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

2024-2025

Academic Program Description For Anesthesia Department

University Name: Al-Zahraa University for Girls
Faculty/Institute: College of Health and Medical Technologies
Scientific Department : Department of Anesthesiology
Academic or Professional Program Name: Bachelor of Anesthesia Technology
Final Certificate Name: Bachelor of Anesthesia Techniques
Academic System: semester for first,second and third stage) +annual fourth stsge
Description Preparation Date: 21-10-2024
File Completion Date: 22-10-2024

Signature:
Head of Department Name:
Assist.prof. Farah Amir abbas

Date:23/10/2024

Signature: nadia
Scientific Associate Name:
lect. dr. Nadia Nayyef Hussein

Date: 23/10/2024

Signature:

The file is checked by: Assist Lect. Sara Faez Abdulghani
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department

Date: 23/10/2024

Hassan Al Kabbar

Signature:

Dean's approval:-

Asst. Prof. Dr. Hassan Hadi Al-Qazzaz

Date: 23/10/2024

1. Program Vision

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

2. Program Mission

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

3. Program Objectives

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

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

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

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

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

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

4. Program Accreditation

Theoretical and practical study of attendance

5. Other external influences

the hospital, Library, Internet

6. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	-	-	-	-
College Requirements	-	-	-	-
Department Requirements	**47**	**181**	-	-
Summer Training	**present**	-	-	-
Other	-	-	-	-

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

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

4	2	Basics of anesthesia devices ((1		
4	2	Applied Physiology ((1		
4	1	Fundamentals of Surgery ((1		
4	2	Foundations of internal medicine ((1		
2	2	Pharmaceuticals ((1		
-	2	medical terminology		
-	1	Baath Party crimes		
The second course				
4	2	Foundations of anesthesia 2		Second stage
4	2	Anesthesia equipment techniques 2		
4	2	Applied physiology 2		
4	1	Fundamentals of surgery 2		
4	2	Foundations of internal medicine 2		
2	2	Pharmacokinetics2		
2	1	Statistics		

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

1. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	• Know and understand the different types of anesthesia machines and how to operate, use, maintain and maintain them. • Know and understand the main parts and attached parts of anesthesia machines and the function of each part. • Knowledge and understanding of the principles of anesthesia and dealing with the patient. • Knowledge and understanding of the human anatomy and its functions. • Know and understand how to use anesthesia medications. • Knowing and understanding developments in anesthesia devices and medications and keeping up with them
Skills	
Learning Outcomes 2 Learning Outcomes 3	• Ability to apply the principles of foundations of anesthesia and intensive care • Analyzing medical problems from a scientific perspective, arriving at a solution, and being able to suggest alternatives • Enabling graduates to keep pace with research development.
Ethics	
Learning Outcomes 4 Learning Outcomes 5	• Promoting integrity, ethics, and mutual respect between students, teaching and administrative staff in the university environment, and between the technician, his colleagues, subordinates, and patients in the work environment. • Dedication to hard work, collaboration and effective communication. • Achieving balance between academic, professional and personal life. • Building self-confidence, personal development, teamwork, and leadership. • Respect for diversity, peaceful coexistence, and contribution to society. • Maintaining the confidentiality of the place of study or work and respecting the privacy of employees and patients.

2. Teaching and Learning Strategies

- . Ability to learn both simple and deep knowledge exploration and focus on applying knowledge to a solution Existing problems.
- . The student's ability to analyse, apply and organize knowledge so that he can formulate hypotheses and interpretations Description of solutions.
- . Using brainstorming to bring out creative ideas for some gifted students.
- . The distinction is that the test increases the student’s motivation towards studying and furthering and is not a means of punishing him

3. Evaluation methods

Daily evaluation

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

4. Faculty

Faculty Members

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

Professional Development

Mentoring new faculty members

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

Professional development of faculty members

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

5. Acceptance Criterion

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

6. The most important sources of information about the program

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

7. Program Development Plan

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

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
First stage		Medical Physics ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anatomy ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		General Physiology ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		General chemistry	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Biology	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Computer Principles ((1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Human rights and democracy	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		English	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
First stage		Medical Physics ((2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anatomy ((2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

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

		techniques (1													
		Internal medicine	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Surgery 1	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anesthesia 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Intensive care techniques 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anesthesia equipment techniques (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Internal medicine 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Surgery 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Computer applications 2	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anesthesia (3)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Anesthesia equipment techniques (3)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Fourth stage		Intensive care techniques (2)	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Surgical internal medicine	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Nursing	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		English	Basic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

Course description form

Course name
General Physiology
Course Code
Semester/Year
Year
Date this description was prepared :
20-2-2025
Available forms of attendance :-
Number of study hours (total)/number of units (total)
4\6
Name of the course administrator (if more than one name is mentioned)
Name :Lecturer . Dr. Noor Diaa Asst . Lecturer. Ban Jassim Sadoon Email:-
Course objectives

Objectives of the study subject	Identify the functions of different body systems Describe the mechanism of operation of the various body systems and the sequence of physiological events accompanying them . To distinguish between normal and abnormal functions of different body systems Expanding knowledge through periodicals, medical books, and the Internet
Teaching and learning strategies	
The strategy	Discussion and dialogue in presenting the topic - using modern illustrative methods such as data shows and scientific applied programs - clarifying the material in a simplified manner and using modern technology in education - raising questions and deriving answers from them - ensuring the method of research and conclusion - linking the scientific material to relevant external scientific materials to reach the goal The purpose of the lesson

Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily exam	Theoretical lecture	Introduction to physiology, cells, cell components and functions	Introduction to physiology	6	**1 st**
Daily exam	Theoretical lecture	Transport across cell membrane, extracellular and intracellular fluid	Transport across the plasma membrane , fluids outside and inside cells	6	**2nd**
Daily exam	Theoretical lecture	Skeletal muscle, structure, contraction, muscle pain, muscle tone and muscle fatigue	Skeletal muscle, its structure, muscle contraction, muscle pain, muscle tone, muscle fatigue	6	**4 rd**
Daily exam	Theoretical lecture	Nerve cells, shape, type, structure, impulse, signal	Nerve cells, shape , type , structure , impulse , signal	6	**5 th**
Daily exam	Theoretical lecture	Action potential	Action potential	6	**6 th**
Daily exam	Theoretical lecture	Blood, function of blood, serum, plasma	Blood types and functions Serum and plasma	6	7 th

Daily exam	Theoretical lecture	Erythrocyte, hemoglobin and, Anemia. Role of erythropoietin in erythrocyte production	Red blood cells Hemoglobin and anemia The role of erythropoietin in the formation of red blood cells	6	8 th
Daily exam	Theoretical lecture	platelet and WBC	White blood cells And platelets	6	9 th
Daily exam	Theoretical lecture	clotting blood	Blood clotting	6	10 th
Daily exam	Theoretical lecture	Cardiovascular system, heart valve cycle, HR conductive	heart and blood vessels Functions and heart valves	6	11 th
Daily exam	Theoretical lecture	Heart sound and murmurs, ECG	ECG sounds the heart	6	12 th
Daily exam	Theoretical lecture	Blood Pressure	blood pressure	6	13 th
Daily exam	Theoretical lecture	Respiratory system	Respiratory system	6	14 th
Daily exam	Theoretical lecture	Oxygen transport and exchange. exchange	Gaseous exchange	6	15 th
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily exam	Practical lecture	Electron microscope	The microscope, type, parts, how to use it.	6	**1 st**
Daily exam	Practical lecture	Blood and blood collection The difference between plasma and serum	Hematology, collection of blood, capillary blood ; venous blood; plasma and serum.	6	**2nd**
Daily exam	Practical lecture	Hemoglobin and methods of measuring it	Hemoglobin estimation by acid hematin method	6	**4th**
Daily exam	Practical lecture	Compressed blood volume	Packed cell volume (PCV).	6	**5 th**
Daily exam	Practical lecture	Red blood cells	Red blood cells count.	6	6 th
Daily exam	Practical lecture	White blood cells	Total leukocyte count	6	7 th
Daily exam	Practical lecture	Examination of retinal cell numbers	Reticulocyte count test	6	8 th
Daily exam	Practical lecture	Normal blood volume	Normal blood standard	6	9 th

Daily exam	Practical lecture	Blood smear	Blood smear; staining.	6	10 th
Daily exam	Practical lecture	Variation in the number of white blood cells	Differential leukocyte count (types of WBC).	6	11 th
Daily exam	Practical lecture	The shape of blood cells	Study of morphology of red blood cells.	6	12 th
Daily exam	Practical lecture	Movement of blood cells	Scientific movies show of blood	6	13 th
Daily exam	Practical lecture	Methods of examining red blood cells	Erythrocyte sedimentation rate by westergren method	6	14 th
Daily exam	Practical lecture	Check ESR	ESR by wintrod method.	6	15 th

Course evaluation	
Daily, quarterly and monthly exams	
Learning and teaching resources	
Medical physiology and general physiology book	Required textbooks (methodology, if any)
All books on physiology, such as Ganingham , Gytun , lippincot , And Vander.	Main references (sources)
Scientific journals from the Internet, scientific reports and research from the Internet, new ideas and research that are presented in conferences and seminars and which are approved and published in later research.	Recommended supporting books and references (scientific journals reports....)
Free Full, Science Direct, Pub Med	Electronic references, Internet sites

Course description form

Course Name
Anatomy 1
Course Code
Semester/year
Year
Date this description was prepared
2-2-2025
Available forms of attendance
Number of study hours (total)/number of units (total)
4\6
Name of the course administrator (if more than one name is mentioned)
Name : Lecturer .. DrAhmed Diaa Lecturer .. Dr.. Zahraa Muhmmed .
Course objectives

Objectives of the study subject	• **The course aims for the student to be familiar with the anatomy of the human body, organs, and tissues, as well as to know the relationship between them**
Teaching and learning strategies	

The strategy	• Using theoretical lectures in college classrooms. • Watching anatomical videos and posters in the laboratory to teach the student in person. • Teaching the student the concepts of general anatomy, in addition to adopting additional sources to enrich the lectures with modern concepts of anatomy.
Course structure	

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily and monthly exams	theoretical and practical lecture	Introduction, anatomical terms	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	1
Daily and monthly exams	theoretical and practical lecture	Body cavities and its organs	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	2
Daily and monthly exams	theoretical and practical lecture	Superficial anatomy of human body	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	3
Daily and monthly exams	theoretical and practical lecture	human body tissues; types and characteristics .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	4
Daily and monthly exams	theoretical and practical lecture	Skin anatomy and its functions skin color .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	5
Daily and monthly exams	theoretical and practical lecture	General skeletal stricture (Skull, and neck .(	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	6
Daily and monthly exams	theoretical and practical lecture	Vertebral column stricture, numbers and its function .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	7
Daily and monthly exams	theoretical and practical lecture	Diaphragm and abdominal wall muscles .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	8
Daily and monthly exams	theoretical and practical lecture	Anatomy of heart, wall, valve and its function	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	9
Daily and monthly exams	theoretical and practical lecture	Structure of blood vessels wall arteries, veins and capillaries .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	10
Daily and monthly exams	theoretical and practical lecture	Lymphatic system – lymph glands .	The student's knowledge of the scientific subject and awareness of scientific, mental, and	6	11

			professional skills		
Daily and monthly exams	theoretical and practical lecture	Respiratory system – upper respiratory tract .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	12
Daily and monthly exams	theoretical and practical lecture	Respiratory system-lover respiratory tract .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	13
Daily and monthly exams	theoretical and practical lecture	Alveoli-lungs-pleural activity .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	14
Daily and monthly exams	theoretical and practical lecture	Upper and lower edge	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	15
Daily and monthly exams	theoretical and practical lecture	CNS structure and functions	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	1
Daily and monthly exams	theoretical and practical lecture	PNS spinal nerves	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	2
Daily and monthly exams	theoretical and practical lecture	Sensory and motor nerves systems	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	3
Daily and monthly exams	theoretical and practical lecture	GIT system; parts and structure of wall and stomach .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	4
Daily and monthly exams	theoretical and practical lecture	Salivary gland structure, pancreases and gallbladder .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	5
Daily and monthly exams	theoretical and practical lecture	Liver anatomy structure and functions	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	6
Daily and monthly exams	theoretical and practical lecture	Urinary system kidney, ureter, urinary bladder, urethra	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	7
Daily and monthly exams	theoretical and practical lecture	Muscular system .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	8
Daily and monthly exams	theoretical and practical lecture	Reproductive system – male genitalia .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	9
Daily and	theoretical and	Female reproductive organs	The student's knowledge	6	10

monthly exams	practical lecture		of the scientific subject and awareness of scientific, mental, and professional skills		
Daily and monthly exams	theoretical and practical lecture	Endocrine glands-anatomy and function .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	11
Daily and monthly exams	theoretical and practical lecture	Endocrine glands-anatomy and function .	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	12
Daily and monthly exams	theoretical and practical lecture	Special sense anatomy	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	13
Daily and monthly exams	theoretical and practical lecture	Skeletal system anatomy	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	14
Daily and monthly exams	theoretical and practical lecture	The development and inheritance	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	6	15

Course evaluation
☒ homework ☒ Daily exams ☒ Reports ☒ Daily attendance ☒ Skills and speed of completing tasks ☒ Monthly exam score ☒ The student is evaluated based on his success in understanding the scientific material, practical training in the laboratory, and using skeletons to learn about the body's systems anatomically

Learning and teaching resources	
Required textbooks (methodology, if any)	- Principles of Anatomy by Dr. Abdul Rahman Mahmoud Al Rahim, Ministry of Health Atlas of anatomy (Grantes)
Main references (sources)	Kingham anatomy- Oxford- London/1987
Recommended supporting books and references (scientific journals reports....)	Principles of anatomy for students of medica and health colleges
Electronic references, Internet sites	Clinical natomy grants atlas of anatomy

Course description form

Course Name
Biology
Course code
Semester/year
Year
Date this description was prepared
2025-2-20
Available forms of attendance:- In person
Number of study hours (total)/number of units (total)
4\6
Name of the course administrator (if more than one name is mentioned)
Name: Dr.. Farah Amer Abbas Asst. Lecturer . Fatima Salem Obaid Asst. Lecturer .Hadeel Salah Mahdi

Email:- Fatimah_s.obaid@gmail.com	
Course objectives	
Objectives of the study subject	Understanding and studying the biology of the human body Introducing the student and giving him all the scientific information regarding the types of cells and tissues found in the human body
Teaching and learning strategies	
The strategy	Display slides of biological material on the screen and study them under the microscope. Use a smart board. Asking external questions that flow into the topic

Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily and monthly exams	Screen use - Scientific references	Microscope, introduction to biology, prokaryotic cells Animal and plant cells	Microscope, introduction to biology, prokaryotic cells , Animal and plant cells	6	1
Daily and monthly exams	Screen use - Scientific references	Cell structure, types, shape and size	Cell structure, types, shape and size	6	2- 3
Daily and monthly exams	Screen use - Scientific references	Movement inside and outside cells: diffusion, osmosis, active transport	Movement inside and outside cells: diffusion, osmosis, active transport	6	5-4
Daily and monthly exams	Screen use - Scientific references	Cells: mitosis and meiosis	Cells: mitosis and meiosis	6	6
Daily and monthly examinations	Screen use - Scientific references	DNA :RNA, DNA replication	RNA, DNA replication	6	8-7
Daily and monthly examinations	Screen use - Scientific references	Protein biosynthesis	Protein biosynthesis	6	9
Daily and monthly exams	Screen use - Scientific references	Human body tissues: epithelial tissues	Human body tissues: epithelial tissues	6	11-10
Daily and monthly exams	Screen use - Scientific references	Muscle and nervous tissue	Muscle and nervous tissue	6	13-12
Daily and monthly exams	Screen use - Scientific references	Connective tissues: bones and cartilage	Connective tissues: bones and cartilage	6	14
Daily and monthly examinations	Screen use - Scientific references	Blood and lymph	Blood and lymph	6	15

Course evaluation
Conducting daily examinations for female studentsa- Oral exam, practical report, monthly and final examsb- Surprising, inferential questions during the discussion between the two sidesc-

Learning and teaching resources	
Required textbooks (methodology, if any)	A text book of human biology
Main references (sources)	Central Library, Internet
Recommended supporting books and references (scientific journals, reports....)	
Electronic references, Internet sites	

Course description form

Course Name
General chemistry
Course Code

Semester/year
Year
Date this description was prepared
22-2-2025
Available forms of attendance
Number of study hours (total)/number of units (total)
4\6
Name of the course administrator (if more than one name is mentioned)
Name :Asst . Lecturer. .Kadhim Adnan Asst . Lecturer.Abeer Jassim Email:
Course objectives

Objectives of the study subject	Performing various techniques of descriptive and quantitative analyzesof components in blood and other body fluids Man in health and sickness.
Teaching and learning strategies	
The strategy	Teaching and learning methods in biochemistry vary and depend on several factors, including .Students' level and cognitive abilities .Course objectives .Available capabilities The most important methods of teaching and learning in biochemistry are the following Lectures: Lectures are one of the most important teaching methods in biochemistry, as the teacher explains the basic concepts and theories of the .subject Discussions: Discussions are an effective way to enhance understanding and solve problems, as the teacher asks students questions and encourages them to .participate and discuss answers Practical applications: Practical applications are an effective way to link theoretical concepts to reality, as the teacher asks students to conduct experiments or practical projects E-learning: E-learning is a modern and educational method, where students can learn through videos and simulation programs

Course structure -1

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
general questions And discuss And a daily exam	Theoretical + practical	Scope of biochemistry in health and disease, cell and cell components .	The scope of biochemistry in health and disease, the cell and cell components.	6	1
general questions And discuss And a daily exam	Theoretical + practical	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 .	Some aspects of physical chemistry, gas laws, Boyle's law, Graham's law of diffusion, Dalton's law of partial pressure, the general gas equation, the International System of Units.	6	2
general questions And discuss And a daily exam	Theoretical + practical	Radio activity and radioactive isotopes .	Radioactivity and radioactive isotopes.	6	3
general questions And discuss And a daily exam	Theoretical + practical	Solutions and methods of expressing colloidal concentrations olu tion .	Solutions and methods for expressing colloidal solution concentrations.	6	4

general questions And discuss And a daily exam	Theoretical + practical	The PH concept, acid-base balance, chemical balance, common ion	PH concept , acid-base balance, chemical balance, common ion	6	5
general questions And discuss And a daily exam	Theoretical + practical	Buffer and buffer systems of physiological importance in living systems .	Dielectric and buffer systems are physiologically important in living systems.	6	6
general questions And discuss And a daily exam	Theoretical + practical	Blood, blood components, body fluids, regulation of blood Ph and body	Blood, blood components, body fluids, regulate the pH of the blood and the body	6	7
general questions And discuss And a daily exam	Theoretical + practical	Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body fluids .	Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body fluids.	6	8
general questions And discuss And a daily exam	Theoretical + practical	Carbohydrates classification reactions, main carbohydrates in the human body .	Carbohydrate classification reactions, the main carbohydrates in the human body.	6	9
general questions And discuss And a daily exam	Theoretical + practical	Metabolism of carbohydrates, blood glucose factors controlling glucose level in blood .	Carbohydrate metabolism and blood glucose factors that control blood glucose level.	6	10
general questions And discuss And a daily exam	Theoretical + practical	Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curve .	Glucose abnormalities, diabetes mellitus, ketosis , glycosuria, glucose tolerance curve.	6	11
general questions And discuss And a daily exam	Theoretical + practical	Lipids, classification, derived lipids, compound, lipids .	Lipids, classification, derived fats, compound, lipids.	6	12
general questions And discuss And a daily exam	Theoretical + practical	Lipid metabolism, lipid abnormalities .	Fat metabolism, lipid disorders.	6	13
general questions And discuss And a daily exam	Theoretical + practical	Proteins, classification, functions, peptide bonds, amino acids, chemical reactions .	Proteins, their classification, functions, peptide bonds, amino acids, chemical reactions.	6	14
general questions And discuss And a daily exam	Theoretical + practical	Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology .	Nucleic acids and their expression, DNA replication, RNA topology.	6	15

Course evaluation -2	
Participation in the classroom Submitting periodic reports Weekly exams Monthly and final exams	
Learning and teaching resources -3	
Atkins' Physical Chemistry Organic Chemistry by Clayden Basics of biochemistry, Dr. Sami Al-Muzaffar	Required textbooks (methodology, if any)

Chem Libretexts Nature Chemistry Nature Biotechnology	Main references (sources)
Lehninger Principles of Biochemistry Stryer Biochemistry	Recommended supporting books and references (scientific journals, reports....)
Journal of Biological Chemistry Google Scholar	Electronic references, Internet sites

Course description form

Course Name
Medical Physics 1
Course Code
Semester/year
Year
Date this description was prepared
2025-20-2
Available forms of attendance
Number of study hours (total)/number of units (total)
4\6
Name of the course administrator (if more than one name is mentioned)
Name : - Asst. Lecture Zainab Adil
Course objectives

Objectives of the study subject	• Giving the student an idea of the material he needs in his studies in the subsequent stages • Learn about some advanced concepts in physics and how to use these concepts in medical sciences • Identify some physical ideas and their applications
Teaching and learning strategies	
The strategy	• . Sudden daily and continuous weekly tests • Exercises and activities in the classroom • Directing students to some websites to benefit from them

Course structure .1

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
General questions and discussion	Theoretical + practical	Physics of skeleton, pressure	the pressure	6	1-2
General questions and discussion	Theoretical + practical	Energy, work and power of the body	Energy and work	6	3-4
General questions, discussion, and daily exams	Theoretical + practical	Heat and cold in medicine	Heat in medicine	6	5-6
General questions, discussion, and daily exams	Theoretical + practical	Specific heat, heat capacity, laten heat, thermometer and its kinds	Specific heat and heat capacity	6	7-8

General questions and discussion	Theoretical + practical	Boyle law diffusion and mixing of gases	Boyle's law	6	9-10
Monthly exam	Theoretical + practical	Physics of lung and breathing	Sound and waves	6	11-12
General questions and discussion	Theoretical + practical	Evaporation of liquid, vapor pressure and boiling point	Evaporation of gases	6	13-14
General questions and discussion	Theoretical + practical	Physics of cardiovascular system	electrical	6	15-16
General questions, discussion, and daily exam	Theoretical + practical	Physics of eye and vision, physics of ear and hearing	Magnetism	6	17-18
General questions and discussion	Theoretical + practical	Electricity within the body	electrical	6	19-20
General questions and discussion of group assignments	Theoretical + practical	Application of electricity and magnetism in medicine	Applications Electricity and magnetism in the body	6	21-22
General questions, discussion, and daily exam	Theoretical + practical	Light in medicine, sound in medicine	Light and sound in medicine	6	23-24
General questions and discussion	Theoretical + practical	Physics of nuclear medicine, radiotherapy, radiation protection.	Nuclear Physics	6	25-26

Course evaluation
• Participation in the classroom • Submitting periodic reports • Weekly exams • Monthly and final exams

Learning and teaching resources	
Required textbooks (methodology, if any)	
Main references (sources)	1-University Physics Volume 1 Senior Contributing Authors Samuel J. Ling, Truman State University Jeff Sunny, Loyola Marymount University William Moebs, PhD 2-Physics Laboratory Experiments 8ed 3-Experiments and Demonstrations in Physics; Bar-Ilan Physics Laboratory 2nd Ed - Yaakov Korfmacher
Recommended supporting books and references (scientific journals, reports....)	1-A Student's Guide to Maxwell's Equations - D. Fleisch 2-Fundamentals Of Physics I; Mechanics, Relativity, And Thermodynamics - Ramamurti Shankar (2019)
Electronic references, Internet sites	

Course description form

Course Name
Human rights and democracy
Course Code
Semester/year
Year
Date this description was prepared
21-2-2025
Available forms of attendance
Number of study hours (total)/number of units (total)
2\2
Name of the course administrator (if more than one name is mentioned)
Name: Asst . Lecturer. .Zaniab Muhmmed Emali:
Course objectives

Objectives of the study subject	The student learns about the historical development of human rights, the role of international organizations in ensuring the protection and respect of human rights, the principles of democracy and their impact on third world countries , and the types of freedoms .
Teaching and learning strategies	
The strategy	Sudden daily and continuous weekly tests Exercises and activities in the classroom Directing students to some websites to benefit from them

Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily exam And monthly	theoretical lecture	The concept of human rights Definition of human rights Definition of right Definition of human	The concept of human rights: Definition of human rights Definition of right Definition of human	1	.1
Daily exam And monthly	theoretical lecture	The most basic characteristics of human rights	The most basic characteristics of human rights	1	.2
Daily exam And monthly	theoretical lecture	Types of human rights	Types of human rights	1	.3
Daily exam And monthly	theoretical lecture	Human rights categories	Human rights categories	1	.4
Daily exam And monthly	theoretical lecture	Human rights in ancient civilizations	Human rights in ancient civilizations	1	.5
Daily exam And monthly	theoretical lecture	Human rights in the Middle Ages	Human rights in the Middle Ages	1	.6
Daily exam And monthly	theoretical lecture	Human rights in Islam and divine religions	Human rights in Islam and divine religions	1	.7
Daily exam And monthly	theoretical lecture	Human rights in Renaissance societies	Human rights in Renaissance societies	1	.8
Daily exam And monthly	theoretical lecture	Human rights in modern times	Human rights in modern times	1	.9
Daily exam And monthly	theoretical lecture	Non-governmental organizations and human rights	Non-governmental organizations and human rights	1	.10
Daily exam And monthly	theoretical lecture	Guarantees of respect and protection of human rights	Guarantees of respect and protection of human rights	1	.11
Daily exam And monthly	theoretical lecture	Water and environmental awareness in Iraq	Water and environmental	1	.12

			awareness in Iraq		
Daily exam And monthly	theoretical lecture	Water and environmental awareness in Iraq	Water and environmental awareness in Iraq	1	.13
Daily exam And monthly	theoretical lecture	The concept of equality	The concept of equality	1	.14
Daily exam And monthly	theoretical lecture	Human rights in modern times	Human rights in modern times	1	.15

Course evaluation	
Evaluating students through daily and monthly examinations Participate in the lecture General questions and discussion	
Learning and teaching resources	
Lectures on human rights and democracy	Required textbooks (methodology, if any)
All books that talk about human rights and democracy	Main references (sources)
	Recommended supporting books and references (scientific journals, reports....)
	Electronic references, Internet sites

Course description form

Course name	
English	
Course Code	
Semester/year	
Year	
Date this description was prepared	
2025-20-2	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
3\3	
Name of the course administrator (if more than one name is mentioned) .2	
Name :- Asst. Lecturer. Zahraa Hameed Emali:-	
Course objectives	
Objectives of the study subject	Make the student able to absorb, understand and memorize medical terminology and scientific and linguistic concepts to be conversant in his field of specialization in the English language. The student learns some important linguistic rules in the educational, professional and social fields.
Teaching and learning strategies	
The strategy	Using some important grammatical phrases to form some class discussions within the students specialization.

Course structure .3

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily and monthly exam	theoretical lecture	simple present, Simple past, Present continues	Tenses (past and present)	**3**	1,2
Daily and monthly exam	theoretical lecture	Question Words (what, where, why,…..)	Question tools	**3**	3
Daily and monthly exam	theoretical lecture	Cardinal numbers/countries/arrange letters	The original numbers	**3**	4,5
Daily and monthly exam	theoretical lecture	Medical terminology/language of medicine/	Medical terminology and medical language	**3**	6
Daily and	theoretical lecture	Possession, pronunciation(s)/	Possessive possession,	**3**	7

monthly exam		Pronouns all types	its pronunciation, and types of pronouns		
Daily and monthly exam	theoretical lecture	Spelling of medicine terms	Writing medical papers	**3**	8,9
Daily and monthly exam	theoretical lecture	Suffixes, Prefixes, root	Additions and root words	**3**	10
Daily and monthly exam	theoretical lecture	Body structure, Planes of the body	Body composition	**3**	11,12
Daily and monthly exam	theoretical lecture	Orientation and direction terms	Directions and directions	**3**	13
Daily and monthly exam	theoretical lecture	Body Position	Body position	**3**	14
Daily and monthly exam	theoretical lecture	Body Activities	Body activities	**3**	15

Course evaluation	
Monthly and final exams, in addition to evaluating oral dialogue between students Active attendance and daily participation	
Learning and teaching resources	
Required textbooks (methodology, if any)	Headway Plus/Beginners New Student Book
Main references (sources)	Headway Plus/Beginners New Key Words Book
Recommended supporting books and references (scientific journals, reports....)	Short Course of Medical terminology (Some Medical Terminology **)**
Electronic references, Internet sites	-

Course description form

Course name	
Computer principles	
Course code	
. Semester/Year	
Year	
Date this description was prepared	
2025-20-2	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
2\3	
Name of the course administrator (if more than one name is mentioned	
Name :- Asst . Lecturer . Muhmmed Gazi Emali :	
Course objectives	
Objectives of the study subject	Providing the student with knowledge in managing and using various computer applications.
Teaching and learning strategies	
The strategy	The theoretical and explanation method is by presenting the material on the program, including وPowerPoint , in the form of diagrams and pictures, in order to attract the student's attention and help him not feel bored. The practical method is to apply what was presented on the calculator and conduct daily and monthly exams.

Course structure .4

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily and monthly exam	theoretical and particle lecture	Computer Fundamentals Computer concept, phases of the computer life cycle The development of computer generations	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	1

Daily and monthly exam	theoretical and particle lecture	Computer advantages and areas of use. Computer classification in terms of purpose, size and type of data	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	2
Daily and monthly exam	theoretical and particle lecture	Computer's components Computer Components Computer components, physical parts of the computer, software entities	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	3
Daily and monthly exam	theoretical and particle lecture	Your personal computer, the concept of computer security and software licenses	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	4
Daily and monthly exam	theoretical and particle lecture	Computer security and software licenses Computer Safety & Software Licenses	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	5
Daily and monthly exam	theoretical and particle lecture	Ethics of the electronic world, forms of abuse, computer security, computer privacy	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	6
Daily and monthly exam	theoretical and particle lecture	Computer software licenses and their types, intellectual property, electronic hacking, malware, the most important Necessary steps to protect against hacking operations, computer harm to health	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	7
Daily and monthly exam	theoretical and particle lecture	Organized Operating Systems Definition of operating system, functions, goals, classification and examples For some operating systems	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	8
Daily and monthly exam	theoretical and particle lecture	Operating Systems Windows operating system	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	9
Daily and monthly exam	theoretical and particle lecture	Desktop components Start menu taskbar	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	10
Daily and monthly exam	theoretical and particle lecture	Folders and files Icons	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	11
Daily and monthly exam	theoretical and particle lecture	Performing operations on windows desktop backgrounds	The student's knowledge of the scientific subject and awareness of scientific, mental, and	3	12

			professional skills		
Daily and monthly exam	theoretical and particle lecture	Control Panel Windows Control Panel Groups (Category (	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	13
Daily and monthly exam	theoretical and particle lecture	From the control panel Defragment organizing files inside the computer, installing and deleting programs	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	14
Daily and monthly exam	theoretical and particle lecture	Some common computer conditions and settings, managing the printer, setting time and date, maintaining disks Primary	The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills	3	15

Course evaluation	
Monthly and final exams, in addition to evaluating oral dialogue between students Active attendance and daily participation	
Learning and teaching resources	
Required textbooks (methodology, if any)	Computer basics and office applications
Main references (sources)	Yusr Al-Mustafa Science Series "Basics of Computer and Internet Office 2010, Dr. Ziyad Muhammad Abboud, Dar Al-Doctor for Publishing and Distribution, Baghdad 2013
Recommended supporting books and references (scientific journals, reports....)	1-Computer literacy BASICS 2012, LeBlanc, Brandon. "Alcoser look at the, windows 7. 2009 .2-Computing Fundamentals, Innovative training works USA, Inc, 2006
Electronic references, Internet sites	https://www.agitraining.com/books/microsoft-officebooks/word-2010-digital-classroom-book

Course name	
Anesthesia equipment techniques	
Course code	
Semester/Year	
Year	
Date this description was prepared	
15-2-2025	
Available forms of attendance:-	
Number of study hours (total)/number of units (total)	
4\6	
Name of the course administrator (if more than one name is mentioned)	
Name :AssitDr. .Ameer Abbas Assit.lec.Afrah Farhan Email:- tahseen.habeeb@alzahraa.edu.iq	
Course objectives	
Objectives of the study subject	**The student should be able to know the medical devices used for anesthesia, the tools used and how to operate them and use them correctly**
Teaching and learning strategies	
The strategy	Use a smart board Use the equipment available in the operating room

Course structure	

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
,**Oral exam** , **Daily exam**	Oral exam ,Daily exams	Operating room design and functioning	Learn about the details and design of operating theaters and their specifications	6	**1 st**
,**Oral exam** , **Daily exam**	Oral exam ,Daily exams	Cannula and giving set and device for intravenous infusion	Identifying the types of canola and feeding devices and how to best use them, as well as their types	6	**2nd 3rd**
,**Oral exam** , **Daily exam**	Oral exam ,Daily exams	Infusion equipment: patient control analgesia, filtration, aut transfusion	Get to know these fluid payment or calculation devices, as well as syringe devices and their electrical and mechanical features	6	**4 rd**
,**Oral exam** , **Daily exam**	Oral exam ,Daily exams	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	Identify the way fluids behave and their types, learn about the laws and principles related to fluids, and know the properties of gases	6	**5 th 6 th**
,**Oral exam** , **Daily exam**	Oral exam ,Daily exams	heat, temperature and humidity	Learn about the types and characteristics of temperature gauges, methods of heat transfer and heat loss, as well as learning about humidification methods and nebulizer devices.	6	**7 th 8 th**
,**Oral exam** , **Daily exam**	Oral exam ,Daily exams	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	Measuring gas pressures, gases and their types, measuring gas volumes and types of flow level meters, supplying medical gases, details of cylinders and their types, methods of storing them, and how to deal with them.	6	**9 th 10 th 11 th**
,**Oral exam** , **Daily exam**	Oral exam ,Daily exams	Vaporizer: law of vaporization, vaporizing system, type of vaporizer Factor affecting vaporizer performance, calibration of vaporizer, fillin of vaporizer	How to make a vaporizer and its old and modern types, identifying its internal parts, ways to fill the vaporizer, how to deal with it, and identifying the risks.	6	**12 th 13 th 14 th**

,**Oral exam , Daily exam**	Oral exam ,Daily exams	Endotracheal tube (ordinary tube) laryngoscope, airway (oropharyngeal and nasopharyngeal), tracheostomy, facemask	Types of endotracheal tubes, the method of intubation, their parts, the benefits, reasons for using and disadvantages of each type, and identifying the special types.	6	**15 th 16 th 17 th**
,**Oral exam , Daily exam**	Oral exam ,Daily exams	Breathing system and their component, definition, classification, working principle	Components of the respiratory system, its mechanism of action and its parts, the breathing system without C02 absorption, an explanation and clarification of Mapelson types, the breathing circuit with C02 absorption, sodiumlime and methods of correct use.	6	**18 th 19 th 20 th**

Course evaluation	
Conducting periodic exams for students for every one or two lectures Conducting surprise questions while explaining the lecture and recording this in the students' evaluation record Conducting daily, semester and final exams	
Learning and teaching resources	
Required textbooks (methodology, if any)	
Main references (sources)	Anesthesia equipment, principle and application, Jan -1 Ehrenwerth, MD, 3rd edition 2-The MGH Textbook of Anesthetic Equipment, Warren S. Sandb MD, PhD 2nd edition
Recommended supporting books and references (scientific journals, reports....)	Relevant scientific journals
Electronic references, Internet sites	All educational sites

Course description form

Course name	
Foundations of surgery	
Course code	
Semester/Year	
Year	
Date this description was prepared	
2025-2-22	
Available forms of attendance	
My presence	
Number of study hours (total)/number of units (total)	
3\5	
Name of the course administrator (if more than one name is mentioned)	
Name Assit Dr. Ali Jassim Muhmmed Email:-	
Course objectives	
Objectives of the study subject	Teaching the student the basic principles of surgery, including the applications of physiology and pathology in interpreting the changes and complications that occur in the human body as a result of injuries or surgical operations.

Teaching and learning strategies	
The strategy	Use smart board Use the equipment available in the operating room
Course structure	

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
General questions and discussion	Theoretical + practical	Metabolic response to trauma	Metabolic response to injury	5	1
General questions, discussion and daily exam	Theoretical + practical	Inflammation acute and chronic	Acute and chronic infections	5	2
General questions and discussion	Theoretical + practical	Shock types and pathophysiology	Trauma, its types and pathology	5	3
General questions, discussion and daily exam	Theoretical + practical	Wound tissue repair and scars	Wounds, their healing and scarring	5	4
General questions and discussion	Theoretical + practical	Surgical infections	Surgical infections	5	5
General questions, discussion and daily exam	Theoretical + practical	Patient safety	Patient safety	5	6
General questions and discussion	Theoretical + practical	Preoperative care and care in operations	Care before and during surgery	5	7
General questions, discussion and daily exam	Theoretical + practical	Head injury, management of unconscious patient	Head injuries and their treatment	5	8
General questions and discussion	Theoretical + practical	Abscess, cellulitis, carbuncles	Abscesses and skin infections	5	9
General questions, discussion and daily exam	Theoretical + practical	Gangrene types and causes	Gangarena, its types and causes	5	10
General questions and discussion	Theoretical + practical	Fluid therapy	Fluid therapy	5	11
General questions and discussion	Theoretical + practical	Nutritional support in surgery	Nutrition in surgical cases	5	12
General questions, discussion and daily exam	Theoretical + practical	Acid-base balance	Acid-base balance	5	13
General questions and discussion	Theoretical + practical	Spinal and peripheral nerves injuries	Spinal column injuries	5	14
General questions, discussion and daily exam	Theoretical + practical	Principles of laparoscopic surgeries	Principles of laparoscopic surgery	5	15
16					
General questions and discussion	Theoretical + practical	Principles of pediatric surgery	Principles of pediatric surgery	5	17
General questions, discussion and daily exam	Theoretical + practical	Warfare injuries	War injuries	5	18
General questions and discussion	Theoretical + practical	Day-case surgery	Minor day surgeries	5	19
General questions, discussion and daily exam	Theoretical + practical	Reaction of body to injury	The body's reaction to injuries	5	20
General questions and discussion	Theoretical + practical	Bone infections	Bone infections	5	21
General questions, discussion and daily exam	Theoretical + practical	Ulcers, sinuses and fistulas	Ulcers and fistulas	5	22
General questions and discussion	Theoretical + practical	Types of surgical diseases (hereditary, congenital and acquired)	Types of surgical diseases (hereditary,	5	23

			congenital and acquired)		
General questions, discussion and daily exam	Theoretical + practical	Sterile precaution and AIDS	Sterilization and AIDS	5	24
General questions and discussion	Theoretical + practical	Calcium metabolism	Calcium metabolism	5	25
General questions and discussion	Theoretical + practical	Coagulopathy and blood dyscrasias	Coagulopathies and blood diseases	5	26
General questions, discussion and daily exam	Theoretical + practical	Specific infections	Special infections	5	27
General questions and discussion	Theoretical + practical	Types of bacteria	Types of bacteria	5	28
General questions, discussion and daily exam	Theoretical + practical	Venous diseases, thrombophlebitis	Vein diseases	5	29
General questions and discussion	Theoretical + practical	Oncology	Oncology	5	30
General questions, discussion and daily exam	Theoretical + practical	Abortion, CS, hysterectomy	Abortion and caesarean sections	5	31

Course evaluation	
Surprising questions while explaining the lecture and recording this in the students' evaluation record Participation in the lecture hall Submitting reports and monthly examinations	
Learning and teaching resources	
Required textbooks (methodology, if any)	Short practice of surgery, Sabiston's text book of surgery
Main references (sources)	Fiona basic surgical technique, COURTNEY text book of surgery
Recommended supporting books and references (scientific journals, reports....)	Any source related to basic surgical principles from the Internet or modern books
Electronic references, Internet sites	Uptodate, medicine net, pubmed, global surgery research

Course description form

Course name: Foundations of anesthesia	
Course Code	
Semester/Year	
Year	
Date this description was prepared	
22-2-2025	
Available forms of attendance:- In person	
Number of study hours (total)/number of units (total)	
4\6	
Name of the course administrator (if more than one name is mentioned)	
Name :- Lecturer . Dr. Hoda Fadel Hassan . Assit lec. sibaYaseen : email	
Course objectives	
Objectives of the study subject	a) Know the basic information about anesthesiology b) The ability to evaluate the patient's condition before the operation and conduct the necessary radiological and laboratory

	tests for the medical condition c) Knowledge of anesthetic drugs and medications used in the different stages of anesthesia d) Knowledge of the stages of anesthesia and the procedures required for each stage e) The ability to deal with expected and sudden complications that may occur during or after the operation f) Studying the medical devices needed in the different stages of anesthesia g) Knowledge of the different types of anesthesia for patients and the ability to choose the appropriate type according to need
Teaching and learning strategies	
The strategy	Interim formative tests formative assessmentAt the end of the week to get immediate feedback to measure the student's progress in learning The midterm exam takes place at the middle of the semester The final or post-test Summative assessment at the end of the study unit Practical test

Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Oral + written evaluation	Theoretical lectures	History of anesthesia	Knowledge of the history of anesthesia and the scope of use of anesthesia	6	1 st
Oral + written evaluation	Theoretical lectures interactive	Choice of anesthesia techniques	Know how to choose an anesthesia technique	6	2nd
Oral + written evaluation	Theoretical lectures+ Interactive	Visit the patient before the operation	Things to focus on during the patient's pre-operative visit	6	4 rd
Written and oral evaluation	Theoretical + interactive lectures	Pre-anesthetic medications	Knowing the medications that should be given before starting anesthesia	6	5 th
Written and oral evaluation	Theoretical + interactive lectures	General pharmacology	Knowledge of general pharmacology with precise details about how drugs interact with the body	6	6 th
Written and oral evaluation	Theoretical lectures + interactive	Anesthesia by gases	Know detailed information about the gases used in anesthesia and how to administer them	6	7th-8th
Written and oral evaluation	Theoretical lectures + interactive	Intravenous anesthetic drugs	Find out detailed information about how anesthesia is used using narcotic drugs and its complications	6	9th
Written and oral evaluation	Theoretical lectures + interactive	Muscle relaxants	Know the precise details about muscle relaxants, how to give them, and their complications	6	10th

Course evaluation

Conducting periodic exams for students for every one or two lectures

Surprising questions while explaining the lecture and recording this in the students' evaluation record

Conducting daily, semester and final exams

Learning and teaching resources

Required textbooks (methodology, if any)	fundamentals of anesthesia textbook
Main references (sources)	Morgan textbook of anesthesia clinical anesthesia Barash textbook of anesthesia clinical anesthesia
Recommended supporting books and references (scientific journals, reports....)	Millers textbook of anesthesia
Electronic references, Internet sites	All educational sites

Course description form

Course Name
Applied physiology
Course Code
Semester/year
Year
Date this description was prepared
2025-2-23
Available forms of attendance
Number of study hours (total)/number of units (total)
4\6
Name of the course administrator (if more than one name is mentioned)
Name Assit. Prof Dr.Hassan Abdullah Dr.Noor Dehyaa Email
Course objectives

Objectives of the study subject	Make the student able to understand and memorize medical terminology and scientific and linguistic concepts to be conversant in his field of specialization in the English language. The student learns some important linguistic rules in the educational, professional and social fields.
Teaching and learning strategies	
The strategy	Using modern teaching methods through daily student participation and the use illustrations.

Course structure

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
Daily participation and monthly exams	Use the screen Video explaining the differences between tenses	Heart physiology	So the heart beats	6	1,2
-Compose some sentences in a row -Monthly exams	Screen use - Some exercises from - methodological references	Cardiac action	Heart work	6	3
Daily and monthly exam	-Use the screen to solve topic-specific exercises Methodological references	ontractile cardiomycytesc	Contraction of heart cells	6	4,5
Daily and monthly examinations	Screen use Methodological references	Heart sound	Heart sounds	6	6
Brainstorming Daily and monthly examinations	Use the screen to display slides Explanatory video with examples Methodological references	Blood pressure regulation	Control blood pressure	6	7
Class questions and daily and monthly exams	Screen use Methodological references	systemic circulation	The big blood dollar	6	8,9
Raising class questions Daily and monthly examinations	Screen use Methodological references	Microcirculation	Mini course	6	10
Daily testing Monthly exams	Use the screen to display slides with an explanatory	Coronary circulation	Blood circulation	6	11,12

	video Methodological references				
Use brainstorming Monthly testing	Screen use Explanatory video Methodological references supported by examples	DC SHOCK	Cardiopulmonary resuscitation	6	13
Write some sentences Daily and monthly testing	Use the screen to display PowerPoint Methodological references	Cardiac innervation	Cardiac electricity	6	14
Raising class questions Monthly exams	Using the screen to show some body activities Methodological references are supported by some drawings	Arrhythmia	Body activities	6	15
Course evaluation					
Monthly and final exams, in addition to evaluating oral dialogue between students Active attendance and daily participation					

Infrastructure	
1 Required prescribed books	Applied Physiology in Intensive Care Medicinebooks.google.com › books Michael R. Pinsky, Laurent Brochard, Jordi Mancebo · 2007
(**Main references (sources**	Applied Physiology: A Handbook for Students of Medicinebooks.google.com › books Sir Robert Hutchison · 1908
Recommended books and references (scientific journals, reports,...)	
Electronic references, Internet sites	

Course description form

Course Name	
Internal Medicine	
Course Code	
Semester/year	
Year	
Date this description was prepared	
2025-2-22	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
4\6	
Name of the course administrator (if more than one name is mentioned)	
Name:Lecturer Dr. Manar Muhmmed	
Course objectives	
Objectives of the study subject	• Students acquire high skills in the field of diagnosing and treating diseases . • Make students able to acquire and collect diagnostic and scientific data . • Enabling students to examine and avoid possible complications in the patie
Teaching and learning strategies	
The strategy	Reference and help books Field studies in laboratories and hospitals Research sites, educational sites, CDs and specialized programs Continuous daily and weekly surprise tests Laboratory exercises and activities Educational videos

	Educational pictures Oral training and representation of each patient case inside the laboratory

Course structure					
Evaluation method	**Teaching method**	**Name of the unit/topic**	**Required learning outcomes**	**hours**	**the week**
General questions, discussion and daily testing	Theoretical and practical lecture	The hematological diseases, types, diagnosis.	The hematological diseases, types, diagnosis.	**6**	**1 st**
General questions, discussion and daily testing	Theoretical and practical lecture	Anemia: types, diagnosis, laboratory investigations of anemia, hemolytic anemia. .	Anemia: types, diagnosis, laboratory investigations of anemia, hemolytic anemia. .	**6**	**2nd**
General questions, discussion and daily testing	Theoretical and practical lecture	Gastrointestinal diseases: introduction, types, diagnosis, investigations & treatment.	Gastrointestinal diseases: introduction, types, diagnosis, investigations & treatment.	**6**	**3rd**
General questions, discussion and daily testing	Theoretical and practical lecture	Liver: hepatic disease: introduction, symptoms, signs, diagnosis & treatment.	Liver: hepatic disease: introduction, symptoms, signs, diagnosis & treatment.	**6**	**4th**
General questions, discussion and daily testing	Theoretical and practical lecture	Kidney: introduction, symptoms, signs, diagnosis & treatment.	Kidney: introduction, symptoms, signs, diagnosis & treatment.	**6**	**5 th**
General questions, discussion and daily testing	Theoretical and practical lecture	Cardiovascular diseases: introduction, symptoms, signs, diagnosis & treatment.	Cardiovascular diseases: introduction, symptoms, signs, diagnosis & treatment.	**6**	**6 th**
General questions, discussion and daily testing	Theoretical and practical lecture	Electrocardiogram.	Electrocardiogram.	**6**	**7 th**
General questions, discussion and daily testing	Theoretical and practical lecture	Respiratory diseases: introduction, symptoms, signs, diagnosis & treatment.	Respiratory diseases: introduction, symptoms, signs, diagnosis & treatment.	**6**	**8 th**
General questions, discussion and daily testing	Theoretical and practical lecture	Endocrine diseases: introduction, symptoms, signs, diagnosis & treatment.	Endocrine diseases: introduction, symptoms, signs, diagnosis & treatment.	**6**	**9 th**
General questions, discussion and daily testing	Theoretical and practical lecture	Infectious diseases: introduction, symptoms, signs, diagnosis & treatment.	Infectious diseases: introduction, symptoms, signs, diagnosis & treatment.	**6**	**10 th**
General questions, discussion and daily testing	Theoretical and practical lecture	Neurological diseases: introduction, symptoms, signs, diagnosis & treatment.	Neurological diseases: introduction, symptoms, signs, diagnosis & treatment.	**6**	**11 th**
General questions, discussion and daily testing	Theoretical and practical lecture	DIC, multiorgan system diseases: introduction, symptoms, signs, diagnosis & treatment.	DIC, multiorgan system diseases: introduction, symptoms, signs, diagnosis & treatment.	**6**	**12 th**

Course evaluation
• the audience • Quick questions created during the lecture • Stimulating thinking and contemplation about the medical condition and its causes • homework • Laboratory reports • Daily exams • Monthly exams • Final semester exam

Infrastructure	
1Required prescribed books	Methodical books on internal medicine
Main references (sources)	Davidsons Harrison
Recommended books and references (scientific journals, reports,...)	Davidsons Harrison
Electronic references Internet sites...	The website related to internal medicine in addition to the Internet Some websites specialize in lectures and reports on internal medicine

Course description form

. Course name	
Medical terms	
Course Code	
Semester/year	
year	
Date this description was prepared	
2025-2-21	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
2\2	
Name of the course administrator (if more than one name is mentioned)	
Name : Lecturer . .Dr.. Nadia Nayef Hassan	
Course objectives	
Objectives of the study subject	**The student should be able to distinguish the roots, suffixes, prefixes, and word endings of terms** **Medical: The student will be familiar with the most important medical terms in each system of the human body.**
Teaching and learning strategies	
The strategy	Use scientific references Displaying slides for medical terminology on the screen. Using the smart board.

Course structure					
Evaluation method	**Learning method**	**Name of the unit or topic**	**Required learning outcomes**	**hours**	**the week**
Daily and monthly exams	**Using the screen** and **Scientific references**	Introduction–structural analysis- Basic rules of medical word Building Major suffixes- suffixes denoting a state or condition . .	**Introduction – Structural analysis – Basic rules of the medical word building** **Main suffixes- Suffixes that indicate a state or condition**	2	**1 st**
Daily and monthly examinations	**Using the screen** and **Scientific references**	Major suffixes- suffixes denoting medical actions Prefixes- prefixes of No.& measures .	**Major suffixes - suffixes that denote medical procedures** **Prefixes- Prefixes of number and scales**	2	**2nd**
Daily and monthly examinations	**Using the screen** and **Scientific references**	Prefixes- prefixes of color Prefixes- prefixes of direction & position .	**Prefixes- Color prefixes** **Prefixes - Directional and positional prefixes.**	2	**3rd**
Daily and monthly examinations	**Using the screen** and **Scientific references**	Prefixes- prefixes of size, time & place Prefixes-prefixes of negation .	**Prefixes - Prefixes of size, time and place** **Prefixes - prefixes of negation**	2	**4 rd**
Daily and monthly examinations	**Using the screen** and **Scientific references**	Prefixes- prefixes of type Roots .	**Prefixes - type prefixes** **the roots**	2	**5 th**
Daily and monthly examinations	**Using the screen** and **Scientific references**	Word terminals Conditions .	**Word endings** **conditions**	2	**6 th**
Daily and monthly examinations	**Using the screen** and **Scientific references**	The body as a whole Skin & its appendages .	**The body as a whole** **Leather and its accessories.**	2	**7 th**
Daily and monthly examinations	**Using the screen** and **Scientific**	Gastrointestinal Tract Respiratory system .	**Digestive** **Respiratory system**	2	**+ 8th**

	references				
Daily and monthly examinations	**Using the screen** and **Scientific references**	Cardiovascular System Blood & lymphatic system	**Cardiovascular system** **Blood and lymphatic system**	2	**9 th**
Daily and monthly examinations	**Using the screen** and **Scientific references**	Musculoskeletal system Urogenital system .	**Musculoskeletal system** **Genitourinary system.**	2	**+ 10th**
Daily and monthly examinations	**Using the screen** and **Scientific references**	.system Endocrine	Endocrine system	2	**11 th**
Daily and monthly examinations	**Using the screen** and **Scientific references**	.system Nervous	**Nervous system**	2	**12 th**
Daily and monthly examinations	**Using the screen** and **Scientific references**	.senses Special	.Special senses	2	**13 th**
Daily and monthly examinations	**Using the screen** and **Scientific references**	Oncology	**Oncology**	2	**14 th**
Daily and monthly examinations	**Using the screen** and **Scientific references**	Specialty related terms	**Terms related to specialization**	2	**15 th**

Course evaluation
Conducting periodic exams for students for every one or two lectures Surprising questions while explaining the lecture and recording this in the students' evaluation record Conducting daily, semester and final exams

Learning and teaching resources	
Required textbooks (methodology, if any)	**Short Course of Medical terminology**
Main references (sources)	
Recommended supporting books and references (scientific journals, reports....)	
Electronic references, Internet sites	

Course description form

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week

Course Name	
Formacology	
Course Code	
Semester/year	
Year	
Date this description was prepared	
2025-21-2	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
3\4	
Name of the course administrator (if more than one name is mentioned)	
Name: Asst . . Lecturer . .. Maha Muhammad Kazem	
Course objectives	
Objectives of the study subject	Introducing the student to medications and emphasizing the medications used in anesthesia 2-Distinguish the medications used in spinal and general anesthesia 3- How to use medications according to the affected part, age, gender and weight
. Teaching and learning strategies	
The strategy	- Continuous daily and weekly surprise exams Use the smart board Participation in workshops

General questions and discussion And a daily exam	Theoretical + practical	Principles of Drug Therapy	Principles of pharmacology	4	1
General questions, discussion, and daily exam	Theoretical + practical	Cholinergic agonists and antagonists	Drugs that stimulate or antagonistic receptors of the sympathetic or parasympathetic system	4	2
General questions, discussion, and daily exam	Theoretical + practical	Adrenergic agonists and adrenergic antagonists	Drugs that stimulate and antagonist receptors of the sympathetic or sympathetic system	4	3
General questions, discussion, and daily exams	Theoretical + practical	Drugs affecting cardiovascular system : -Antihypertensive drugs -Anti-heart failure drugs	Medicines affecting the cardiovascular system -High blood pressure medications -Heart failure medications	4	4
General questions, discussion, and daily exam	Theoretical + practical	Drugs affecting cardiovascular system : -Antiarrhythmics . -Antianginal drugs	Drugs affecting cardiovascular gastrointestinal tract -Anti-arrhythmic medications - Angina medications	4	5
General questions, discussion, and daily exam	Theoretical + practical	Diuretics	Diuretics	4	6
General questions, discussion, and daily exam	Theoretical + practical	Antihistamines	Antihistamine medications	4	7
General questions, discussion and daily exam	Theoretical + practical	Drugs for Disorders of the Respiratory System	Respiratory medications	4	8
General questions, discussion, and daily exam	Theoretical + practical	Drugs for anemia	Anemia medications	4	9
General questions, discussion, and daily exam	Theoretical + practical	Drugs for anemia	Anemia medications	4	10
General questions, discussion, and daily exam	Theoretical + practical	Anticoagulants and Antiplatelet Agents	Anticoagulant medications and platelet aggregation	4	11
General questions, discussion, and daily exam	Theoretical + practical	Skeletal muscle relaxants	Muscle relaxants	4	12
General questions, discussion, and daily exam	Theoretical + practical	Local anesthetics	Local anesthetic medications	4	13
General questions, discussion, and daily exam	Theoretical + practical	General anesthetics	General anesthesia medications	4	14
General questions, discussion and daily exam	Theoretical + practical	General anesthetics	General anesthesia medications	4	15

The second course (pharmaceuticals (2

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
General questions and discussion + daily exam	Theoretical + practical	Hypnotic and sedative drugs	Hypnotic and sedative medications	4	16.

General questions, discussion, and daily exam	Theoretical + practical	Hypnotic and sedative drugs	Hypnotic and sedative medications	4	17.
General questions, discussion, and daily exam	Theoretical + practical	Narcotic (opioid) analgesics	Opioids as analgesics	4	18.
General questions, discussion, and daily exam	Theoretical + practical	Analgesics, antipyretics and anti-inflammatory agents	Analgesic, antipyretic and anti-inflammatory medications	4	19.
General questions, discussion and daily exam	Theoretical + practical	Analgesic, antipyretic and anti-inflammatory agents	Analgesic, antipyretic and anti-inflammatory medications	4	20.
General questions, discussion, and daily exam	Theoretical + practical	Gastrointestinal and Antiemetic Drugs	Digestive system medications and anti-vomiting medications	4	21.
General questions and daily exam discussion	Theoretical + practical	Gastrointestinal and Antiemetic Drugs	Digestive system medications and anti-vomiting medications	4	22.
General questions and discussion	Theoretical + practical	Drugs for Diabetes	Diabetes medications	4	23.
General questions and discussion	Theoretical + practical	Adrenal hormones -Corticosteroid -Inhibitors of adrenocorticosteroids biosynthesis or function	Adrenal hormones -Steroids -Inhibitors of the synthesis and functions of adrenal steroids	4	24.
General questions, discussion, and daily exam	Theoretical + practical	Antimicrobial agents -Cell wall inhibitors -Protein synthesis. Inhibitors -Quinolones and Folic acid antagonists	Antibiotics and their types according to their action	4	25.
General questions and discussion + daily exam	Theoretical + practical	Antimicrobial agents -Cell wall inhibitors -Protein synthesis. Inhibitors - Quinolones and Folic acid antagonists	Antibiotics and their types according to their action	4	26.
General questions, discussion, and daily exam	Theoretical + practical	Antifungal drugs Antiviral drugs	-Antifungal medications - Antiviral medications	4	27.
General questions, discussion, and daily exam	Theoretical + practical	Anti-Epileptic drugs	Epilepsy medications	4	28.
General questions, discussion, and daily exam	Theoretical + practical	Anti-Parkinson's drugs	Parkinson's paralysis medications	4	29.
General questions, discussion, and daily exam	Theoretical + practical	Clinical toxicology	Clinical toxicology	4	30.

. Course evaluation

Conducting periodic exams for students for each lecture or two

Surprising questions while explaining the lecture and recording this in the students' evaluation record

Conducting daily, semester and final exams

. Learning and teaching resources	
Required textbooks (methodology, if any)	Pharmacology; Lippincott Latest edition
Main references (sources)	Pharmacology; Katzung Latest Edition
Recommended supporting books and references (scientific journals, reports....)	Sources related to new medicines from the Internet or other modern books
Electronic references, Internet sites	Google Scholar, PubMed

Course description form

Course Name	
Anesthesia equipment techniques	
Course Code	
Semester/year	
quarterly	
Date this description was prepared	
Available forms of attendance	
My presence	
Number of study hours (total)/number of units (total)	
9\7	
Name of the course administrator (if more than one name is mentioned)	
Name : Lecturer .Dr. Muhanned Ali Assit.lec.Maithem Emali:-	
Course objectives	
Objectives of the study subject	Introducing the students to the components, questions, benefits, harms, and technique of inserting anesthesia devices with the accompanying problems
Teaching and learning strategies	
The strategy	Explaining the objectives, informing the student of the lecture before delivering it, using the discussion method, and determining the student's understanding of the material by conducting the daily exam

Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Exam	theoretical and practical lecture	Oxygen devices, oxygen percentage, flow speed, and their uses.	knowledge Giving devices Oxygen	7	1
Exam	theoretical and practical lecture	Division, types, characteristics, components, and use of each type of respirators	Knowledge of respiratory devices	7	2
Exam	theoretical and practical lecture	Types, components, uses, and techniques for using oxygen masks and respiratory devices	Knowledge of oxygen mask and respiratory devices	7	3
Exam	theoretical and practical lecture	Types, components and uses And the technique of using conduit devices Breathing Above the larynx	Device identification Airway above the larynx	7	4
Exam	theoretical and practical lecture	Types, components, uses and technique of using an endotracheal tube	Identifying the endotracheal tube	7	5
Exam	theoretical and practical lecture	Types, components, uses and technique of using the laryngoscope	knowledge laryngoscope	7	6
Exam	theoretical and	Types, components, uses and	Knowledge of manual	7	7

	practical lecture	techniques for using manual rescue devices	rescue devices		
Exam	theoretical and practical lecture	Types, components, uses, and technique of using a respirator	Knowledge of the respirator	7	8

Course evaluation	
Daily, quarterly and monthly exams	
Learning and teaching resources	
Required textbooks (methodology, if any)	Basics and principles of anesthesia devices
Main references (sources)	Bahaa Al-Sheikh's book for medical devices
Recommended supporting books and references (scientific journals, reports....)	British Medical Journal
Electronic references, Internet sites	medicineHealth

Course description form

Course Name
Foundations of surgery
Course Code
Semester/year
quarterly
Date this description was prepared
2025-20-2
Available forms of attendance
Number of study hours (total)/number of units (total)
5\4
Name of the course administrator (if more than one name is mentioned)
Name : Lecturer .Dr. Ahmed Dhia Hassan Emali:-
Course objectives

Objectives of the study subject	**Objectives of the course:** To familiarize students with general surgery subjects in terms of dealing with symptoms of trauma, burns, and plastic surgery, as well as dealing with a patient who has been exposed to accidents and injuries, how to treat them surgically, avoiding wound infections after surgery, and avoiding serious complications, as these accidents include head and spine injuries, and how to deal with each injury. The curriculum also includes various resection operations for various organs of the body and prevention before, during and after the surgical operation, including the thyroid gland and its complications, the pituitary gland and its complications, and the adrenal gland, as well as diseases and blood problems such as clotting problems, blood poisoning, failure of the respiratory and digestive systems, uterine operations, abortion, cesarean section, and organ transfers from one patient to another.
Teaching and learning strategies	
The strategy	Lectures and giving clinical cases with seminars conducted by female students

Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily exam	theoretical and practical lecture	General review of the gastrointestinal tract GIT and surgical techniques	Study of general review of the gastrointestinal tract GIT and surgical techniques	4	1
Daily exam	theoretical and practical lecture	salivary glands	Study of the salivary glands	4	2
Daily exam	theoretical and practical lecture	Tongue and oral cavity	Study of the tongue and oral cavity	4	3
Daily exam	theoretical and practical lecture	esophagus	Study of the esophagus	4	4

Theoretical exam	theoretical and practical lecture	Stomach and duodenum	Study of the stomach and duodenum	4	5
Daily exam	theoretical and practical lecture	Liver	Liver study	4	6
Daily exam	theoretical and practical lecture	Gallbladder and bile ducts	Study of the gallbladder and bile ducts	4	7
Daily exam	theoretical and practical lecture	Spleen and pancreas	Study of the spleen and pancreas	4	8
Daily exam	theoretical and practical lecture	Small and large intestine	Study of the small and large intestine	4	9
Daily exam	theoretical and practical lecture	Intestinal obstruction and fistula	Study of intestinal obstruction and fistula	4	10
Theoretical exam	theoretical and practical lecture	Appendix and peritoneum	Study of the appendix and peritoneum	4	11
Daily exam	theoretical and practical lecture	Rectum and anus	Study of the rectum and anus	4	12
Daily exam	theoretical and practical lecture	Abdominal wall and hernia	Study of the abdominal wall and hernia	4	13
	theoretical and practical lecture	the breast	Breast study		14
Daily exam	theoretical and practical lecture	Urology, surgical anatomy and congenital anomalies	Study of the urinary tract, surgical anatomy and congenital malformations	4	15
Daily exam	theoretical and practical lecture	Trauma to the kidneys, ureters, bladder and urethra	Study of trauma affecting the kidneys, ureters, bladder and urethra	4	16
Daily exam	theoretical and practical lecture	Enlarged kidney pelvis and urinary stones	Study of renal pelvic dilatation and urinary stones	4	17
Daily exam	theoretical and practical lecture	Urinary tract infection	Study of urinary tract infection	4	18
Daily exam	theoretical and practical lecture	Urination disorders	Study of urination disorders	4	19
Daily exam	theoretical and practical lecture	Urinary tract tumors	Study of urinary tract tumors	4	20
Daily exam	theoretical and practical lecture	The male genitourinary system: the prostate, testicles, and penis	Study of the male genitourinary system, prostate, testicles and penis	4	21
Daily exam	theoretical and practical lecture	Thoracic surgery respiratory pathophysiology general review	Thoracic surgery study respiratory pathophysiology general review	4	22
Daily exam	theoretical and practical lecture	Chest trauma, rib fractures and flail chest	Study of chest trauma, rib fractures and flail chest	4	23
Daily exam	theoretical and practical lecture	Pneumothorax	Study of pneumothorax	4	24
Daily exam	theoretical and practical lecture	Pleural effusion empyema	Study of pleural effusion empyema	4	25

Daily exam	theoretical and practical lecture	Chest tube management and treatment	Chest tube study, management and treatment	4	26
Daily exam	theoretical and practical lecture	Lung tumors	Lung tumors studies	4	27
Daily exam	theoretical and practical lecture	Types of chest operations	Study the types of chest operations	4	28
Daily exam	theoretical and practical lecture	Congenital heart disease and heart disease acquired	Study of congenital heart disease and acquired heart disease	4	29
Daily exam	theoretical and practical lecture	CPR	Cardiac resuscitation study	4	30

Course evaluation	
Daily, quarterly and monthly exams	
Learning and teaching resources	
Required textbooks (methodology, if any)	The prescribed and approved book of surgery (Schwartz), Brunner
Main references (sources)	Schwartz, Brunner
Recommended supporting books and references (scientific journals, reports....)	Curriculum book for general surgery, curriculum book for internal medicine British Journal of General Surgery
Electronic references, Internet sites	Stanford health care website. General Surgery Types ,medicine Health

Course description form

Course Name	
Anesthesia	
Course Code	
Semester/year	
Semester	
Date this description was prepared	
2025-2-20	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
11\ 8	
Name of the course administrator (if more than one name is mentioned)	
Name : Lecturer .Dr. Rasoul Faiq Rasul Al-Hashemi.+Assit. Lecturer Saba Yaseen Emali :	
Course objectives	
Objectives of the study subject	Introducing the students to the mechanism of evaluating patients and preparing them before operations, and introducing them to the medications used before and during anesthesia, along with knowing the types of anesthesia and details of the medications used.
Teaching and learning strategies	
The strategy	Lecture style and giving clinical cases with parts of seminars by students
Course structure	

Evaluation method	**Learning method**	**Name of the unit or topic**	**Required learning outcomes**	**hours**	**the week**
Daily exam	Theoretical lecture	Medical history, including examination and tests	Know the patient's assessment before the operation	8	**1 st**
Daily exam	Theoretical lecture	Preparing patients, planning anesthesia, and preventing side effects	Knowledge of connectivity working with Anesthesia	8	**2nd**

Daily exam	Theoretical lecture	Medications before, during and after anesthesia	Knowledge of general anesthesia	8	**4 rd**
Daily exam	Theoretical lecture	Action, effect, uses, and side effects of intravenous anesthetics	Knowledge of anesthesia medications Intravenous	8	**5 th**
A theoretical exam	Theoretical lecture	Action, effect, uses and side effects of inhaled anesthetics	Knowledge of inhaled anesthetics	8	**6 th**
Theoretical exam	Theoretical lecture	Types and techniques of regional anesthesia	Knowledge of regional anesthesia	8	**6 th**
Theoretical exam	Theoretical lecture	Physiological changes and mechanism of anesthesia in children	Knowledge of pediatric anesthesia	8	**7 th**
Theoretical exam	Theoretical lecture	Physiological changes and mechanism of anesthesia in pregnant women	Knowledge of anesthesia for pregnant women	8	**7 th**

Course evaluation	
Daily, quarterly and monthly exams	
Learning and teaching resources	
Required textbooks (methodology, if any)	Oxford anesthesia
Main references (sources)	Morcan anesthesia
Recommended supporting books and references (scientific journals, reports....)	British Medical Journal
Electronic references, Internet sites	Emedicine Health

Course description form

Course Name	
Principles of computers	
Course Code	
Semester/year	
Semester	
Date this description was prepared	
2025-2-22	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
4\3	
Name of the course administrator (if more than one name is mentioned)	
Name :Asst. .Lecturer. . Muhammad Ghazi Khassaf Emali: mohammed.alshami@alzahraa.edu.iq	
Course objectives	
Objectives of the study subject	Providing the student with knowledge in managing and using various computer applications.
Teaching and learning strategies	
The strategy	The theoretical and explanation method is by presenting the material on the program, including PowerPoint, in the form of diagrams and pictures, in order to attract the student's attention and help him not feel bored. The practical method is to apply what was presented on the calculator and conduct daily and monthly exams.

Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily participation and monthly exams	Theoretical and practical lecture	The statistical program SPSS , the concept of the program, its operation, steps of data analysis		3	1

Daily participation and monthly exams	Theoretical and practical lecture	Identify the components of the main screen, enter data, save and retrieve data		3	2
Daily participation and monthly exams	Theoretical and practical lecture	Sorting and altering data, determining the statistical procedure, how to insert a variable or case, merging files, and analysis		3	3
Daily participation and monthly exams	Theoretical and practical lecture	Identify the statistical summary of the given data and benefit from the data it provides in exploring data or reports for columns or rows.		3	4
Daily participation and monthly exams	Theoretical and practical lecture	Comparing means, comparing variables Conduct some nonparametric tests such as chi square		3	5
Daily participation and monthly exams	Theoretical and practical lecture	Quality control panel applications		3	6
Daily participation and monthly exams	Theoretical and practical lecture	Dealing with charts		3	7
Daily participation and monthly exams	Theoretical and practical lecture	Dealing with orders : Summarize (cross tabs), custom tables (Basic tables), Anuva Models (one - way), non-paramedic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related).		3	8
Daily participation and monthly exams	Theoretical and practical lecture	Human body encyclopedia program with its details		3	9
Daily participation and monthly exams	Theoretical and practical lecture	Identify the vocabulary of the human body and benefit from the presentation methods it provides		3	10
Daily participation and monthly exams	Theoretical and practical lecture	s Body , the modern version that runs under the Windows environment : the concept of the program, Its operation and features, main screen components, and how to deal with tools and menus The options it provides and how to get the exact details. - Discussing the presentations and explanations that the program provides for various human body systems, such as the skeletal . Etc....., Nervous, Muscles - Benefiting from the sound or pronunciation of some of the vocabulary it provides in addition to learning about Real action movies that exist. - How to access the precise details provided through the database and search index For that.		3	11

		- Addressing community health by choosing Fitness & Health , which deals with various types Food, weight loss, food calories, weight, first aid, Drugs and others. - Identifying the causes of deaths, births, fetal stages, sexual diseases and methods of prevention One of them is by choosing Living . - Useful options such as educational lessons or quick tests that provide a tool An easy and quick test for a person to know his academic level in the subjects presented the program.			

Course evaluation	
Daily, quarterly and monthly exams	
Learning and teaching resources	
Required textbooks (methodology, if any)	-
Main references (sources)	-
Recommended supporting books and references (scientific journals, reports....)	-
Electronic references, Internet sites	-

Course description form

Course Name	
Foundations of intensive care	
Course Code:	
Semester/year	
Semester	
Date this description was prepared	
2025-2-20	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
9\7	
Name of the course administrator (if more than one name is mentioned)	
Name: Asst .Lecturer. Alaa Abdel Majeed Al-Yasiri Emali: alaa.abdulmajeed@alzahraa.edu.iq	
Course objectives	
Objectives of the study subject	1 Teaching the subject aims to provide students with knowledge about the basics of using intensive care devices and maintaining them in intensive care units . 2 At the end of the year, the student should be able to maintain the devices . 3 Dismantling, re-installing and re-installing the devices . 4 How to manage and resuscitate critical cases. 5 Training on electrocardiogram examination 6 Knowing what trauma is and how to deal with it
Teaching and learning strategies	
The strategy	Anaging the lecture in an applied manner linked to the reality of daily life to attract the student to the topic of the lesson without straying from the core of the topic so that the material is flexible and amenable to understanding and analysis. Assigning the student to some group activities and duties and writing self-reports

Course structure

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
General questions and discussion	Theoretical practical	Principles of IC U	Principles of intensive care science	7	1 st
General questions and discussion	Theoretical practical	Principles of IC U	Principles of intensive care science	7	2nd
General questions and discussion	Theoretical practical	Practical management	Practical measure	7	3rd
General questions, discussion, and daily exam	Theoretical practical	Practical management	Practical measure	7	4th
general questions And discuss	Theoretical practical	Artificial ventilation	Basics of artificial ventilation	7	5 th
General questions, discussion, and daily exam	Theoretical practical	Artificial ventilation	Basics of artificial ventilation	7	6 th
general questions And discuss	Theoretical practical	Clinical monitoring	Clinical monitoring	7	7 th
General questions, discussion and daily exam	Theoretical practical	Clinical monitoring	Clinical monitoring	7	8 th
general questions And discuss	Theoretical practical	Cardio pulmonary resuscitation.	Cardiopulmonary resuscitation	7	9 th
general questions And discuss	Theoretical practical	Cardio pulmonary resuscitation	Cardiopulmonary resuscitation	7	10 th
general questions And discuss	Theoretical practical	Hypoxia and O2 therapy	Lack of oxygen and its treatment	7	11 th
general questions And discuss	Theoretical practical	Hypoxia and O2 therapy	Lack of oxygen and its treatment	7	12 th
general questions And discuss	Theoretical practical	Special complications DVT, Pneumothorax stress ulcer, ARDS.	Complications in the intensive care unit	7	13 th
general questions And discuss	Theoretical practical	Special complications DVT, Pneumothorax stress ulcer, ARDS.	Complications in the intensive care unit	7	14 th
general questions And discuss	Theoretical practical	CNS: Glasco coma scale, head injury.	Scale of the degree of consciousness and brain injury	7	15 th

General questions and discussion	Theoreticalpra ctical	CNS: Glasco coma scale, head injury.	Scale of the degree of consciousness and brain injury	7	1 st
General questions and discussion	Theoretical practical	Indication of intubations. Ventilation & Extubation	Indications for intubation and artificial ventilation	7	2nd
General questions and discussion	Theoretical practical	Emergency drugs	Emergency medications	7	3rd
General questions and	Theoretical practical	Emergency drugs	Emergency medications	7	4th

discussion					
General questions and discussion	Theoretical practical	Blood & blood transfusion.	Transfusion	7	5 th
General questions and discussion	Theoretical practical	Blood & blood transfusion.	Transfusion	7	6 th
General questions and discussion	Theoretical practical	IVF & water & electrolyte balance.	Parenteral nutrients and electrolyte disturbance	7	7 th
General questions and discussion	Theoretical practical	IVF & water & electrolyte balance.	Parenteral nutrients and electrolyte disturbance	7	8 th
General questions and discussion	Theoretical practical	Nutrition	nutrition	7	9 th
General questions and discussion	Theoretical practical	Nutrition	nutrition	7	10 th
General questions and discussion	Theoretical practical	Delayed recovery.	Delayed awakening	7	11 th
General questions and discussion	Theoretical practical	Delayed recovery.	Delayed awakening	7	12 th
General questions and discussion	Theoretical practical	Mode of ventilation	Artificial ventilation patterns	7	13 th
General questions and discussion	Theoretical practical	Mode of ventilation	Artificial ventilation patterns	7	14 th
General questions and discussion	Theoretical practical	Special complications	Complications in the intensive care unit	7	15 th

Course evaluation	
Participation in the classroom. Submitting periodic reports Weekly exams Monthly and final exams.	
Learning and teaching resources	
Required textbooks (methodology, if any)	Marinos the ICU BOOK
Main references (sources)	ICU protocol
Recommended supporting books and references (scientific journals, reports....)	Resources related to modern refocus care techniques from the Internet or other modern books
Electronic references, Internet sites	Google Scholar, PubMed

Course description form

Course Name
English
Course Code
Semester/year
Semester
Date this description was prepared
2025-20-2
Available forms of attendance
Number of study hours (total)/number of units (total)

2\1	
Name of the course administrator (if more than one name is mentioned)	
Name : Asst. Lecturer. Zharaa Hmeid	
Course objectives	
Objectives of the study subject	Make the student able to absorb, understand and memorize medical terminology and scientific and linguistic concepts to be conversant in his field of specialization in the English language. The student learns some important linguistic rules in the educational, professional and social fields.
Teaching and learning strategies	
The strategy	Using some important grammatical phrases to form some class discussions within the studentsspecialization
Course structure	

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily participation and monthly exams	**-Use the screen An explanatory video of some medical terminology**	Medical terminology	**Some medical terminology**	1	1 st
-Compose some sentences in a row -Monthly exams	**Screen use - Some exercises -**	Auxiliary verb, do, be, have. This is with practice in work	**auxiliary verbs**	1	2nd
Daily and monthly exam	**-Use the screen to solve topic-specific exercises**	Present/Past/Present perfect, Questions and negatives, short answers	**Past, present and present perfect tense**	1	3rd
Daily and monthly exams	**Screen use Methodological references**	Modal verbs (1): - have (got) to, can. Be allowed to , obligation a permission, giving opinion,	**Standard verbs**	1	4 th -5 th
Class questions and daily and monthly exams	**Screen use Methodological references**	Phrasal verbs	**Phrasal verbs**	1	6 th
Raising class questions Daily and monthly exams	**Screen use Methodological references**	Future form, going to and will, Questions with like, verb pattern	**Future tense**	1	7 th -8 th
Daily testing Monthly exams	**Use the screen to display slides Methodological references**	Present passive, Past Simple and Past Perfect	**The active voice and the passive voice**	1	9 th -10 th
Use brainstorming Monthly testing	**Screen use Methodological references supported by examples**	Present Perfect Simple	**Present perfect simple**	1	11 th
Write some sentences	**Use the screen to display PowerPoint**	Present Perfect Continuous	**Present perfect**	1	12 th

Daily and monthly testing	**Methodological references**		**continuous**		
Raising class questions Monthly exams	**Use the screen to show the differences Methodological references are supported by external sources**	Simple versus Continuous, Questions and answers	**The present perfect simple and continuous**	1	13 th -14 th
Daily and monthly tests	**Screen use Methodological references**	Modal verbs must, could, might, can't, probability, Character adjectives, Agreeing and disagreeing	**Actions should, should for possibility**	1	15th -16th
Use brainstorming Raising questions Monthly exam	**Use the screen to display the material Methodological references Show an explanatory video**	Verbs and nouns that go together	**Verbs and nouns together**	1	17 th -18 th
Raise questions with examples Monthly exam	**Screen use Methodological references**	Time expressions, Compound nouns, Expressing Quantity, Indirect questions	**Description of time, compound nouns, indirect question**	1	19th -20th - 21th-
Daily oral and monthly exam	**Screen use Methodological references Show an explanatory video**	Base and strong adjectives, Making suggestions, Time clauses	**Source and strong adjectives**	1	22th- 23th
Form some sentences Monthly exam	**Screen use Methodological references**	Present/Past/Present perfect, Questions and negatives, short answers	**Present and past tense and how to formulate questions**	1	24 th - 25 th

Course evaluation	
Daily, quarterly and monthly exams	
Learning and teaching resources	
Required textbooks (methodology, if any)	Headway Plus/Upper Intermediate New Student Book
Main references (sources)	Headway Plus/Upper Intermediate New Key Words Book
Recommended supporting books and references (scientific journals, reports....)	-
Electronic references, Internet sites	-

Course description form

Course Name
Internal medicine
Course Code
Semester/year
Semester
Date this description was prepared
2025-20-2
Available forms of attendance
My presence
Number of study hours (total)/number of units (total)

7\5
Name of the course administrator (if more than one name is mentioned)
Lecture.Dr ..Ali Fadel Emali:-
Course objectives

Objectives of the study subject	Introducing the students to internal diseases related to the symptoms of jaundice, infectious ulcers, kidney disease, and acute and chronic kidney failure, with a study of heart diseases, such as coronary heart failure, high heart pressure, and heart failure, with a study of heart rhythm differences, then a study of respiratory system diseases with a study of respiratory system failure, then a study of diabetes performance and a study of its syndrome. Action and effect of electrolytes
Teaching and learning strategies	
The strategy	Lecture style and giving clinical cases with seminal parts taught by female students

Course structure -1

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Daily exam	A theoretical and practical lecture	Jaundice causes	Know the causes of jaundice	5	1 st
Daily exam	A theoretical and practical lecture	Types of jaundice diagnosis	Knowing the types of jaundice diagnosis	5	2nd
Daily exam	A theoretical and practical lecture	Kidney failure causes diagnosis	Knowing the kidney function	5	4 rd
Daily exam	A theoretical and practical lecture	Chronic kidney failure	Knowing kidney failure	5	5 th
Daily exam	A theoretical and practical lecture	Coronary heart failure causes symptoms diagnosis	Identifying coronary heart failure	5	6 th
Daily exam	A theoretical and practical lecture	High blood pressure: causes, symptoms, complications	Study of high blood pressure the blood	5	7 th

Course evaluation
Daily, quarterly and monthly exams

Learning and teaching resources -2

Required textbooks (methodology, if any)	Dave son principles and application in internal medicine
Main references (sources)	Harrison's book on internal medicine
Recommended supporting books and references (scientific journals, reports....)	Curriculum book for internal medicine British Medical Journal
Electronic references, Internet sites	medicineHealth

Course description form

Course Name
Anesthesia equipment techniques
Course Code
Semester/year
Semester
Date this description was prepared
2025-22-2
Available forms of attendance
Number of study hours (total)/number of units (total)

8\6

Name of the course administrator (if more than one name is mentioned)	
Name :- Lecturer .dr. Muhannad Ali Fadel email :-	
Course objectives	
Objectives of the study subject	**The student should be able to know the medical devices used for anesthesia the tools used, and how to operate them and use them correctly**
Teaching and learning strategies	
The strategy	Asking questions about the lecture topic or from a previous lecture related to the same lecture topic Practical application of the equipment available in the laboratory

Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Physiological monitoring, percentage of inhaled oxygen, carbon dioxide concentration and anesthetic gases	Learn how devices work to monitor oxygen saturation, carbon dioxide concentration, inhaled gas concentrations, and inhaled oxygen concentration.	6	**1st +** 2nd
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Measuring respiratory volume, measuring the concentration of gases in the blood	Knowing how respiratory volume measuring devices work, knowing how to draw, read, and how to make a blood gas measuring device	6	3rd **+ 4** th
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Information devices and information preservation	Knowledge of the operating systems of information collection devices, along with knowledge of the importance of collecting and preserving patient medical information	6	**5th** + **6th**
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Contamination of operating rooms with anesthetic gas emissions Measuring the level of pollution Ways to prevent pollution Decontamination devices	Knowing the severity of pollution in the operating room, ways to reduce it and the risks resulting from it	6	7th + 8th
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Fluid extraction device Its components, examination and maintenance	Knowing the parts and how the fluid extraction device works and its maintenance	6	9th + 10th
Oral exam Daily exams Tide exams and End of the course	-Use the smart screen -equipment and tools Available in the hall Study and	Cleaning, deinfection and sterilization of medical devices	Knowledge of cleaning, deinfection, and sterilization methods for medical devices	6	11th + 12th

	laboratory				
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Checking and maintaining the respirator	Inspecting, maintaining and maintaining the anesthesia administration device	6	13+14
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Electrical risks and their prevention and accidents resulting from electrical current sources	Knowing how electric current works, its dangers, and preventing electrical hazards	6	15 + 16
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	The electric ironing device and accidents resulting from its use	Knowing how the electric ironing device works and the risks resulting from it	6	17+18
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Defibrillator device Pacemaker	Knowing how defibrillators and pacemakers work and how they interact with surgical operations	6	19+20
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Laser How the laser works Laser components Prevention and safety of laser radiation	Know the basics of how laser devices work and their components	6	21+22
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Devices used during an MRI Other devices include a Foley catheter to collect urine and a peripheral nerve stimulator	Knowing the basics of how the devices used during MRI work, knowing how the urine collection device works, and the peripheral nerve stimulator device	6	23+24
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Electronic components in the artificial respirator, electronic control of breathing systems and accidents resulting from them	Knowledge of the electronic systems in the artificial respirator and their accidents	6	25+26
Oral exam Daily exams Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Risks resulting from anesthesia devices and ways to prevent their occurrence	Know the potential risks of medical devices and prevent them	6	27+28
-Oral exam -Daily exams - Tide exams End of the course	-Use the smart screen -equipment and tools Available in the hall Study and laboratory	Maintaining devices	Knowing how to maintain and maintain different devices	6	29+30

Course evaluation	
Conducting periodic exams for students for each lecture Surprising questions while explaining the lecture and recording this in the students' evaluation record Daily and household duties and seminars Conducting daily, quarterly and final exams	
Learning and teaching resources	
Required textbooks (methodology, if any)	Anesthesia equipment, principle and application, Jan Ehrenwerth, 3rd editio
Main references (sources)	The MGH Textbook of Anesthetic Equipment, Warren S. Sandb MD, PhD 2nd edition
Recommended supporting books and references (scientific journals, reports....)	Related journals
Electronic references, Internet sites	Pumped, google schooler

Course Description form

Course name	
Professional ethics	
Course Code	
Semester/year	
Semester	
Date this description was prepared	
2025-22-2	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
2\2	
Name of the course administrator (if more than one name is mentioned)	
Name :Asst . Lecturer .Fatima Rahim Abdel : email fatima.raheem@alzahraa.edu.iq	
Course objectives	
Objectives of the study subject	The course aims to introduce professional ethics according to their technical specialization and provide them with professional ethical rules that enhance their commitment to them, in their expected field of work after graduation.
Teaching and learning strategies	
The strategy	Using theoretical lectures in college classrooms Watch videos to teach the student in person Teaching the student the concepts of professional ethics, in addition to adopting additional sources to enrich the lectures with modern concepts
Course structure	

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Moral •The concept of morality and its origin •General rules of ethics • Sources of ethics	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	1st
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Moral •Moral values • The importance of ethics for the individual and society	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	2nd
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Work and profession	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	3rd
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Professional ethics	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	4th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Values and ethics of the profession •honesty •Honesty •Advice	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	5th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Values and ethics of the profession • Justice • Behavior Perfection of work	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	6th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Patterns of unethical behavior in the profession • Administrative corruption Bribery	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	7th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Patterns of unethical behavior in the profession •Bribery •Cheating	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	8th

Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Means and methods of consolidating the values of professional ethics •Method of consolidating professional ethics •Levels of building and consolidating professional ethics •Means and methods of consolidating professional ethics	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	9th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Means and methods of consolidating the values of professional ethics •Things that must be taken into consideration in formulating the ethical code of the profession •How to promote ethical behavior at work according to (Kreitner and Kinke)	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	10th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Ethics of practicing medical professions •Characteristics and prescriptions of the medical technician •The duties of the medical technician towards his profession, the patient, and society	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	11th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Ethics of practicing medical professions •Patient rights	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	12th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Ethics of practicing medical professions The medical technician's relationship with society and his responsibility towards the environment and public safety	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	13th
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course	Ethics of practicing medical	The student's knowledge of the scientific subject and awareness of	2	14th

	of the lecture	professions • Professional relationship	scientific, intellectual and professional skills		
Oral exam Daily exams Tide exams and End of the course	Use the discussion method and ask some questions during the course of the lecture	Ethics of practicing medical professions • Ethics of teaching and learning about patients	The student's knowledge of the scientific subject and awareness of scientific, intellectual and professional skills	2	15th

Course evaluation	
homework Daily exam Reports Daily attendance Participation in lectures Skills and speed of completing tasks Score of monthly exams The student is evaluated based on his success in understanding the scientific material	
Learning and teaching resources	
Required textbooks (methodology, if any)	Doherty, R. F. (2020). *Ethical dimensions in the health professions-e-book* . Elsevier Health Sciences.
Main references (sources)	Robinson, S., & Doody, O. (2021). *Nursing & Healthcare Ethics-E-Book* . Elsevier Health Sciences. Runciman , B., Merry, A., & Walton, M. (2017). *Safety and ethics in healthcare: a guide to getting it right* . CRC Press. Hall , M.A., Orentlicher, D., Bobinski, M.A., Bagley, N., & Cohen, (2018). *Health care law and ethics* . Aspen Publish
Recommended supporting books and reference (scientific journals, reports....)	Hester, D. M., & Schonfeld, T. L. (Eds.). (2022). Guidance for healthcare ethics committees. Cambridge University Press.
Electronic references, Internet sites	Smart patient Mayo clinic Google scholar

Course description form

Course Name	
Anesthesia	
Course Code	
Semester/year	
Semester	
Date this description was prepared	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
8\6	
Name of the course administrator (if more than one name is mentioned)	
Name: Lecturer .Dr. .Huda Fadel	
Course objectives	
Objectives of the study subject	Introducing the student to how to administer anesthesia doses How to give anesthesia for some special cases

	Dealing with complications that occur before, during and after anesthesia Learn about ways to care for the patient when emergency situations occur during anesthesia The possibility of continuous monitoring of the patient inside the operating theaters in a focused manner Identify the important symptoms and signs that occur during anesthesia that indicate the presen of an abnormality
Teaching and learning strategies	
The strategy	Continuous daily and weekly surprise exams Use the smart board workshops
Course structure	

Evaluation method	Teaching method	Name of the unit/topic	hours	the week
General questions and discussion	theoretical and particle lecture	physiological changes in pregnancy	6	1 st
General questions and discussion	theoretical and particle lecture	Physiological changes in pediatrics	6	2nd
General questions and discussion	theoretical and particle lecture	Anesthesia for obstetrics	6	4 rd
General questions and discussion	theoretical and particle lecture	Anesthesia for pediatrics	6	5 th
General questions and discussion	theoretical and particle lecture	Anesthesia for geriatric	6	6 th
General questions and discussion	theoretical and particle lecture	Anesthesia effects on respiratory system	6	7
General questions and discussion	theoretical and particle lecture	Volatile anesthetics	6	8
General questions and discussion	theoretical and particle lecture	difficult endotracheal intubation	6	9
General questions and discussion	theoretical and particle lecture	Thoracic anesthesia	6	10
General questions and discussion	theoretical and particle lecture	Thyroidectomy	6	11
General questions and discussion	theoretical and particle lecture	.Renal and liver disease anesthesia	6	12
General questions and discussion	theoretical and particle lecture	Diabetic patient anesthesia b	6	13
General questions and discussion	theoretical and particle lecture	Hypertension patient anesthesia	6	14
General questions and discussion	theoretical and particle lecture	Pheochromocytoma	6	15
General questions and discussion	theoretical and particle lecture	Anesthesia for burn patient	6	16
General questions and discussion	theoretical and particle lecture	TURP	6	17 18

General questions and discussion	theoretical and particle lecture	Hypoxia	6	19
General questions and discussion	theoretical and particle lecture	Hypercapnia	6	20 21
General questions and discussion	theoretical and particle lecture	Alcoholic patient	6	22
General questions and discussion	theoretical and particle lecture	Surgical positions	6	23

Course evaluation	
The student bears responsibility . Active participation in the classroom is evidence of commitment Commitment to the specified dates for conducting assignments and research Monthly and quarterly exams reflect commitment and achievement of knowledge and skills	
Learning and teaching resources	
Required textbooks (methodology, if any)	Morgan, oxford
Main references (sources)	Morgan, oxford
Recommended supporting books and references (scientific journals, reports....)	Google Scholar, PubMed, up-to-date
Electronic references, Internet sites	Google Scholar, PubMed, up-to-date

Course description form

Course Name	
Fundamentals of nursing	
Course Code	
Semester/year	
Semester	
Date this description was prepared	
2025-23-2	
Available forms of attendance	
Number of study hours (total)/number of units (total)	
6\5	
Name of the course administrator (if more than one name is mentioned)	
Name: Asst .l Lecturer.. Fatima Rahim Abdel : email	
Course objectives	
Objectives of the study subject	**Identify on Principle that get up on him all procedures Intervention Nursing Related By providing care For the patient . application Curriculum Organizer To analyze problems the patient. Use approach Organizer To analyze Problems Health performance skills Nursing the basic Related Under circumstances the patient the different Benefit from principles Sterilization Medical / surgical And precautions Overall To prevent transmission of infection when caring The patients .**
Teaching and learning strategies	
The strategy	**Smart screen the blackboard White Educational posters Educational videos a lecture Electronic**

	laboratory Skills Nursing

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	**Introduction to nursing**	**The student's knowledge of the scientific subject and awareness of scientific, mental, and professional skills**	5	**1**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	**The concept of the nursing process and its stages**	**Knowledge and awareness of the scientific and mental skills related to the nursing process**	5	**2**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	**Preoperative nursing measures and physical assessment**	**Knowledge and awareness of the scientific, mental and professional skills in pre-surgical assessment**	5	**3**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	**Nursing measures before anesthesia, during anesthesia and after anesthesia**	**Knowledge and awareness of the patient's scientific, mental, and professional skills before surgery**	5	**4**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	Nursing measures during surgery	**Knowledge and awareness of the patient's scientific, mental, and professional skills during the operation**	5	**5**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	Nursing care in the recovery room	**Knowing and understanding the scientific, mental, and professional skills of the patient in the recovery room**	5	**6**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	Postoperative nursing care	**Knowledge and awareness of the scientific, mental and professional skills to care for the patient after surgery**	5	**7**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	Nursing measures in the cardiac care unit	**Knowledge and awareness of the scientific, mental, and professional skills to care for the patient in the cardiac care unit**	5	**8**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills**	**Nursing measures for the patient during cardiovascular surgery**	**Knowledge and awareness of the patient's scientific, mental, and professional skills during cardiovascular operations**	5	**9**

	laboratory				
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	**Nursing measures for intravenous therapy**	**Knowledge and awareness of the scientific, mental and professional skills of patients treated with intravenous infusion**	5	**10**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	**Nursing measures for a patient who suffers from a nervous system disorder (unconscious patient)**	**Knowledge and awareness of the scientific, mental and professional skills of patients with neurological diseases**	5	**11**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	**Nursing measures for a patient who suffers from musculoskeletal dysfunction, trauma, and fractures**	**Knowledge and awareness of skills for a patient who suffers from muscle and skeletal dysfunction, trauma and fractures**	5	**12**
the exam Theoretical . the exam Practical Activities Safiya	**smart board Posters a lecture Nursing skills laboratory**	**Nursing care for critical cases**	**Knowledge and awareness of the scientific, mental, and professional skills related to caring for critically ill patients**	5	**13**
the exam Theoretical . the exam Practical	**smart board Posters a lecture Nursing skills laboratory**	**first aid**	**Knowledge and awareness of the scientific, mental and professional skills related to first aid**	5	**14**
Course evaluation					
Theoretical exam Practical exam homework Daily exams Reports Participation in lectures Skills and speed of completion					

Required textbooks (methodology, if any)		• Berman, A., Snyder, S. H., & Frandsen, G. (2022). Kozier and Erb's Fundamentals of nursing: concepts; process; and practices. 10th edition. Pearson Education, Inc. United States of America. • Crisp, J., Douglas, C., Rebeiro, G., & Waters, D. (2020). *Potter & Perry's Fundamentals of Nursing ANZ edition-eBook* . Elsevier Health Sciences. Kozier, B., Erb, G., Berman, A., Snyder, S. H., & Frandsen, G., Buck, M., Ferguson, L., Yiu, L., and Stamler, L. (2018). Fundamentals of Canadian Nursing: Concepts, Process, and Practice. 4th edition. Pearson Canada Inc.
Main references (sources)		Taylor, C., Lynn, P., & Bartlett, J. (2023). *Fundamentals of nursing: The art and science of person-centered care* . Lippincott Williams & Wilkins.
Recommended supporting books and references (scientific journals, reports....)		• Berman, A., Snyder, S. H., & Frandsen, G. (2016). *Kozier and Erb's Fundamentals of nursing: concepts; process; and practices.* 10 th edition. Pearson Education, Inc. United States of America. Pp. 477-508. Taylor, C.R., Lillis, C., LeMone, P., and Lynn, P. (2011). *Fundamentals of nursing: The art and science of nursing care* . Seventh edition. Lippincott Williams & Wilkins. China. Pp. 514-554.
Electronic references, Internet sites		• Berman, A., Snyder, S. H., & Frandsen, G. (2022). Kozier and Erb's Fundamentals of nursing: concepts; process; and practices. 10th edition. Pearson Education, Inc. United States of America. • Crisp, J., Douglas, C., Rebeiro, G., & Waters, D. (2020). *Potter & Perry's Fundamentals of Nursing ANZ edition-eBook* . Elsevier Health Sciences. Kozier, B., Erb, G., Berman, A., Snyder, S. H., & Frandsen, G., Buck, M., Ferguson, L., Yiu, L., and Stamler, L. (2018). Fundamentals of Canadian Nursing: Concepts, Process, and Practice. 4th edition. Pearson Canada Inc.

Course Name
Surgical internal medicine
Course Code
Semester/year
Semester
Date this description was prepared
2025-23-2
Available forms of attendance
Number of study hours (total)/number of units (total)
6\5
Name of the course administrator (if more than one name is mentioned)
Name : Dr.Ahmed Diaa Hussein
Course objectives

Objectives of the study subject	**Introducing the student to the various organs of the body and the impact of injuries and diseases on them from an anatomical and physiological perspective,** and **the resulting complications. Also teaching the student the symptoms and signs of these conditions and the basic frameworks for how to deal with them. Introducing the student to the cases that require intervention and clarifying the nature of this intervention (what they may encounter while working in operations and intensive care), with a focus on emergency cases. In this stage, emergency medicine and war medicine are studied in detail, with the completion of the study of the rest of the body's systems (which began in the third stage). The student is introduced to the most important dangerous and life-threatening cases that the patient may encounter while working in the hospital and how to deal with them.**

Teaching and learning strategies	
The strategy	Lecture style, giving clinical cases, and conducting seminars by students

Course structure

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
Daily exam	A theoretical and practical lecture	Shock shock	Knowledge of trauma, symptoms and complications of trauma	**5**	**1**
Daily exam	A theoretical and practical lecture	Burns	Knowing the types of burns and their treatment	**5**	**2**
Daily exam	A theoretical and practical lecture	Plastic surgery	Knowledge of plastic surgery and its types	**5**	**3**
Daily exam	A theoretical and practical lecture	Accident injuries	Knowledge of dealing with accidents and their injuries	**5**	**4**
Theoretical exam	A theoretical and practical lecture	Head injuries	Knowledge of dealing with different head injuries	**5**	**5**
Daily exam	A theoretical and practical lecture	Spinal injuries	Knowledge of dealing with spinal injuries	**5**	**6**
Daily exam	A theoretical and practical lecture	Diseases of the nose, ear and throat	Diseases and treatment plan	**5**	**7**
Daily exam	A theoretical and practical lecture	Orthopedic surgery, fractures and dislocations	Knowledge of orthopedic surgery	**5**	**8**
Daily exam	A theoretical and practical lecture	Bone and bone marrow infections and tumors	Knowledge of special tumors	**5**	**9**
Daily exam	A theoretical and practical lecture	Amputation	Knowledge of amputation surgery	**5**	**10**
Theoretical exam	A theoretical and	Endocrinology	Thyroid	**5**	**11**

	practical lecture				
Daily exam	A theoretical and practical lecture	Endocrinology	the pituitary gland	**5**	**12**
Daily exam	A theoretical and practical lecture	Endocrinology	Adrenal	**5**	**13**
Daily exam	A theoretical and practical lecture	Jaundice obstruction	Knowing and preparing the obstructive patient	**5**	**14**
Daily exam	A theoretical and practical lecture	Diabetes and its complications	Knowledge of diabetes, complications, and preparation for surgery	**5**	**15**
Daily exam	A theoretical and practical lecture	Preparation of the patient with portal hypertension due to cirrhosis	Knowledge of liver cirrhosis and blood pressure	**5**	**16**
Daily exam	A theoretical and practical lecture	Management of blood diseases	Knowledge of blood diseases	**5**	**17**
Daily exam	A theoretical and practical lecture	Management of respiratory failure	Knowledge of the respiratory system	**5**	**18**
Daily exam	A theoretical and practical lecture	Management of blood coagulation	Knowledge of blood clotting	**5**	**19**
Daily exam	A theoretical and practical lecture	Management of septicemia	Knowledge of blood poisoning	**5**	**20**
My vision exam	A theoretical and practical lecture	Hysterectomy, abortion, caesarean section	Emergency cases	**5**	**21**
Daily exam	A theoretical and practical lecture	Intensive care	Knowledge of dealing with an intensive care patient	**5**	**22**
Daily exam	A theoretical and practical lecture	organ transplantation	Knowledge of organ transplantation operations	**5**	**23**
Daily exam	A theoretical and practical lecture	Modern surgical techniques	Knowledge of the latest technologies	**5**	**24**
Daily exam	A theoretical and practical lecture	Ectopic pregnancy emergency	Knowledge of dealing with pregnancy emergencies	**5**	**25**
Daily exam	A theoretical and practical lecture	Post-operative secretion drainage tube	Knowledge of fluid drainage after surgery	**5**	**26**
Course evaluation					
Theoretical exam. Practical exam. homework Daily exams Reports Participation in lectures Skills and speed of completion					
Learning and teaching resources					

Required textbooks (methodology, if any)	Prescribed and approved book of surgery (Schwartz) ,, Brunner
Main references (sources)	Schwartz, Brunner
Recommended supporting books and references (scientific journals, reports....)	Curriculum book for general surgery, Curriculum book for internal medicine British Journal of General Surgery
Stanford health care website. General Surgery Types ,, emedicine Healt	Electronic references, Internet sites

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	hours	the week
general questions And discuss	My theory + my uncle	Recognition and management of critically ill patient.	Training students on how to deal with critical patients in the intensive care unit	6	1st
General questions and discussion	Theoretical + practical	Recognition and management of critically ill patient	Training students on how to deal with critical patients in the intensive care unit	6	2nd
General questions and discussion	Theoretical + practical	Defibrillator	Explaining the mechanism of the device's operation from a practical perspective by explaining in detail everything that is included in the shock device	6	3rd
General questions, discussion, and Yo-Me exam	Theoretical + practical	Defibrillator	Explaining the mechanism of the device's operation from a practical perspective by explaining in detail everything that is included in the shock device	6	4th
general questions And discuss	Theoretical + practical	Defibrillator	Training students to work on all types The shock devices currently available, see them, and not be satisfied with one device	6	5th
General questions , discussion, and daily exam	Theoretical + practical	Aims and classification of patient monitoring	Training students on how to monitor a patient in the clinical intensive care unit	6	6th
general questions And discuss	Theoretical + practical	Aims and classification of patient monitoring	Training students to connect patient monitoring devices and interpret abnormal conditions and treat them in the intensive care unit	6	7th
General questions , discussion, and daily exam	Theoretical + practical	ECG monitors attached to the patient	Training students on everything included in the ECG device	6	8th
general questions And discuss	Theoretical + practical	ECG monitors attached to the patient	Training students on how to connect the device to the patient	6	9th
general questions And discuss	Theoretical + practical	ECG monitors attached to the patient	Knowing the most important cases of arrhythmia that may occur in intensive care unit patients by observing them practically and treating them	6	10th
General questions , discussion, and a daily exam	Theoretical + practical	Monitors in central monitoring station	Training students on how to work on the central station to monitor patients in the intensive care unit	6	11th
general questions And discuss	Theoretical + practical	Monitors in central monitoring station	Training students on how to work on the central station to monitor patients in the intensive care unit	6	12th
general questions Discussing a group assignment	Theoretical + practical	Blood transfusion	Knowledge of blood transfusion methods	6	13th
General questions , discussion, and daily exam	Theoretical + practical	Blood transfusion	Know the complications of blood transfusion	6	14th
general questions	Theoretical +	Fluids management	Fluid management	6	15th

And discuss	practical				
road Evaluation	road education	the unit/ topic	Required educational outcomes	hours	the week
General questions and discussion + Yo- Me exam	Theoretical + practical	Fluids management	Fluid management	6	16
General questions and discussion	Theoretical + practical	Type of shock	Know the types of shock	6	17
General questions and discussion	Theoretical + practical	shock management	Trauma management	6	18
general questions And discuss	Theoretical + practical	Electrolyte disorder	Electrolyte disturbance	6	19
general questions And discuss		Electrolyte disorder	Electrolyte disturbance	6	20
General questions , discussion, and daily exam	Theoretical + practical	ECG	Irregular heart rate and rhythm	6	21
general questions And discuss	Theoretical + practical	Alarm system & devices	Alarm system in the intensive care unit	6	22
general questions Discussion + daily exam	Theoretical + practical	Alarm system & devices	Alarm system in the intensive care unit	6	23
general questions And discuss	Theoretical + practical	Q2 regulator	Oxygen regulation	6	24
general questions And discuss	Theoretical + practical	Q2 regulator	Oxygen regulation	6	25
general questions And discuss	Theoretical + practical	Recording devices	Recording devices in the intensive care unit	6	26
general questions Mi exam	Theoretical + practical	Recording devices	Recording devices in the intensive care unit	6	27
General questions and discussion	Theoretical + practical	Analgesics and anesthetics drugs in ICU	Know the most important medications contained in the unit Intensive care and training in calculating doses and administering them to the patient	6	28
general questions And discuss	Theoretical + practical	Analgesics and anesthetics drugs in ICU	Knowledge of the most important medications present in the intensive care unit and training in calculating doses and administering them to the patient	6	29
General questions and discussion	Theoretical + practical	Acid base disturbance	Training students to work on a blood gas analysis device and learn and correct acid and base disorders in the body	6	30

Course description form

Course Name
Intensive care
Course Code
Semester/year
Semester
Date this description was prepared
2025-23-2
Available forms of attendance
Number of study hours (total)/number of units (total)
8\6
Name of the course administrator (if more than one name is mentioned)
Name :Asst.lectureAlaa Abdel Majeed .
Course objectives

Objectives of the study subject	Teaching the subject aims to provide students with knowledge about the basics of using intensive care devices and maintaining them in intensive care units . 2 At the end of the year, the student should be able to maintain the devices . -3 Dismantling, re-installing and installing Devices . How to manage and resuscitate critical cases. . Training on electrocardiogram examination . Training to work on a defibrillator . Knowing what trauma is and how to deal with it
Teaching and learning strategies	
The strategy	Continuous daily and weekly surprise exams Use a smart board Use a slide show Participation in workshops

Course structure

Course evaluation
Theoretical exam. Practical exam. homework Daily exams Reports Participation in lectures Skills and speed of completion
Learning and teaching resources

Required textbooks (methodology, if any)	
Main references (sources)	Marinos the ICU BOOK
Recommended supporting books and references (scientific journals, reports....)	ICU protocol
Electronic references, Internet sites	Resources related to modern refocus care techniques from the Internet or other modern books
	Google Scholar, PubMed

Course description form

Course Name
English
Course Code
Semester/year
Semester
Date this description was prepared
2025-23-2
Available forms of attendance
Number of study hours (total)/number of units (total)
2\1
Name of the course administrator (if more than one name is mentioned)
Name :-Asst .lecture.Zharaa Hmaid
Course objectives

Objectives of the study subject	Make the student able to absorb, understand and memorize medical terminology and scientific and linguistic concepts to be conversant in his field of specialization in the English language The student learns some important linguistic rules in the educational, professional and social fields

Teaching and learning strategies

The strategy	Continuous daily and weekly surprise examinations Use a smart board Use a slide show Participation in workshops

Course structure

Evaluation method	**Teaching method**	**Name of the unit/topic**	**Required learning outcomes**	**hours**	**the week**
Daily participation and monthly exams	-Use the screen An explanatory video of some medical terminology	Medical terminology	Some medical terminology	1	1 st
-Compose some sentences in a row -Monthly exams	Screen use Some exercises -	Auxiliary verb, do, be, and have. This is with practice in work	auxiliary verbs	1	2nd
Daily and monthly exam	-Use the screen to solve topic-specific exercises	Present/Past/Present perfect, Questions and negatives, Short answers	Past, present and present perfect tense	1	3rd
Daily and monthly exams	Screen use Methodological references	Modal verbs (1): - have (got) to, can. Be allowed to , obligation an permission, giving opinion,	Standard verbs	1	4 th - 5 th
Class questions and daily and monthly exams	Screen use Methodological references	Phrasal verbs	Phrasal verbs	1	6 th
Raising class questions Daily and monthly exams	Screen use Methodological references	Future form, going to and will, Questions with like, verb pattern	Future tense	1	7 th - 8 th
Daily testing Monthly exams	Use the screen to display slides Methodological references	Present passive, Past Simple and Past Perfect	The active voice and the passive voice	1	9 th - 10 th
Use brainstorming Monthly testing	Screen use Methodological references supported by examples	Present Perfect Simple	Present perfect simple	1	11th
Write some sentences Daily and monthly testing	Use the screen to display PowerPoint Methodological references	Present Perfect Continuous	Present perfect continuous	1	12th

Raising class questions Monthly exams	Use the screen to show the differences Methodological references are supported by external sources	Simple versus Continuous, Questions and answers	The present perfect simple and continuous	1	13th - 14th
Daily and monthly tests	Screen use Methodological references	Modal verbs must, could, might, can't, probability, Character adjectives, Agreeing and disagreeing	Actions should, should for possibility	1	15th -16th
Use brainstorming Raising questions Monthly exam	Use the screen to display the material Methodological references Show an explanatory video	Verbs and nouns that go together	Verbs and nouns together	1	17 th -18 th
Raise questions with examples Monthly exam	Screen use Methodological references	Time expressions, Compound nouns, Expressing Quantity, Indirect questions	Description of time, compound nouns, indirect question	1	19th - 20th - 21th-
Daily oral and monthly exam	Screen use Methodological references Show an explanatory video	Base and strong adjectives, Making suggestions, Time clauses	Source and strong adjectives	1	22th - 23th
Make some sentences Monthly exam	Screen use Methodological references	Present/Past/Present perfect, Questions and negatives, Short answers	Present and past tense and how to formulate questions	1	24th- 25th

Course evaluation
Theoretical exam Practical exam homework Daily exams Reports Participation in lectures Skills and speed of completion
Learning and teaching resources

Required textbooks (methodology, if any)	Headway Plus/Upper Intermediate New Student Book
Main references (sources)	Headway Plus/Upper Intermediate New Key Words Book
Recommended supporting books and references (scientific journals, reports....)	
Electronic references, Internet sites	