

**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 Al-Ayen Iraqi University

2024

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.

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.

Academic Program Description Form

University Name: ALAyen Iraqi National University

Faculty/Institute: College of Health and Medical Technologies

Scientific Department: . Dept. of Anesthesia techniques

Academic or Professional Program Name: College of Health and Medical Technologies/Department of Anesthesia Technologies

Final Certificate Name: Bachelor of Anesthesia Techniques

Academic System: annual

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name:

Signature:

Scientific Associate Name:

Date:

12/4/2025

Date:

12/4/2025

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

12/4/2025

Signature:

Approval of the Dean

1. Program Vision

The Department of Anesthesia will be a distinguished academic and research center at the local and international levels, contributing to the development of the field of anesthesia and providing quality health services.

2. Program Mission

Preparing specialized cadres in the field of anesthesia capable of providing distinguished medical services, and promoting scientific research to develop medical technologies in a way that contributes to serving society and achieving sustainable development.

3. Program Objectives

1. Providing high-quality education in the field of anesthesia through an advanced academic environment.
2. Establishing advanced laboratories that allow practical training according to the latest medical technologies.
3. Encouraging scientific research and creativity in the field of anesthesia and related specialties.
4. Enhancing cooperation with health institutions and research centers locally and internationally.
5. Qualifying graduates capable of meeting the needs of the labor market and contributing to improving health care.
6. Establishing a virtual operating room that simulates what is found in teaching hospitals
7. Utilizing artificial intelligence technologies to develop students' skills

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4. Program Accreditation

Under preparation

5. Other external influences

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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	

8. Expected learning outcomes of the program

A.Knowledge

Learning Outcomes	1.Understanding human anatomy, organ functions, and pathophysiology related to anesthesia procedures. 1
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	2. Knowing the basic principles of the effect of anesthetic and analgesic drugs on different body systems. 2 3. Describe the the types and objectives of anesthesia methods (general, local, and regional) and choosing the appropriate method for each case. 4. Knowing the principles of safety during anesthesia, including the management of complications and understanding international and local protocols in the field of anesthesia.
B.Skills	
Learning Outcomes	1.The ability to assess the health status of patients before surgery, including collecting medical history and conducting necessary examinations. 2.Skills to insert devices such as breathing tubes and intravenous catheters accurately and safely. 3.Monitoring the patient's vital functions during and after the operation, and using modern medical devices. 4. Preparing and injecting anesthetic drugs and controlling appropriate doses according to the case and identifying and managing side effects efficiently.
C.Ethics	
Learning Outcomes	1.Commitment to the highest standards of quality in providing medical care. 2.Interact with modern developments in the field of anesthesia and healthcare technologies. 3.Act with integrity and honesty in all medical practices. 4.Commitment to updating knowledge and skills through participation in training courses and scientific conferences

9. Teaching and Learning Strategies
Blended learning • Lectures (Interactive)
Online Lectures (Interactive)
Tutorial
Role play
Computer-based learning (computers e-learning, free downloadable software usage, Webinar)
Team-based learning (group dissuasion, presentation)
Discussion
Case study
Problem solving

10. Evaluation methods

Midterm and final exam
Evaluations

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assistant Lecturer Qasim Kani Hayif	Medical surgical nursing	Basic internal medicine				

Professional Development

Mentoring new faculty members

Professional development of faculty members

1. Participation in training courses held within the college.
2. Participation in professional courses held within the college within the prescribed curricula, as well as professional education courses
3. There are specific units within the personal development programme that give students the opportunity and encourage them to engage in professionally relevant qualifications that allow students to reflect on their professional development.

12. Acceptance Criterion

This is done according to the acceptance rate in the medical group (College of Medical and Health Technologies)

13. The most important sources of information about the program

1. The official website of the college or university: Colleges and universities provide a special section on their official websites that contains:

- Description of the study program.
- Curricula and academic plan.
- Admission and registration requirements.
- Job opportunities after graduation.

Example: Visit the website of the Ministry of Higher Education or the website of the technical university that offers the program.

2. Academic guides

Academic guides published by colleges, such as the student guide, which contain comprehensive information about the program, objectives, and study plans.

Department Professors

Communicating with program professors or teaching staff is a valuable resource for understanding the nature of the study, its requirements, and its future prospects.

4. Program Students and Graduates

Current students or graduates can share their personal experience about the program, its difficulties, and the best ways to succeed in it.

5. Scientific articles and research

View research and articles related to anesthesia techniques published in:

Medical journals.

Academic databases such as PubMed, Elsevier, Springer.

6. Specialized books and references

Scientific books on anesthesia techniques, including topics such as:

Basics of anesthesia.

Use of devices and technology in anesthesia.

Critical case management.

7. Conferences and workshops

Attend medical conferences or workshops that address the latest developments in the field of anesthesia techniques.

14. Program Development Plan

1. Curriculum Development

- **Updating Academic Content:**

- Introduce new courses covering advanced anesthesia techniques, such as smart anesthesia and image-guided anesthesia.
- Add specialized courses in emerging fields, such as pediatric and geriatric anesthesia techniques.

- **Aligning with Global Standards:**

- Benchmark the curriculum against similar international programs and ensure compliance with global accreditation standards.

- **Enhancing Practical Training:**

- Increase the number of hours dedicated to hands-on training in hospitals

2. Upgrading Infrastructure

- **Modern Laboratories:**

- Equip simulation labs with advanced anesthesia systems to train students for real-world scenarios.

- **Advanced Equipment:**

- Provide state-of-the-art devices, such as automated anesthesia machines, patient monitoring systems, and mechanical ventilators.

3. Strengthening Practical and Clinical Training

- **Partnerships with Hospitals:**

- Establish agreements with leading hospitals and medical centers to offer students extensive field training opportunities.

- **Advanced Training Programs:**

- Provide specialized training opportunities locally and internationally, such as regional anesthesia and advanced surgical anesthesia.
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4. Faculty Development

- **Skill Enhancement for Instructors:**

- Offer training workshops for faculty members on the latest techniques and teaching methodologies.
 - Recruit professionals and practitioners in the field of anesthesia to enrich the teaching experience and bring practical expertise.
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5. Advancing Scientific Research

- **Encouraging Student Research:**

- Motivate students to conduct research on anesthesia techniques and present their findings at scientific conferences.

6. Developing Students' Professional and Soft Skills

- **Soft Skills Training:**

- Conduct workshops on communication skills for interacting with medical teams and patients.

- **Safety and Quality Principles:**

- Promote a culture of patient safety and risk management during surgeries.
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7. Enhancing Employment Opportunities for Graduates

- **Graduate Follow-Up Office:**

- Support graduates in securing job opportunities through partnerships with hospitals and healthcare facilities.

- **Career Fairs:**

- Organize career fairs to connect students with employers in the healthcare sector.
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8. Integrating Technology in Education

- **E-Learning Platforms:**

- Implement e-learning systems and virtual simulation tools for teaching theoretical and practical courses.

9. Community Engagement

- **Raising Awareness of Anesthesia Technologists' Role:**

- Organize seminars and awareness campaigns to highlight the importance of the anesthesia technologist profession.

- **Continuous Education Programs:**

- Offer continuing education programs for professionals to update their skills and knowledge.

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
Level two	MTAN400	Basic of internal medicine	basic	√	√		√	√	√	√	√	√	√	√	√
	5														
	MTAN 4006	Anesthesia 3	basic	√	√	√		√	√	√	√	√	√	√	√
Level two	MTAN4001	Surgical internal medicine	basic	√	√	√						√	√		
	MTAN4003	Anaesthetic Equipment Technology 3	basic	√	√	√						√	√		
Level two	MTAN4004	Ethics	optional	√	√							√		√	
	MTAN4002	nursing	basic	√	√	√						√	√		

Level two	MTAN3202	Basics of intensive care	basic	√	√		√	√	√	√	√	√	√	√	
	MTAN3206	surgery	basic	√								√		√	
Level two	MTAN3204	Anesthesia 1	basic	√	√	√						√	√		
Level two	MTAN3203	Medicine(1)	basic	√	√	√						√	√		
	MTAN3201	Computer Application	optional	√								√		√	
	TE-20250125	Applied Physiology	basic									√	√	√	
	TE-20231024	Pharmacology	optional								√	√	√	√	
Level two	MTAN2007	Basics of Surgery	basic								√	√	√	√	

Level two	MTAN3205	Basics of anesthetics equipment	basic	√	√	√					√	√	√		
	TE-20250125-1	Basics of Medicine	basic	√								√		√	
Level two	MTAN20015	General chemistry	basic	√	√	√					√	√	√	√	
	MTAN1104	English language	optional	√								√		√	
Level two	MTAN1108	Computer principles	optional	√	√		√	√	√	√	√	√	√		√
	MTAN1106	Medical physics	basic	√			√	√		√	√	√			√
Level two	MTAN1107	General physiology	basic	√			√	√			√	√			√
Level two	MTAN1109	Human rights & Democracy	optional	√	√		√	√	√	√	√	√	√	√	√
	MTAN1101	anatomy	basic	√	√	√						√	√		

Level two	MTAN11 03	Biology	basic	√		√	√					√			√
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- Please tick the boxes corresponding to the individual program learning outcomes under evaluation