

Academic Program Description Form

University Name: Al-Ayen Iraqi University

Faculty/Institute: College of Health and Medical Technologies

Scientific Department: Dental Prosthetics Technology

Academic or Professional Program Name: Bachelor of Dental Technology

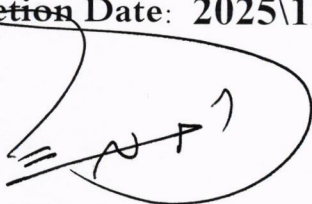
Final Certificate Name:

Academic System: Semester-based

Description Preparation Date: 2025\12\1 :

File Completion Date: 2025\12\3

Signature:

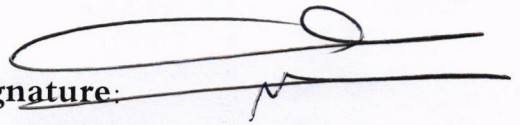


Head of Department Name:

Hussein Abed Dakhil

Date: 23/12/2025

Signature:



Scientific Associate Name:

Date:

23/12/2025

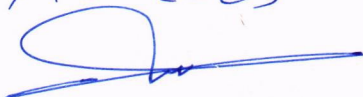
The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

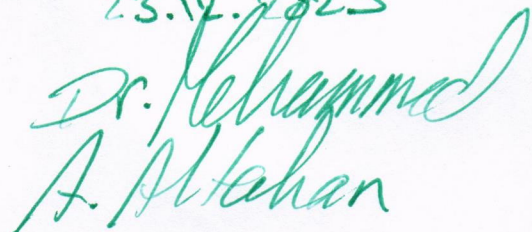
Date: 23/12/2025

Signature:



Approval of the Dean

23.12.2025



Dr. Mohammad
A. Alkhan

1. Program Vision

Preparing specialized scientific professionals with high professional and ethical competence who are capable of keeping up with advancements in dental technology and contributing to community service and problem-solving.

2. Program Mission

Providing high-quality education and distinguished scientific research in the field of dental technology, contributing to the discovery and development of knowledge, and preparing personnel capable of meeting labor market needs and serving the community.

3. Program Objectives

- Preparing and qualifying dental technicians with scientific knowledge and professional skills, enabling them to address oral health problems at both the national and international levels in the field of dental technology.
- Providing high-quality and distinguished health services to the community and keeping pace with developments in medical and health sciences.
- Developing and promoting scientific research, and strengthening collaboration with national industrial and production institutions through the use and application of research outcomes.
- Raising health awareness in the field of dental technology.
- Graduating technical personnel capable of working in dental laboratories and performing all procedures related to dental fabrication, such as fixed and removable orthodontic prostheses and maxillofacial prosthetic rehabilitation.

4. Program Accreditation

The Dental Technology Program is designed in accordance with national and international academic standards to ensure the quality of education, training, and professional outcomes. The program aligns with the **Iraqi Ministry of Higher Education and Scientific Research** requirements and follows the criteria established by the **Quality Assurance and Accreditation**

Directorate.

Additionally, the curriculum is structured to meet global benchmarks in dental technology education, ensuring that graduates possess the competencies required by both local and international professional bodies.

Ongoing internal and external reviews are conducted to maintain accreditation standards, enhance program performance, and ensure continuous improvement.

5. Other external influences

Several external factors influence the development and continuous improvement of the Dental Technology Program, including:

- **Advances in Dental Technology:** Rapid developments in digital dentistry, CAD/CAM systems, 3D printing, and biomaterials require continuous curriculum updates.
- **Healthcare Sector Needs:** The growing demand for qualified dental technicians in public and private healthcare institutions directly shapes program capacity and training priorities.
- **Labor Market Dynamics:** Employment trends and the expanding role of dental laboratories influence graduate skill requirements and program learning outcomes.
- **Professional and Regulatory Bodies:** Recommendations from dental associations, regulatory legislation, and national health policies guide program development.
- **Community Health Needs:** Oral health challenges within the community encourage the program to adjust training and research to address real needs.
- **Technological Infrastructure:** Availability of modern laboratory equipment and support from industrial partners affects the breadth of practical training opportunities.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements				
Summer Training				
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
First Stage (First Semester)		Dental Anatomy (Basic)	2	4
		Dental Materials (Basic)	2	4
		Dental Equipment Techniques (Basic)	2	4
		Occupational Safety	2	–
		Human Rights and Democracy	2	–
		Computer Principles 1	1	2
First Stage (Second Semester)		Dental Materials (Intermediate)	2	4
		Dental Equipment Techniques (Basic)	2	4
		Dental Anatomy (Intermediate)	2	4
		General Physics	2	4
		Arabic Language	2	
		Computer Principles 2	2	3
Second Stage (First Semester)		Dental Material (Advanced)	2	5
		Complete Denture (Basic)	2	5
		Crowns (Basic)	2	5
		Oral histology	2	3
		Chemistry (Basic)	2	4
		Crimes of the Ba'ath Regime in Iraq	2	–
Second Stage (Second Semester)		Partial Denture (Basic)	2	4
		Crowns (Advanced)	2	4
		Oral Physiology	2	4
		Anatomy of the Head and Neck	2	4
		Chemistry (Advanced)	2	4
		Arabic Language	2	–
Third Stage (First Course)		Removable Partial Denture (Intermediate)	2	4
		Complete Denture (Intermediate)	2	4
		Bridges (Basic)	2	4
		Orthodontics (Basic)	2	4
		Oral pathology	1	2
		Computer Applications 1	1	2
Third Stage (Second Course)		Bridges (Advanced)	2	5
		Maxillofacial Prosthetics (Basic)	2	5
		Orthodontics (Intermediate)	2	5
		Oral Bacteriology	2	3

		Research Methods	1	–
		Computer Applications 2	1	2
Fourth Stage (First Semester)		Removable Partial Denture (Advanced 1)	2	4
		Complete Denture (Advanced 1)	2	4
		Crowns and Bridges (Basic)	2	4
		Orthodontics (Advanced 1)	2	4
		Maxillofacial Prosthetics (Intermediate)	2	4
		Dental Implantology	2	4
Fourth Stage (Second Semester)		Removable Partial Denture (Advanced 2)	2	4
		Complete Denture (Advanced 2)	2	4
		Crowns and Bridges (Advanced)	2	4
		Orthodontics (Advanced 2)	2	4
		Maxillofacial Prosthetics (Advanced)	2	4
		Professional Ethics	2	–
		Graduation Project	–	6

8. Expected learning outcomes of the program

Knowledge

1. Students will acquire knowledge and understanding of complete and partial removable as well as fixed dentures.
2. Students will gain knowledge and comprehension of fundamental dental sciences.
3. Students will develop knowledge and understanding of orthodontics and dental implantology.
4. Students will acquire knowledge and understanding of maxillofacial prosthetics.

Skills

1. Students will be able to perform all procedures related to complete and partial removable as well as fixed dentures.
2. Students will be able to carry out all procedures related to orthodontics and dental implantology.
3. Students will be able to perform all procedures related to maxillofacial prosthetics.
4. Students will be able to solve problems related to fundamental dental sciences.

Ethics	
	1. Professional Ethics: Promote adherence to the highest standards of professional ethics in all aspects of dental practice, from diagnosis to treatment. 2. Continuing Education: Encourage students to engage in lifelong learning and continuously seek new knowledge in the field of dental sciences. 3. Social Responsibility: Raise awareness of social responsibility and the importance of providing healthcare to all individuals, regardless of their background. 4. Teamwork: Develop teamwork and effective communication skills among dental professionals to ensure the best possible patient care.

9. Teaching and Learning Strategies

1. **Clinical Training:** Assign students to hospitals and clinics for practical training in the field of dental technology.
2. **Diverse Teaching Strategies:** Employ a variety of teaching methods and strategies suitable for achieving the intended learning outcomes.
3. **Independent Learning and Practice:** Develop students' skills for independent learning and practical work.

10. Evaluation methods

1. Conduct daily assessments.
2. Conduct monthly examinations.
3. Conduct midterm and final examinations.

11. Faculty

Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Hussein Abed Dakhil	*				*	
Abdullah Neamah Abduljaleel	*				*	
Ali Abd Al-Kadhim Jasem		*				*
Ali Mushtaq Naama		*				*
Abaa Enad Hameed		*				*
Zahraa Saadi Nouri		*				*
Al-Ameer Ali Abdul-Ilah		*				*
Anwar Khairi	*				*	
Mustafa Abdulghani	*				*	
Haider Rasan Shandokh	*				*	
Rekhaa Shakir Mohammed	*				*	
Abeer Ali Awad	*				*	
Zainab Adnan Rashid	*				*	

Professional Development
Mentoring new faculty members
Professional development of faculty members

12. Acceptance Criterion
Centralized / According to the requirements of the Ministry of Higher Education and Scientific Research

13. The most important sources of information about the program
Website of Al-Ayen Iraqi University. Website of the College of Health and Medical Technologies

14. Program Development Plan
Participation in courses and conferences. Frequent visits to public and private laboratories to gain skills. Reviewing sources, books, and journals as references for information.

Program Skills Outline

				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First Stage (First Semester)		Dental Anatomy (Basic)		√	√							√			
		Dental Materials (Basic)		√	√							√			
		Dental Equipment Techniques (Basic)		√	√							√			
		Occupational Safety		√	√			√				√			
		Human Rights and Democracy		√	√							√	√		
		Computer Principles 1		√	√			√				√			
First Stage (Second Semester)		Dental Materials (Intermediate)													
		Dental Equipment Techniques (Basic)													
		Dental Anatomy (Intermediate)													
		General Physics													
		Arabic Language													
		Computer Principles 2													

Second Stage (First Semester)		Dental Material (Advanced)													
		Complete Denture (Basic)		√	√			√				√			
		Crowns (Basic)		√	√			√				√			
		Oral histology													
		Chemistry (Basic)													
		Crimes of the Ba'ath Regime in Iraq													
Second Stage (Second Semester)		Partial Denture (Basic)													
		Crowns (Advanced)													
		Oral Physiology													
		Anatomy of the Head and Neck													
		Chemistry (Advanced)													
		Arabic Language													
Third Stage (First Course)		Removable Partial Denture (Intermediate)													
		Complete Denture (Intermediate)													

		Bridges (Basic)													
		Orthodontics (Basic)													
		Oral pathology													
		Computer Applications 1													
Third Stage (Second Course)		Bridges (Advanced)													
		Maxillofacial Prosthetics (Basic)													
		Orthodontics (Intermediate)													
		Oral Bacteriology													
		Research Methods													
		Computer Applications 2													
Fourth Stage (First Semester)		Removable Partial Denture (Advanced 1)													
		Complete Denture (Advanced 1)													
		Crowns and Bridges (Basic)													
		Orthodontics (Advanced 1)													

		Maxillofacial Prosthetics (Intermediate)													
		Dental Implantology													
Fourth Stage (Second Semester)		Removable Partial Denture (Advanced 2)													
		Complete Denture (Advanced 2)													
		Crowns and Bridges (Advanced)													
		Orthodontics (Advanced 2)													
		Maxillofacial Prosthetics (Advanced)													
		Professional Ethics													
		Graduation Project													

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.