

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation
Apparatus
Directorate of Quality Assurance and Academic
Accreditation
Accreditation Department**



Academic Program and Course Description Guide

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Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Academic Program Description Form

University Name: Al Amal College for Specialized Medical Sciences

Faculty/Institute: Al Amal College for Specialized Medical Sciences

Scientific Department: Department of Laser Aesthetic Techniques

Academic or Professional Program Name: Laser Aesthetic Techniques

Final Certificate Name: Bachelor in Aesthetics and Laser

Academic System: Semester

Description Preparation Date: 10-10-2025

File Completion Date: 4-4-2026

Signature:



Head of Department Name:

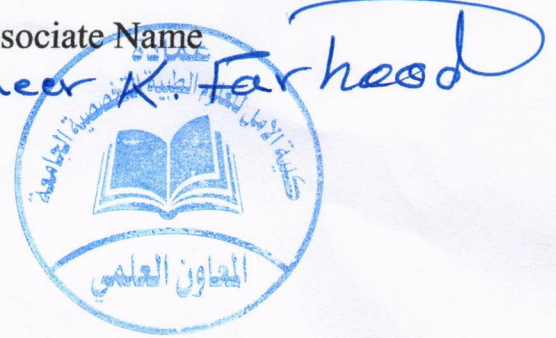
Prof. Dr. Abdulameer

Scientific Associate Name

Date:

Signature:

A. K. Farhood



The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

1. Program Vision

The department aims to be a leader and pioneer in the field of laser cosmetic technologies, and distinguished in education and applied training, in order to contribute to preparing qualified personnel capable of keeping pace with scientific and technological development and meeting the health and cosmetic requirements of society in the future.

2. Program Mission

To qualify students who possess a solid scientific foundation and advanced practical skills in laser cosmetic techniques, through a modern educational environment that relies on quality and continuous improvement, and contributes to providing safe cosmetic services and applied research that serves the health of the individual and society.

3. Program Objectives

1. To prepare specialized personnel in laser aesthetic techniques according to modern scientific and professional standards.
2. To develop curricula and study plans that keep pace with advancements in the field of medical aesthetics and lasers.
3. To enhance the practical and applied aspects of the program using modern equipment and technologies.
4. To contribute to spreading awareness of safe health and aesthetic practices for individuals and the community.
5. To support applied scientific research by students and faculty in the field of laser aesthetics.
6. To utilize digital technologies and artificial intelligence in the educational and training process.
7. To adhere to quality assurance and accreditation standards to achieve continuous improvement and enhance performance.
8. To develop students' knowledge and professional skills and instill ethical values and high standards of conduct.

4. Program Accreditation

The Laser Aesthetics Program is currently working to complete all the requirements for national program accreditation by aligning with the standards of the National Council for Accreditation of Health and Medical Technology Programs in Iraq, and adhering to the qualifications framework set by the Ministry of Higher Education and Scientific Research.

5. Other external influences

The development and sustainability of the Laser Aesthetics program are based on a range of external factors to ensure its scientific and professional rigor. These include:

1. Rapid advancements in optical technology: Continuous curriculum updates reflecting global innovations in laser technology (such as picosecond and nanosecond lasers) to ensure graduates' skills remain up-to-date.
2. Ministry of Health and Environment regulations: Adherence to government regulations and guidelines regarding the opening of beauty centers, the use of medical devices, and protection against non-ionizing radiation.
3. Local labor market needs: Feedback from the private healthcare sector and hospitals identifies the most in-demand technical skills (such as body contouring or laser tattoo removal).
4. International laser safety standards: Adherence to global standards issued by organizations such as ANSI and IEC regarding laser risk classification and prevention methods in clinics.
5. Competition in the healthcare technology sector: The pressure of competition with similar programs at other universities drives the program to adopt modern teaching strategies and state-of-the-art laboratories to maintain the quality of its graduates.

6. Program Structure

The program consists of (4) academic years (semester system), designed to ensure progression from scientific basics to precise technical specialization.

Program Structure	Number of Courses	Credit hours	Percentage	Reviews
Institution Requirements				
College Requirements	8	17		
Department requirements	49	148		
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	
			theoretical	practical
First stage, first course 2025-2026		Medical Physics		
		General Chemistry	2	4
		Medical Terminology I	2	4
		Human Rights	2	-
		Principles of Computer	2	-
		Human Biology	2	2
First stage, second course 2025-2026		Organic Chemistry	2	2
		Skin and Hair Biology	2	4
		Medical Terminology II	2	-
		Laser Physics	2	4
		Arabic Language	2	-
		Anatomy and Histology	2	2

8. Expected Learning outcomes of the program

Knowledge

1. Fundamental Knowledge: Defines the physical principles of operation of different types of lasers (laser systems) and the unique properties of each wavelength.
2. Medical Understanding: Explains the anatomical and physiological structure of the skin layers and appendages, and understands how the laser beam interacts with living tissue (laser-tissue interaction).
3. Technical Comprehension: Understands the principles of selective photothermolysis and the thermal and mechanical mechanisms upon which lasers rely in treatment and cosmetic procedures.
4. Scientific Application: Selects appropriate parameters such as energy, pulse duration, and spot size based on the condition and skin type.
5. Analysis and Diagnosis: Analyzes common skin conditions treatable with lasers and distinguishes between conditions requiring technical intervention and those that pose risks or contraindications.
6. Safety Assessment: Recognizes the potential risks of laser use and classifies devices according to their radiation hazards based on international standards.
7. Knowledge Development: Keeps up-to-date with scientific advancements in medical technology journals and understands how to utilize hybrid technologies (such as lasers combined with radiofrequency (RF)) in cosmetic procedures.

Skills

1. **Technical Proficiency:** Operates and calibrates various laser devices (hair removal, scar treatment, pigmentation treatment) with high efficiency.
2. **Clinical Application:** Executes treatment protocols accurately while strictly adhering to safety and radiation protection standards.
3. **Professional Communication:** Explains procedures to clients and manages sessions with effective and persuasive communication skills.
4. **Problem-Solving:** Ability to make quick and accurate decisions in the event of unexpected skin reactions during procedures.

Values

1. Effective communication and teamwork.
2. Integrity and transparency in academic and professional performance.
3. Professional and social responsibility.
4. Respect for cultural and intellectual diversity and differing opinions.
5. Commitment to the principles of sustainable development.
6. Applying quality standards and continuous improvement.
7. Serving the community and advancing cosmetic health.
8. Excellence and innovation in performance and application.

9. Teaching and Learning Strategies

Teaching Strategies

Directive (Auditory Approach):

- Includes formal lectures with an emphasis on using modern technologies (smart displays).
- **Quality Requirement:** The amount of rote learning should not exceed a certain limit, while allowing time for student interaction.

Discovery (Research-Based) Learning Strategy:

- Directing students to the central library or digital repositories to retrieve information.
- Widely used in case studies in law, business, and economics colleges.

Simulation and Role-Playing Strategy:

- Used in medical and nursing colleges (virtual laboratories) and education colleges (observation and practical exercises).

Learning Strategies

Cooperative Learning:

- Dividing students into small working groups to accomplish a specific task, which develops teamwork and leadership skills.

Self-Learning (Inquiry-Based):

- Assigning students to research additional information from external sources or print and digital libraries to promote self-reliance.

Problem-Based Learning:

- Presenting a real-life case or complex problem, which the student analyzes and arrives at logical solutions based on their studies.

10. Evaluation methods

First: Formative (Continuous) Assessment: This assessment accompanies the learning process throughout the semester and aims to correct progress regularly:

- Quizzes (both surprise and regular): to measure the student's understanding of previous lectures.
- Class Participation: This includes evaluating the quality of contributions, the ability to discuss, and adherence to time limits.
- Homework: To measure the student's ability to research and solve problems independently.

Second: Performance (Practical and Skills-Based) Assessment: Quality focuses on this type to ensure the student acquires skills, not just memorizes:

- Scientific and Technical Reports: To evaluate the student's ability to write academically and analyze laboratory results.
- Presentations: To measure presentation skills, self-confidence, and the ability to present ideas to an audience.
- Practical and Laboratory Tests: Conducted in laboratories or applied fields to evaluate manual and technical skills.
- Research Projects: To evaluate the student's ability to connect information and solve research problems.

Third: Summative Assessment: This assessment takes place at the end of the semester:

- Midterm and Final Examinations: These include a variety of questions (essay, objective, etc.) (Conclusion) To ensure coverage of all

11. Faculty

Faculty Members					
Academic Ranks	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecture
Dr. Fadhil Hanzal Khalif	Medical Microbiology	Clinical Immunology	Head of Department	Staff	
Assistant Professor Dr. Muhammad Alaa Abdul Zahra	Chemistry	Chemistry	Lecturer	Staff	
Dr. Muhammad Thajil Abdullah	Computer Science	Computer Science	Lecturer		Lecture
Dr. Yassin Nadib Ali Khalil	Law	Forensics	Lecturer		Lecture
Dr. Nazim Imran Kadhim	General Medicine	Otolaryngology (ENT)	Lecturer	Staff	

	and Surgery				
Assistant Lecturer Majid Hamid Jabr	General Biology		Lecturer		Staff

Professional Development
Mentoring new faculty members
<ul style="list-style-type: none"> • Legal Compliance: Familiarity with the University Service Law, academic promotion regulations, and civil service employee discipline guidelines. • Academic Description: Full adherence to completing the "Course Specification" according to the targeted learning outcomes. • Teaching Methods: Adoption of student-centered teaching and activation of approved technological tools and digital platforms. • Rigorous Scientific Research: Focus on publishing in Scopus and Clarivate databases and adherence to legal plagiarism rates.
Professional development of faculty members
<ul style="list-style-type: none"> • Educational Qualification: Mandatory participation in teaching methodologies courses and training in modern and blended learning strategies. • Digital Skills Development: Proficiency in using educational platforms such as Google Classroom, statistical techniques, and specialized software. • Rigorous Scientific Research: Training in international publishing skills in Scopus and Clarivate databases and in writing research proposals. • Participation in Events: Attending and actively contributing to local and international conferences, seminars, and workshops to exchange experiences. • Administrative and Leadership Development: Participation in workshops on program accreditation standards, committee management, and self-assessment techniques.

12. Acceptance Criterion
Central admission plan according to the Ministry of Higher Education and Scientific Research

13. The most important sources of information about the program
<ul style="list-style-type: none"> • Program and Course Description: Official documents outlining the curriculum and learning outcomes. • Student Handbook: An introductory booklet on the study system and services. • Self-Assessment Reports: Annual results of the program's quality assessment. • Department Council Minutes: Official academic and administrative decisions. • Feedback Surveys: Views from students, graduates, and the job market. • Website: The updated digital platform for data and activities.

14. Program Development Plan

The academic program development plan is based on: analyzing the current situation (SWOT) to diagnose weaknesses, then updating the curricula to keep pace with scientific development and the labor market, in parallel with raising the efficiency of instructors technologically and academically, and developing the infrastructure such as laboratories and libraries, leading to activating feedback questionnaires to ensure continuous improvement according to annual performance evaluation reports.

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 course	L01	Medical Physics	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L02	General Chemistry	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L03	Human Biology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L04	Medical Terminology I	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L05	Computer Principles	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L06	Human Rights	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
First stage, second course	L07	Organic Chemistry	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L08	Skin and Hair Biology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L09	Medical Terminology II	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L010	Laser Physics	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L011	Arabic Language	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	L012	Anatomy and Histology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Course description

This course develops students' fundamental understanding of computer use and modern digital technologies. It introduces networking and security basics, electronic commerce concepts, computer troubleshooting, and the principles of artificial intelligence. The course also highlights the role of AI in smartphones, major AI applications across sectors, the impact of AI on society, ethical challenges, and future AI trends. It combines one theoretical hour and two practical hours per week to strengthen both conceptual understanding and applied skills.

1. Educational Institution	Amal University College for -AI Specialized Medical Sciences
2. University Department / Center	
3. Course Name / Code	Artificial Computer and Intelligence / Theory
4. Programs in which it is included	IQ Learn
5. Available Forms of Attendance	person-In
6. Semester / Year	First Year / First Semester
7. Total Number of Study Hours	15 Hours
8. Date of preparing this description	1/4/2026
9. Course Objectives:	
<ul style="list-style-type: none"> a- Enable the student to understand the principles of computer networks, common network components, and basic security concepts. b- Enable the student to become familiar with electronic commerce and modern digital banking services. c- Enable the student to identify common hardware, software, and operating system problems and apply basic troubleshooting procedures. d- Introduce the student to the concept, history, characteristics, and limitations of artificial intelligence. e- Enable the student to recognize AI applications in smartphones, education, healthcare, transportation, marketing, finance, robotics, and smart cities. f- Develop the student's awareness of ethical issues, privacy, governance, and the societal implications of artificial intelligence. 	
10. Learning Outcomes, Teaching and Learning Methods, and Evaluation	

A. Knowledge and Understanding

1. Identify the concepts of networks, their types, and their basic components.
2. Understand key issues in network security, network threats, and introductory troubleshooting procedures.
3. Recognize the concepts of electronic commerce and electronic banking services.
4. Understand the major causes of computer malfunctions and the steps used to diagnose hardware and software problems.
5. Explain the concept, history, characteristics, applications, and limitations of artificial intelligence.
6. Recognize the social, ethical, legal, and policy implications associated with AI technologies.

B. Subject-Specific Skills

1. Use basic diagnostic methods to identify simple network and computer problems.
2. Apply introductory troubleshooting procedures for hardware, software, and operating system issues.
3. Distinguish among AI tools, applications, and implementation domains in real-life settings.
4. Discuss AI use cases in smartphones, public services, marketing, education, and healthcare.

C. Teaching and Learning Methods

1. Scientific lectures.
2. Use of instructional aids such as a smart board and display screen.
3. Classroom discussion and question-based learning.
4. Practical explanation using examples and case discussions.
5. Assignments and guided weekly follow-up.

D. Evaluation Methods

1. Quizzes.
2. Midterm and final examinations.
3. Seminars and class participation.
4. Weekly reports or short assignments.
5. Attendance and continuous assessment.

E. Thinking Skills

1. Analytical thinking in identifying digital and technical problems.
2. Linking theoretical concepts to practical applications in computing and AI.
3. Developing awareness of responsible and ethical technology use.

F. General and Transferable Skills

1. Improve the student's ability to use digital technologies effectively.
2. Develop communication and teamwork skills through class activities.
3. Strengthen problem-solving and decision-making skills in technology-related contexts.
4. Promote independent learning and continuous professional development.

11. Course Structure

Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
1	1	The student understands networking basics and components.	Security and Networking: What is a network? Types of networks and basic network components.	Theory	Quiz + Attendance
2	1	The student recognizes the principles of network security.	Security and Networking (Cont.): Network security basics and understanding network threats.	Theory	Quiz + Attendance
3	1	The student understands the concept of e-commerce.	E-Commerce: Concepts of electronic banking services, including ATM services and payment cards.	Theory	Quiz + Attendance
4	1	The student recognizes common computer problems.	Computer Troubleshooting: Identifying and solving hardware and software problems.	Theory	Quiz + Attendance
5	1	The student understands basic diagnostic tools.	Computer Troubleshooting (Cont.): Basic techniques and tools for diagnosing and resolving issues.	Theory	Quiz + Attendance
6	1	The student identifies the concept of artificial intelligence.	Introduction to AI: Definition of AI, history of AI, techniques, and approaches.	Theory	Quiz + Attendance
7	1	The student understands AI characteristics and benefits.	Introduction to AI (Cont.): Key characteristics of AI, benefits, challenges, and ethical considerations.	Theory	Quiz + Attendance
8	1	The student recognizes AI applications in smartphones.	The Role of AI in Modern Smartphones: AI-driven technologies and virtual assistants.	Theory	Quiz + Attendance

12. Infrastructure	
<p>Required Readings:</p> <p>Microsoft Office Professional 2010 Step by Step.</p>	<p>References:</p> <ol style="list-style-type: none"> 1. Graham Brown, David Watson, Cambridge IGCSE Information and Communication Technology, 3rd Edition (2020). 2. Alan Evans, Kendall Martin, Mary Anne Poatsy, Technology in Action Complete, 16th Edition (2020). 3. Ahmed Banafa, Introduction to Artificial Intelligence (AI), 1st Edition (2024). 4. Microsoft Office 2019 Step by Step, 1st Edition, Curtis Frye and Joan Lambert. 5. Ali Al-Khader Bahhath, Computer Basics, 2016. 6. Ali Abduljabbour, An Introduction to Artificial Intelligence, 2005.
<p>Special Requirements (Workshops, Journals, Software, Websites):</p> <p>Electronic websites and educational platforms related to basic computing, operating systems, office applications, internet browsing, e-mail, and cloud services.</p>	<p>Electronic Websites:</p>
<p>Social Services (Guest Lectures, Professional Training, Field Studies, Others)</p>	<p>Organizing workshops and courses for graduates:</p> <p>Organizing workshops and training courses to support students and graduates in digital literacy and the use of modern computer applications.</p>

13.	
Prerequisites	
Minimum Number of Students	
Maximum Number of Students	

Name of the Instructor: Dr. Mohammed Thajeel Abdullah

Course description

The use of computers and digital technologies has become an essential part of academic and professional life. This course aims to enable students to acquire the core practical skills needed to use computers and modern technologies, while becoming familiar with selected contemporary applications of artificial intelligence. The practical component focuses on laboratory-based applications related to networking and network security, computer troubleshooting, and the practical use of selected digital and intelligent services. The course does not require advanced prior knowledge in programming or computer science.

11. Educational Institution	Amal University College for -AI Specialized Medical Sciences
12. University Department / Center	
13. Course Name / Code	Computer and Artificial Intelligence / Practical
14. Programs in which it is included	IQ Learn
15. Available Forms of Attendance	person-In
16. Semester / Year	First Year / First Semester
17. Total Number of Study Hours	30 Hours
18. Date of preparing this description	1/4/2026
19. Course Objectives:	
<p>g- Enable the student to understand the principles of computer networks, common network components, and basic security concepts.</p> <p>h- Enable the student to become familiar with electronic commerce and modern digital banking services.</p> <p>i- Enable the student to identify common hardware, software, and operating system problems and apply basic troubleshooting procedures.</p> <p>j- Introduce the student to the concept, history, characteristics, and limitations of artificial intelligence.</p> <p>k- Enable the student to recognize AI applications in smartphones, education, healthcare, transportation, marketing, finance, robotics, and smart cities.</p> <p>l- Develop the student's awareness of ethical issues, privacy, governance, and the societal implications of artificial intelligence.</p>	
20. Learning Outcomes, Teaching and Learning Methods, and Evaluation	

D. Knowledge and Understanding

7. Identify the concepts of networks, their types, and their basic components.
8. Understand key issues in network security, network threats, and introductory troubleshooting procedures.
9. Recognize the concepts of electronic commerce and electronic banking services.
10. Understand the major causes of computer malfunctions and the steps used to diagnose hardware and software problems.
11. Explain the concept, history, characteristics, applications, and limitations of artificial intelligence.
12. Recognize the social, ethical, legal, and policy implications associated with AI technologies.

E. Subject-Specific Skills

5. Use basic diagnostic methods to identify simple network and computer problems.
6. Apply introductory troubleshooting procedures for hardware, software, and operating system issues.
7. Distinguish among AI tools, applications, and implementation domains in real-life settings.
8. Discuss AI use cases in smartphones, public services, marketing, education, and healthcare.

F. Teaching and Learning Methods

6. Scientific lectures.
7. Use of instructional aids such as a smart board and display screen.
8. Classroom discussion and question-based learning.
9. Practical explanation using examples and case discussions.
10. Assignments and guided weekly follow-up.

G. Evaluation Methods

6. Quizzes.
7. Midterm and final examinations.
8. Seminars and class participation.
9. Weekly reports or short assignments.
10. Attendance and continuous assessment.

H. Thinking Skills

4. Analytical thinking in identifying digital and technical problems.
5. Linking theoretical concepts to practical applications in computing and AI.
6. Developing awareness of responsible and ethical technology use.

I. General and Transferable Skills

5. Improve the student's ability to use digital technologies effectively.
6. Develop communication and teamwork skills through class activities.
7. Strengthen problem-solving and decision-making skills in technology-related contexts.
8. Promote independent learning and continuous professional development.

14. Course Structure					
Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
1	2	The student applies the practical skill related to the topic	Security and Networking: What is a network? Types of networks and basic network components.	Practical	Practical quiz + Attendance
2	2	The student applies the practical skill related to the topic	Security and Networking: Basics of network security and understanding network threats.	Practical	Practical quiz + Attendance
3	2	The student applies the practical skill related to the topic	E-Commerce: Concepts of electronic banking services such as ATM, payment cards, phone-based and mobile banking services.	Practical	Practical quiz + Attendance
4	2	The student applies the practical skill related to the topic	Computer Troubleshooting: Identifying common hardware and software problems.	Practical	Practical quiz + Attendance
5	2	The student applies the practical skill related to the topic	Computer Troubleshooting: Applying basic diagnostic techniques and tools and solving problems.	Practical	Practical quiz + Attendance
6	2	The student applies the practical skill related to the topic	Introduction to AI: Definition of artificial intelligence, its history, techniques, and approaches.	Practical	Practical quiz + Attendance
7	2	The student applies the practical skill related to the topic	Introduction to AI: Key characteristics of AI, its benefits, challenges, and ethical considerations.	Practical	Practical quiz + Attendance
8	2	The student applies the practical skill related to the topic	The Role of AI in Smartphones: Smart technologies and virtual assistants.	Practical	Practical quiz + Attendance

9	2	The student applies the practical skill related to the topic	The Role of AI in Smartphones: Adaptive learning and real-time translation services.	Practical	Practical quiz + Attendance
10	2	The student applies the practical skill related to the topic	Applications and Tools of AI: Overview of applications in industry, education, and healthcare.	Practical	Practical quiz + Attendance
11	2	The student applies the practical skill related to the topic	Applications and Tools of AI: Transportation, marketing, and advertising.	Practical	Practical quiz + Attendance
12	2	The student applies the practical skill related to the topic	Applications and Tools of AI: Finance, robotics, and automation technologies.	Practical	Practical quiz + Attendance
13	2	The student applies the practical skill related to the topic	AI and Society: The social and international impact of AI and the future of humanity.	Practical	Practical quiz + Attendance
14	2	The student applies the practical skill related to the topic	Ethical Challenges in AI: Ethics, privacy, surveillance, and its impact on the labor market.	Practical	Practical quiz + Attendance
15	2	The student applies the practical skill related to the topic	The Future of AI: Future trends, recent research, and emerging technologies.	Practical	Practical quiz + Attendance

15. Infrastructure	
<p>Required Readings:</p> <p>Microsoft Office Professional 2010 Step by Step.</p>	<p>References:</p> <ol style="list-style-type: none"> 7. Graham Brown, David Watson, Cambridge IGCSE Information and Communication Technology, 3rd Edition (2020). 8. Alan Evans, Kendall Martin, Mary Anne Poatsy, Technology in Action Complete, 16th Edition (2020). 9. Ahmed Banafa, Introduction to Artificial Intelligence (AI), 1st Edition (2024). 10. Microsoft Office 2019 Step by Step, 1st Edition, Curtis Frye and Joan Lambert. 11. Ali Al-Khader Bahhath, Computer Basics, 2016. 12. Ali Abduljabbour, An Introduction to Artificial Intelligence, 2005.
<p>Special Requirements (Workshops, Journals, Software, Websites):</p> <p>Electronic websites and educational platforms related to basic computing, operating systems, office applications, internet browsing, e-mail, and cloud services.</p>	<p>Electronic Websites:</p>
<p>Social Services (Guest Lectures, Professional Training, Field Studies, Others)</p>	<p>Organizing workshops and courses for graduates:</p> <p>Organizing workshops and training courses to support students and graduates in digital literacy and the use of modern computer applications.</p>

16.	
Prerequisites	
Minimum Number of Students	
Maximum Number of Students	

Name of the Instructor: Dr. Mohammed Thajeel Abdullah

Course description

This course description provides a summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, proving whether he has made the most of the available learning opportunities and must be linked to the program .description

21. Educational Institution	Al Amal College for Specialized Medical Sciences
22. University Department / Center	Laser Aesthetics Department
23. Course Name / Code	Human Rights L06H
24. Programs in which it is included	IQ Learn
25. Available Forms of Attendance	In-person
26. Semester / Year	First Semester / First Year
27. Total Number of Study Hours	15 hours
28. Date of preparing this description	3/4/2026
29. Course Objectives:	
<ul style="list-style-type: none"> • Cognitive Awareness: Understanding the foundations of human rights and the differences between their various types (civil, political, and economic). • Legal Framework: Familiarity with international conventions (such as the Universal Declaration of Human Rights) and local laws that protect the individual. • Values Reinforcement: Promoting the principles of equality, human dignity, and rejecting discrimination in all its forms. • Protection and Remedy: Knowledge of the legal means to defend rights in case of violation. • Good Citizenship: Cultivating a generation that is aware of its rights and respects the rights of others, thus contributing to the stability of society. 	
1. Learning Outcomes, Teaching and Learning Methods, and Evaluation	
<ul style="list-style-type: none"> • Knowledge: Familiarity with laws, rights, and obligations. • Skill: The ability to analyze violations and defend rights. • Behavior: Upholding the values of equality and treating others with dignity. • Interactivity: Open discussions and brainstorming. • Application: Studying real-life case studies and simulating court proceedings. • Research: Self-reports to 	

deepen legal understanding.

A. Knowledge and Understanding

Knowing human rights means being familiar with the texts and documents; that is, knowing "what" your rights are (such as the right to life, education, and privacy) and what international and national laws protect them.

Understanding human rights means grasping the philosophy and value; that is, understanding "why" these rights exist and how to apply them in your daily life by respecting the dignity of others and ensuring equality without discrimination.

B. Subject-Specific Skills

- **Legal Analysis:** The ability to examine situations and laws and determine their compatibility or conflict with human rights standards.
- **Advocacy and Persuasion:** Possessing the skill of legal and logical dialogue to defend rights and protect vulnerable groups.
- **Conflict Resolution:** The ability to propose peaceful and legal solutions to societal problems based on the principles of justice and equality.

Teaching and Learning Methods

- **Dialogue and Discussion:** Exchanging views on human rights issues to promote critical thinking.
- **Case Study:** Analyzing real-life events to connect theory with legal practice.
- **Simulation (Role-Playing):** Role-playing in international courts or organizations to train students in defending rights.
- **Brainstorming:** Stimulating ideas to find solutions to problems of discrimination or violations.
- **Self-Learning:** Researching charters and treaties to deepen legal knowledge. Assessment Methods

C. Evaluation Methods

- **Written:** Exams and research papers.
- **Oral:** Presentations and class participation.
- **Applied:** Analysis of real-world scenarios.

D. Thinking Skills

- **Critical thinking:** The ability to examine laws and daily practices and identify discriminatory or flawed aspects.
- **Analytical thinking:** Unpacking complex issues to get to the root causes of violations and linking them to the appropriate legal provisions.
- **Ethical thinking:** Making decisions based on the values of dignity and justice, free from personal biases.
- **Creative thinking:** Developing innovative solutions and initiatives to promote a culture of rights and resolve conflicts peacefully.

17. Course Structure

Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
١	Theory 2	The student learns about	The Concept of Human Rights	Theory	Quiz + Attendance
٢	Theory 2	The student understands the topic	Introduction	Theory	Quiz + Attendance
٣	Theory 2	The student understands the topic	Characteristics of Human Rights	Theory	Quiz + Attendance
٤	Theory 2	The student understands the topic	Public and Private Freedoms	Theory	Quiz + Attendance
٥	Theory 2	The student understands the topic	Generations of Human Rights	Theory	Quiz + Attendance
٦	Theory 2	The student understands the topic	Human Rights in Ancient Civilizations	Theory	Quiz + Attendance
٧	Theory 2	The student understands the topic	Human Rights in Religions	Theory	Quiz + Attendance
٨	Theory 2	The student understands the topic	The Universal Declaration of Human Rights	Theory	Quiz + Attendance
٩	Theory 2	The student understands the topic	Human Rights and Democracy in International Treaties	Theory	Quiz + Attendance
١٠	Theory 2	The student understands the topic	Human Rights and Democracy in the Constitution of the Republic of Iraq	Theory	Quiz + Attendance
١١	Theory 2	The student understands the topic	The Concept of Democracy	Theory	Quiz + Attendance
١٢	Theory 2	The student understands the topic	Types of Democracy	Theory	Quiz + Attendance

١٣	Theory 2	The student learns about	The Relationship Between Democracy and Human Rights	Theory	Quiz + Attendance
14	Theory 2	The student understands the topic	Foundations of Democracy	Theory	Quiz + Attendance
15	Theory 2	The student understands the topic	Principles of Democracy	Theory	Quiz + Attendance

18. Infrastructure	
Required Readings:	References: 1. Najm Aboud Al-Samarrai, Principles of Human Rights, 2018. 2. Muhammad Hassan Dakhil, Human Rights and Fundamental Freedoms, 2020. 1. Journal of Human Rights and Public Freedoms 2. Journal of the Generation of Human and Social Sciences.
Special Requirements (Workshops, Journals, Software, Websites):	Electronic Websites: https://www.ohchr.org
Social Services (Guest Lectures, Professional Training, Field Studies, Others)	Organizing workshops and courses for graduates:

19.	
Prerequisites	
Minimum Number of Students	
Maximum Number of Students	

Name of the Instructor: Dr. Yassin Nadib Ali Khalil

This course description provides a summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, proving whether he has made the most of the available learning opportunities and must be linked to the program .description

30. Educational Institution	Al amal university for specialized sciences
31. University Department / Center	Laser Cosmetic Technologies
32. Course Name / Code	human biology (LCT 301)
33. Programs in which it is included	Bachelor of Science in Medical Laboratory Technology
34. Available Forms of Attendance	Attendance
35. Semester / Year	2025-2026
36. Total Number of Study Hours	90 hour (theoretical & practical)
37. Date of preparing this description	2/4/2026
<p>38. Course Objectives:</p> <p>This course aims to enable students to:</p> <ol style="list-style-type: none"> 1. Understand the physical principles of operation of laser devices used in aesthetics. 2. Understand the different types of lasers and their applications in cosmetic procedures 3. Gain knowledge of the fundamentals of laser interaction with skin tissue. 4. Learn about the uses of lasers in hair removal, pigmentation treatment, and skin tightening. 5. Understand occupational safety procedures when using laser devices. 6. Recognize the potential complications of laser treatment and how to manage them. 7. Acquire skills in operating laser devices safely and effectively. 8. Evaluate suitable cases for laser treatment based on skin type and medical condition. 9. Apply ethical and professional standards in the field of aesthetic medicine. 10. Stay up-to-date with the latest developments in laser technologies and their cosmetic applications. 	

2. Learning Outcomes, Teaching and Learning Methods, and Evaluation

E. Knowledge and Understanding

By the end of the course, students are expected to be able to:

- 1. Explain the basic principles of laser operation in cosmetic procedures.**
- 2. Differentiate between various types of lasers and select the appropriate type for each case.**
- 3. Explain the mechanism of laser interaction with skin tissue.**
- 4. Apply occupational safety procedures when using laser devices.**
- 5. Operate laser devices efficiently according to approved protocols.**
- 6. Evaluate cosmetic cases and determine their suitability for laser treatment.**
- 7. Recognize potential side effects and complications and how to manage them.**
- 8. Apply practical skills in laser hair removal and pigmentation treatment.**
- 9. Adhere to professional ethics in patient care.**
- 10. Analyze the latest technologies and advancements in the field of cosmetic lasers.**

F. Subject-Specific Skills

Upon completion of this course, students are expected to be able to:

- 1. Understand the basic physical principles of laser operation (wavelength, absorption, reflection).**
- 2. Identify the types of lasers used in cosmetic procedures and the characteristics of each type.**
- 3. Understand how lasers interact with the skin and biological tissues.**
- 4. Be familiar with skin type classifications and their impact on laser selection.**
- 5. Know the applications of lasers in various cosmetic fields (hair removal, pigmentation, skin rejuvenation).**
- 6. Understand the indications and contraindications for laser use in cosmetic procedures.**
- 7. Recognize the potential risks and complications of laser treatment.**
- 8. Be familiar with occupational safety procedures and protection standards during laser use.**
- 9. Understand the scientific principles for selecting appropriate settings for each case.**
- 10. Know the fundamentals of sterilization and infection control in cosmetic procedures.**
- 11. Be familiar with professional ethics in dealing with clients.**
- 12. Stay up-to-date with the latest developments in cosmetic laser technologies.**

Teaching and Learning Methods

The course utilizes a variety of teaching methods, including:

- 1. Lectures (direct instruction).**
- 2. PowerPoint presentations.**
- 3. Practical training in the laboratory.**
- 4. Case-based learning.**
- 5. Group discussions.**

6. Interactive learning and question-and-answer sessions.
7. Watching educational videos.
8. Clinical training (if available).
9. Self-directed learning and research.
10. Field visits to beauty centers (if possible).

G. Evaluation Methods

Students are assessed using a variety of tools, including:

1. Written (theoretical) exams.
2. Practical laboratory tests.
3. Practical reports.
4. Continuous assessment (assignments and classroom activities).
5. Seminars.
6. Midterm exam.
7. Final exam.
8. Skills assessment.
9. Class participation.

H. Thinking Skills

The student is expected to acquire the following intellectual skills:

1. Analyze cosmetic cases to determine their suitability for laser treatment.
2. Compare different types of laser technologies and select the most appropriate one for each case.
3. Interpret the results of laser treatment and evaluate its effectiveness.
4. Solve problems that may arise during laser sessions.
5. Make appropriate decisions based on the clinical data of each patient.
6. Assess potential risks and develop plans to mitigate them.
7. Integrate theoretical aspects with practical application in laser use.
8. Think critically to evaluate current scientific information and sources.
9. Predict expected treatment outcomes based on skin type and condition.
10. Develop solutions to improve the quality of cosmetic services using modern technologies.
11. Organize and analyze information to make accurate treatment decisions.
12. Evaluate potential errors during the procedure and work to avoid them in the future.

Teaching and Learning Methods

The student is expected to acquire the following skills:

1. Effective communication skills with patients and colleagues.
2. The ability to work effectively and professionally as part of a team.
3. Time management and work organization within the clinic or laboratory.
4. Adherence to professional ethics and conduct.
5. The ability to learn independently and stay up-to-date with the latest scientific developments.
6. Proficiency in using computers and modern technologies in the workplace.
7. The ability to prepare and write accurate and organized reports.
8. Presentation skills.
9. Problem-solving and decision-making skills.
10. Critical thinking and analytical skills.
11. Adaptability to the work environment and technological changes.
12. Maintaining the confidentiality of patient information.
13. Basic scientific research skills.

- 14. The ability to handle work pressure professionally.**
- 15. Adherence to quality and safety standards.**

Evaluation Methods

- **Written tests**
- **Analytical questions**
- **Participation evaluation**

e. General and Transferable Skills

- **Working as part of a medical team.**
- **Communication skills.**
- **Time management.**
- **Adherence to professional ethics.**

9	1	The student understands AI services in smartphones.	The Role of AI in Modern Smartphones (Cont.): Adaptive learning and real-time translation services.	Theory	Quiz + Attendance
10	1	The student recognizes areas of AI application.	Applications and Tools of AI: Overview of AI applications in industry, education, and healthcare.	Theory	Quiz + Attendance
11	1	The student understands AI uses in service sectors.	Applications and Tools of AI (Cont.): Transportation, marketing, and advertising.	Theory	Quiz + Attendance
12	1	The student recognizes advanced AI applications.	Applications and Tools of AI (Cont.): Finance, robotics, and automation technologies.	Theory	Quiz + Attendance
13	1	The student perceives the impact of AI on society.	AI and Society: The impact of AI on social and international relations and the future of humanity.	Theory	Quiz + Attendance
14	1	The student understands ethical issues in AI.	Ethical Challenges in AI: Ethics, privacy, surveillance, and the impact of AI on the job market.	Theory	Quiz + Attendance
15	1	The student recognizes the future of AI.	The Future of AI: Future trends, recent research, and emerging technologies.	Theory	Quiz + Attendance