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

2027−2026

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: The Department of Anesthesia Technology seeks to apply international standards in education, scientific research and community service for sustainable development in accordance with Islamic concepts

Program Mission: Anesthesia Department Techniques is aims to have a distinguished scientific standing by graduating qualified cadres to keep pace with developments in the field of anesthesia and intensive care techniques to enhance .professional concepts and ethics among students

Program Objectives:

The department aims to graduate qualified technical personnel to carry out their work in the public and private health sectors and aims to obtain program accreditation and enter international and international classifications

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual) 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: AlKafeel University.....

College/Institute: College of Health and Medical Technologies.....

Scientific Department: **Department of** .....Anesthesia Techniques.....

Name of the academic or professional program: Bachelor's degree.....

Name of final degree: Bachelor of Anesthesia Technology...

Academic system: **semester**

Description preparation date: 25/8/2026

File filling date: 1/9/2026

Signature:

Head of Department Name:

Asst.proff.Dr.Israa Abdul-Ameer

Date: 1/9/2026

Signature:

Scientific Associate Name:

Asst.proff.Dr.Sddiq Ghani Joda

Date: 1/9/2026

The file is checked by: Asst. Lect. Ali Najeh Abbas

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

1/9/2026

1. Program Vision

The Department of Anesthesia Technology seeks to be one of the best academic departments recognized for its integrity, meeting international standards in education, application of knowledge and scientific research, serving the community for the comprehensive and sustainable development of humanity, and dedication and embodiment of the spirit of Islamic values.

2. Program Mission

The Department of Anesthesia Technologies is keen to enhance the various cognitive aspects of community development by creating a distinguished scientific environment capable of producing a new generation with knowledge in various fields, which helps in building our society and providing an atmosphere of scientific excellence capable of enhancing scientific and cognitive creativity for generations. The department also seeks to offer a variety of scientific courses in various fields characterized by a culture of creativity in the work environment and the development of professional and cognitive capabilities. Instilling moral values, to enable students to acquire basic knowledge and skills in the field of anesthesia and critical care technology, enhance self-confidence, develop the spirit of cooperation, and recognize the importance of teamwork in the medical team.

3. Program Objectives

1. 1- To graduate qualified technical personnel to carry out their work efficiently and carefully according to professional foundations, with a focus on the ethics and honor of the profession and patient privacy.
2. 2- Qualifying a graduate of the Anesthesia Techniques Department to work in hospitals and health centers, able to work in a proper manner
3. Distinguished, with a high quality of education and efficient skills in the fields of anesthesia, in a way that is compatible with the labor market
4. 3- He must have experience in prescribing, determining and giving the appropriate dose of anesthesia to the patient according to many factors (age, nature of the medical procedure, health history...)
5. 4- Employing cadres trained to follow up on the patient's condition during the operation and ensuring that he does not wake up. He has high efficiency in monitoring ventilators in operating rooms, following up and monitoring the patient's health status during anesthesia with high efficiency, and communicating with patients to explain the nature and type of anesthesia.

4. **Program Accreditation** Minestary
Does the program have program accreditation? And from which agency? No

5. **Other external influences** Chief of collage
Is there a sponsor for the program? Ministry of Higher Education– Private Education Department Higher Education Authority– Attabah Abbasia

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	1	1	6%	Guidance optional
College Requirements	1	5	7%	
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	
			theoretical	practical
Year one		Medical Physics I	2	4
		Anatomy I	2	4
		General Physiology I	2	4
		General Chemistry	2	–
		Biology	2	4
		Human Rights and Democracy	2	4
		Arabic language	2	–
		Medical Terminology I	2	–
		Medical Physics I	2	4
		Medical Physics II	2	4
		Anatomy II	2	4
		General Physiology II	2	4
		Biochemistry	2	4
		Microbiology	2	4
		Computer I	1	3
		Medical Terminology II	1	1
Year Two		Basics of Anesthesia I	2	4
		Basics of Anesthesia Equipment I	2	4
		Applied Physiology I	2	4
		Basics of Medicine I	2	4
		Basics of surgery I	1	4
		Pharmacology I	2	2
		Crimes of the Baath Regime in Iraq	2	-
		Computer II	2	4
		Basics of Anesthesia II	2	4

		Basics of Anesthesia Equipment II	2	4
		Applied Physiology II	2	4
		Basics of Medicine II	1	4
		Basics of surgery II	2	2
		Pharmacology II	1	2
		Statistics	2	-
		Arabic language	2	4
Year Three		Anesthesia I	2	5
		Basics of Intensive Care I	2	4
		Anesthesia Equipment Technology I	2	4
		Medicine I	2	4
		Surgery I	1	3
		Anesthesia II	2	5
		Basics of Intensive Care II	2	4
		Anesthesia Equipment Technology II	2	4
		Medicine II	2	4
		Surgery II	1	3
Year four		Advance Anesthesia I	2	5
		Advance Anaesthetic Equipment Technology I	2	4
		Intensive Care Technology I	2	4
		Advance Medicine I	2	3
		Pain Management	2	3
		Professional Ethics	2	-
		Advance Anesthesia II	2	5

		Advanced Anaesthetic Equipment Technology II	2	4
		Intensive Care Technology II	2	4
		Advance Medicine II	2	3
		Emergency Medicine	2	3
		Project	-	5

Human Anatomy/Physiology/ biology **Chemistry** Physics	Gain a comprehensive understanding of the structure and function of the human body at the cellular, tissue, organ, and system levels. Grasp the chemical processes within living organisms and their role in health and disease. Knowledge of the physics of the human body through knowledge of the natural structure and function of the body, the systems of the main organs, and the physical laws that control them
Skills	
Early Clinical and Professional Development (ECPD)	Develop the skills to gather a comprehensive medical history from patients and perform a thorough physical examination.
Medical Terminology	Become proficient in medical terminology to accurately document and discuss patient conditions.

Ethics	
Medical Ethics	To treat all patients according to principles of medical ethics, emphasizing patient confidentiality, informed consent, and professional integrity
Patient safety 8.	To develop essential clinical skills with the overall aim of ensuring patients' safety.

1. **Teaching and Learning Strategies** skills and values acquired by students after Theory lectures
2. Laboratory sessions
3. Display and presentation.
4. Interactive discussion
5. Brainstorming
6. Flipped classroom.
7. Seminar
8. Clinical visit

9. Small group teaching =

Teaching and learning strategies and methods adopted in the implementation of the program in general.

10. Evaluation methods Day Examin Coues Examin, Final examin

Implemented at all stages of the program in general.

1. Homework and individual and group reports
2. Daily quizzes
3. Practical skills assessment
4. Midterm and end of term exams
5. Graduation projects

11. Faculty

Faculty Members

Academic Rank Professor	Specialization Pathology		Special Requirements/ Skills (if applicable) HISTOPSTHOLOGY		Number of the teaching staff 0NE THERORY ONE PRACTIC	
	General	Special			Staff	Lecturer
Assistant Professor.Israa Abdul Ameer	Biology	microbiology			✓	
Professor Dr.Ali khalif hassin	Physics	nuclear			✓	
Asst.L.mohamed sarem hamza	Biology	microbiology			✓	
Professor Muaid Abdullah ali	Medicine	surgery				✓
Assistant Professor .Ali Saleh Hassoun	Biology	Medicinal plants			✓	

Sarah hassan abdualshahid	Medicine	anestesia			✓	
Ali Zaki Azezz	Medicine	anestesia			✓	
Ali talb mohammed	Medicine	anestesia			✓	
Hasineen ahmed Raheem	Medicine	anestesia			✓	
Ghofran Muhammad Hussain	Medicine	medicine			✓	
Montazir nomman mhesin	Medicine	medicine			✓	
Mohammed sahib abduljawad	Medicine	anestesia			✓	
Hussein frhan jaber	Medicine	Medicine			✓	
Ali thoban abbas	Law				✓	
Mutayim abdulredha mohammed	Medicine	Medicine			✓	
Alaa kareem kazim	Ecology	ecology			✓	
Ahmed abbas frhod	Medicine	anestesia				✓
Mudar Mahmoud shaker	Medicine				✓	
Munthai abdul all raishan	Nursing				✓	
Huda noman obaid	Computer				✓	
Fadak mansoor abdul alradha	Analytics				✓	
Ahmed hamodi yosif	Chemistry	Bio chemistry			✓	
Abdulhussain jaafer mosa	Chemistry	Bio chemistry			✓	
Zahraa ali atiyah	Pharmacy	pharmacology			✓	
Esraa hamza jassam	Biology	microbiology			✓	
Abdul all haider habeeb	medicine	surgery			✓	
Mohammd kadium gafait	medicine	medicine			✓	

Professional Development

Mentoring new faculty members= write lactuer and visin lacter .

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

Professional Development

Mentoring new faculty members

Subjecting new teachers to courses on teaching methods and taking a teaching competency test, and only by passing it are they allowed to teach, while following up on their teaching methods and giving them feedback.

Professional development of faculty members

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

Follow up on teaching methods for all teachers by the Office of the Associate Dean, prepare seminars and workshops to develop teaching and speaking skills, and ensure the preparation and presentation of lectures in the continuing medical education curriculum.

12. **Acceptance Criterion** =rat of average marke

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

The academic average for the student's graduation from preparatory school, physical and mental health according to the standards established and approved by the Ministry of Higher Education and Scientific Research

13. **The most important sources of information about the program**

State briefly the sources of information about the program. =book and journal

1. Approved and authenticated documents for the general curriculum of the college and the courses, vision, mission, and goals of the university and college in both Arabic and English.

2. The website of the Ministry of Higher Education and Scientific Research.

3. The official website of Al-Kafeel University and its College of Health and Medical Technologies, Department of Anesthesia Technologies

4. Billboards installed in the college corridors.

14. Program Development Plan
By practice and theory lecture 1)Systematic and recurring self-evaluation studies of the program are based on evaluating the learning and teaching outcomes of students and obtaining feedback from students about the components of the program. 2) Holding regular meetings with faculty members in local and foreign health and medical technology colleges to learn about new curricula and teaching methods. 3) Holding workshops on developing curricula and teaching methods in the college or attending those held in neighboring universities.

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

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
Year One	BIO001	Biology	Basic	/	/	/		/	/	/		/	/	/	
	AN001	Anatomy	Basic	/	/	/		/	/	/		/	/	/	
	CH001	Chemistry	Basic	/	/	/		/	/	/		/	/	/	
	PHC001	Physic	Basic		/				/					/	
	PHY001	Physiology	Basic	/	/	/		/	/	/		/	/	/	
	PC001	Computer	Optional			/				/					/
	ENG001	English language	Optional				/				/				/
	AR001	Arabic Language	Optional				/				/				/

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
Year Two		Basics of Anesthesia	Basic	/	/	/		/	/	/		/	/	/	
		Basics of Anesthesia Equipment	Basic	/	/	/		/	/	/		/	/	/	
		Applied Physiology	Basic	/	/	/		/	/	/		/	/	/	
		Basics of Medicine	Basic		/				/					/	
		Basics of surgery	Basic	/	/	/		/	/	/		/	/	/	
		Pharmacology	Basic			/				/					/

		Crimes of the Baath Regime in Iraq	Optional				/				/				/
		Computer	Basic				/				/				/
		Statistics	Basic				/				/				/
		Arabic language	Optional				/				/				/

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
Year three		Anesthesia	Basic	/	/	/		/	/	/		/	/	/	
		Basics of Intensive Care	Basic	/	/	/		/	/	/		/	/	/	
		Anesthesia Equipment Technology	Basic	/	/	/		/	/	/		/	/	/	
		Medicine	Basic		/				/					/	
		Surgery	Basic	/	/	/		/	/	/		/	/	/	

				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
Year four		Advance Anesthesia	Basic	/	/	/		/	/	/		/	/	/	
		Advance Anaesthetic Equipment Technology	Basic	/	/	/		/	/	/		/	/	/	
		Intensive Care Technology	Basic	/	/	/		/	/	/		/	/	/	
		Advance Medicine	Basic		/				/					/	
		Pain Management	Basic	/	/	/		/	/	/		/	/	/	

		Professional Ethics	Optional	/	/				/					/	
		Emergency Medicine	Basic	/	/									/	
		Project	Optional	/	/			/		/		/			

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

				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
Year one		Medical Physics II	Basic	/	/	/		/	/	/		/	/	/	
		Anatomy II	Basic	/	/	/		/	/	/		/	/	/	
		General Physiology II	Basic	/	/	/		/	/	/		/	/	/	
		Biochemistry	Basic		/				/					/	
		Microbiology	Basic	/	/	/		/	/	/		/	/	/	
		Computer I	Optional	/	/				/					/	
		Medical Terminology II	Optional	/	/									/	

				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
Year Two		Basics of Anesthesia II	Basic	/	/	/		/	/	/		/	/	/	
		Basics of Anesthesia Equipment II	Basic	/	/	/		/	/	/		/	/	/	
		Applied Physiology II	Basic	/	/	/		/	/	/		/	/	/	
		Basics of Medicine II	Basic		/				/					/	
		Basics of surgery II	Basic	/	/	/		/	/	/		/	/	/	
		Pharmacology II	Optional	/	/				/					/	

		Statistics	**Basic**	/	/									/		
		Arabic language	**Optional**	/	/			/		/		/				
				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**	
YearThree		Anesthesia II	**Basic**	/	/	/		/	/	/		/	/	/		
		Basics of Intensive Care II	**Basic**	/	/	/		/	/	/		/	/	/		
		Anesthesia Equipment Technology II	**Basic**	/	/	/		/	/	/		/	/	/		
		Medicine II	**Basic**		/				/					/		
		Surgery II	**Basic**	/	/	/		/	/	/		/	/	/		

		Anesthesia II	**Optional**	/	/				/					/	
				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**
Year Four		Advance Anesthesia II	**Basic**	/	/	/		/	/	/		/	/	/	
		Advanced Anaesthetic Equipment Technology II	**Basic**	/	/	/		/	/	/		/	/	/	
		Intensive Care Technology II	**Basic**	/	/	/		/	/	/		/	/	/	
		Advance Medicine II	**Basic**		/				/					/	

		Emergency Medicine	**Basic**	/	/	/		/	/	/		/	/	/	
		Project	**Optional**	/	/				/					/	

First Stage /First Course

Course Description Form

1. Course Name:
General chemistry
2. Course Code:
3. Semester / Year:
First Semester/first year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
2025
6. Number of Credit Hours (Total) /
30 hours / 4 units
7. Course administrator's name (mention all, if more than one name)
Name: ahmad hamoody uesif
8. Course Objectives

Course Objectives	**• Be able to understand the basic principles general and life chemistry and its applications** **• Be able to link the traumatic pain to abnor changes in other components of the blood body** **• Have the ability to collect and treat biolog samples**

9. Teaching and Learning Strategies	
Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
30	80		- Scope of biochemistry in health and disease, cell and cell constituents.		

			Some aspects of physical chemistry, Gas laws, Boyle's law, Graham's Law of diffusion, Dalton's Law of partial pressure, General gas equation, the international system of units**.** Radio activity and radioactive isotopes Solutions and methods of expressing concentrations colloidal solution. The PH concept, Acid-base balance, chemical equilibrium, common ion effect. Buffer and buffer systems of physiological importance in living systems**.** Blood, blood constituents, body fluids, regulation of blood Ph and body fluids. Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body fluids. Carbohydrates classification reactions, main carbohydrates in human body Metabolism of carbohydrates, blood glucose factors controlling glucose level in blood Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curve Lipids, classification, derived lipids, compound, lipids Lipid metabolism, lipid abnormalities Proteins, classification, functions, peptide bonds, amino acids, chemical reactions. leic acids and their ression, DNA Replication, Nutation, RNA Topology		

11. Course Evaluation=10 for day examin, 25 first course, 25 second course, 40 final examin.	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**General Chemistry: Principles, Patterns, and Applications** Context4Book
Main references (sources)	General Organic chemistry NE Chemistry
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Medical Physics
2 Course Code:
3. Semester / Year:
First Semester/first year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Class Attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours / 4 units
7. Course administrator's name (mention all, if more than one name)
1. Name: Pro. Dr. Ali Khalaf Hasan Email: alikh.alsinayyid@uokufa.edu.iq
8. Course Objectives

Course Objectives	1 Identify the general concepts of medical physics 2. Identify the most important branches and gene specializations in medical physics - 3. Identify the most important laws of physics related to curriculum.....
9. Teaching and Learning Strategies	
Strategy	1.Lecture method, dialogue discussion, presenting examples, and discussing information via the Internet 2. Daily oral and written exams, monthly exams, daily participation during lectures, participating in discussion and solving questions, preparing reports or up-to-date information about medical physics are included in the prescribed curriculum.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-15	2 theoretical +4 practical	1. Preparing the student and making him familiar with al types of scientific terminology that ar used in his field of work 2. Gain knowledge of basic medical physics concepts	1. Physics of skelet on , Pressure 2. Energy, work an d power of the body 3. Heat and cold in medicine 4. Specific heat, he at capacity, latent heat , thermometer and it' s kinds, heat transfer by conduction, convection and radiation, regulatio n of heat through the human body. 5.Boyle's law, diffusion and mixin g of gases. 6. Physics of lung a nd breathing. 7. Evaporation of liquids, vapor press ure and boiling poin t, humidity, laminar a nd turbulent flow in	Lectures, discussion, questions.	Group work exercises, daily (oral and written) and monthly exa

			liquid.		

11. Course Evaluation

The semester exam, activities for students, and quick exams constitute 30%, and the end-of-course exam constitutes 70%.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book
Main references (sources)	Introduction to Physics in Modern Medici (Suzanne Amador 2002),
Recommended books and references (scientific journals, reports…)	Any book that deals with the basics of medical physics and its applications
Electronic References, Websites	Any site that deals with medical physics

Course Description Form

1. Course Name:	
General biology	
2. Course Code:	
3. Semester / Year:	
First Semester/first year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) /	
30 hours/4 unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Esraa abd alameer Email: Esraahamza@alkafeel.edu.iq	
8. Course Objectives	
Course Objectives	**• Be able to understand the basic principles general and life biology and its applications** **• Be able to link the traumatic pain to abnor changes in other components of the cells body** **• Have the ability to collect and treat biolog samples**
9. Teaching and Learning Strategies	
Strategy	
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15			- **Introduction to biology, the cells, prokaryotic and eukaryotic cells, animal and plant cell** **The Structure of cells , types , shape and** **Movement in and out of cells: diffusion , osmosis , active transport.** **Cell division: Amitosis, Mitosis and Meiosis** **Nucleic acid: DNA and RNA, DNA Replication** **Protein biosynthesis** **Human body tissues: Epithelial tissues** **Muscular and Nervous tissues** **Connective tissues: Bone and cartilage** **Blood (R.B.C and WBc)**		

11. Course Evaluation=10 for day examin, 25 first course, 25 second course, 40 final examin.
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc
12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-human biology

	-Essential cell biology
Main references (sources)	-The core
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1.Course Name:
General Physiology
2. Course Code:
General Physiology
3. Semester / Year:
First semester/first year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Theoretical and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours/4 units
7. Course administrator's name (mention all, if more than one name)
Name: Alla kareem kadim
8. Course Objectives

Course Objectives	• **Identify the principles physiology and its relationship other sciences.** • **Distinguishing between normal physiological state of body and a patholog condition.** • **To be able to use laborat devices and tools.** • **Conducting blood tests and ot body fluids…..**

9. Teaching and Learning Strategies	
Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
first		Physiology of digestive system, organs of digestion, functions			
		Accessory organs of digestion and function			
second		Steps of digestion (carbohydrate, protein, fat digestion and absorption)			
		Urinary system, renal functions, urine formation.			
third		Organs of the urinary system and their function			
		Role of kidney to maintain body fluids to regulate B.Pr., acid base balance			
fourth		Body temperature regulation and control			
		Nervous system, CNS brain function and centers			
fifth		Spinal cord, CSF, Spinal reflexes			
		PNS Autonomic and Sensory			
sixth					

Seventh		Endocrine system control of hormone, types and secretion			
Eighth		Hormonal secretion form different glands Reproductive system, male and female reproductive system			
ninth		Skeletal system physiology.			
Tenth		Special sense physiology (vision, hearing, smell and taste).			

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:	
Department of Anesthesia Techniques	
2. Course Code:	
Anatomy	
3. Semester / Year:	
First Semester/first year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Theory and practical lectures	
6. Number of Credit Hours (Total) / Number of Units (Total)	
3 hours /4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: montha abdala rashaan	
8. Course Objectives	
Course Objectives	**• Identify the principles of anatomy an their relationship to other sciences.** **• Identify the body's systems and orga structure.** **• Identify the precise structure of the organ.** **• Focus on the primary information pertaining to each organ, which is represented by its composition, locati and function…..**
9. Teaching and Learning Strategies	
Strategy	

10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first		S structure and functions			
the second		S spinal rvues Sensory d motor nerves stems GIT system			
the third		GIT system ; parts and structure of wall and stomach			
the fourth		Salivary gland structure , pancreases and Gall Bladder			
Fifth		Liver anatomy structure and functions			
VI					

Seventh		Urinary system kidney , ureter , urinary bladder , urethra			
VIII		Muscular system			
Ninth		Reproductive system - male genitalia . Female reproductive organs			
The tenth		Endocrine glands- anatomy and function			
eleventh		Endocrine glands- anatomy and function . Special sense anatomy			
twelveth		Skeletal system anatomy . The development and inheritance			
Thirteenth					

The tenth quarter Fifteenth					

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	General Anatomy Text book
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1. Course Name:
Arabic language
2. Course Code:
3. Semester / Year:
First Semester/first year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/2 units
7. Course administrator's name (mention all, if more than one name)
Name:ruqia alla muery

8. Course Objectives	
Course Objectives	Introducing the student and making him aware of the most important human rights and what should be done in order to ensure life in freedom and dignity

9. Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	**Bachelor's**	Introduction to linguistic errors (ta' and ha')	Theoretical + practical	Exams
2	1		Introduction to linguistic errors (ta' and ha')2		

3	1		Rules for writing extended and short alifs - solar and lunar letters		
4	1		Writing the hamza		
5	1		punctuation marks		
6	1		The noun, the verb, and the difference between them		
7	1		Objects		
8	1		the number		
9	1		Applications on common linguistic errors		
10	1		Noun and noun - meanings of prepositions		
11	1		Formal aspects of administrative discourse		
12	1		The language of administrative discourse		
13	1		Examples of administrative correspondence		
14	1		Examples of administrative correspondence2		
15	1		Dhaad and Dhaa		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Collector of Arabic Lessons: Mustafa Al-Ghalay
Main references (sources)	
Recommended books and references (scientific journals, reports…)	Books and references on Arabic language
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:

Medical terms

2. Course Code:

3. Semester / Year:

first Semester/first year

4. Description Preparation Date:

2026

5. Available Attendance Forms:

Classes

6. Number of Credit Hours (Total) / Number of Units (Total)

15 Hours/1 unit

7. Course administrator's name (mention all, if more than one name)

Name: mohamed sarem hamza

8. Course Objectives

Course Objectives	**The objectives of the study subject are for the student to be able to distinguish roots and suffixes And prefixes and word endings for medical terms**

9. Teaching and Learning Strategies

Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		**Bachelor's**	Introduction-structural analysis Basic rules of medical word	Theoretical + practical	Exams

			Building		
2			Major suffixes- suffixes denoting a state or condition		
3			Major suffixes-suffixes denoting medical actions		
4			Prefixes- prefixes of No.& measures		
5			Prefixes- prefixes of type Roots		
6			Word terminals Conditions		
7			The body as a whole. Skin & its appendages		
8			Gastrointestinal Tract Respiratory system		
9			Cardiovascular System Blood & lymphatic system		
10			Musculoskeletal system Urogenital system.		
11			Endocrine system		
12			Nervous system		
13			Special senses		
14			Oncology		
15			Speciality related termes		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	The principle of Medical terms
Recommended books and references (scientific journals, reports…)	Books and references on Medical terms
Electronic References, Websites	Internet network

First Stage /Second Course

Course Description Form

1. Course Name:
Medical Physics
2. Course Code:
3. Semester / Year:
second Semester/ first stage
4. Description Preparation Date:
20256
5. Available Attendance Forms:
Class Attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours / 4 units
7. Course administrator's name (mention all, if more than one name)
1. Name: Pro. Dr. Ali Khalaf Hasan Email: alikh.alsinayyid@uokufa.edu.iq
8. Course Objectives

Course Objectives	1 Identify the general concepts of medical physics 2. Identify the most important branches and general specializati in medical physics - 3.Identify the most important laws of physics related to curriculum.....
9. Teaching and Learning Strategies	
Strategy	1.Lecture method, dialogue discussion, presenting examples, and discussing information via the Internet 2. Daily oral and written exams, monthly exams, daily participation during lectures, participating in discussion and solving questions, preparing reports or up-to-date information about medical physics are included in the prescribed curriculum.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-13	2 theoretical +4 practical	1. Preparing the student and making him familiar with al types of scientific terminology that ar used in his field of work 2. Gain knowledge of basic medical physics concepts	1. Physics of cardio vascular system 2. Laser in medicine 3. Electricity within the body 4. Application of el ectricity and magnet ism in medicine 5. Light in medicine , sound in medicine 6. Physics of nuclea r medicine, radiother apy , radiation protection 7. Solar energy Technology 8. Nanotechnology in renewable energy system 9.Energy sector products using nanomaterial's 10. Nanotechnolog y to Hydrogen production	Lectures, discussion, questions.	Group work exercises, daily (oral and written) and monthly exa

11. Course Evaluation

The semester exam, activities for students, and quick exams constitute 30%, and the end-of-course exam constitutes 70%.

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book
Main references (sources)	Introduction to Physics in Modern Medici (Suzanne Amador 2002),
Recommended books and references (scientific journals, reports…)	Any book that deals with the basics of medical physics and its applications
Electronic References, Websites	Any site that deals with medical physics

Course Description Form

1. Course Name :	
Microbiology (2)	
2. Course Code:	
3. Semester / Year:	
Second Semester/first stage	
4. Description Preparation Date:	
2025	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr.Israa abd alameer Email:	
8. Course Objectives	
Course Objectives	**1- To be able to understand the basic princip of biology and their applications** **2- To be able to link between the primitive a developed cells** **3- He must have the ability to collect and process samples** **Biological.** **4- To be able to understand the components the cell.**
9. Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o

	all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		**Bachelor's**	Introduction to biology, the cells, prokaryotic and eukaryotic cells, animal and plant cell	Theoretical + practical	Exams
2+3			The Structure of cells , types , shape and size		
4+5			Movement in and out of cells: diffusion , osmosis , active transport.		
6			division: Amitosis, Mitosis and Meiosis		
7+8			Nucleic acid: DNA and RNA, DNA Replication		
9			Protein biosynthesis		
10+11			Human body tissues: Epithelial tissues		
12			Muscular and Nervous tissues		
13+14			conective tissues: Bone and cartilage		
15			(R.B.C and WBC) and lymph		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	The principle of Biology
Recommended books and references (scientific journals, reports…)	Books and references on Body Physiology
Electronic References, Websites	Internet network

Course Description Form

2. Course Name:
Department of Anesthesiology
3. Course Code:
General Phtsiology
4. Semester / Year:
second course / first stage
5. Description Preparation Date:
2026
6. Available Attendance Forms:
Theoretical and practical lectures
7. Number of Credit Hours (Total) / Number of Units (Total)
30 hours / 4 units
8. Course administrator's name (mention all, if more than one name)
Name: Alla kareem kaduim Email:
9. Course Objectives

Course Objectives	• **Identify the principles physiology and relationship to ot sciences.** • **Distinguishing betw the normal physiolog state of the body an pathological condition.** • **To be able to laboratory devices tools.** • **Conducting blood te and other body fluids..**

10. Teaching and Learning Strategies	
Strategy	

11. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
first		Definition of physiology; cell physiology; cell membrane components and structure.			
second		Movement of fluid, solutes and gases across the cell membrane.			
third		Muscular system types & characteristics.			
fourth		Contraction mechanism, fatigue, muscular pain			
fifth		Types of nerve cells, functions of nerve impulse, synapses and reflexes			
sixth					

		Action potential nerve and musc fiber.			
Seventh		Blood; functions component, plasma and seru			
Eighth		Red blood cells, shape, origin, Hb structure and Anemia			
ninth		W.B.Cs, platelets functions, origin structure			
tenth		Blood clotting mechanism			
eleventh		Cardiovascular system,heart val cycle, HR conductive system.			
twelfth		Heart sounds an murmers, ECG			
thirteenth		Blood pressure			
fourteenth		Respiratory system, Pleura, Types of mechanism of respiration.			
Fifteenth		Oxygen Transporting a exchange Carb			

		dioxide transporting a exchange, Lu Vol. and capaci types of Hypoxia			

12. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)	No specific Books
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet

Course Description Form

1.Course Name:	
Computer	
2.Course Code:	
Computer	
3. Semester / Year:	
second semester /first stage	
4.Description Preparation Date:	
2025	
5.Available Attendance Forms:	
Is mandatory	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15 hours/2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: huda noman Obaid	
8. Course Objectives	
Course Objectives	• **Special goal:** • **Providing the student with the skills of dealing with basic office applications, creating office files and documents, and using the operating system, as well as the basics of working within the digital environment.** • **Overall goal:** • **At the end of the academic year, the student should be able to:** • **- Provide the student with knowledge in managing and using** • **various computer applications.** • **□ Urging the student to be creative and think about specialization** • **projects and keep pace with developments in this field.** • • **□ Providing students with scientific, practical and personal skills** • **that enable them to solve practical problems and deal with** • **them using scientific concepts.**
9. Teaching and Learning Strategies	

Strategy

Name of the unit/topic	Required learning outcomes	hours	week
Microsoft 2010 Run Microsoft Word 2010			.1
Microsoft Word 2010 interface	Bachelor's	1theoretical + 2 practical	.2
File tab, Home tab			.3
Page Layout tab, Display tab			.4
Inserting objects in Microsoft Word			.5
Insert tab, group of pages			.6
Tables group			.7
Tables group			.8
Collection of illustrations			.9
A link group is a header and footer group			.10
Text set, Symbols set			.11
Additional tasks for Microsoft Word 2010			.12
Microsoft PowerPoint 2010, open a new file and a safe on the desktop, Adding and editing slides (title slide, title with content, subtitle, two			.13

	contents, comparison, title only, blank slide, content with comment, image with comment)				
	Add themes Main display group Add animations and adjust time and repetition for entire slides and differently for each slide			.14	
	Add animations to slides			.15	

10. Course Structure

1. Course evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

11. Learning and Teaching Resources

Required textboo (curricular books, any)	• Computer basics and office applications / Part One - Mr. Dr. Ghassan Hamid Abdel Majeed and Dr. Ziad Muhammad Abboud a others.
Main referenc (sources)	• Lectures provided by the subject teacher Books available in the college library
Recommended books and references (scientific journals, reports...)	• All reputable scientific journals related to computer science And solid scientific research published on social networks
Electronic References, Websites	• Internet network

Course Description Form

1. Course Name:
Department of Anesthesia Techniques
2. Course Code:
Anatomy(2)
3. Semester / Year:
second course / first stage
4. Description Preparation Date:
2025
5. Available Attendance Forms:
Theory and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours/ 4 units
7. Course administrator's name (mention all, if more than one name)
Name: montaha abdalaa rashaan
8. Course Objectives

Course Objectives	**• Identify the principles of anatomy and their relationship to other sciences.** **• Identify the body's systems and organ structure.** **• Identify the precise structure of the organ.** **• Focus on the primary information pertaining to each organ, which is represented by its composition, locatio and function.....**

9. Teaching and Learning Strategies	
Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
the first		CNS structure and functions			
the second		PNS spinal nerves Sensory and moto nerves systems			
the third		GIT system ; parts a structure of wall ar stomach			
the fourth		Salivary gland structure , pancreas and Gall Bladder			
Fifth		Liver anatomy structure and functi |			
VI		Urinary system kidn , ureter , urinary bladder , urethra Muscular system | Reproductive syste - male genitalia .			

		Female reproductiv organs .			
Seventh		Endocrine glands anatomy and functio			
VIII		Endocrine glands anatomy and functio Special sense anaton			
		Skeletal system anatomy .			
Ninth		The development a inheritance .			

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	General Anatomy text books
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Second Stage /First Course

Course Description Form

1.Course Name:
Principles of Surgery
2.Course Code: first
3.Semester / Year:
First Semester/ second
4.Description Preparation Date:
2026
5.Available Attendance Forms:
6.Number of Credit Hours / Number of Units
15 hours /3 units
7.Course administrator's name (mention all, if more than one name)
Name: Muayad Alkhafaji Email:muayadalkhafaji@alkafeel .edu.iq

12. Course Objectives	
Course Objectives	• **The student be able to understand basics of surgery……** • **Be able to integrate physiology a anatomy with the basics of surgery** • **To be familiar with common surg problems and how are treated….**

13. Teaching and Learning Strategies	
Strategy	To prepare the student to be familiar with the principles and bas of surgery and how these basics are related to anesthesia.

14. Course Structure: lectures, seminars, and homework

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2			Metabolic response to injury Inflammation acute and chronic		
3			Shock types and pathophysiology		
4			Wounds, tissue repair and scar		
5			Surgical infection		
6			Patient safety		
7			Preoperative care and care in operation		
8			Head injury, management of unconscious patient		
9			Abscess, cellulitis, carbuncle, and nonspecific infections		
10			Gangrene, types, and causes		
11			Fluid therapy		
12			Nutritional support in surgery		
13			Acid–base balance		

14			Spinal injury and peripheral nerve injury		
15			Principles of laparoscopic surgery		

Course Description Form

1. Course Name :
Basics of Medicine (1)
2. Course Code:
3. Semester / Year:
First Semester/second year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/3 units
7. Course administrator's name (mention all, if more than one name)
Name: hussin frhan jaber Email:
8. Course Objectives

Course Objectives	1-The student will be able to identify diseases of the respiratory system and digestive system , kidney, liver and endocrine gland 2- Knowing the signs, tests, and laboratory diagnoses of these diseases 3- Use some appropriate treatments for each of these diseases And ways to distinguish disease states from eac other

9. Teaching and Learning Strategies

Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction.

	3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2	2 theoretical + 3 practical	Bachelor's	Diseases due to infection/ concepts of infection major manifestations /methods of diagnosis bacteremia/ septicemia / principles of management Diseases due to infection/ concepts of infection major manifestations /methods of diagnosis bacteremia/ septicemia / principles of management	Theoretical + practical	Exams
3			Diseases of the respiratory system-Introduction		
4			Diseases of the respiratory system-Introduction		
5			major manifestations /investigations/ resp. function tests		
6			Diseases of the C.V.S. / introduction/ major manifestation investigations		
7			Diseases of the C.V.S. / introduction/ major manifestation investigations		
8			Principles of electrocardiography/ normal ECG/S. Tachycardia/ S. Bradycardia/ S. arrhythmi		
9			AIDS		
10			Diseases of the GIT/ Introduction/ major manifestation/ Investigations		
11			Diseases of the GIT/ Introduction/ major manifestation/		

			Investigations		
12			Diseases of the liver/ introduction/ Bilirubin metabolism/ major manifestations / investigations		
13			Diseases of the liver/ introduction/ Bilirubin metabolism/ major manifestations / investigations		
14			Diseases of the kidney / introduction major manifestations / investigations		
15			Diseases of the kidney / introduction major manifestations / investigations		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1-Oxford hand book of clinical medicin sixth edition, Longmore, Murray,2004 Harrisons principle of internal medicine.2 2th edition 2018
Main references (sources)	The principle of biostatistics
Recommended books and references (scientific journals, reports…)	Books and references on statistics
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Pharmacology (1)	
2. Course Code:	
3. Semester / Year:	
first Semester/second year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/3 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr.ali salih hasoon Email:	
8. Course Objectives	
Course Objectives	The general goal is to familiarize the student with medications and emphasize the medications used anesthesia Own goals At the end of the year, the student will be able to −1− Identify the basics of how the drug works, th ways it affects the body, and how the body is affected by it −2− Distinguish the medications used for each o the body's systems, such as the circulatory and respiratory systems − Knowledge of the medications used in general and spinal anesthesia.
9. Teaching and Learning Strategies	

Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2	2theoretical + 3practical	Bachelor's	Principles of Drug Therapy. Pharmacokinetics; Absorption, distribution, metabolism and excretion of the drugs. Pharmacodynamics; Drug-receptors interaction. Efficacy, potency, agonists, antagonists Cholinergic agonists and antagonists	Theoretical + practical	Exams
3			Adrenergic agonists and adrenergic antagonists		
4			Drugs affecting cardiovascular system: Antihypertensive drugs- Heart Failure-		
5			Drugs affecting cardiovascular system: Anti-arrhythmic Antianginal drugs		
6			Diuretics		
7	1+2		Antihistamines		
8	1+2		Drugs for Disorders of the Respiratory System		
9	1+2		Drugs for Disorders of the Respiratory System		
10	1+2		Drugs for anemia		
11	1+2		Anticoagulants and Antiplatelet Agents		
12	1+2		Skeletal muscle relaxants		
13	1+2		Local anesthetics		
14	1+2		General anesthetics		

15	1+2		General anesthetics		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Essentials of Medical Pharmacology Seventh Editi KD -1 TRIPATHI MD Ex-Director-Professor and Head of Pharmacology, 2013 -MEDICAL PHARMACOLOGY& THERAPEUTICS2 Fifth Edition,Derek G. Waler BSc (HONS),DM, MBBS (HONS), FRCP University of Southampt Southampton, United Kingdom
Main references (sources)	The principle of biostatistics
Recommended books and references (scientific journals, reports…)	Books and references on statistics
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Basics of anesthesia equipment Technique (1)	
2. Course Code:	
3. Semester / Year:	
first Semester/second year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: hasineen ahmed Raheem	
8. Course Objectives	
Course Objectives	Objectives of the course: Teaching the course air to introduce the student to the basics of using an maintaining devices And the modern technologies used in it: Special objectives: 1-Learn about the basics of how anesthesia machines work 2- Dealing with all patient monitoring devices 3- Sustaining and maintaining the devices 4-Knowledge of modern techniques used in anesthesia devices
9. Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o

	all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2+3	2 theoretical + 3 practical	**Bachelor's**	Operating room design and functioning Cannula and giving set and device for intravenous infusion	Theoretical + practical	Exams
4+5			Physical principles: behavior of molecules of solid and liquid, heat and temperature Physical principles: properties of gases, temperature, and flow of fluid through tubes and orifice		
6+11			Endotracheal tube (ordinary tube) , laryngoscope, airway (oropharyngeal and nasopharyngeal), tracheostomy, facemask		
12+15			Breathing system and their component, definition, classification, working principle		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Anesthesia equipment, principle and application, Jan-2 Ehrenwerth, MD, 2"d edition The MGH Textbook of Anesthetic Equipment, Warren S-1 Sandberg, MD, PhD 2"d edition
Main references (sources)	

Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Applied Physiology(1)	
2. Course Code:	
3. Semester / Year:	
First Semester/second year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: mohammd sareem Email:	
8. Course Objectives	
Course Objectives	The general goal: At the end of the academic yea the student will be able to understand the functior of the various body systems Management of emergency and medical cases a their relationship to anesthesia. Specific objectives: The student will be able to: -1 The student learns about the importance and function of some of the body's vital systems, such as the respiratory and cardiovascular systems And its relationship with the work of anesthesia -2 To be able to identify some disorders and pathological conditions in these vital systems and their effect on them The nature of anesthesia. -3 To be able to use equipment and tools in the laboratory.

	−4 To be able to perform various clinical examinations of the body.

9. Teaching and Learning Strategies

Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1+2	**Bachelor's**	electrical components and activity of the heart	Theoretical + practical	Exams
2	1+2		the cardiac action potential in ventricular muscle and pacemaker		
3	1+2		tissues contractile cardiomyocytes and excitation-contraction		
4	1+2		coupling		
5	1+2		ECG and arrhythmia		
6	1+2		cardiac cycle		
7	1+2		heart sound and waveforms generated during cardiac cycle		
8	1+2		the left ventricle pressure-volume loop		
9	1+2		cardiac innervation and control of heart rate		
10	1+2		cardiac reflexes		
11	1+2		systemic circulation		
12	1+2		blood pressure regulation		
13	1+2		physiology of microcirculation (starling law of capillary) venous		
14	1+2		circulation and venousreturn		
15	1+2		coronarycirculation spirometeryandlungvolumes		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Basics of Anesthesia (1)
2. Course Code:
3. Semester / Year:
first Semester/ second year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/4 units
7. Course administrator's name (mention all, if more than one name)
Name: ali talib mohammed

8. Course Objectives

Course Objectives	Provide an overview of the history of anesthesia a its types Handling the patient before anesthesia. Knowledge of all types of narcotic substances. Knowing how to use some equipment for anesthesia and operations

9. Teaching and Learning Strategies

Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	1+2	**Bachelor's**	History of anesthesia and introduction +scope of anesthesiology	Theoretical + practical	Exams
2	1+2		Choice of anesthetic technique		
3	1+2		Pre anaesthetic visit and assessment		
4	1+2		Premedication aims and therapeutic management		
5	1+2		General pharmacology		
6	1+2		General pharmacology		
7	1+2		Inhalational anaesthetic agent (in details)		
8	1+2		Inhalational anaesthetic agents (in details)		
9	1+2		Inhalational an aesthetic agents cont..		
10	1+2		Inhalational an aesthetic agents cont..		
11	1+2		Intravenous an aesthetic agents (in details)		
12	1+2		Intravenous an aesthetic agents (in details)		
13	1+2		Intravenous an aesthetic agents cont..		
14	1+2		Muscle relaxants (in details) & reversal		
15	1+2		Muscle relaxants (in details) & reversal		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Fundamental of anaesthesia,1 fourth edition, Ted Lin, Tim Smith, and Colin Pinnock Lecture note on clinical anaesthesia-2 , 2^* edition CARL GWINNUTT, 2004 3-Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013 .Clinical anesthesia, eighth edition4 Paul G. Barash, MD et al. 2017 l. .
Main references (sources)	
Recommended books and references (scientific journals, reports…)	

Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Crimes of the Baath Regime in Iraq
2. Course Code:
3. Semester / Year:
first Semester/ second year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/2 units
7. Course administrator's name (mention all, if more than one name)
Name: Ali thoban abass
8. Course Objectives

Course Objectives	**The objectives of the study material are to ma the student aware of the heinous crimes committed by the henchmen of the defunct Baath Party**

9. Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	**Bachelor's**	A glimpse into Iraq's modern history	Theoretical	Exams

2			A glimpse into the history of the Baath Party		
3			Violation of rights and freedoms		
4			The impact of the Baathist regime's behaviors on society		
5			Psychological mechanisms in controlling judgment		
6			The transitional period and the fight against tyranny		
7			Social mechanisms in controlling governance		
8			The Baath Party's position on religion		
9			Culture, media, and the militarization of society		
10			Culture, media, and the militarization of society		
11			Use of internationally prohibited weapons		
12			scorched earth policy		
13			Drying of marshes and forced displacement		
14			Destruction of the agricultural and animal environment		
15			Mass graves and bombing of places of worship		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Platform for the crimes of the defunct Baath Pa (Ministerial Book)
Main references (sources)	The principle of biostatistics
Recommended books and references (scientific journals, reports…)	Books and references on statistics
Electronic References, Websites	Internet network

Course Description Form

1.Course Name:
Computer
2.Course Code:
Computer
3.Semester / Year:
second stage/first semester
4.Description Preparation Date:
2025
5.Available Attendance Forms:
Is mandatory
6.Number of Credit Hours (Total) / Number of Units (Total)
15 hours/ 2 units
7.Course administrator's name (mention all, if more than one name)
Name: huda noman Obaid
8.Course Objectives

Course Objectives	• **Special goal:** • **Providing the student with the skills of dealing with basic office applications, creating office files and documents, and using the operating system, as well as the basics of working within the digital environment.** • **Overall goal:** • **At the end of the academic year, the student should be able to:** • **- Provide the student with knowledge in managing and using** • **various computer applications.** • **Urging the student to be creative and think about specialization** • **projects and keep pace with developments in this field.** • • **Providing students with scientific, practical and personal skills** • **that enable them to solve practical problems and deal with** • **them using scientific concepts.**

9.Teaching and Learning Strategies

Strategy

Name of the unit/topic	Required learning outcomes	hours	week
Microsoft 2010 Run Microsoft Word 2010			16
Microsoft Word 2010 interface	Bachelor's	1theoretical + 2 practical	17
File tab, Home tab			18
Page Layout tab, Display tab			19
Inserting objects in Microsoft Word			20
Insert tab, group of pages			21
Tables group			22
Tables group			23
Collection of illustrations			24
A link group is a header and footer group			25
Text set, Symbols set			26
Additional tasks for Microsoft Word 2010			27
Microsoft PowerPoint 2010, open a new file and a safe on the desktop, Adding and editing slides (title slide, title with content, subtitle, two			28

	contents, comparison, title only, blank slide, content with comment, image with comment)				
	Add themes Main display group Add animations and adjust time and repetition for entire slides and differently for each slide			29	
	Add animations to slides			30	

10.Course Structure 1. Course evaluation Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.	
11.Learning and Teaching Resources	
Required textboo (curricular books, any)	• Computer basics and office applications / Part One - Mr. Dr. Ghassan Hamid Abdel Majeed and Dr. Ziad Muhammad Abboud a others.
Main referenc (sources)	• Lectures provided by the subject teacher Books available in the college library
Recommended books and references (scientific journals, reports...)	• All reputable scientific journals related to computer science And solid scientific research published on social networks
Electronic References, Websites	• Internet network

Second Stage /Second Course

Course Description Form

1. Course Name:	
Basic of Anesthesia (2)	
2. Course Code:	
3. Semester / Year:	
second Semester/second year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: ali talib mohamed	
8. Course Objectives	
Course Objectives	Learn about all anesthesia medications and their uses Able to deal with some anesthesia and recovery devices. Resuscitate the patient. The ability to manage a patient when an emergency occurs.
9. Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1+2	Bachelor's	Drugs used in premedication &sedative, analgesic drugs in details.	Theoretical + practical	Exams
2	1+2		Drugs used in premedication &sedative, analgesic drugs in details.		
3	1+2		Drugs used in premedication &sedative, analgesic drugs in details.		
4	1+2		An aesthetic crisis[laryngospasm, bronchospasm, hypoxia during anesthesia, malignant hyperthermia]		
5	1+2		An aesthetic crisis[laryngospasm, bronchospasm, hypoxia during anesthesia, malignant hyperthermia]		
6	1+2		Intravenous fluid type and usage.		
7	1+2		Intravenous fluid type and usage.		
8	1+2		Blood and blood product		
9	1+2		Blood and blood product		
10	1+2		Surgical position and their complications		
11	1+2		Surgical position and their complications		
12	1+2		Cardiopulmonary resuscitation and CPR		
13	1+2		Cardiopulmonary resuscitation and CPR		
14	1+2		Intraoperative patient monitoring		
15	1+2		Safety measures in operating room		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Fundamental of anaesthesia,1 fourth edition, Ted Lin, Tim Smith, and Colin Pinn Lecture note on clinical anaesthesia-2 2^* edition CARL GWINNUTT, 2004

	3-Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013 .Clinical anesthesia, eighth edition4 Paul G. Barash, MD et al. 2017 l. .

Course Description Form

1. Course Name:
Basics of Medicine
2. Course Code:
3. Semester / Year:
Second semester /second year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Lecture and Lab attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
30 hours / 4 units
7. Course administrator's name (mention all, if more than one name)
Name : Hussiun frhan jaber
8. Course Objectives

Course Objectives	**Understand clinical features and diagnosis of impor diseases looking for common social med problemsand understand the important medical te and be aware of the responsibility he may face in fut**
9. Teaching and Learning Strategies	
Strategy	Student can make differences between the different diseases and aware of serious symptoms and signs and to know How investigations can help in diagnosis

10. Course Structure

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
1	4	Introduction to infectious diseases	Infection	Lecture and Lab	test

2		Diagnostic test Bacteramia septicemia	Infection	Lecture and Lab	Home work Test
3		Introduction to Respiratory diseases	Respiratory	Lecture with Lab	Oral test Exam
4		Major features respiratory diseases	Respiratory	lecture with Lab	Test
5		Diagnostic investigation and Pulmonary funct Test	Respiratory	lecture and lab	Presentation group
6		Introduction to CVS	Cardiology	lecture and Lab	Test
7		Features of CVD Investigations	Cardiology	lecture and Lab	Oral test
8		ECG Principles	Cardiology	Lecture	Tests
9		AIDS	Infection	Lecture	Test
10		Introduction to GIT Diseases	Gastroenterology	Lecture and Lab	Presentation group
11		Features of GIT Diseases a investigations	Gastroenterology	Lecture and Lab	Test
12		Liver diseases Bilirubin metabolism	Gastoenterology	lecture and lab	Oral test
13		Features of liver Diseases a investigations	Gastroenterology	lecture and lab	Test
14		Introduction kidney diseases	Renal	lecture and lab	Test
15		Features and Investigations renal diseases	Renal	lecture and lab	Group Presentation

11. Course Evaluation

Evaluation presentation and seminar 40% tests examination 30% Oral Examination 30%

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Oxford text book of Medicine
Main references (sources)	Davidson principle and practice Medicine
Recommended books and references (scientific journals, reports…)	Medicine Myo Clinic
Electronic References, Websites	Use e medicine and share slides

Course Description Form

1. Course Name:	
Pharmacology (2)	
2. Course Code:	
3. Semester / Year:	
second Semester/ second year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30Hours/3 unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr.ali salh hasoon	
8. Course Objectives	
Course Objectives	The general goal is to familiarize the student with medications and emphasize the medications used anesthesia Special goals: At the end of the year, the student will be able to 1. Identify the use of different groups of medications. 2. Knowing the side effects of medications and t effect of high doses on the body (toxicology) .3. Distinguish the different types of antibiotics a their uses.
9. Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o

	all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2	2theoretical + 3 practical	Bachelor's	Hypnotic and sedative drugs Hypnotic and sedative drugs	Theoretical + practical	Exams
3			Narcotic (Opioid), analgesic		
4			Analgesic, antipyretic an anti-inflammatory agents		
5	1+2		Analgesic, antipyretic an anti-inflammatory agents		
6	1+2		Gastrointestinal and Antiemetic Drugs		
7	1+2		Gastrointestinal and Antiemetic Drugs		
8	1+2		Drugs for Diabetes		
9	1+2		Adrenal hormones Corticosteroids--Inhibitors of adrenocorticoid biosynthesis or function		
10	1+2		Antimicrobial agents: Cell wall inhibitors-Protein synthesis .inhibitor- Quinolones and folic acid antagonists-		
11	1+2		Antimicrobial agents: Cell wall inhibitors-Protein synthesis .inhibitor- Quinolones and folic acid antagonists-		
12	1+2		Antifungal drugs-Antiviral drugs-		
13	1+2		Anti-Epileptic drugs		
14	1+2		Anti-Parkinson's drugs		

15	1+2		Clinical toxicology		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Essentials of Medical Pharmacology Seventh Editi KD -1 TRIPATHI MD Ex-Director-Professor and Head of Pharmacology, 2013 -MEDICAL PHARMACOLOGY& THERAPEUTICS2 Fifth Edition,Derek G. Waler BSc (HONS),DM, MBBS (HONS), FRCP University of Southampt Southampton, United Kingdom
Main references (sources)	The principle of Pharma
Recommended books and references (scientific journals, reports…)	Books and references on pharmacology
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Applied physiology (2)
2. Course Code:
3. Semester / Year:
Second Semester/second year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/4 units
7. Course administrator's name (mention all, if more than one name)
Name:Mohamed sarem hamza Email:
8. Course Objectives

Course Objectives	Objectives of the academic subject: General objective: At the end of the academic year, the student will be able to... Understanding the functions of different body systems and dealing with situations Emergency and pathological cases and their relationship to anesthesia Special goals: 1- The student learns about the importance and function of some vital body systems, such as the respiratory system And the heart and blood vessels and their relationship with anesthesia

	2- To be able to identify some disorders and pathological conditions in these vital organs and their effects On the nature of anesthesia 3- To be able to use devices and tools in the laboratory 4- To be able to perform various clinical examinations of the body.

9. Teaching and Learning Strategies

Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical + 3 practical	Bachelor's	Lung mechanics (compliance,resistant)	Theoretical + practical	Exams
2			ventilation perfusion		
3			preoxygenation,apnenic oxygenation and diffusion hypoxia		
4			transport of gases(02,CO2)		
5			systemic effect of hypoxia and hyperoxia		
6			control of ventilation		
7			non respiratory function of lung		
8			preoperative smoking and physiological effects of cessation of smoking		
9			thermoregulatory response to prevent hypothermia and hyperthermia		
10			heat loss during anaesthesi		
11			body fluids and electrolvtes		

12			vomiting and dehvdration		
13			acid base balance		
14			cerebral physiology		
15			physiological differences between child and adult in general		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Pharmacology and physiology for anesthesia,-1 foundation and clinical application, 2nd edition, Hugh C. Hemmings, Jr., MD, PhD, FRCA, 2013 Pharmacology and physiology ni anesthetic practi 2 fifth edition, Pamela Flood, MD, MA, 2015
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Basics of anesthesia Equipment Technique (2)
2. Course Code:
3. Semester / Year:
Second Semester/second year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/4 units
7. Course administrator's name (mention all, if more than one name)
Name: hasineen ahmed Raheem
8. Course Objectives

Course Objectives	Teaching the subject aims to introduce the studer to the basics of using devices, maintaining them, and modern technologies Used in: Special goals: At the end of the year, the student should be abl to: - -1- Identify the sources of pollution in operating theaters and methods of treating them. 2- He is able to deal with methods of sterilizing and maintaining some devices used in anesthesia - He is able to know the basis of work, problems and methods of using equipment and methods in anesthesia The operating rooms include fluid administration devices, anesthesia gas fumigation devices, and measuring devices

	Gas pressure and flow measurement

9. Teaching and Learning Strategies

Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2 3+4	2 theoretical + 3 practical	**Bachelor's**	Atmospheric pollution, measurement and control of pollution, scavenging system Infusion equipment: patient control analgesia, filtration, auto transfusion	Theoretical + practical	Exams
5+8			The supply of anaesthetic gases, cylinders, oxygen concentrator Medical gas services, bulk storage, and supply of gases, piped medical vacuum, electrical supply Distribution of pipework, terminal outlet Flexible pipeline, test and check for medical gas pipeline		
9+10			Vaporizer: law of vaporization, vaporizing system, types of vaporizers Factors affecting vaporizer performance, calibration of vaporizer, filling of vaporizer		
11			Flowmeter and flow control(needle) valves		

12+13			Pressure gauge and reducing valve		
14+15			Cleaning and sterilization: decontamination, disinfection and sterilization		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Text books of anesthesia Equipment Technique
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1.Course Name:
Principles of Surgery
2.Course Code:
3.Semester / Year:
Second semester/ second year
4.Description Preparation Date:
5.Available Attendance Forms:
6.Number of Credit Hours (Total) / Number of Units (Total)
15 ours/1 unit
7.Course administrator's name (mention all, if more than one name)
Name: Muayad abdala ali Email: muayadalkhafaji@alkafeek .edu.iq
8.Course Objectives

Course Objectives	• **The student be able to unde st the basics of surgery……** • **Be able to integrate phys ol and anatomy with basic s surgery….** • **To be familiar with co m surgical problems and ho treated….**

9.Teaching and Learning Strategies	
Strategy	To prepare the student to be familiar with the principles and b s of surgery and how these basics are related to anesthesia.
10.Course Structure: lectures, seminars, and homework	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2 lectures 2 practice	Bachelor	Principles of pediat surgery. Warfare surgery. Day case surgery. Reaction of body t injury. Infection of joint a bone. Ulcer, sinuses, fistu Type of surgical disease (hereditary congenital, acquire Sterile precaution a AIDS. Calcium metaboli calcification. Coagulopathy and blood dyscrasia in surgery. Specific infection. Types of bacteria (surgical microbiology. Venous disease, thrombophlebitis, and venous thrombosis. Oncology. Abortion, CS, hysterectomy.	Lectures and pract	Ex a
11.Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc					
Required textbooks (curricular books, if any)			1-Basic Surgical Technique. Fiona Myient Seventh edition. 2-Textbook of surgery. COURTNEY TOWNSEND, JR., MD,21 edition, 2022		

Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

1.Course Name:
Statistics
2.Course Code:
3.Semester / Year:
second Semester/second year
4.Description Preparation Date:
2026
5.Available Attendance Forms:
Classes
6.Number of Credit Hours (Total) / Number of Units (Total)
15 Hours/1 unit
7.Course administrator's name (mention all, if more than one name)
Name: ali salih hasoon
8.Course Objectives

Course Objectives	**Identify the stages of the statistical process in medical and scientific applications. Recognizing the importance of statistics in the field of scientific research as a basis for analysis in medical and health sciences**

9.Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topi with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed b the students and solved during the lecture, with the participation o all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	1+2	**Bachelor's**	Definition of Biostatistics basic statistics, some concepts .	Theoretical + practical	Exams
2	1+2		Methods of data presentation		
3	1+2		Descriptive statistics		
4	1+2		Descriptive statistics		
5	1+2		Percentiles, Quartiles and range		
6	1+2		Normal Distribution Applications		
7	1+2		Moments,Skweness and Kurtoisis		
8	1+2		Elementary Probability Theory		
9	1+2		Statistics Estimation Theory		
10	1+2		Test of Significant		
11	1+2		Different type of t-test		
12	1+2		Chi-Square significant test		
13	1+2		One way Anova test		
14	1+2		Simple Coloration coefficient		
15	1+2		Simple Linear regression		

12.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)	• Professor Dr.Amjed Doud Niazi: statistical analysis in medical researchers)2^{nd} edition ,March2004. • Wayne W. Danieal (BIOSTATISICS)Basic Concepts and Methodology for the Health Sciences ,9^{th} edition,2010.
Main references (sources)	The principle of biostatistics

Recommended books and references (scientific journals, reports…)	Books and references on statistics
Electronic References, Websites	Internet network

Course Description Form

1.Course Name:
Arabic language
2.Course Code:
3.Semester / Year:
second Semester /second year
4.Description Preparation Date:
2025
4.Available Attendance Forms:
Classes
5.Number of Credit Hours (Total) / Number of Units (Total)
31 Hours/2units
6.Course administrator's name (mention all, if more than one name)
Name:hiba abduljaleel abdulhadi

7.Course Objectives	
Course Objectives	Introducing the student and making him aware of the most important human rights and what should be done in order to ensure life in freedom and dignity

8.Teaching and Learning Strategies	
Strategy	1- Adopting the method of delivering lectures and linking each topic with examples from a real work situation. 2- Giving them some simple practical exercises that are discussed by the students and solved during the lecture, with the participation of all students in the section with the professor, to give the subject a kind of interaction. 3- Presenting some practical cases.

9.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	**Bachelor's**	Introduction to linguistic errors (ta' and ha')	Theoretical + practical	Exams

2	1		Introduction to linguistic errors (ta' and ha')2		
3	1		Rules for writing extended and short alifs - solar and lunar letters		
4	1		Writing the hamza		
5	1		punctuation marks		
6	1		The noun, the verb, and the difference between them		
7	1		Objects		
8	1		the number		
9	1		Applications on common linguistic errors		
10	1		Noun and noun - meanings of prepositions		
11	1		Formal aspects of administrative discourse		
12	1		The language of administrative discourse		
13	1		Examples of administrative correspondence		
14	1		Examples of administrative correspondence2		
15	1		Dhaad and Dhaa		

10.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

11.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Collector of Arabic Lessons: Mustafa Al-Ghalay
Main references (sources)	
Recommended books and references (scientific journals, reports…)	Books and references on Arabic language
Electronic References, Websites	Internet network

Third Stage /first Course

Course Description Form

1.Course Name:	
Anesthesia	
2.Course Code:	
3.Semester / Year:	
First Semester/three year	
4.Description Preparation Date:	
2026	
5.Available Attendance Forms:	
Classes	
6.Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7.Course administrator's name (mention all, if more than one name)	
Name: abass ahamd frhood	
8.Course Objectives	
Course Objectives	**General goal: – To familiarize the student with anesthetic materials and devices used, to prepare the patient before the operation, to monitor him during the operation, and to care for him upon recovery.** **Special objective:–** **At the end of the year, the student will be ab to:** **Identify the different types of anesthetics.** **Giving anesthetic doses in the required amounts.** **Patient care depends on the nature of the operation.** **Monitoring the patient during the operation a upon recovery**

9.Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		**Bachelor's**		Theoretical + practical	Exams
2			Preoperative assessment		
3			Anesthesia for obstetric & Gynecology		
4			Anesthesia for pediatric Patient		
5			Anesthesia for Geriatric Patient		
6			Anesthesia for Obese Patient		
7			Anesthesia for Thoracic Surgery		
8			Anesthesia for ophthalmic Surgery		
9			Anesthesia for Orthopedic Surgery		
10			Anesthesia for Urologic Surgery		
11			Anesthesia for Neurosurgery		
12			Anesthesia for ENT		
13			Controlled Hypotensive Anesthesia		
14			Preoperative assessment		
15			Anesthesia for obstetric & Gynecology		

11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013 –Clinical anesthesia, eighth edition4 Paul G. Barash, MD et a.l 2017.

Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1.Course Name:
Basic of intensive care (1)
2.Course Code:
3.Semester / Year:
First Semester/three year
4.Description Preparation Date:
2026
5.Available Attendance Forms:
Classes
1. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/4 units
2. Course administrator's name (mention all, if more than one name)
Name: hasineen ahmed raheem
3. Course Objectives

Course Objectives	**General objective: Teaching the subject aims t provide students with knowledge about the basics of using and maintaining intensive care equipment in intensive care units.** **Special goals:-** **1- At the end of the year, the student will be able to maintain the devices.** **2- Operating the devices.** **3- Dismantling and re-installing the devices**

4. Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

5. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1		Bachelor's		Theoretical + practical	Exams
2			ICU organization, design, addmision and discharge criterias		
3			ICU organization, design, addmision and discharge criterias		
4			transport of critically ill patients		
5			preventive practices(occupational exposures,alimentary and venous thromboembolism prophylaxis)		
6			preventive practices(occupational exposures,alimentary and venous thromboembolism prophylaxis)		
7			sedation and analgesia in the ICU		
8			oxygen therapy and non invasive ventilation		
9			oxygen therapy and non invasive ventilation		
10			ICU mechanical ventilation(indications,modes of ventilation,weaning and complications)		
11	1+2		mechanical ventilation(indications,modes of ventilation,weaning and complications)		
12	1+2		preventivemechanical ventilation(indications,modes of ventilation,weaning and complications)		
13	1+2		nutrition in the ICU		
14	1+2		nutrition in the ICU		
15	1+2		mecclinical monitoring in ICU(respiratory monitoring,cardiovascular monitoring,hemodynamic and cranial monitoring)		

6. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
7. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013 –Clinical anesthesia, eighth edition4 Paul G. Barash, MD et a.l 2017.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1.Course Name:	
Medicine	
2.Course Code:	
3.Semester / Year:	
first Semester/three year	
4.Description Preparation Date:	
2026	
5.Available Attendance Forms:	
Classes	
6.Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7.Course administrator's name (mention all, if more than one name)	
Name: Said braes mahdi	
8.Course Objectives	
Course Objectives	**General goal: To familiarize the student with a chronic diseases that affect the body's organs and blood.** **Special goals:** **At the end of the year, the student will be abl to distinguish signs of the symptoms that affe him.** **1-Respiratory system.** **2-Digestive system.** **3-The renal and urinary system and kidney diseases.** **4- Liver diseases.** **5-Endocrine diseases.**
9.Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		Bachelor's		Theoretical + practical	Exams
2			ICU Jaundice: classification, causes, clinical features, diagnosis.		
3			Peptic ulcer disease : Duodenal ulcer, Gastric ulcer		
4			Cerbrovascular accident		
5			Renal failure: acute renal failure, chronic renal failure: clinical features, investigations and treatment.		
6			Ischemic heart diseases: clinical features, diagnosis, treatment.		
7			Arrhythmias: cardiac arrest.		
8			Heart failure: definition, classification, causes, precipitating factors, investigations, treatment.		
9			Hypertension: definition, types: primary and secondary hypertension. complications, investigations/ treatment.		
10			Infections of the respiratory tract: upper respiratory tract infections. Lower respiratory tract infections: pneumonia.		
11	1+2		ICU Jaundice: classification, causes, clinical features, diagnosis.		
12	1+2		Peptic ulcer disease : Duodenal ulcer, Gastric ulcer		
13	1+2		Cerbrovascular accident		
14	1+2		Renal failure: acute renal failure, chronic renal failure: clinical features, investigations and treatment.		

15	1+2		Ischemic heart diseases: clinical features, diagnosis, treatment.		

11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	–Oxford hand book of clinical medicine, sixth edition, Longmore, Murray,2004 Harrisons principle of internal medicine.2 th edition 2018
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Surgery	
2. Course Code:	
3. Semester / Year:	
First Semester/three year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15Hours/2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: mouaad abdala ali	
8. Course Objectives	
Course Objectives	**Introducing the student to the various organs the body, the impact of injuries and diseases them from an anatomical and physiological perspective, and the consequences (complications) resulting from them. Also teaching the student the symptoms and signs these conditions and the basic frameworks fo how to deal with them. Introducing the stude to cases that require surgical intervention and explaining the nature of this intervention (wha they may encounter while working in operatio and intensive care), with a focus on emergenc cases. At this stage, the digestive, urinary, respiratory and vascular systems (heart) are studieds.**
9. Teaching and Learning Strategies	

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		Bachelor's		Theoretical + practical	Exams
2			Digestive Tract (GIT) General Review & Surgical Approaches		
3			Salivary glands		
4			Investigation & Diagnosis (Diagnosis Image) endoscopy & tissue Diagnosis		
5			Oesophagus		
6			Stomach & duodenum		
7			Liver		
8			Gall bladder & bile ducts		
9			Spleen & pancreas		
10			Small & large intestine		
11	1+2		Intestinal obstruction & fistula		
12	1+2		Vermiform appendix , peritoneum		
13	1+2		Rectum & anus		
14	1+2		Abdominal wall & Hernia		
15	1+2		Breast		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Harrisons principle of internal medicine. 2th edition 2018
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Anaesthetic Equipments Technology (1)

2. Course Code:

3. Semester / Year:

First Semester/ three year

4. Description Preparation Date:

2025

5. Available Attendance Forms:

Classes

6. Number of Credit Hours (Total) / Number of Units (Total)

30Hours/4 units

7. Course administrator's name (mention all, if more than one name)

Name: sarah hassin abdulshaheed

8. Course Objectives

Course Objectives	**General objective: Introducing all medical devices used in anesthesia. Specific objective Special goals:-** **At the end of the academic year, the student will be able to:** **1- Use all different anesthesia devices.** **2- Maintenance and maintenance of all anesthesia equipment.** **Introducing all parts of medical devices used anesthesia and their techniques**

9. Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2+3+ +5			Airway management device: supra glottis device, laryngeal mask		

			all types, i-gel ,cobra airway, combetube …etc		
6+7+8			Endotracheal tubes for special purpose, double lumen tube		
9+10+11			Laryngoscope modification, aids to intubation, emergency airway		
12+13+14			Oesophagus Humidifier and nebulizer: definition, importance of humidification Classification and examples of humidifier and nebulizer		
15			Medical suction apparatus, component, choice, standard and testing		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Fundamental of anaesthesia,1 fourth edition, Ted Lin, Tim Smith, and Colin Pinnock
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Third Stage /second Course

Course Description Form

1. Course Name:
Anesthesia(2)
2. Course Code:
3. Semester / Year:
Second Semester/three year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/4 units
7. Course administrator's name (mention all, if more than one name)
Name: Ahmad abbas frhod
8. Course Objectives

Course Objectives	**Overall goal:** **Introducing the student to the anesthetic materials and devices used, preparing the patient before the operation, monitoring him during the operation, and taking care of him upon recovery.** **Special objective:-** **At the end of the year, the student will be ab to:** **Identify the different types of anesthetics.** **Giving anesthetic doses in the required amounts.** **Patient care depends on the nature of the operation.**

	Monitoring the patient during the operation a upon recovery.

9. Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2			Regional Anesthesia		
3+4			Post Anesthesia Recovery		
5+6			Common Perioperative Complication		
7+8			Renal Disease and Anesthesia		
9+10			Liver Disease and Anesthesia		
11+12			Hematological Disease and Anesthesia		
13			Anesthesia for Laparoscopic Surgery		
14			Anesthesia for Day Case surgery		
15			Out of Operating Room Anesthesia		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Clinical anesthesia, eighth edition4 Paul G. Barash, MD et al. 2017 l. .
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Basics of Intensive Care (2)
2. Course Code:
3. Semester / Year:
Second Semester / three year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30Hours/4 units
7. Course administrator's name (mention all, if more than one name)
Name: hasineen ahmed Raheem
8. Course Objectives

Course Objectives	**Teaching the course aims to provide students with knowledge about the basics of using and maintaining intensive care equipment in intensive care units.** **Special goals:-** **1- At the end of the year, the student will be able to maintain the devices.** **2- Operating the devices.** **3- Dismantling and re-installing the devices**

9. Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1+2			clinical monitoring in ICU(respiratory monitoring,cardiovascular monitoring,hemodynamic and cranial monitoring)		
3+4			Asthma and COPD in ICU		
5+6			ARDS and TRIALI		
7+8+9			cardiac arrest (CPR,BLS,ACLS,post resuscitation care)		
10+11			IV Fluids and blood transfusion		
12			status epilepticus		
13			head injury and management of increased ICP		
14+15			acid-base balance and disorders		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Clinical anesthesia, eighth edition4 Paul G. Barash, MD et al. 2017 l. .
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Medicine (2)	
2. Course Code:	
3. Semester / Year:	
second Semester/ three year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Said braes mahdi	
8. Course Objectives	
Course Objectives	**General goal: To familiarize the student with a chronic diseases that affect the body's organs and blood.** **Special goals:** **At the end of the year, the student will be abl to distinguish signs of the symptoms that affe him.** **1- Respiratory system.** **2- Digestive system.** **3- The renal and urinary system and kidney diseases.** **4- Liver diseases.** **5- Endocrine diseases.**
9. Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2			Pulmonary T.B.		
3+4			Chronic obstructive pulmonary diseases: chronic bronchitis, emphysema, asthma.		
5+6			Tumors of the lung		
7+8			Vascular lung disease: pulmonary thrombo-embolism.		
9+10			Respiratory failure : definition, types, management.		
11			Diseases of the pleura: pleural effusion: types, causes, investigation, treatment		
12+13			Diabetes mellitus: definition/clinical features/ complications/ treatment.		
14			Cushing syndrome: diagnosis, clinical features, Investigations and treatment		
15			Disturbances of water and electrolytes.		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Clinical anesthesia, eighth edition4 Paul G. Barash, MD et al. 2017 l. .
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Surgery (2)	
2. Course Code:	
3. Semester / Year:	
Second Semester/ three year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
15Hours/1 unit	
7. Course administrator's name (mention all, if more than one name)	
Name: mouaad abdala ali	
8. Course Objectives	
Course Objectives	**Introducing the student to the various organs the body, the impact of injuries and diseases them from an anatomical and physiological perspective, and the consequences (complications) resulting from them. Also teaching the student the symptoms and signs these conditions and the basic frameworks fo how to deal with them. Introducing the stude to cases that require surgical intervention and explaining the nature of this intervention (wha they may encounter while working in operatio and intensive care), with a focus on emergenc cases. At this stage, the digestive, urinary, respiratory and vascular (heart) systems are studied**
9. Teaching and Learning Strategies	

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Trauma to the : K kidneys , Ureter , Bladder , Urethra		
2			Hydronephrosis , Urinary stone , UTI		
3			DVT & pulmonary embolism		
4			Bariatric surgery		
5			Gynecology (hysterectomy , caesarean section)		
6			Urogenital Tract in Males : Prostate , Testis , Penis		
7			Thorax surgery : Respiratory path physiology & General review		
8			Trauma to thorax : Rib Fractures, Flail Chest		
9			Pneumothorax , Haemothorax		
10			Pleural Effusion , Empyema		
11			Chest tube : Application & Management		
12			Pediatric surgery		
13			Types of Thoracic operations		
14			Osteomyelitis		
15			Orthopedic surgery, fracture and dislocation		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Anaesthetic Equipments Technology (2)	
2. Course Code:	
3. Semester / Year:	
second Semester/three year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: sarah hassin abdulshaheed	
8. Course Objectives	
Course Objectives	**Specific objectives: Introduction to all medical devices used in anesthesia.** **Special goals:-** **At the end of the academic year, the student will be able to:** **1- Use all different anesthesia devices.** **2- Maintenance and maintenance of all anesthesia equipment.** **Introducing all parts of medical devices used anesthesia and their techniques.**
9. Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2+3+4+5			Modification of breathing system(lack , bain and Humphrey) circle breathing and soda lime, procedure for checking breathing system		
6			Manual resuscitator, components and other use for manual resuscitator		
7+8+9+10			Anesthesia ventilator, principle of working and type of ventilator (manley MP3, penlon ventilator and high-frequency jet ventilator		
11+12			Equipment for local analgesia: spinal, epidural, and major nerve block		
13			peripheral nerve stimulator and nerve block stimulator		
14			Defibrillator and pacemaker		
15			Blood warmer		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Fourth Stage /First Course

Course Description Form

1.Course Name:	
Advance Anesthesia	
2.Course Code:	
Advance Anesthesia (1)	
3.Semester / Year:	
First Semester/ four year	
4.Description Preparation Date:	
2026	
5.Available Attendance Forms:	
Classes	
6.Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7.Course administrator's name (mention all, if more than one name)	
Name: sarah hassin abdulashaheed	
8.Course Objectives	
Course Objectives	**General Objective:** **To introduce the student to how to administer anesthetic doses to the patient.** **Specific Objectives:** **By the end of the year, the student should be able to:** **1. Know how to administer anesthesia for certain special medical cases.** **2. Deal with complications that may occur bef and after anesthesia.** **3. Recognize methods of patient care in case an emergency.** **4. Be able to continuously monitor the patient inside the operating room.**
9.Teaching and Learning Strategies	

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1st&2nd week			anesthesia for emergency operations.		
3rd & 4th week			Endotracheal intubation- difficult intubation + difficult intubation management guidelines.		
5th week			Emergency Airway Management of trauma patient / failed intubation drill		
6th week			Anesthetic Management of patient with ischemic heart disease undergoing non-cardiac surgery.		
7th week			Anesthetic Management of patient with valvular heart disease		
8th week			Anesthetic Management of patient with heart failure/ Anesthetic Management of patient with cardiomyopathy		
9th week			Anesthetic Management of patient with Asthma, COPD and Restrictive Pulmonary Disease		
10th week			Perioperative Management of patient with Aspiration Pneumonia/ Pulmonary Embolism		
11th &12th week			Hematological Disease and Anesthesia		
13th week			Electro-compulsive therapy (ECT) and anaesthesia		
14th week			Anesthetic Management for Thyroidectomy/ Explorative Laparotomy		
15th week			Anesthetic & Diabetes mellitus		

11.Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Clinical Anesthesia (by Barash, Cullen Stoelting) Anesthesiology: A Comprehensive Review Brian Hall & Robert Chantigian)
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1.Course Name:
Intensive Care Technology
2.Course Code:
Intensive Care Technology (1)
3.Semester / Year:
first Semester/four year
4.Description Preparation Date:
2026
5.Available Attendance Forms:
Classes
6.Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/4 units
7.Course administrator's name (mention all, if more than one name)
Name: Dr. Ali zaki azzez
8.Course Objectives

Course Objectives	**General Objective:** **The aim of teaching the subject is to provide t student with knowledge of the basics of the equipment used in intensive care units, their use, and maintenance.** **Specific Objective:** **By the end of the year, the student should be able to:** **1. Handle all advanced monitoring and patient care equipment used in intensive care units.** **2. Operate and maintain equipment in intensiv care units.** **3. Recognize some medical conditions in intensive care and how to manage and monito them.**

	4. Intervene in some emergency and critical cases within the intensive care unit.

9.Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 - 2			pulmonary embolisms and pulmonary edema		
3 - 4			acute renal failure and CRRT		
5			sepsis and septic shock		
6 – 7			multiple trauma (sever multiple trauma, chest injury, spinal cord injury)		
8 – 9			environment injuries (submersion, burns, thermal injury and envenom enation)		
10			infection and antimicrobial therapy		
11 -12			ICU care after cardiac surgery		
13			transport of critically ill patients		
14-15			Nutrition in ICU		

11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Irwin and Rippe's Intensive Care Medicine Oxford Handbook of Critical Care
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1.Course Name:	
Advance Medicine	
2.Course Code:	
Advance Medicine (1)	
3.Semester / Year:	
First Semester/ four year	
4.Description Preparation Date:	
2026	
5.Available Attendance Forms:	
Classes	
6.Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/3 units	
7.Course administrator's name (mention all, if more than one name)	
Name: Dr. Said breas mahdi	
8.Course Objectives	
Course Objectives	**Introducing the student to the different body organs and the effects of injuries and disease on them from an anatomical and physiologica perspective, as well as the resulting complications. The student is also taught the symptoms and signs of these conditions and basic frameworks for how to deal with them. T student is introduced to the cases that require intervention and the nature of such interventio (as they may encounter during their work in th operating rooms and intensive care units), wit focus on emergency cases. At this stage, emergency medicine and war medicine are studied in detail, along with the completion of the study of the remaining body systems (whi was started in the third stage). The student is**

	introduced to the most serious and life-threatening conditions that they may face duri their hospital work, along with how to manage them.

9.Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Shock (types, patho physiology, management)		
2			Organization and function and immune system		
3			Genetics and disease		
4			Type &genetics disease		
5			Principle & critical care medicine		
6			Autoimmune disease		
7			Ophalimic disease		
8			Principle of general medicine		
9			Disease of the nerve and muscle		
10			Disorder of spin and spinal cord		
11			Heavy metal poisoning		
12			Disease of blood		
13			Infection of nervous system		
14			Endocrinology: Pituitary gland		
15			Thyroid gland		

11.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Harrison's Principles of Internal Medicine

	The Davidson's Principles and Practice of Medicine
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Pain management
2. Course Code:
Pain management
3. Semester / Year:
First Semester/four year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/3 units
7. Course administrator's name (mention all, if more than one name)
Name: Muntahi abdul ali rashan
8. Course Objectives

Course Objectives	**General Objective:** **Introducing the student to the various types o pain that may affect the human body, includin acute and chronic pain.** **Specific Objective:** **By the end of the academic year, the student should be able to:** **1. Recognize the different types of pain as a disease and not just a symptom, and alleviate the patient's suffering by all possible means.** **2. Deal with various techniques in pain management, whether by medications or othe**

	methods such as physical therapy, behavioral therapy, and acupuncture. **3. Use advanced methods in treating pain conditions such as spinal cord or brain stimulation or implanting a pain treatment pur**

9. Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Anatomy of the pain processing system. Pathophysiology of pain		
2			History and physical examination of pain patient Diagnosis of pain.		
3			Pain clinic instruments .Anesthesia for pain management procedures.		
4			Acute pain managements survive.		
5			Radiation safety in pain procedures.		
6			prolotherapy for pain management. Acupuncture therapy for pain management.		
7			Psychotherapy for pain management. Head ache.		
8			Neck pain. Pain managements procedures for neck pain.		
9			Pain managements procedures for neck pain. Chest pain.		
10			Pain managements procedures for chest pain, CA pain.		
11			Back pain .pain management techniques for back pain		

12			pelvic pain and sacrum pain management techniques for pelvic and sacral pain		
13			complications of pain managements procedures pharmacology for pain managements		
14			complications of pain managements procedures pharmacology for pain managements phantom pain, occupational back pain		
15			Advanced pain management techniques spinal cord stimulater techniques in a pain managements, intrathecal pumps techniques in pain .managements		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Wall & Melzack's Textbook of Pain Bonica's Management of Pain
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Anaesthetic Equipment Technology	
2. Course Code:	
Anaesthetic Equipment Technology (1)	
3. Semester / Year:	
First Semester/ four year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name:hasineen ahmed raheem	
8. Course Objectives	
Course Objectives	**General Objective:** **To become familiar with all medical devices us and advanced in anesthesia.** **Specific Objective:** **By the end of the academic year, the student should be able to:** **1. Use all advanced devices used in anesthes** **2. Maintain and service all anesthesia devices** **3. Identify all parts of the anesthesia devices used and their techniques.**
9. Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-7			Physiological monitoring: principles monitoring, classification of monitoring equipment invasive (Doppler) Monitoring of blood pressure, invasive (CVP) and non- invasive (arterial blood pressure) pulse oximeter E.T CO2 ECG and temperature monitoring equipment		
8-9			Monitoring for gases, inspired O2 concentration, nitrous oxide and volatile anaesthetic agent concentration analyzer		
10			measurement of gases in blood (blood gas analyzer)		
11-12			Measurement of respiratory volume(wright respirometer) , Measurements of volume, flow and pressure, force and pressure		
13-14			Electrical hazard and their prevention, and accident associated with main electrical supply Risk management :principles of risk management, risk reduction related to equipment ,Surgical diathermy, accident due to use of diathermy		
15			Haemofiltration		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Understanding Anesthesia Equipment Essentials of Equipment in Anaesthesia, Critic Care and Perioperative Medicine
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Professional ethics
2. Course Code:
Professional ethics
3. Semester / Year:
First Semester/four year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
2 Hours/2 units
7. Course administrator's name (mention all, if more than one name)
Name:Dr.Muntaha abdala reashan
8. Course Objectives

Course Objectives	**General Objective:** **To become familiar with all medical devices us and advanced in anesthesia.** **Specific Objective:** **By the end of the academic year, the student should be able to:** **1. Use all advanced devices used in anesthes** **2. Maintain and service all anesthesia devices** **3. Identify all parts of the anesthesia devices used and their techniques. General Objective:** **The course aims to introduce technical colleg students to professional ethics according to their technical specialization and to provide th with the professional ethical principles that**

	enhance their commitment to them in their expected field of work after graduation. **Specific Objective:** **To be set by the course instructors (as behavioral objectives) within the lesson plan a the level of a single lecture.**

9. Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2			Unit One – Ethics The concept of ethics and its origin General rules of ethics Sources of ethics Ethical values The importance of ethics for the individual and society		
3			Unit Two – Work and Profession Work and its importance Work behaviors The concept of profession Definition of profession The difference between the concepts of work, profession, and craft The standards on which a profession should be based		
4			Unit Three – Professional Ethics The nature of professional ethics Positive outcomes of adhering to professional ethics		

			Characteristics of work ethics Traits of professional ethics Steps to the acceptable level of professional ethics		
5-6			Unit Four – Values and Professional Ethics Honesty Truthfulness Sincerity/advice Justice Good behavior Work perfection		
7-8			Unit Five – Patterns of Unethical Behavior in the Profession Administrative Corruption Unethical administrative behavior Definition of administrative corruption Types of administrative corruption Bribery The concept of bribery Types of bribery The difference between a gift and a bribe Reasons and motives behind bribery Cheating The concept of cheating The nature of cheating at work Manifestations of cheating in job performance		
9-10			Unit Six – Means and Methods to Instill Professional Ethical Values Methods of instilling professional ethics Levels of building and instilling professional ethics		

			Means and methods of instilling professional ethics Matters to consider when drafting a professional ethical code How to promote ethical behavior at work according to (Kreitner and Kinicki		
11-12-13-14-15			Unit Nine – Ethics of Practicing Medical Professions (specific to the Technical Health and Medical College) Characteristics and traits of the medical technician Duties of the medical technician towards: Their profession The patient Society Patient Rights Justice and equality Maintaining patient information confidentiality Preserving patient privacy Informed consent Comprehensive care Putting the patient's interest above all considerations Effective communication with patients The right to access health records The relationship between the medical technician and society and their responsibility toward the environment and public safety By adhering to basic professional rules to prevent the spread of epidemics and diseases, and the importance of their role in raising health		

			awareness and disease prevention methods Professional Relationships The relationship of the medical technician with colleagues in the health institution: Respect Cooperation Avoiding criticism in front of patients Accuracy and honesty in performance evaluation Ethics and Medical Research Ethics of conducting medical experiments in Iraqi health institutions Helsinki Declaration on the ethics of medical experiments Ethics of writing medical research Ethics of Teaching and Learning on Patients		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Medical Ethics: A Very Short Introduction – by Tony Hope Beauchamp & Childress: Principles of Biomedical Ethics
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Fourth Stage /Second Course

Course Description Form

1. Course Name:	
Advance Anesthesia	
2. Course Code:	
Advance Anesthesia (2)	
3. Semester / Year:	
second Semester /four year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name:sarah hasssin abdulsaheed	
8. Course Objectives	
Course Objectives	**General Objective:** **Introducing the student to how to administer anesthetic doses to the patient.** **Specific Objective:** **By the end of the year, the student should be able to:** **1. Identify all anesthesia devices.** **2. Know how to administer anesthetic agents.** **3. Know how to resuscitate the patient.** **4. Wisely recognize how to care for the patien in case of an emergency**
9. Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1&2nd week			Anesthetic Management for Craniotomy for acute head injury / Intracranial Tumor Debulking		
3th week			Anesthetic Management for bronchoscopy/ Pneumonectomy		
4th week			Anesthetic Management for Aortic Aneurysm/ Peripheral Vascular Procedures		
5th week			Hypertension and Anesthesia		
6th week			Pre-eclampsia/ eclampsia & anesthesia.		
7th week			Anesthesia management for shocked patient.		
8th week			Anesthetic Management for Abruptio placenta/ placenta Previa /dilatation & curettage		
9& 10 th week			Anesthesia for the Pregnant Patient Undergoing a Non-Obstetric Procedure/Anesthetic Management for cervical cerclage		
11th week			Anesthetic Management for posterior spinal reconstructive surgery / Arthroscopy		
12th week			Anesthetic Management for total hip replacement/ Total Knee Replacement		
13th week			Anesthetic Management for pediatric pyloric stenosis/ Circumcision		
14th week			Allergic reaction to anesthesia.		
15th week			Sleeve gastrectomy and anaesthesia		

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Morgan & Mikhail's Clinical Anesthesiology Complications in Anesthesia – Lee A. Fleisher
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Advance Intensive Care Technology	
2. Course Code:	
Advance Intensive Care Technology (2)	
3. Semester / Year:	
Second Semester/four year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name:Dr.HaAli zaki azzez	
8. Course Objectives	
Course Objectives	**General Objective:** **The aim of teaching the subject is to provide t student with knowledge of the basics of the equipment used in intensive care units, their use, and maintenance.** **Specific Objective:** **By the end of the year, the student should be able to:** **1. Handle all advanced monitoring and patient care equipment used in intensive care units.** **2. Operate and maintain the equipment in intensive care units.** **3. Recognize some medical conditions in intensive care.**

	4. Intervene in some emergency and critical cases within the intensive care unit.

9. Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2			ICU care after neurovascular surgery		
3			upper airway obstructions in Children		
4 - 5			neuromascular disorders(Gullian bare syndrom, Myasthenia gravis)		
6 - 7			CVA and brain death		
8			Respiratory infections (H1N1,sever pneumonia)		
9 - 10			endocrine emergencies(adrenal crisis and thyroid storm)		
11 - 12			meningitis and encephalitis		
13-15			toxocology emergencies(paracetamol,Aspirin,opiods,beta-blockers, organophosphorous, and CO poisining		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Sedation and Delirium in ICU Hemodynamic Monitoring in Critical Care
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Advance Medicine	
2. Course Code:	
Advance Medicine (2)	
3. Semester / Year:	
Second Semester/four year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/3 units	
7. Course administrator's name (mention all, if more than one name)	
Name:Dr.Said breas mahdi	
8. Course Objectives	
Course Objectives	**Introducing the student to the different body organs and the effects of injuries and disease on them from an anatomical and physiologica perspective, as well as the resulting complications. Also, teaching the student the symptoms and signs of these conditions and basic frameworks for how to deal with them. Introducing the student to the cases that requ intervention and clarifying the nature of such intervention (as they may encounter during th work in the operating rooms and intensive car units), with a focus on emergency cases. At t stage, emergency medicine and war medicine are studied in detail, along with the continuati of the study of the remaining body systems (which was started in the third stage).**

	Introducing the student to the most serious ar life-threatening conditions that they may face during their work in the hospital and how to manage them.

9. Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Parathyroid gland & calcium balance.		
2			Adrenal gland		
3			D.M : complications, management, preparation for operation .		
4			Preparation of patient with obstructive jaundice		
5			Preparation of patient with portal hypertension due to cirrhosis		
6			Management of haematemesis, melaena		
7			Management of haemopneumothorax,flail chest		
8			Management of respiratory failure,		
9			Management of coagulopathy,		
10			Management of septicaemia, MOFS		
11			Electrical injury		
12			Coma and other disturbance of consciousness		
13			Venoms, bites and stings		
14			Anaphylaxis and transfusion reaction		
15			Principle of drugs therapy and management of		

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Davidson's Principles and Practice of Medicin Kumar and Clark's Clinical MedicineOxford Handbook of Clinical Medicine (OHCM)
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Advance Anaesthetic Equipments	
2. Course Code:	
Advance Anaesthetic Equipments (2)	
3. Semester / Year:	
Second Semester/four year	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30 Hours/4 units	
7. Course administrator's name (mention all, if more than one name)	
Name:hasineen ahmed raheem	
8. Course Objectives	
Course Objectives	**General Objective:** **To become familiar with all medical devices us and advanced in anesthesia.** **Specific Objective:** **By the end of the academic year, the student should be able to:** **1. Use all advanced devices used in anesthes** **2. Maintain and service all anesthesia devices** **3. Identify all parts of the anesthesia devices used and their techniques.**
9. Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4			Continuous flow anaesthetic machine: machine framework, the compressed gas attachment , back Bar Safety features of anaesthetic machine, common gas outlet, auxiliary gas sockets Electronics in anaesthetic machine, ergonomics and critical incident, electronic control of breathing system Maintence of anaesthetic machine		
5-8			Humphrey breathing system ,circle breathing system and soda lime and vaporizers in the circle breathing, waters canister		
9-13			Advanced types in ventilator : principles and example Bag in bottle ventilator, servo-u ventilator, venture injector device and ICU ventilator		
14-15			Check list, treatment and Maintence for anaesthesia devise		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Essentials of Equipment in Anaesthesia and Critical Care – Al-Shaikh & Stacey Clinical Anesthesia – Barash

Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name:
Emergency Medicine
2. Course Code:
Emergency Medicine
3. Semester / Year:
Second Semester/ four year
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/3 units
7. Course administrator's name (mention all, if more than one name)
Name:Esraa hamza jasam
8. Course Objectives

Course Objectives	**General Objective:** **To introduce the student to immediate medica aid and support for patients and the injured to avoid any potential consequences to their life and health.** **Specific Objectives:** **By the end of the academic year, the student should be able to:** **1. Perform initial diagnosis, early intervention and resuscitation.** **2. Identify common cases requiring emergenc medicine intervention.** **3. Use some modern devices, technologies, a widely used drugs in emergency medicine practice.**

9. Teaching and Learning Strategies

Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Emergency Medicine		
2			Emergency Medicine		
3			Emergency Medicine		
4			Emergency Medicine		
5			Emergency Medicine		
6			Emergency Medicine		
7			Emergency Medicine		
8			Emergency Medicine		
9			Emergency Medicine		
10			Emergency Medicine		
11			Emergency Medicine		
12			Emergency Medicine		
13			Emergency Medicine		
14			Emergency Medicine		
15			Emergency Medicine		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Tintinalli's Emergency Medicine: A Comprehensive Study Guide Rosen's Emergency Medicine: Concepts and Clinical Practice Oxford Handbook of Emergency Medicine
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network