

Academic Program Description
Ministry of Higher Education and Scientific Research
Supervision and Scientific Evaluation Authority
Quality Assurance and Academic Accreditation
Department

**Academic Programs
Madenat Alelem University
College of Dentistry
Department of Dentistry**

2025-2026



Academic Program Description

University Name: Madenat Alelem University

College/Institute: College of Dentistry

Department of Dentistry :Scientific Department

Academic/Professional Program Name: Bachelor of Dentistry

Final Degree Name: Bachelor of Dentistry

Study System: Semester System

Date of Description Preparation: 2/9/2026

Date of Form Completion: 2/9/2026

Signature:

Name of the Head of Department: Dr.

Fares Abdulkarim

Date

Signature:

Name of the Scientific Assistant:

Lect.Assist. BaneenMueenAbdali

Date

Reviewed by the Quality Assurance and University Performance Division

Assurance and University Performance Division Name of the Head of the Quality:

Date

Signature

Approval of the Dean

أ.د. فارس عبدالكريم
رئيس الجامعة



1. Vision

The College of Dentistry at City of Science University seeks to promote oral and dental health as an essential part of overall physical and psychological well-being. Dental health is considered a cornerstone for ensuring the welfare of individuals and communities. The college aspires to be a gateway of knowledge in oral and dental health in the region, a leader in scientific research, and a hub for modern medical education based on learning outcomes that foster a stimulating environment for students and faculty to achieve creativity and academic excellence. It aims to play an active role in serving Iraqi society in general, and the Babylon community in particular, through the use of advanced research methods and scientific technologies. The college strives to prepare distinguished dentists capable of meeting societal needs, achieving academic excellence, and contributing effectively to the sustainable improvement of oral and dental health.

2. Program Mission

Our mission at the College of Dentistry is to prepare outstanding medical professionals capable of serving society by equipping students with advanced scientific knowledge and high-level professional skills in dentistry. We are committed to providing education and practical training within an integrated learning environment that supports excellence in delivering dental healthcare services with the highest scientific competence. We emphasize continuous scientific development and the application of modern methods in diagnosing and treating patients, thereby contributing to the advancement of oral health and ensuring the graduation of dentists with exceptional scientific and practical competence to serve society sustainably.

3. Program Objectives

- Train and graduate dentists with high levels of knowledge and clinical skills to provide the best therapeutic services.
- Meet the labor market demand for dentists.
- Enhance scientific work by organizing advanced seminars and workshops, and hosting international experts in dentistry.
- Graduate qualified dentists to deliver high-quality medical services that meet community needs, in cooperation with government institutions.
- Strengthen students' academic level and encourage scientific research by providing research opportunities and scholarships locally and abroad.
- Establish a specialized center for maxillofacial surgery to provide advanced surgical procedures for complex cases.
- Promote continuous collaboration with local and international academic and scientific institutions.
- Raise public health awareness and promote preventive measures to maintain oral and dental health.
- Support scientific research to find appropriate solutions to oral health problems in society.
- Launch postgraduate programs covering various dental specialties to ensure continuous development of medical staff.

4. Program Accreditation

Ministry of Higher Education and Scientific Research / Accreditation Councils of Iraqi Dental Colleges.

5. External Influences

Labor market – Field visits to various state institutions and dental care facilities.

6. Program Structure

Notes	Percentage	Credit Hours	Number of Courses	Program Structure
		Basic	Basic	College Requirements



			1	College Requirements
			13 For the first stage	Department Requirements
			Third and Fourth Stage	Summer Training
				Other

1. Faculty Members

Faculty Members

Faculty Name	Academic Rank	Specialization		Special Requirements / Skills (if any)	Number of Faculty Members	
		General Specialization	Specific Specialization		Staff	Lecturers
Assist. Prof.Dr. Faris Abdulkarim	Assistant Professor	Bachelor of medicine and general surgery	Arab Board in Internal Medicine		*	
Assist.Lect. Baneen Mueen Abdul Ali	Assistant lecturer	Science of biology	Microbiology		*	
Dr. Haider Wahab	Lecturer	Electrical and Electronic Engineering	Communications and Computer Engineering		*	
Assist.Lect. Shahd Imad	Assistant Lecturer	Political Science	Political Systems and Public Policies		*	
Zain Al-Abdeen Sattar		Bachelor of Dentistry	Bachelor of Dentistry		*	
Lect. Dr. Ali Jalil	Lecturer	Chemistry Sciences	Polymer Chemistry			*
Lect. Dr. Ali Kadhim	Lecturer	Physics Sciences	Remote Sensing and Image Processing			*
Assist. Lect. Murtadha Qadir	Assistant Lecturer	Oral and Dental Medicine and Surgery	Specialization in Conservative and Aesthetic Dentistry			*
Dr. Samer Sabah	Doctor	General and Internal Surgery	Arab Board in General Surgery			*



Academic Study Plan: Department of Dentistry							
Academic Stage	Course Code	Module Title	Theoretical	Teaching Method	Practical	Teaching method	Units
First stage First semester	MDEN121101	Medical biology 1	2	lectures	2	Practical	3
	MDEN121102	Medical physics 1	2	lectures	2	Practical	3
	MDEN121103	Medical Chemistry 1	2	lectures	2	Practical	3
	MDEN121104	Human Anatomy 1	2	lectures	2	Practical	2
	MDEN121105	Computer science	2	lectures	2	Practical	2
	MDEN121106	Dental Anatomy 1	1	lectures	2	Practical	2
	MDEN121107	Human rights	2	lectures	0	-	2
First stage Second semester	MDEN121208	Medical biology 2	2	lectures	2	Practical	3
	MDEN121209	Medical physics	2	lectures	2	Practical	3
	MDEN1212010	Medical chemistry 2	2	lectures	2	Practical	3
	MDEN1212011	Medical terminology	2	lectures		-	2
	MDEN1212012	Human Anatomy 2	2	lectures	2	Practical	2
	MDEN1212013	Dental Anatomy 2	2	lectures	2	Practical	2

Expected Learning Outcomes for the Program :2

knowledge .A		Learning Outcomes
A 1	Demonstrates a comprehensive understanding of core dental concepts and relevant biomedical sciences, which serve as the foundation for comprehending human growth, development, and overall health	Engaging in lifelong learning and striving to continually expand knowledge, maintain scientific and clinical competence, and integrate modern technology into the practice of dentistry and its diverse disciplines
A 2	The student defines fundamental dental terminology, such as dental caries and gingivitis	
A 3	The student explains the core principles of evidence-based dentistry and their correlation with scientific research	



A 4	The student selects the optimal clinical instruments and materials for application in designated clinical scenarios	
Skills .B		Educational Outcomes
B 1	The student executes local anesthetic protocols with precision, ensuring maximum patient safety and efficacy	The student demonstrates the proficiency to critically interpret and evaluate data to ascertain the accuracy and reliability of information derived from scholarly sources
B 2	The student strictly adheres to established infection control protocols and sterilization standards within the clinical environment	
B 3	The student effectively manages mild post-extraction hemorrhage utilizing evidence-based clinical interventions	
B 4	The student systematically correlates clinical examination findings with radiographic data to formulate a precise diagnosis	
C- Values		the education result
C1	The student recognizes the rules and ethics governing the dentistry profession to be a role model in practicing the profession with high integrity and ethics, which reflects in all aspects of their professional life	Promoting dental professional ethics and social responsibility
C2	The student demonstrates mindfulness of the ethical guidelines established by professors or senior practitioners, encompassing confidentiality, informed consent, and equity in patient care	
C3	The student actively engages in discussions regarding the significance of obtaining patient consent prior to initiating any therapeutic procedure	
C4	The student demonstrates profound respect for patient confidentiality and exhibits adaptability in handling diverse clinical cases and situations. They adhere to legal and ethical behaviors consistent with professional standards, while accommodating the unique needs of young children, adolescents, individuals with special needs, and the elderly	

Educational and Learning Approaches .3

- | | |
|-----------------------------|---------------------------|
| • Lectures with discussions | • White board |
| • Projector | • Guidelines |
| • Seminars | • Q&A sessions |
| • PowerPoint presentations | • Small group discussions |



- | | |
|--|--|
| <ul style="list-style-type: none"> • Procedures • Laboratory skills • Reports • Practical effort | <ul style="list-style-type: none"> • Case studies • Seminars • Oral examinations • Slide presentations |
|--|--|

Evaluation Methods .4

Daily, weekly, and monthly exams, as well as end-of-year examinations

Teaching and Learning Strategies1-

- Didactic lectures
- Interactive dialogue and academic discourse
- Collaborative learning methodologies (utilizing group allocations)
- Brainstorming sessions
- Reciprocal teaching techniques
- Dissemination of instructional materials via the college or departmental portal across all disciplines and faculty
- Integration of multimedia displays and audiovisual technologies
- Composing scholarly research and academic reports in English
- Utilizing English as the primary medium for classroom discourse and active participation
- Executing empirical research and practical experiments aligned with Sustainable Development Goals (SDGs)
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Assessment Methods 2-

- - Regular and surprise quizzes to assess understanding
- - Evaluating research and its writing based on style, expression, and spelling
- - Asking questions to gauge listening skills and attention in the English language
- - Involving students in evaluating their peers' performance
- - Conducting practical evaluation exams focused on listening, speaking, and reading
- - Monthly and semester exams
- - Final theoretical examinations



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- This structure helps to enhance comprehension and engagement in the learning process.
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Professional Advancement

Mentorship and induction of incoming faculty members

- Diversifying pedagogical approaches to classroom management and instructional delivery
- Implementing classroom observations for newly appointed faculty by the department head and senior faculty members
- Conducting structured interviews to assess faculty competence and pedagogical proficiency
- Publishing scholarly research in high-impact international journals, authoring academic texts, and actively participating in professional workshops and conferences

Academic Staff Professional Advancement

- Conducting periodic reviews of the academic program to identify and rectify deficiencies.
- Annual assessment of each academic module by the Department Head or Program Coordinator.
- Regular evaluations of the academic program conducted by faculty members.
- Establishing an external departmental advisory board comprising student representatives and key stakeholders.
- Periodic performance evaluations of teaching staff conducted by the Department Head.
- Administering student evaluations of faculty performance via electronic surveys.
- Conducting faculty self-assessments.
- Evaluating specific academic phases through comprehensive electronic student surveys.
- Collaborating with college and university Quality Assurance divisions to monitor the execution of the academic program within the department.

7. Strategic Personal Development Planning" or "Individual Development Planning

1. Identifying social determinants of health to mitigate disparities and inequities in accessing high-quality healthcare.
2. Self-Awareness: Critically examining and reflecting upon personal knowledge, proficiencies, beliefs, biases, and emotional drivers that influence personal and professional development.
3. Professionalism: Exhibiting ethical behaviors and core values that uphold the trust bestowed upon the

profession by patients, interprofessional colleagues, and society at large.

4. Lifelong Learning: Synthesizing and applying foundational scientific knowledge (including dental, social, behavioral, administrative, and clinical sciences) to critically appraise scientific literature, elucidate pharmacological mechanisms, resolve therapeutic challenges, and advance both population health and patient-centered care.
5. Formulating evidence-based prevention, intervention, and health education strategies tailored for individuals and communities to manage chronic conditions and optimize health outcomes.
6. Facilitating comprehensive health education across diverse demographics by employing the most efficacious and sustainable pedagogical methods to transfer knowledge and evaluate comprehension

8. Admission Standards and Requirements

1. Adherence to the general GPA requirements for central admission, as established by the regulatory frameworks and directives of the Ministry of Higher Education and Scientific Research.
2. Conducting personal interviews for applicants to evaluate and document any speech-related, behavioral, or personal impairments.

1. Primary Information Resources Regarding the Academic Programme

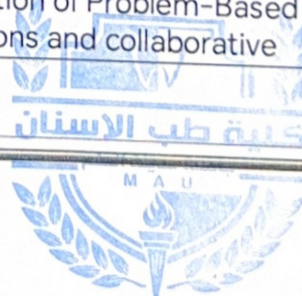
- Ministry of Higher Education and Scientific Research (MOHESR) / Committee of Deans of Iraqi Dental Faculties
- The institutional college website
- Comprehensive academic texts and general references provided by the college across various foundational and clinical medical disciplines (single-department institution)

2. Academic Program Improvement Strategy

Curriculum Appraisal and Evaluation: Establishing a specialised committee comprising faculty members, external consultants, and industry experts in contemporary dental technology.

Performing a comprehensive audit of existing curricula to assess content validity, alignment with international benchmarks, and responsiveness to regional and global market demands.

Interactive Instructional Strategies: Broad-scale implementation of Problem-Based Learning (PBL) to engage students in diverse clinical simulations and collaborative



problem-solving, thereby fostering critical thinking and clinical proficiency.

Adopting blended learning modalities that synthesise traditional instruction with digital education, utilising e-learning platforms for instructional delivery.

Harnessing advanced technology and clinical simulation.

Third: Improving Infrastructure and Practical Training

- Updating and developing university clinics: Equipping clinics with advanced technology such as lasers, high-resolution digital imaging systems, surgical microscopes, and digital X-ray machines.
- Developing laboratories and research centers: Installing advanced laboratories for dental research and technology, enabling students and faculty to conduct research and development in specialised fields.

Fourth: Additional Goals of the Plan

1. Scientific Research Development: Encouraging faculty and students to conduct scientific research, publish in international journals, and participate in international conferences.
2. Innovation and Entrepreneurship: Supporting student initiatives in dental technical innovation and stimulating entrepreneurship through incubators and innovation centers within the university.



Curriculum Competency Mapping" or "Curriculum Matrix

Required Program Learning Objectives

Academic Year / Level	Academic Unit Code	Subject Name	Compulsory or Optional	values				skills				Core Values			
				A1	A2	A3	A4	1B	2B	3B	4B	1C	2C	3C	4C
First year (first semester)	MDEN121101	Medical biology 1													
	MDEN121102	Medical physics 1													
	MDEN121103	Medical chemistry 1													
	MDEN121104	Human anatomy 1													
	MDEN121105	Computer science 1													
	MDEN121106	Dental anatomy 1													
	MDEN121107	Human rights													
First year (second semester)	MDEN121101	Medical biology 2													
	MDEN121102	Medical physics 2													
	MDEN121103	Medical chemistry 2													
	MDEN121104	Human anatomy 2													
	MDEN121105	Computer science 2													
	MDEN121106	Dental anatomy 2													
	MDEN121107	Human rights													



