Odontogenic tumors ●Describe Surgical Management of benign lesions in oral soft tissues ●Discuss Principles of surgical management of jaw tumors		
Management of oral malignancies	1. Discuss Principles of surgical management of jaw tumors 2.Classify the Mucosal Flaps use for reconstruction, Describe basic reconstructive principles 3.Describe dental management of patients undergoing radiotherapy to head and neck 4. Describe dental management of patients on systemic chemotherapy for malignant disease.	●Discuss Principles of surgical management of jaw tumors ●Classify the Mucosal Flaps use for reconstruction ●Describe basic reconstructive principles ●Describe dental management of patients undergoing radiotherapy to head and neck ●Describe dental management of patients on systemic chemotherapy for malignant disease.		
Salivary glands disorders	1.Basic overview of Salivary glands, Infections of Salivary Glands 2. Beningn and Malignant Pathologies of Salivary Gland	●Discuss Embryology, Anatomy and Physiology ●Discuss Diagnostic Modalities ●Describe obstructive salivary gland disease ●Discuss Mucous retention and extravasation phenomenon ●Describe salivary gland infections ●Describe Necrotizing sialometaplasia ●Describe sjogren's syndrome ●Discuss traumatic salivary gland injuries ●Describe salivary gland disorders		
TMJ Disorders	1. TMJ Anatomy, Mechanics and patient asessment 2.Classification of TMJ Disorders	●Discuss evaluation ●List classification of TMJ disorder ●Identify sign and symptoms ●Prescribed relevant investigations ●Discuss different treatment options ●Explain permanent occlusion modification ●Explain TMJ surgery		

	3. Medical Management and team approach 4. Surgical Management and follow up	●Advise follow up		
Facial Pain	1. Pain pathophysiology, Classifiction and Neuropathic pain 2. Headaches evaluation and management 3.Facial Nerve Pathology and Facial Palsy	●Discuss basic of pain neurophysiology ●List classifications of orofacial pains ●Discuss neuropathic facial pains ●Describe chronic headache ●Discuss other chronic head pains of dental interest ●Discuss evaluation of orofacial pain patients ●Discuss signs and symptoms ●Take complete history ●Describe management options ●Identify causes of facial nerve pathology' ●Discuss management for facial palsy		
Maxillofacial Trauma	1. BLS and ATLS 2. History and assessment 3. Mandibular Trauma 4.Maxillary Trauma	●Discuss evaluation of patients with facial trauma ●Describe & Demonstrate BLS &ATLS ●Knows ABCDE ●Describe soft tissue injuries ●Describe dentoalveolar injuries ●Discuss causes, classification, sign & symptoms & Management of mandibular fractures ●Identify complication of mandibular fractures ●Discuss causes, classification, sign & symptoms & Management of ZMC fractures ●Prescribed appropriate radiograph ●Identify complication of ZMC fracture ●Describe anatomy of orbit ●Discuss causes, classification, sign & symptoms & Management of Orbital & Nasal fractures ●Identify complication of Orbital & Nasal fracture ●Discuss causes, classification, sign & symptoms & Management of midface fractures ●Identify complication of midface fracture		

Pre-Prosthetic surgery	1.Objectives of preprosthetic surgery, patient evalution and treatment planning 2. Soft tissue Procedures 3. Hard tissue procedures	●Explain objectives of preprosthetic surgery ●Discuss principles of patient evaluation and treatment planning ●Describe recontouring the alveolar ridges ●Describe tori removal ●Describe soft tissue abnormalities ●Define immediate dentures ●Describe overdenture surgery ●Explain mandibular augmentation ●Explain maxillary augmentation ●Describe soft tissue surgery for ridge extension of the mandible ●Describe soft tissue surgery for maxillary ridge extension ●Explain correction of abnormal ridge relationships		
Implant Surgery	1. Introduction to Implants 2. Patient evaluation ,selection and planning 3. Procedure for implant Placement 4. Complications and management	●Discuss Biologic considerations for osseointegration ●List clinical implant components ●Discuss implant prosthetic options ●Discuss preoperative medical evaluation of implant patient ●Describe surgical phase: treatment planning ●Explain basic surgical techniques ●Discuss complications ●Describe advanced surgical techniques ●Discuss special situations		
Developmental defects	1. Embryology, causative factors and Problems in Cleft Patients 2. Management of Cleft lip and Palate patients	●Describe embryology ●Discuss causative factors ●Discuss problems of the cleft afflicted individual ●Explain treatment of cleft lip and palate ●Describe dental needs of cleft afflicted individuals		
Orthognathic surgery	1. Introduction to orthognathic surgery , Patient evaluation and Treatment planning 2. Maxillary Procedures 3. Mandibular Procedures 4. Facial cosmetic surgery	●Classify orthognathic procedures ●Evaluate patients for orthognathic surgery ●Name the procedure to correct jaw abnormality		

General Anaesthesia	1. Introduction 2. Basic Terminologies	• Discuss the basic terminologies • Describe the pre anaesthesia evaluation procedure		

Assessment TOS/Blueprint

Unit/ Chapter	Assessment Method (No. of Questions)			
	MCQS	SEQs	Viva	OSPE
History and examination	2	15 SEQs	Possible Viva Questions	10-15 Stations
Basic Principles of Surgery and wound healing	2			
Cross infection Control & sterilization	2			
Local Anaesthesia	2			
Exodontia	4			
Management of medically compromised patients & medical emergencies	4			
Management of oro facial infections	5			
Diseases of maxillary antrum	1			
Surgical endodontics	1			
Biopsy	1			
Management of cysts and benign tumors	1			
Management of oral malignancies	4			
Salivary glands disorders	2			
TMJ Disorders	1			

Facial Pain	2			
Maxillofacial Trauma	3			
Pre-Prosthetic surgery	1			
Implant Surgery	1			
Developmental defects	2			
Orthognathic surgery	3			
General Anaesthesia	1			
Total	45	15		


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GULFREEN NURSING COLLEGE
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OF ALLIED HEALTH SCIENCES