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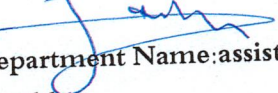Accreditation Department

Academic Program and Course Description Guide

2023−2024

Academic Program Description For Anesthesia Department

University Name: Al-Zahraa University for Girls
Faculty/Institute: College of Health and Medical Technologies
Scientific Department : Department of Anesthesiology
Academic or Professional Program Name: Bachelor of Anesthesia Technology
Final Certificate Name: Bachelor of Anesthesia Techniques
Academic System: annual (first and second stages) + (semester for third and fourth stages)
Description Preparation Date: ٢٢-٢ ٢٠٢٤
File Completion Date: 30-2-2024

Signature:

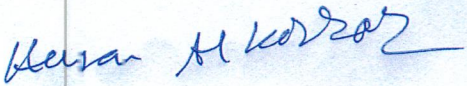Head of Department Name: assist.prof.

Farah Amir abbas

Date: 26/3 / 2024

Signature:

Scientific Associate Name:

lect. dr. Nadia Nayyef Hussein

Date: 27/3/2024

Dean's approval:-
Ass st.prof:- Hassan Hadi Al-Qazzaz

The file is checked by: Lect. dr .Zahraa Saleh Mahdi

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department

Date: 30/3/ 2024

Signature:

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1. Program Vision

The Department of Anesthesia aspires to be a pioneer in the field of technical education at the Iraqi level, locally and internationally, and in the academic and professional fields. And its outputs should be distinguished theoretically and practically by providing the best cognitive programs in the field of anesthesia. Deepening professional and union affiliation in its outputs, and focusing on the practical aspect of education so that its outputs become leaders in the field of anesthesia. In addition to adopting creative and innovative ideas, projects and plans to improve education in anesthesia techniques

2. Program Mission

Qualifying the graduate in anesthesia techniques and working in operating rooms with high efficiency . We work to prepare scientifically qualified cadres to be distinguished members of the health care team in various hospitals. The department is also committed to graduating trained anesthesia technology specialists to assist anesthesiologists in providing safe, high-quality care for the surgical patient. As well as raising the level of quality of teaching anesthesia techniques to develop students' skills and ensure access to knowledge by following and innovating the best methods and programs of study and teaching. Using the latest technology in training and practical application.

3. Program Objectives

It is one of the modern departments that aims to graduate specialized cadres to work in the field of anesthesia and intensive care techniques in operating theaters as well as in intensive care and recovery units, where the graduate is given the title (medical technician / anesthesia specialty) and works in the field of participation in anesthesia, clinical monitoring, Operating equipment and following up on patients in operating theaters and intensive care and recovery units .

Preparing specialized personnel capable of working in the fields of medical anesthesia techniques, who are responsible for studying the country's need for development and progress and capable of meeting the needs of the labor market in the state's health institutions and industry sectors, and preparing an educated generation armed with science and adopting it as a sound basis to bring about radical changes and develop knowledge. Scientific knowledge and the scientific method of thinking and analysis serve the country's goals, enabling it to pursue higher studies and adapt to the development of medical technologies in order to keep pace with the expansion of human needs .

It also aims to apply principles and methods for patient follow-up during and after surgical operations in the intensive care unit

The practice of modern medicine depends effectively on an important number of techniques, tools and principles in anesthesiology. The urgent need for accuracy in diagnostic and treatment methods and improving their performance has led to the continuous development of techniques and tools used in the field of senior anesthesia and adaptation to the development of medical technologies in order to keep pace with the expansion of human needs .

Preparing cadres to support the Ministry of Education and the Ministry of Health to work in the areas of intensive care .

Balance in focusing on the theoretical and applied principles of medical anesthesiology, and working to provide students with analytical, experimental, computational, mathematical, and methodological tools and methods to identify medical problems.

4. **Program Accreditation**
Theoretical and practical study of attendance

5. **Other external influences**
the hospital, Library, Internet

6. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	-	-	-	-
College Requirements	-	-	-	-
Department Requirements	**43**	**210**	-	-
Summer Training	**present**	-	-	-
Other	-	-	-	-

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

-Program description				
Credit hours		**Name of the course or course**	**Course or course code**	**Year/level**
practical	**theoretical**			
		The first course		
4	2	**Medical Physics ((1**		
4	2	**Anatomy ((1**		
4	2	**General Physiology ((1**		
4	2	**General chemistry**		
4	2	**Biology**		**First stage**
2	1	**Computer Principles ((1**		
-	2	**Human rights and democracy**		
-	3	**English**		
		The second course		
4	2	**Medical Physics ((2**		
4	2	**Anatomy ((2**		
4	2	**General Physiology ((2**		**First stage**
4	2	**Biochemistry**		
4	2	**Microbiology**		
2	1	**Computer Principles ((2**		
-	2	**Arabic**		
Credit hours		**Name of the course or course**	**Course or course code**	**Year/level**
practical	**theoretical**			
		The first course		
4	2	**Foundations of anesthesia ((1**		**Second stage**
4	2	**Basics of anesthesia devices ((1**		

practical	theoretical	Name of the course or course	Course or course code	Year/level
4	2	Applied Physiology ((1		
4	1	Fundamentals of Surgery ((1		
4	2	Foundations of internal medicine ((1		
2	2	Pharmaceuticals ((1		
-	2	medical terminology		
-	1	Baath Party crimes		
The second course				
4	2	Foundations of anesthesia 2		Second stage
4	2	Anesthesia equipment techniques 2		
4	2	Applied physiology 2		
4	1	Fundamentals of surgery 2		
4	2	Foundations of internal medicine 2		
2	2	Pharmacokinetics2		
2	1	Statistics		

Credit hours		Name of the course or course	Course or course code	Year/level
practical	theoretical			
5	3	Anesthesia 2		Third
5	2	Intensive care techniques 1		
5	2	Anesthesia equipment techniques 2		
3	2	Internal medicine 2		
3	1	Surgery 2		
2	1	Calculator applications 2		
-	1	English		
4	2	Anesthesia 3		Fourth
4	2	Anesthesia equipment techniques 3		
4	2	Intensive care techniques 2		
4	1	Surgical internal medicine		
4	1	Nursing		
-	1	English		
-	2	Professional ethics		

1.	Expected learning outcomes of the program
Knowledge	
Learning Outcomes 1	- Know and understand the different types of anesthesia machines and how to operate, use, maintain and maintain them. - Know and understand the main parts and attached parts of anesthesia

	machine and the function of each part. • Knowledge and understanding of the principles of anesthesia and dealing with the patient. • Knowledge and understanding of the human anatomy and its functions. • Know and understand how to use anesthesia medications. • Knowing and understanding developments in anesthesia devices and medications and keeping up with them
Skills	
Learning Outcomes 2 Learning Outcomes 3	• Ability to apply the principles of foundations of anesthesia and intensive care • Analyzing medical problems from a scientific perspective, arriving at a solution, and being able to suggest alternatives • Enabling graduates to keep pace with research development.
Ethics	
Learning Outcomes 4 Learning Outcomes 5	• Promoting integrity, ethics, and mutual respect between students, teaching and administrative staff in the university environment, and between the technician, his colleagues, subordinates, and patients in the work environment. • Dedication to hard work, collaboration and effective communication. • Achieving balance between academic, professional and personal life. • Building self-confidence, personal development, teamwork, and leadership. • Respect for diversity, peaceful coexistence, and contribution to society. • Maintaining the confidentiality of the place of study or work and respecting the privacy of employees and patients.

2. Teaching and Learning Strategies

- . Ability to learn both simple and deep knowledge exploration and focus on applying knowledge to a solution Existing problems.

- . The student's ability to analyse, apply and organize knowledge so that he can formulate hypotheses and interpretations Description of solutions.

- . Using brainstorming to bring out creative ideas for some gifted students.

- . The distinction is that the test increases the student's motivation towards studying and furthering and is not a means of punishing him

3. Evaluation methods

Daily evaluation
Oral exams
Quarterly exams
final exams
Scientific reports
Commitment to attendance
Participation in lectures
Extracurricular activities
Graduation research

4. Faculty						
Faculty Members						
Academic Rank	**Specialization**		**Special Requirements/Skills (if applicable)**		**Number of the teaching staff**	
	General	**Special**			**Staff**	**Lecturer**
Prof .Dr.	1	0	–	–	1	0
Asst .prof .Dr.	2	0	–	–	1	1
Lecturer .Dr	6	5	–	–	4	7
Lecturer	1	0	–	–	0	1
Asst. Lecturer	15	5	–	–	15	5

Professional Development

Mentoring new faculty members

Briefly describes the process used to orient new, visiting, full-time, and part-time faculty at the institution and department levels.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty members such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

5. Acceptance Criterion

Admission to the college and department is held centrally by the Ministry of Higher Education and Scientific Research after registering in the form prepared by the Ministry.

6. The most important sources of information about the program

The college's website on the Internet
Website of the Ministry of Higher Education and Scientific Research
College library

7. Program Development Plan

The academic program is developed by conducting many training courses for staff and students

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		Medical Physics ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anatomy ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		General Physiology ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		General chemistry	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Biology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Computer Principles ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Human rights and democracy	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		English	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
First stage		Medical Physics ((2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anatomy ((2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
		General Physiology ((2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Biochemistry	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Microbiology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Computer Principles ((2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Arabic	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Second stage		Foundations of anesthesia ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anesthesia equipment techniques (1)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Applied Physiology ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Fundamentals of Surgery ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Foundations of internal medicine ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Pharmaceuticals ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Stage		Subject														
		medical terminology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Baath Party crimes	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Second stage		Foundations of anesthesia (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anesthesia equipment techniques (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Applied physiology 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Fundamentals of surgery (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Foundations of internal medicine (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Pharmaology (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Statistics	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Third stage		Anesthesia	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Intensive care techniques (1)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anesthesia equipment	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

		techniques (2)												
		Internal medicine	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Surgery 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Computer applications 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		English	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fourth stage		Anesthesia (3)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anesthesia equipment techniques (3)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Intensive care techniques (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Surgical internal medicine	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Nursing	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		English	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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