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

Anesthesia Techniques Department

2025-2024

Academic Program Description Form

University Name: Al-Furat Al-Awsat Technical University
Faculty/Institute: College of Health and Medical Techniques
Scientific Department: Anesthesia Techniques
Academic or Professional Program Name: Anesthesia Techniques Final Certificate Name: Anesthesia Techniques
Academic System: Course and Yearly
Description Preparation Date: 27/9/2024
File Completion Date: 27/9/2024

Signature:
Head of Department Name:
Dr. Ameer Abood Karim
Date:

Signature: Asist. Prof
Dr.Raad Ajam Saiel
Scientific Associate Name:
Enas
Date:

The file is checked by:
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department:
Date:
Signature:

Approval of the Dean

Pro.Dr. Angham Jasim Mohmmed

Introduction:

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

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

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

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

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Concepts and terminology:

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

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

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

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

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

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

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

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

1. Program Vision

To be a leading academic department in anesthesia techniques, distinguished in education, scientific research, and community service, and contributing effectively to the development of the health care system locally and regionally.

2. Program Mission

The Department of Anesthesia Techniques is dedicated to preparing highly competent and ethically responsible graduates equipped with scientific knowledge, practical skills, and critical thinking abilities in the field of anesthesia and intensive care. The department strives to enhance scientific research, support innovation, and engage in community-oriented activities to achieve sustainable health development.

3. Program Objectives

The department seeks to achieve the following goals:-

1. Prepare qualified anesthesia technologists capable of applying modern scientific knowledge and advanced practical techniques in anesthesia and intensive care.
2. Promote continuous professional development through updating curricula to align with advances in medical and technological sciences.
3. Encourage scientific research and innovation to support community health needs and contribute to sustainable development.
4. Enhance teamwork and ethical practice by fostering collaboration with medical teams and ensuring respect and compassion in patient care.
5. Develop critical decision-making skills for recognizing and managing emergencies and perioperative situations effectively.
6. Strengthen clinical training and recovery care competence to prepare graduates for professional performance in operating and recovery rooms.
7. Establish graduate-level programs to advance the education and expertise of anesthesia technologists, providing opportunities for specialized training and research. This will enable the department to cultivate a new generation of experts capable of addressing complex clinical challenges and contributing to the development of the field at both national and international levels.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

NO

5. Other external influences
Is there a sponsor for the program? **Laboratories - Hospitals - Library – Internet**

6 .Program Structure				
Program Structure	**Number of Courses**	**Credit hours**	**Percentage**	**Reviews***
Institution Requirements	**45**	**180**	**100%**	
College Requirements				
Department Requirements	**45**	**180**	**100%**	
Summer Training	**2**	**Satisfied**	**100%**	
Other				

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

7. Program Description				
Year/Level	**Course Code**	**Course Name**	**Credit Hours**	
			theoretical	**Practical**
The first/first course	**AT111**	**medical physics (1)**	**2**	**4**
The first/first course	**AT112**	**anatomy (1)**	**2**	**4**
The first/first course	**AT113**	**General physiology (1)**	**2**	**4**
The first/first course	**AT114**	**general chemistry)1)**	**2**	**4**
The first/first course	**AT115**	**Biology**	**2**	**4**
The first/first course	**AT116**	**English**	**1**	**2**
The first/first course	**AT117**	**computer principles (1)**	**3**	**-**

The first/first course	AT118	Human rights and democracy	2	-
First/second course	AT121	medical physics (2)	2	4
First/second course	AT122	anatomy (2)	2	4
First/second course	AT123	General physiology (2)	2	4
First/second course	AT124	Biochemistry	2	4
First/second course	AT125	Microbiology	2	4
First/second course	AT126	computer principles (2)	1	2
First/second course	AT127	Arabic	2	-
The second/first course	AT211	Foundations of anesthesia1	2	4
The second/first course	AT212	Basics of anesthesia devices1	2	4
The second/first course	AT213	Applied physiology1	2	4
The second/first course	AT214	Foundations of internal medicine1	1	4
The second/first course	AT215	Fundamentals of surgery1	2	4
The second/first course	AT216	Pharmacokinetics1	2	2
The second/first course	AT217	Medical terms	2	-

The second/first course	AT218	Baath Party crimes	2	-
The second/second course	AT221	Foundations of anesthesia2	2	4
The second/second course	AT222	Basics of anesthesia devices2	2	4
The second/second course	AT223	Applied physiology2	2	4
The second/second course	AT224	Foundations of internal medicine2	1	4
The second/second course	AT225	Fundamentals of surgery2	2	4
The second/second course	AT226	Pharmacokinetics2	2	2
The second/second course	AT227	Statistics	1	2
The second/second course	AT228	Arabic	2	0
Third/first course	AT311	Anesthesia1	3	5
Third/first course	AT312	Intensive care basics1	2	5
Third/first course	AT313	Anesthesia device techniques1	2	5
Third/first course	AT314	Internal Medicine1	2	3
Third first course	AT315	Surgery1	1	3
Third/ first course	AT316	Computer applications1	1	2

Third/ Second course	AT321	Anesthesia2	3	5
Third/ Second course	AT322	Intensive care basics 2	2	5
Third/ Second course	AT323	Anesthesia device techniques2	2	5
Third/ Second course	AT324	Internal Medicine2	2	3
Third/ Second course	AT325	Surgery2	1	3
Third/ Second course	AT326	Computer applications2	1	2
Fourth/annual	AT401	Anesthesia3	2	4
Fourth/annual	AT402	Anesthesia device techniques3	4	2
Fourth/annual	AT403	Intensive care techniques2	2	4
Fourth/annual	AT404	Surgical internal medicine	1	4
Fourth/annual	AT405	Nursing	1	4
Fourth/annual	AT406	English language	1	-

8. Expected learning outcomes of the program

Knowledge	
1 - Graduation of scientific cadres in the specialty 2- Operates and maintains the medical equipment used in the intensive care room and the intensive care room 3 - Enabling students to obtain knowledge, intellectual understanding, and skills to identify anesthesia devices and methods of maintaining them. 4- The student learns the skills required to deal with different cases in anesthesia and intensive care 5 - The student is able to contribute to resuscitation and intervention cases as necessary.	1- The student learned how to prepare the medications and solutions required for anesthesia 2- That the student knows the basics of the required sciences 3- That the student understand the required scientific details
Skills	
1- The student should use the tools correctly	1- The student must bring the necessary materials
2- That the student applies what he has learned in practice	2- That the student performs the appropriate procedures for the situations he faces

1- **Good knowledge of the principles of anesthesiology and related sciences** 2- **Technical ability in his field of work and monitoring the patient's vital signs during anesthesia.**	1- **Good knowledge of medical terminology** 2- **Good knowledge of the English language**
Ethics	
1- Working as a team	**1- Commitment to the ethics of the university institution**
2- That the student recognizes the importance of the academic subjects.	**2- Receiving information and cognitive receptivity**

9. Teaching and Learning Strategies

1-Classroom education through theoretical and practical lectures 2-Learning through hospitals

3-Preparing scientific reports and research

10. Evaluation methods

1. **Daily exams**
2. **Homework.**
3. **Semester and final exams**

.11 Teaching staff						
Faculty members						
Names	Specialization		Requirements/ Private Tasks art) I that found(		*The numbers The Authority teacher*	
	General flour				*angel*	*lecturer*
Dr. Amir Aboud Karim	medical technologies	Biotechnology			/	
Prof. Dr. Ali Hassan Khader	to drug	to drug				/
Asst. Prof. Dr. Ahmed Adnan Abdul Hussein	chemistry	Biochemistry			/	
Asst. Prof. Dr. Ahmed Jassim Mohammed	chemistry	Clinical			/	
Asst. Prof. Dr. Zahraa Hamid Awda	Biology	Microscopic biology				
Dr. Basem Mohammed Jabbar	Anesthesiologist	Anesthesiologist				/
Dr. Ahmed Mekki	Anesthesiologist	Anesthesiologist				/
Dr.Sajjad Muhammad . Maher	Anesthesiologist	Anesthesiologist				/
Dr. Baha Hussein Mahmoud	Anesthesia Board	Anesthesiologist				/
)r. Muntadhar Riad Lafta	Biology	Microscopic biology			/	
Dr. Anmar Hamid Balwa	chemistry	Clinical Chemistry			/	
As.LAhmed Rahi Abdel .	Anesthesiologist	Anesthesiologist			/	
Dr. Abu Talib Hashim Ahmed	law	law			/	
As.LEnaam Mahdi . Dawood	Physiology	Physiology			/	
As.LHadeel Thaer . Ahmed	Biology	Biology			/	

As.LZeina Mohamed . Hatem	chemistry	Vital			/	
ıs.LZahraa Jalil Salman .	chemistry	Clinical			/	
As.LMays Kazim Alawi .	Biology	parasites			/	
Dr. Hussein Attia Saleh	Arab	Arab			/	
As.LRuqayya Saad Naji .	Biology	parasites			/	
Dr. Hassanein Fadel Mohammed	Physiology	Physiology			/	
s.LHaider Abdel Moneim Mohammed	Biology	Techniques			/	
As.LMayada Mardan . Abdel	Biology				/	
As.LElaf Subaih Jawad .	chemistry	Biochemistry				/
Dr. Ghaith Fayez Faleh	doctor	to drug				/
As.LAqil Muslim Adel .	nursing	nursing			/	
uaa Alaa Hassan .Biology	Biology	Biology			/	
s.LSalam Razzaq Miftah .	Biology	Microscopic biology			/	
s.LOsama Qasim Abdul . Zaid	Calculators	Systems and computers			/	
As.LMuzaffar Adnan . Yahya	nursing	nursing			/	
As.LD. Khamail Arif . Mahdi	Biology	Microscopic biology			/	
As.LZahraa Hamza .	chemistry	chemistry			/	
Ruwa Kareem ..As.L Sarhan	Biology	immunity			/	
As.LSamara Karim	Calculators	Calculators			/	
Mr. Asaad Musayyib Musayyib	nursing	nursing			/	
Tamim Yaqoub Ibrahim[	surgery	Anesthesiologist				/
Dr. Hamad Turki Noman	Anesthesiologist	Anesthesiologist				/
Amir Jasb Jabbar	Anesthesiologist	Anesthesiologist				/
Muhammad Qasim Abdul Hassan Jabbar	Anesthesiologist	Anesthesiologist				/

Hussein Dr. Baha Mahmoud	**Anesthesiologist (board)**	**Anesthesiologist**				/
Hello Malik Karim Abdel	**Anesthesiologist**	**Anesthesiologist**				/
Hanan Hamid Shaker	**Anesthesiologist**	**Anesthesiologist**				/

Professional Development
Mentoring new faculty members
Directing new faculty members to the necessity of working on developing the scientific curriculum, methods of delivering scientific lectures, and how to deliver the scientific material to the student.
Professional development of faculty members
Working to find development ideas and working to develop scientific laboratories and the practical aspect, since the students' specialization is a scientific specialization.

12. Acceptance Criterion
1. **Average for secondary studies and central admission according to the regulations of the Ministry of Higher Education and Scientific Research**
2. **Interview the student and determine his personal and physical qualifications.**

13. The most important sources of information about the Program
1- **Textbooks prescribed by the Ministry of Higher Education and Scientific Research**
2- **External scientific sources**
3- **Use of libraries and the Internet**

14. Program Development Plan

The department has many methodological and research plans in order to develop the department and the scientific environment, as the department presidency, the department council, and the scientific committee work to provide all requirements for the development of the department.

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
2024-2025 The first stage The first course	AT111	medical physics (1)	Basic	√	√	√	√	√	√	√	√	√	√	√	
	AT112	anatomy (1)	Basic	√	√	√	√	√	√	√	√	√		√	√
	AT113	General physiology (1)	Basic	√	√	√	√	√	√	√	√		√	√	√
	AT114	general chemistry)1)	Basic	√	√	√	√	√	√	√	√		√	√	√
	AT115	Biology	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT116	English	Optional	√	√	√	√	√				√	√	√	
	AT117	computer principles (1)	Optional	√	√	√	√	√	√	√	√				

	AT118	Human rights and democracy	Optional	√	√	√	√					√	√	√	√
2024-2025 The first stage The second course	AT121	medical physics (2)	Basic	√	√	√	√	√	√	√	√	√	√	√	
	AT122	anatomy (2)	Basic	√	√	√	√	√	√	√	√		√		√
	AT123	General physiology (2)	Basic	√	√	√	√	√	√	√	√	√	√		
	AT124	Biochemistry	Basic	√	√	√	√	√	√	√		√	√		√
	AT125	Microbiology		√	√	√	√	√	√	√	√	√	√	√	
	AT126	computer principles (2)	Optional	√	√	√	√	√	√	√	√		√		√
	AT127	Arabic	Optional	√	√	√	√		√	√	√	√	√	√	√
2024-2025	AT2101	Foundations of anesthesia1	Basic	√	√	√	√	√	√	√	√	√	√	√	√

The second stage The first course	AT212	Basics of anesthesia devices1	Basic	√	√	√	√	√	√	√	√	√	√	√	
	AT213	Applied physiology1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT214	Foundations of internal medicine1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT215	Fundamentals of surgery1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT216	Pharmacokinetics1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT217	Medical terms	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT218	Baath Party crimes	Optional	√	√	√	√	√	√	√	√	√	√	√	√
2024-2025 The second phase The second course	AT2201	Foundations of anesthesia2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT222	Basics of anesthesia devices2	Basic	√	√	√	√	√	√	√	√	√	√	√	√

	AT223	Applied physiology2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT224	Foundations of internal medicine2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT225	Fundamentals of surgery2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT226	Pharmacokinetics2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT227	Statistics	optional	√	√	√	√	√	√	√	√		√		
	MU0532208	Arabic	optional	√	√	√	√	√			√	√	√	√	√
2024-2025 third stage (First course)	AT311	Anesthesia1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT312	Intensive care techniques1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT313	Anesthesia device techniques1	Basic	√	√	√	√	√	√	√	√		√	√	
	AT314	Internal Medicine1	Basic	√	√	√	√	√	√	√	√	√	√	√	√

	AT315	Surgery1	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	MU0533106	computer applications1	Optional	√	√	√	√	√	√	√	√			√	√
2024-2025 third stage (second course)	AT3201	Anesthesia2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT3202	Intensive care technique2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT3203	Anesthesia device techniques2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT3204	Internal Medicine2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT3205	Surgery2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT3206	computer applications2	Optional	√	√	√	√	√	√	√	√			√	√
2024-2025 The fourth stage	AT4001	Anesthesia3	Basic	√	√	√	√	√	√	√	√		√	√	√
	AT4002	Anesthesia device techniques3	Basic	√	√	√	√	√	√	√	√	√	√	√	√

annual	AT4003	Intensive care techniques2	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT4004	Surgical internal medicine	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT4005	Nursing	Basic	√	√	√	√	√	√	√	√	√	√	√	√
	AT4006	english language	my choice	√	√	√	√	√	√	√			√	√	√

ام

• Course name
Biology
• Course code
Atu_chmAT115
• semester/year
2024-3 202 / First
• Date this description was prepared
2024/29/2
• Available attendance forms
My presence
• (Number of study hours (total) / Number of units (total
study units 3 –hours 60
• (Name of the course administrator (if more than one name is mentioned
:Name .A Al M. Enaam Mahdi Dawood :Name

• objectives Course	
Course objectives	At the end of the academic year, the student should be able to : – Identify the cell and its escribe bacteria and parasites, and structure, d Cellular immune mechanism against ...explain pathogens

• Teaching and learning strategies	
Strategy	ures, visual and video demonstrations, ,Theory, practical laboratory work Methods Open .ssion methoddimensional models, and discu-three

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	-2 Theoretical My work -2	Understanding the lecture	Introduction to biology, the cells, prokaryotic and eukaryotic cells, animal and plant cells	Lecture Practical application in the laboratory	Theoretical tests in -person practical tests in laboratories
3-2	-2 Theoretical My work -2	Understanding the lecture	The structure of cells, types, shape and size	Lecture and ractical p application in the laboratory	Theoretical tests in -person practical tests in laboratories
4-5	-2 Theoretical My work -2	Understanding the lecture	Movement in and out of cells: diffusion, osmosis, active transport.	Lecture Practical application in the	Theoretical tests in -person practical

tests in laboratories	laboratory				
Theoretical tests in - person practical tests in laboratories	Lecture Practical application in the laboratory	Cell division: Amitosis, Mitosis and Meiosis	Understanding the lecture	-2 Theoretical My work -2	6
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Nucleic acid: DNA and RNA, DNA Replication	Understanding the lecture	-2 Theoretical My work -2	7-8
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Protein biosynthesis	Understanding the lecture	-2 eticalTheor My work -2	9
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Human body tissues: Epithelial tissues	Understanding the lecture	-2 Theoretical My work -2	10-11
Theoretical tests in -person practical tests in laboratories	Lecture Practical applicatio e in th laboratory	Muscular and Nervous tissues	Understanding the lecture	-2 Theoretical My work -2	12-13
Theoretical tests in -person cal practi tests in laboratories	Lecture Practical application in the laboratory	Connective tissues: Bone and cartilage	Understanding the lecture	-2 Theoretical My work -2	14
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Blood (RBC and WBC) and lymph	Understanding the lecture	-2 Theoretical My work -2	15
				Course Evaluation •	
				the audience Participation Peer evaluation Weekly reports	
				Learning and teaching resources •	

1- Human Biology. 12th ed., Sylvia et al., 2012 2- *Review Of Medical Microbiology And* Immunology. by Warren Levinson. 1- Essential of Cell Biology. 3rd ed., Albert Barry et al.,2010.	(Main references (sources
- Nature -Science - E. book and websites	Recommended supporting books and (...references (scientific journals, reports
Medical website	Electronic references, websites

Course Description Form

Form Course Description

• Course name	
Anatomy	
• Course code	
Atu_chm AT114	
• semester/year	
2024-3 202 / First	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
nitsstudy u 3 –hours 60	
• (Name of the course administrator (if more than one name is mentioned	
:is inclined A Al Thaer Ahmed Hadeel .M.M :Name	
• objectives Course	
Course objectives	oducing the student to the body's organs

. and tissues .each organ Identify the parts that make up tinguish the tissues that make up each organ ntify the specialized functions of organs and tissues	

Teaching and learning strategies •	
ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-eedemonstrations, thr	Strategy

Course structure •

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in person practical - tests in laboratories	ectureL Practical application in the laboratory	Introduction, Anatomical terms.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture and practical application in the laboratory	Body cavities and its organs.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Superficial anatomy of human body.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Human body tissues; types and characteristics.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Skin anatomy and its functions skin color.	Understanding turethe lec	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	General skeletal stricture (Skull, limbs).	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical	Lecture	Vertebral column	Understanding	-2	•

tests in person practical - tests in laboratories	Practical application e in th laboratory	stricture, numbers and its function.	the lecture	Theoretical My -2 work	
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Diaphragm and abdominal wall muscles.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Anatomy of heart, wall, valve and its function	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Structure of blood vessels wall arteries, veins and capillaries.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Lymphatic system – lymph glands	Understanding e lectureth	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	ectureL Practical application in the laboratory	Respiratory system – upper respiratory tract.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Respiratory system-lover respiratory tract.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in rieslaborato	Lecture Practical application in the laboratory	Alveoli-lungs-pleural activity.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Revision	Understanding the lecture	-2 Theoretical My -2 work	•
				Course Evaluation	•
				the audience Participation Peer evaluation sWeekly report	

Learning and teaching resources •	
Clinical anatomy. 11th ed., Richard. snell, 2014.	(Main references (sources
- Nature -Science - E. book and websites	Recommended supporting books and references (...scientific journals, reports)
Medical website	websites ,Electronic references

Course Description Form

• Course name
Medical Physiology 1
• Course code
Atu_chm AT113
• semester/year
2025 - 2024 / First
• Date this description was prepared
2024/29/2
• Available attendance forms
senceMy pre
• (Number of study hours (total) / Number of units (total
study units 3 –hours 60
• (Name of the course administrator (if more than one name is mentioned
:Name .A Al Asst. Dr. Hassanein Fadel Mohammed :Name

• objectives Course	
Course objectives	end of the academic year, the student will be At : to understand the functions of the different cells systems of the body in general and to perform ous techniques for analyzing blood and other body .fluids
• Teaching and learning strategies	
ategyStr	ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-demonstrations, three

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	ation Evalu method
•	-2 Theoretical My -2 work	Understanding the lecture	Definition of physiology; cell physiology; cell membrane components and structure.	Lecture Practical application in the laboratory	Theoretical tests in person practical - tests in rieslaborato
•	-2 Theoretical My -2 work	Understanding the lecture	Movement of fluid, solutes and gases across the cell membrane.	Lecture and practical application in the laboratory	Theoretical tests in person practical - tests in laboratories
•	-2 Theoretical	Understanding the lecture	Muscular tissues: types &	Lecture Practical	Theoretical tests in person

practical - tests in laboratories	application in the laboratory	characteristics.		My -2 work	
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Contraction mechanism, fatigue, muscular pain	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Types of nerve cells, functions of nerve impulse, synapses and reflexes	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application e in th laboratory	Action potential of nerve and muscle fiber.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person actical pr - tests in laboratories	Lecture Practical application in the laboratory	Blood; functions, component, plasma and serum	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Red blood cells, shape, origin, Hb structure and anemia	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	WBCs, platelets; functions, origin, structure	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Blood clotting mechanism	Understanding turethe lec	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Cardiovascular system, heart valve cycle, HR conductive system.	Understanding the lecture	-2 Theoretical My -2 work	•
l Theoretica tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Heart sounds and murmurs, ECG	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person	Lecture Practical	Blood pressure	Understanding the lecture	-2 Theoretical	•

practical - tests in laboratories	application in the laboratory			My -2 work	
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Respiratory system, Pleura, Types of mechanism of respiration.	Understanding the lecture	-2 Theoretical My -2 orkw	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Oxygen Transport and exchange	Understanding rethe lectu	-2 Theoretical My -2 work	•

• Course Evaluation

the audience
Participation
Peer evaluation
Weekly reports

• Learning and teaching resources

Williams. (2012).Textbook of humanendocrinology(12th ed). Philadelphia:Elsevier/Saunders., pp.1371-1435 Gyton AC(1996).Introduction toEndocrinology in Text Book of MedicalPhysiology.(9 th ed),WB Saunders Co.Philadelphia. ,P.925	(ain references (sourcesM
- Nature -Science - E. book and websites	Recommended supporting books and references (...scientific journals, reports)
Medical website	Electronic references, websites

Course Description Form

• Course name	
1 Physics	
• Course code	
Atu_chm AT112	
• semester/year	
2025_2025_ / First	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
credit hours 4 –hours 90	
• (than one name is mentioned Name of the course administrator (if more	
. A - al Fiqar Nazim Karim-M.M. Dhu al :Name	
• objectives Course	
Course objectives	atify the physical phenomena of the five pters covered in the course and relate them he medical phenomena the student observes s practical life, such as blood flow, the durin rt or brain pulse reading device, human .body temperature, and blood pressure
• Teaching and learning strategies	
Strategy	ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-tions, threedemonstra

• Course structure

week	watches	Required learning	Name of the unit or topic	Learning method	Evaluation method

			outcomes		
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Physics of skeleton, pressure	Understanding the lecture	-2 Theoretical -4 Practical	1-2
Theoretical tests in person practical - tests in laboratories	Lecture and practical applicatio e in th laboratory	Energy, work and power of the body	Understanding the lecture	-2 Theoretical -4 Practical	3-5
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Heat and cold in medicine	Understanding the lecture	-2 Theoretical -4 Practical	6-7
Theoretical tests in person practical - tests in laboratories	Lecture cal Practi application in the laboratory	Specific heat, heat capacity, latent heat, thermometer and it's kinds, heat transfer by conduction, convection and radiation. Regulation of heat through the human body.	Understanding the lecture	-2 Theoretical -4 Practical	8-9
al Theoretic tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Boyle's law, diffusion and mixing of gases.	Understanding the lecture	-2 Theoretical -4 Practical	10
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Physics of lung and breathing	Understanding the lecture	-2 Theoretical -4 Practical	11-13
Theoretical tests in person practical - in tests laboratories	Lecture Practical application in the laboratory	Evaporation of liquids, vapor pressure and boiling point, humidity, laminar and trubulant flow in liquid.	Understanding the lecture	-2 Theoretical -4 Practical	14-15
					Course Evaluation •
					the audience Participation Peer evaluation Weekly reports
					Learning and teaching resources •

Medical Physics. 12th ed ., Sylvia et al., 2012. Essential of *Medical Physics* . 3rd ed ., Albert Bary et al., 2010.	(Main references (sources
scientific journals	Recommended supporting books and references (...scientific journals, reports)
Medical website	Electronic references, websites

Course Description Form

• Course name
General Chemistry 1
• Course code
ATU_CHM AT116
• semester/year
2024-3 202 / First
• Date this description was prepared
2024/29/2
• Available attendance forms
My presence
• (Number of study hours (total) / Number of units (total
study units 3 –hours 60
• (than one name is mentioned Name of the course administrator (if more
:Name .A Al Asst. Dr. Ahmed Adnan Abdul Hussein :Name
• objectives Course

Course objectives	eral objective: At the end of the current academic orm various –year, the student will be able to: quantitative analyses of techniques of descriptive a ponents in blood and other body fluids in humans .in health and disease

• Teaching and learning strategies

Strategy	ures, visual and video ,Theory, practical laboratory, hospital Methods models, and open discussion method dimensional-demonstrations, three

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
•	-2 Theoretical My -2 work	Understanding the lecture	Scope of biochemistry in health and disease, cell and cell components.	Lecture Practical application in the laboratory	Theoretical tests in person practical - tests in laboratories
•	-2 Theoretical My -2 work	Understanding the lecture	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.	Lecture and practical application in the laboratory	Theoretical tests in person practical - tests in laboratories
•	-2 Theoretical My -2 work	tanding Unders the lecture	Radio activity and radioactive isotopes.	Lecture Practical application in the laboratory	Theoretical tests in person practical - tests in laboratories
•	-2 Theoretical My -2 work	Understanding the lecture	Solutions and methods of expressing colloidal solution concentrations.	Lecture Practical application in the laboratory	Theoretical tests in person practical - tests in laboratories
•	-2 Theoretical My -2 work	Understanding the lecture	The PH concept, acid-base balance, chemical balance, common ion effect.	Lecture Practical application in the laboratory	Theoretical tests in person practical - tests in laboratories
•	-2 Theoretical My -2 work	Understanding the lecture	Buffer and buffer systems of physiological importance in living systems.	Lecture Practical application in the laboratory	Theoretical tests in person practical - tests in laboratories
•	-2	Understanding	Blood, blood	Lecture	Theoretical

tests in person practical - tests in laboratories	ctical Pra application in the laboratory	components, body fluids, regulation of blood Ph and body fluids.	the lecture	Theoretical My -2 work	
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body fluids.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	ureLect Practical application in the laboratory	Carbohydrate classification reactions, main carbohydrates in the human body.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Metabolism of carbohydrates, blood glucose factors controlling glucose level in blood.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture ctical Pra application in the laboratory	Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curve.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the orylaborat	Lipids, classification, derived lipids, compound, lipids.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Lipid metabolism, lipid abnormalities.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Lipid metabolism, lipid abnormalities.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology.	ding Understan the lecture	-2 Theoretical My -2 work	•
				Course Evaluation	•
				the audience Participation evaluation Peer Weekly reports	

Learning and teaching resources •	
Williams. (2012).Textbook of humanendocrinology(12th ed). Philadelphia:Elsevier/Saunders., pp.1371-1435 Gyton AC(1996).Introduction toEndocrinology in Text Book of MedicalPhysiology.(9 th ed),WB Saunders Co.Philadelphia. ,P.925	(Main references (sources
- Nature -Science - E. book and websites	Recommended supporting books and references (...scientific journals, reports)
Medical website	Electronic references, websites

Description Form Course

- Course name
  English language
- Course code
  AT117
- semester/year
  2024-3 202 / First
- Date this description was prepared
  2024/29/2
- Available attendance forms
  My presence
- (Number of study hours (total) / Number of units (total
  credits 2 – hours 30
- (Name of the course administrator (if more than one name is mentioned
  :Name .A Al Dr. Anmar Hamid Balouh :Name
- objectives Course

Course objectives	
Student acquisition of English language skills: listening, speaking, reading and writing the student's ability to .2 Enhancing .understand medical words in English 3. Proficiency in English and comparison with .Arabicthe mother tongue , Conducting modern research and studies to 4. . keep pace with new language vocabulary	

- ning strategiesTeaching and lear

Strategy	.lectures, visual aids, and open discussion method ,Theory Methods

- Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
•	-2 Theoretical	Understanding the lecture	Getting to know you	Lecture	Theoretical -and actual in person tests
•	-2 Theoretical	Understanding the lecture	The way we live	Lecture	Theoretical -and actual in person tests
•	-2 Theoretical	Understanding the lecture	It all went wrong	Lecture	Theoretical -nd actual ina person tests
•	-2 Theoretical	Understanding the lecture	Let's go shopping	Lecture	Theoretical -and actual in

person tests					
Theoretical -and actual in person tests	Lecture	What do you want ? do to	Understanding the lecture	-2 Theoretical	•
Theoretical -and actual in person tests	Lecture	Tell me what's it like?	Understanding the lecture	-2 eoreticalTh	•
Theoretical -and actual in person tests	Lecture	Famous couples	Understanding the lecture	-2 Theoretical	•
Theoretical -and actual in person tests	Lecture	Do's and don'ts	Understanding the lecture	-2 Theoretical	•
Theoretical -and actual in person tests	Lecture	Going places	Understanding the lecture	-2 Theoretical	•
Theoretical -ual inand act person tests	Lecture	Search to death	Understanding the lecture	-2 Theoretical	•
Theoretical -and actual in person tests	Lecture	Things that change the world	Understanding the lecture	-2 Theoretical	•
Theoretical -and actual in person tests	Lecture	Dreams and reality	Understanding the lecture	-2 Theoretical	•
Theoretical -and actual in person tests	Lecture	Earnings a living	Understanding the lecture	-2 oreticalThe	•
Theoretical -and actual in person tests	Lecture	Love you and leave you	Understanding the lecture	-2 Theoretical	•
Theoretical -and actual in person tests	Lecture	Review	Understanding ethe lectur	-2 Theoretical	•

	Course Evaluation •
	the audience Participation Peer evaluation Weekly reports
	Learning and teaching resources •
New Headway Beginners Headway series	(Main references (sources
Research gate	books and references Recommended supporting (...scientific journals, reports)
Google scholar Google books	Electronic references, websites

Course Description Form

• Course name	
Human rights and democracy	
• Course code	
Atu_chm AT118	
• semester/year	
2024-3 202 / tFirs	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
credits 2 –hours 30	
• (Name of the course administrator (if more than one name is mentioned	
:Occupation .A Al Asst. Prof. Dr. Waseem Abdullah :meNa	
• objectives Course	
Course objectives	Learn about the historical stages through which human rights have passed through and legal .religious legislation Understanding the concept of personal and freedoms according to religious laws, public . constitutions and laws Understanding equality based on gender, Understanding the concepts . belief, and race .of democracy
• Teaching and learning strategies	
Strategy	s, visual and video demonstrations, threelectu ,Theory, practical laboratory work Methods Open .dimensional models, and discussion method
• Course structure	

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical -and actual in son testsper	Lecture	Human rights, their definition, and the importance of human rights in ancient civilizations, especially the civilization of the . Mesopotamian Valley *Human rights in divine laws, with a focus on .human rights in Islam*	Understanding the lecture	-2 Theoretical	1
Theoretical -and actual in person tests	Lecture	Human Rights in Contemporary and Modern History: International Recognition of Human Rights since World War I: The United Nations. Regional Recognition of Human Rights: European Convention *1950* ,son Human Right American Convention ; *1969* ,on Human Rights *; African Charter on Human Rights, 1981 ;* Arab Charter on , *1994.* Human Rights *governmental -Non organizations and human rights International) Committee of the Red Cross, Amnesty International, Human s Watch, national Right human rights .(organizations*	Understanding the lecture	-2 Theoretical	2
Theoretical -and actual in person tests	Lecture	Human rights in ethnic constitutions between theory and reality. The relationship between human rights and : *-1 in* domspublic free *the Universal* Human *Declaration of* in regional -2 Rights charters and national	Understanding the lecture	-2 Theoretical	3

		constitutions			
Theoretical -and actual in person tests	Lecture	Economic, social and cultural human rights, hts andcivil human rig *modern human rights: the realities of development, the right to a clean environment, the right to solidarity, the right to religion*	Understanding the lecture	-2 Theoretical	4
Theoretical -and actual in person tests	Lecture	Guarantees of respect and protection of for human rights at the national level, guarantees in the constitution and laws, guarantees in the principle of the rule of law, guarantees in constitutional oversight, guarantees in freedom of the press and public -opinion, the role of non overnmental g organizations in respecting and protecting human rights. Guarantees of respect for and protection of human rights at the : - international level The role of the United Nations and its specialized agencies in - providing guarantees egional The role of r organizations (the Arab League, the European Union, the African Union, the Organization of American States , the ASEAN Organization.) The role of international, regional, governmental -non organizations and the public opinion in respecting and cting human prote	Understanding the lecture	-2 Theoretical	5

		.rights			
Theoretical -and actual in person tests	Lecture	General Theory of Liberties: Origin of rights and liberties, the project's position on declared rights and liberties, use of the term *The ". bertiespublic li" legal basis for the rule . of law*	Understanding the lecture	-2 Theoretical	6
Theoretical -and actual in person tests	Lecture	Regulation of public freedoms by public *Equality: .* authorities *The historical development of the ity. The concept of equal modern development of - the idea of equality . - Gender equality Equality between individuals according to .their beliefs and race*	Understanding the lecture	-2 Theoretical	7
Theoretical -and actual in person tests	Lecture	Definition -Democracy Concepts of -Types - Democracy	Understanding the lecture	-2 Theoretical	8
Theoretical -and actual in person tests	Lecture	Democracy in the Third World, Democratic Systems in the World	Understanding the lecture	-2 Theoretical	9
Theoretical -and actual in person tests	Lecture	The concept of freedoms, classification of public freedoms, fundamental freedoms, intellectual freedoms, economic and social freedoms	tanding Unders the lecture	-2 Theoretical	10
Theoretical -and actual in person tests	Lecture	security Freedom of and feeling safe, freedom of coming and going, freedom of education, freedom of the press, freedom of assembly	Understanding the lecture	-2 Theoretical	11
Theoretical -and actual in person tests	Lecture	Freedom of association, ght freedom of work, ri to own property	Understanding the lecture	-2 Theoretical	12
Theoretical -and actual in	Lecture	Freedom of trade and industry, freedom of	Understanding the lecture	-2 Theoretical	13

person tests		women			
Theoretical -and actual in person tests	Lecture	tical parties and Poli public freedoms, scientific and technological progress and public freedoms	Understanding the lecture	-2 Theoretical	14
Theoretical -and actual in tests person	Lecture	The future of public freedoms	Understanding the lecture	-2 Theoretical	15

• Course Evaluation
the audience Participation Peer evaluation Weekly reports
• Learning and teaching resources

(Main references (sources	Riyadh Aziz Hadi, Human Rights: Its Development and Content, Atak Company, Cairo, 2013-Al
g books and Recommended supportin (...references (scientific journals, reports	Human Rights Watch

Course Description Form

• Course name
2 Anatomy
• Course code
Atu_chm AT121
• semester/year
2024-3 202 / First
• Date this description was prepared
2024/29/2
• ttendance formsAvailable a
My presence

practical - tests in laboratories	application in the laboratory	power of the body		-4 Practical	
Theoretical tests in person practical - tests in laboratories	Lecture actical Pr application in the laboratory	Heat and cold in medicine	Understanding the lecture	-2 Theoretical -4 Practical	6-7
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Specific heat, heat capacity, latent heat, thermometer and it's kinds, heat transfer by conduction, convection and radiation. Regulation of heat through the human body.	Understanding the lecture	-2 Theoretical -4 Practical	8-9
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Boyle's law, diffusion and mixing of gases.	Understanding the lecture	-2 Theoretical -4 Practical	10
Theoretical tests in person practical - tests in laboratories	Lecture Practical tion applica in the laboratory	Physics of lung and breathing	Understanding the lecture	-2 Theoretical -4 Practical	11-13
Theoretical tests in person practical - tests in laboratories	ctureLe Practical application in the laboratory	Evaporation of liquids, vapor pressure and boiling point, humidity, laminar and trubulant flow in liquid.	Understanding the lecture	-2 Theoretical -4 Practical	14-15

• Course Evaluation

the audience
Participation
Peer evaluation
Weekly reports

• Learning and teaching resources

Medical Physics. 12th ed., Sylvia et al., 2012. Essential of *Medical Physics* . 3rd ed., Albert Bary et al., 2010.	(Main references (sources
scientific journals	Recommended supporting books and references (...scientific journals, reports)
Medical website	Electronic references, websites

Course Description Form

• Course name	
Biochemistry 2	
• Course code	
Atu_chm AT124	
• semester/year	
2024-3 202 / Second	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (total) Number of study hours (total) / Number of units	
study units 3 –hours 60	
• (Name of the course administrator (if more than one name is mentioned	
.A Hussein Al Ahmed Adnan Abdul :Name	
• objectives Course	
Course objectives	eral objective: At the end of the current academic 'orm various –ill be able to: year, the student w niques of descriptive and quantitative analyses of ponents in blood and other body fluids in humans .in health and disease
• Teaching and learning strategies	
Strategy	ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-demonstrations, three

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
•	-2 Theoretical My -2 work	Understanding the lecture	Lab. Instructions, receiving lab. Equipments preparation of cleaning solution	Lecture Practical application in the laboratory	Theoretical tests in person practical - tests in laboratories
•	-2 Theoretical My -2 work	Understanding the lecture	Preparation of solutions, normal solution, molar solution, Part Per Million (PPM). Dilution, % percentage	Lecture and practical application in the laboratory	Theoretical tests in person practical - tests in laboratories

		(W/V, V/V)			
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Oxidation-reduction litration, standardization of permanganate solution against oxalic acid	Understanding the lecture	-2 Theoretical My -2 kwor	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Determination of serum calcium	Understanding the lecture	-2 Theoretical My -2 kwor	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Flame photometry. Determination of sodium and potassium in serum	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Carbohydrates: general reactions for carbohydrates reductions of monosaccharides, Molisch's fehling test, Benedict test, Barfoed's test, Ny-lander's test selivanoff's test, Moor's test Action	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Paper chromatography of carbohydrates	Understanding the lecture	-2 calTheoreti My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Disaccharides. Reactions of reducing disaccharides, Molisch.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Test, fehling test, benedict test, barfood test trummer's test,	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the ylaborator	phenyl hydrazine test	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical -	Lecture Practical application	Reaction of non-reducing disaccharides test for sucrose, acid	Understanding the lecture	-2 Theoretical My -2	•

tests in laboratories	in the aboratoryl	hydrolysis, hydrochloric acid test .		work	
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Polysaccharides, reactions of polysacchorides microscopic appearance of starch grains, solubility in water, iodine test, precipitation by alcohol, precipitation by ammonium, sulphate hydrolysis by acid	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Lipid metabolism, lipid abnormalities.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application n the i laboratory	Lipid metabolism, lipid abnormalities.	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the rylaborato	Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology.	Understanding the lecture	-2 Theoretical My -2 work	•
				Course Evaluation	•
				the audience Participation Peer evaluation Weekly reports	
				Learning and teaching resources	•
Williams. (2012).Textbook of humanendocrinology(12th ed). Philadelphia:Elsevier/Saunders., pp.1371-1435 Gyton AC(1996).Introduction toEndocrinology in Text Book of MedicalPhysiology.(9 th ed),WB Saunders Co.Philadelphia. ,P.925				(Main references (sources	
- Nature -Science - E. book and websites				Recommended supporting books and references (...scientific journals, reports)	

Medical website	Electronic references, websites

Course Description Form

• Course name	
Arabic	
• Course code	
Atu_chm AT125	
• semester/year	
2024-3 202 / Second	
• Date this description was prepared	
2024/29/2	
• vailable attendance formsA	
My presence	
• (Number of study hours (total) / Number of units (total	
credits 2 –hours 30	
• (Name of the course administrator (if more than one name is mentioned	
:Is inclined towards .A Al Hussein Attia :Name	
• objectives Course	
Course objectives	
• Teaching and learning strategies	
Strategy	ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-demonstrations, three

• Course structure

week	watches	Required ng learni outcomes	Name of the unit or topic	Learning method	Evaluation method
•	-2 Theoretical	Understanding the lecture	Introduction to the -linguistic errors closed and long taa and the open taa	Lecture	-Actual in person theoretical tests
•	-2 Theoretical	nderstanding U the lecture	Introduction to the -linguistic errors closed and long taa and the open taa	Lecture	-Actual in person theoretical tests

-Actual in person theoretical tests	Lecture	Rules for writing the extended and solar -shortened alif r lettersand luna	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	Dad and Tha	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	Writing the hamza	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	punctuation marks	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	Noun, verb, and the difference between them	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	Effects	Understanding the lecture	-2 oreticalThe	•
-Actual in person theoretical tests	Lecture	number	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	Common language ationserrors applic	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	-Noon and Tanween Meanings of Prepositions	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	Formal aspects of ative administr discourse	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical tests	Lecture	The language of administrative discourse	Understanding the lecture	-2 Theoretical	•
-Actual in person theoretical	Lecture	Samples of ve administrati correspondence	Understanding the lecture	-2 Theoretical	•

tests					
-Actual in person theoretical tests	Lecture	Samples of administrative correspondence	Understanding the lecture	-2 Theoretical	•

• Course Evaluation

the audience
Participation
Peer evaluation
ekly reportsWe

• Learning and teaching resources

	(Main references (sources
- E. book and websites	Recommended supporting books and references (...scientific journals, reports)
website	Electronic references, websites

Course Description Form

• Course name

Microbiology

• Course code

Atu_chm AT126

• semester/year

2024-3 202 / First

• Date this description was prepared

2024/29/2

• Available attendance forms

My presence

• (Number of study hours (total) / Number of units (total

study units 3 –hours 60

• (f the course administrator (if more than one name is mentionedName o

:Name .A Al Enaam Mahdi Dawood :Name

• objectives Course

At the end of the academic year, the student should Identify the cell and its structure, : – be able to ...cteria and parasites, and explaindescribe ba Cellular immune mechanism against pathogens	Course objectives

• Teaching and learning strategies

tures, visual and video demonstrations, three ,Theory, practical laboratory work Methods Open .oddimensional models, and discussion meth	Strategy

• Course structure

Evaluation	Learning	Name of the unit or	Required	watches	week

method	method	topic	learning outcomes		
ical Theoret tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	The microorganism	Understanding the lecture	-2 Theoretical My work -2	1
Theoretical tests in person ests practical t - in laboratories	Lecture and practical application in the laboratory	Bacteria: classification, structure and functions.	Understanding the lecture	-2 Theoretical My work -2	3-2
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Media and culture	Understanding the lecture	-2 Theoretical My work -2	4-5
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Antibiotics and Antibiotic resistance	Understanding turethe lec	-2 Theoretical My work -2	6
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Fungi: characteristics, reproductive and classification.	Understanding the lecture	-2 Theoretical My work -2	7-8
Theoretical tests in person practical tests - in laboratories	Lecture Practical n applicatio in the laboratory	Virus: structure, classification and reproduction.	Understanding the lecture	-2 Theoretical My work -2	9
eoretical Th tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Parasite: introduction, parasite & host relationship, diagnosis	Understanding the lecture	-2 Theoretical My work -2	10-11
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Classes of parasite (protozoa, helminthes and ectoparasites)	Understanding the lecture	-2 Theoretical My work -2	12-13
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Helminthes: structure and classification.	Understanding the lecture	-2 Theoretical My work -2	14
Theoretical tests in person practical tests -	Lecture Practical application	The immune system, mechanism of immune system (innate and	Understanding the lecture	-2 eticalTheor My work -2	15

in laboratories	in the laboratory	adaptive immunity).			
• Course Evaluation					
audience the Participation Peer evaluation Weekly reports					
• Learning and teaching resources					
(Main references (sources	1- Human Biology. 12th ed., Sylvia et al., 2012 2- *Review Of Medical Microbiology And* Immunology. by Warren Levinson. 1- Essential of Cell Biology. 3rd ed., Albert Barry et al.,2010.				
Recommended supporting books and (...references (scientific journals, reports	- Nature -Science - E. book and websites				
Electronic references, websites	Medical website				

Course Description Form

• Course name	
Computer Principles	
• Course code	
Atu_chm AT128	
• semester/year	
2024-3 202 / Second	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
study units 3 –hours 60	
• (Name of the course administrator (if more than one name is mentioned	
:Name .A Al Osama Qasim Abdul Zaid :Name	
• objectives Course	
Course objectives	academic year, the student will At the end of the ble to understand the functions of the different ce

systems of the body in general and to perform ous techniques for analyzing blood and other body .fluids	

• Teaching and learning strategies

ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-demonstrations, three	Strategy

• Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Operating System	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person cal practi - tests in laboratories	Lecture and practical application in the laboratory	Hardware and software	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Files and folders	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Folders and files managing	Understanding cturethe le	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the ratorylabo	Computer Hardware	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Tab settings	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Page setup	Understanding the lecture	-2 reticalTheo My -2 work	•
Theoretical tests in person practical -	Lecture Practical application	Microsoft Excel	Understanding the lecture	-2 Theoretical My -2	•

tests in laboratories	in the laboratory			work	
Theoretical tests in person ical pract - tests in laboratories	Lecture Practical application in the laboratory	Manipulating the contents	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Simple and complex formula	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Working with charts	nding Understa the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical on applicati in the laboratory	Understanding power point	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Managing slide object	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Internet Introduction	Understanding the lecture	-2 Theoretical My -2 work	•
Theoretical tests in person practical - tests in laboratories	Lecture Practical application in the laboratory	Working with Email	Understanding the lecture	-2 Theoretical My -2 work	•

• Course Evaluation

the audience
Participation
Peer evaluation
Weekly reports

• Learning and teaching resources

Jr., DHLF, 2012. Introduction to Microsoft Office 2010. 2nd ed. sl:World scientific publishing. Mayne, R., 2915. Introduction to Windows. 2nd ed. sl:World scientific publishing	(sources) Main references

Thomas Anderson, MD, 2014. Operating Systems: Principles and Practice. sl:University of Texas	
- E. book and websites	Recommended supporting books and references (...scientific journals, reports)
website	Electronic references, websites

Course Description Form

• Course name	
Equipment Basics 1 Anesthesia	
• Course code	
Atu_chm AT211	
• semester/year	
Second / 2024	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
credit hours 4 –hours 90	
• (more than one name is mentioned Name of the course administrator (if	
: A'mil Al Dr. Muhammad Abdul Zahra Sa'sa'a :Name	
• objectives Course	
Course objectives	the end of the year, the student should be e to: form an overview of the history of .anesthesia and its types .ent before anesthesiaHandling the pati .Knowledge of all types of narcotic substances owing how to use some anesthesia and surgical equipment
• Teaching and learning strategies	
Strategy	ures, visual and video ,Theory, practical laboratory, hospital Methods dimensional models, and open discussion method-tions, threedemonstra

• Course structure

week	watches	Required learning	Name of the unit or topic	Learning method	Evaluation method

			outcomes		
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Operating room design and functioning	Understanding the lecture	- 1 Theoretical -4 Practical	1
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Operating room design and functioning	Understanding the lecture	- 1 Theoretical -4 Practical	2
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Canula and giving set and device for intravenous infusion	Understanding the lecture	- 1 Theoretical -4 Practical	3
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Canula and giving set and device for intravenous infusion	Understanding the lecture	- 1 Theoretical -4 Practical	4
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Physical principles: behavior of molecules of solid and liquid, heat and temperature	Understanding the lecture	- 1 Theoretical -4 Practical	5
Theoretical tests in person practical - n tests i	Theoretical -material practical laboratories	Physical principles: behavior of molecules of solid and liquid, heat and temperature	Understanding the lecture	- 1 Theoretical -4 cticalPra	6

laboratories	inside the anesthesia lab and operating room				
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories he inside t anesthesia lab and operating room	Physical principles: properties of gases, temperature change in anaesthetic machine, and flow of fluid through tubes and orifice	Understanding the lecture	- 1 Theoretical -4 Practical	7
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Physical principles: properties of gases, temperature change in anaesthetic machine, and flow of fluid through tubes and orifice	Understanding the lecture	- 1 Theoretical -4 Practical	8
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Infusion equipment: patient control analgesia, filtration, autotransfusion	Understanding the lecture	- 1 Theoretical -4 Practical	9
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Intra Infusion equipment: patient control analgesia, filtration, autotransfusion	ing Understand the lecture	- 1 Theoretical -4 Practical	10
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	The supply of anaesthetic gases, cylinders, oxygen concentrator	Understanding the lecture	- 1 Theoretical -4 Practical	11

Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	The supply of anaesthetic gases, cylinders, oxygen concentrator	Understanding the lecture	- 1 Theoretical -4 Practical	12
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the a anesthesi lab and operating room	Medical gas services, bulk storage, and supply of gases, piped medical vacuum, electrical supply	Understanding the lecture	- 1 Theoretical -4 Practical	13
Theoretical tests in person practical - tests in laboratories	Theoretical -aterial m practical laboratories inside the anesthesia lab and operating room	Medical gas services, bulk storage, and supply of gases, piped medical vacuum, electrical supply	Understanding the lecture	- 1 Theoretical -4 Practical	14
Theoretical tests in person practical - tests in laboratories	Theoretical -erial mat practical laboratories inside the anesthesia lab and operating room	Distribution of pipework, terminal outlet	Understanding the lecture	- 1 Theoretical -4 Practical	15

• Course Evaluation	
the audience Participation Peer evaluation Weekly reports	
• Learning and teaching resources	
(ed textbooks (methodology if anyRequir	Basic miller of anesthesia Morgan and mikhails Essential anesthesia equipment Baha alshake anesthesia equipment
(Main references (sources	Other book of clinical anesthesiology
Recommended supporting books and references (...scientific journals, reports)	Anesthesia and analgesia journal British Journal of Anesthesia
Electronic references, websites	Pubmed

Google scholar Web of sciences Embase Other	

Course Description Form

• Course name	
of Surgery 1 Basics	
• Course code	
Atu_chm AT212	
• semester/year	
2024 / First	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
credit hours 3 –hours 90	
• (e than one name is mentionedName of the course administrator (if mor	
:is not inclined A The Abdul Sahib Tamim .Name: Dr	
• objectives Course	
rn about the anatomical and surgical foundations and their relationship to the harmacological effects of applied physiology of the human body, understand th sthetic drugs, list the types of anesthetic drugs on the body, and how to deal with .and avoid surgical complications that may occur during anesthesia	Course objectives
• Teaching and learning strategies	
ng video clips in the laboratory to treat a patient Conducting mock scenes and sh ough diagnosis and surgical treatment, evaluating students' performance, monitoring their response and possible malfunctions in the patient and equipment	Strategy

• Course structure

Evaluation method	Learning method	Name of the unit or topic	Required arning le outcomes	watches	week
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Principle of pediatric surgery	Understan ding the lecture	- 1 Theoreti cal My -3 work	1
+Quiz	Theoretical	Warfare injuries	Understan	- 1	2

Attendance	-material practical laboratories inside the anesthesia lab and operating room		ding the lecture	Theoreti cal My -3 work	
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Day – case surgery	Understan ding the lecture	- 1 Theoreti cal My -3 work	3
+Quiz Attendance	Theoretical -material practical laboratories ide the ins anesthesia lab and operating room	Reaction of body to injury	Understan ding the lecture	- 1 Theoreti cal My -3 work	4
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Infection of the pint and bone	Understan ding the lecture	- 1 Theoreti cal My -3 work	5
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Ulcer, Sinuses, Fistula	Understan ding the lecture	- 1 Theoreti cal My -3 work	6
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Type of surgical disease (hereditary, congenital, acquired)	Understan ding the lecture	- 1 Theoreti cal My -3 work	7
+Quiz Attendance	Theoretical - material practical	Sterile precaution & AIDS	Understan ding the lecture	- 1 Theoreti cal	8

	laboratories inside the anesthesia lab and operating room			My -3 work	
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab erating and op room	Calcium metabolism, calcification	Understan ding the lecture	- 1 Theoreti cal My -3 work	9
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Goagulopathy & blood dyscrasia in surgery	Understan ding the lecture	- 1 Theoreti cal My -3 work	10
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Specific infection	Understan ding the lecture	- 1 Theoreti cal My -3 work	11
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Type of surgical bacteria (microbiology)	Understan ding the lecture	- 1 Theoreti cal My -3 work	12
+Quiz Attendance	Theoretical -material al practic laboratories inside the anesthesia lab and operating room	Venous disease – thrombophlebitis & Venus thrombosis	Understan ding the lecture	- 1 Theoreti cal My -3 work	13
+Quiz Attendance	Theoretical -material practical laboratories inside the	Oncology.	Understan ding the lecture	- 1 Theoreti cal My -3 work	14

	anesthesia lab and operating room				
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Abortion, CS, Hysterectomy	Understanding the lecture	- 1 Theoretical My -3 work	15

• Course Evaluation	
weekly reports, peer evaluation, participation, Attendance	
• Learning and teaching resources	
(Required textbooks (methodology if any	Principles of surgery, short notes
(Main references (sources	Baily and love, short practice in surgery 26th ED Swuartz clinical surgery 11th ED
ing books and Recommended support (...references (scientific journals, reports	scientific journals
Electronic references, websites	Electronic reference for information

Course Description Form

• Course name
1 Anesthesia Fundamentals of
• Course code
Atu_chm AT213
• year/semester
Second / 2024
• Date this description was prepared
2024/29/2
• Available attendance forms
My presence
• (Number of study hours (total) / Number of units (total
credit hours 4 –hours 90
• (ionedName of the course administrator (if more than one name is ment
: Amil Name: Dr. Sajjad Muhammad Al

• objectives Course	
Course objectives	the end of the year, the student should be to: form an overview of the history of anesthesia and its types. Handling the patient before anesthesia types of narcotic substances Knowledge of all wing how to use some anesthesia and

surgical equipment					
Teaching and learning strategies •					
ures, visual and video ,Theory, practical laboratory, hospital Methods n discussion methoddimensional models, and ope-demonstrations, three				Strategy	
Course structure •					
Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	History of anesthesia and introduction + scope of anesthesiology.	Understanding the lecture	-2 Theoretical -4 Practical	1
Theoretical tests in person practical - tests in laboratories	ical Theoret -material practical laboratories inside the anesthesia lab and operating room	Choice of anesthetic technique	Understanding the lecture	-2 Theoretical -4 Practical	2
Theoretical tests in person practical - tests in laboratories	Theoretical -rial mate practical laboratories inside the anesthesia lab and operating room	Preanaesthetic visit and assessment	Understanding the lecture	-2 Theoretical -4 Practical	3
Theoretical tests in person practical - tests in laboratories	Theoretical -rial mate practical laboratories inside the anesthesia lab and operating room	Premedication aims and therapeutic management	Understanding the lecture	-2 Theoretical -4 Practical	4
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical ries laborato inside the anesthesia	General pharmacology	Understanding the lecture	-2 Theoretical -4 Practical	5

	lab and operating room				
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the a anesthesi lab and operating room	General pharmacology	Understanding the lecture	-2 Theoretical -4 Practical	6
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Inhalational anaesthetic agents (in details)	Understanding the lecture	-2 Theoretical -4 Practical	7
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Inhalational anaesthetic agents (in details)	Understanding the lecture	-2 Theoretical -4 Practical	8
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Inhalational anaesthetic agents cont..	Understanding the lecture	-2 Theoretical -4 Practical	9
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and ting opera room	Inhalational anaesthetic agents cont..	Understanding the lecture	-2 Theoretical -4 Practical	10
Theoretical tests in person	Theoretical -material	Intravenous anaesthetic	Understanding the lecture	-2 Theoretical	11

practical - tests in laboratories	practical laboratories inside the anesthesia lab and ing operat room	agents (in details)		-4 Practical	
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and ng operati room	Intravenous anaesthetic agents (in details)	Understanding the lecture	-2 Theoretical -4 Practical	12
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Intravenous anaesthetic agents cont.	Understanding the lecture	-2 Theoretical -4 Practical	13
Theoretical tests in person practical - s in test laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room		Understanding the lecture	-2 Theoretical -4 Practical	14
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Muscle relaxants (in details) & reversal	Understanding the lecture	-2 Theoretical -4 Practical	15

• Course Evaluation

the audience
Participation
Peer evaluation
Weekly reports

• Learning and teaching resources

(Required textbooks (methodology if any | Essential Baha alshake equipment anesthesia ?

nesthesia equipment Basic miller of anesthesia Morgan and Mikhails	
Other book of clinical anesthesiology	(Main references (sources
Anesthesia and analgesia journal British Journal of Anesthesia	Recommended supporting books and references (...scientific journals, reports)
Pubmed Google scholar Web of sciences Embase Other	ebsitesElectronic references, w

Course Description Form

• Course name	
1 Pharmaceuticals	
• Course code	
Atu_chm AT214	
• semester/year	
Second / 2024	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
resenceMy p	
• (Number of study hours (total) / Number of units (total	
study units 3 –hours 60	
• (Name of the course administrator (if more than one name is mentioned	
:Name .A Name: Dr. Saad Salim Rahim Al	
• objectives Course	
rmacology and its various divisionsLearn about pha Study of treatment in its various types and forms ntify the therapeutic effect in treating diseases of various body systems .Learn about side effects and treatment interactions	Course objectives
• Teaching and learning strategies	
giving lectures in the form of files and video lectures, as well as ding video clips from the Internet and also applying them in hospitals.	egyStrat

Course structure •					
week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	-2 Theoretical -2 Practical	Understanding the lecture	Principles of Drug Therapy. Pharmacokinetics; Absorption, distribution, metabolism and excretion of the drugs. Pharmacodynamics; Drug-receptors interaction. Efficacy, potency, agonists, antagonists.	theoretical material and laboratory process	Theoretical tests in -person practical tests in laboratories
2	-2 Theoretical -2 Practical	Understanding the lecture	Cholinergic agonists and antagonists	theoretical material and laboratory sproces	Theoretical tests in -person practical tests in laboratories
3	-2 Theoretical -2 Practical	Understanding the lecture	Adrenergic agonists and adrenergic antagonists	theoretical material and laboratory process	Theoretical tests in -person practicals in test laboratories
4	-2 Theoretical -2 Practical	Understanding the lecture	Drugs affecting cardiovascular system: -Antihypertensive drugs. - Heart Failure	theoretical material and laboratory process	Theoretical tests in -person practical tests in rieslaborato
5	-2 Theoretical -2 Practical	Understanding the lecture	Drugs affecting :cardiovascular system .Anti-arrhythmic Antianginal drugs	theoretical material and laboratory process	Theoretical tests in -person practical tests in laboratories
6	-2 ticalTheore -2 Practical	Understanding the lecture	Diuretics	theoretical material and laboratory	Theoretical tests in -person practical tests in

laboratories	process				
Theoretical tests in -person practical tests in laboratories	theoretical material and laboratory process	Antihistamines	Understanding the lecture	-2 Theoretical -2 Practical	7
Theoretical tests in -son per practical tests in laboratories	theoretical material and laboratory process	Drugs for Disorders of the Respiratory System	Understanding the lecture	-2 Theoretical -2 Practical	8
Theoretical tests in -person practical tests in laboratories	theoretical material and laboratory process	Drugs for Disorders of the Respiratory System	Understanding the lecture	-2 Theoretical -2 Practical	9
Theoretical tests in -person practical tests in laboratories	theoretical material and laboratory process	Drugs for anemia	Understanding the lecture	-2 eoreticalTh -2 Practical	10
Theoretical tests in -person practical tests in laboratories	theoretical material and laboratory process	Anticoagulants and Antiplatelet Agents	Understanding the lecture	-2 Theoretical -2 Practical	11
tical Theore tests in -person practical tests in laboratories	theoretical material and laboratory process	Skeletal muscle relaxants.	Understanding the lecture	-2 Theoretical -2 Practical	12
Theoretical tests in -person practical tests in laboratories	theoretical material and laboratory process	Local anesthetics.	Understanding the lecture	-2 Theoretical -2 Practical	13
Theoretical tests in -person practical tests in laboratories	theoretical material and laboratory process	General anaesthetics	Understanding the lecture	-2 lTheoretica -2 Practical	14

Theoretical tests in -person practical tests in laboratories	al theoretic material and laboratory process	General anaesthetics	Understanding the lecture	-2 Theoretical -2 Practical	15

• Course Evaluation
Exams Writing and presenting reports and research Weekly reports, research and presentations

• Learning and teaching resources	
Pharmacology- Lippincotte	(tbooks (methodology if anyRequired tex
Clinical Pharmacology made incredibly easy 3rd ed Bertram G. Katzung MD, PhD San Francisco December, 2011	(Main references (sources
scientific journals	Recommended supporting books and (...reports ,references (scientific journals
websites	Electronic references, websites

Course Description Form

• Course name
1 Internal Medicine
• Course code
Atu_chm AT215

• semester/year	
Second / 2024	
• Date this description was prepared	
2024/29/2	
• e attendance formsAvailabl	
My presence	
• (Number of study hours (total) / Number of units (total	
credit hours 4 –hours 90	
• (Name of the course administrator (if more than one name is mentioned	
: A. Name Al Muhammad .B .Name: Dr	
• objectives Course	
esCourse objec	the end of the academic year, the student should be able to deal with the patient ough a comprehensive examination and attempt to diagnose diseases in detail before .beginning the process of performing general anesthesia
• strategies Teaching and learning	
Strategy	Lectures, laboratories, hospitals, library, internet

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	-2 Theoretical -4 Practical	Understanding the lecture	Diseases due to infection/concepts of major infection manifestations /methods of diagnosis bacteremia/ septicemia / principles of management.	and practical laboratory material	Theoretical tests in -person practical tests in laboratories
2	-2 Theoretical -4 racticalP	Understanding the lecture	Diseases due to infection/concepts of major infection manifestations /methods of diagnosis bacteremia/ septicemia / principles of management.	and practical laboratory material	Theoretical tests in -person practical ts in tes laboratories
3	-2 Theoretical -4 Practical	Understanding the lecture	Diseases of the respiratory system-Introduction.	and practical laboratory material	Theoretical tests in -person practical tests in laboratories
4	-2 Theoretical -4 Practical	rstanding Unde the lecture	Diseases of the respiratory system-Introduction.	and practical laboratory material	Theoretical tests in -person practical tests in laboratories
5	-2 Theoretical -4 Practical	Understanding the lecture	Major manifestations/investigations/resp. function tests.	and practical laboratory material	Theoretical tests in -person practical

tests in laboratories					
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	Diseases of the CVS / introduction/ major manifestation investigations	Understanding the lecture	-2 Theoretical -4 Practical	6
eoretical Th tests in -person practical tests in laboratories	and practical laboratory material	Diseases of the CVS / introduction/ major manifestation investigations	Understanding the lecture	-2 Theoretical -4 Practical	7
Theoretical sts in te -person practical tests in laboratories	and practical laboratory material	Principles of electrocardiography/normal ECG/S. Tachycardia/S. Bradycardia/ S. arrhythmia.	Understanding the lecture	-2 Theoretical -4 Practical	8
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	AIDS	Understanding the lecture	-2 Theoretical -4 Practical	9
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	Diseases of the GIT/Introduction/ major manifestation/ investigations	Understanding lecture the	-2 Theoretical -4 Practical	10
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	Diseases of the GIT/Introduction/ major manifestation/ investigations	Understanding the lecture	-2 Theoretical -4 Practical	11
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	Diseases of the liver/ introduction/ Bilirubin metabolism/major manifestations/ .investigations	Understanding the lecture	-2 Theoretical -4 Practical	12
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	Diseases of the liver/ introduction/ Bilirubin metabolism/major manifestations/ .investigations	Understanding the lecture	-2 Theoretical -4 Practical	13

Theoretical tests in -person practical tests in laboratories	and practical laboratory material	Diseases of the kidney/introduction major manifestations / investigations.	Understanding the lecture	-2 Theoretical -4 Practical	14
Theoretical tests in -person practical tests in laboratories	and practical boratoryla material	Diseases of the kidney/introduction major manifestations / investigations.	Understanding the lecture	-2 Theoretical -4 Practical	15

• Course Evaluation
Exams Writing and presenting reports and research Scientific discussions Attendance and daily activities
• Learning and teaching resources

Davidson's Principles and Practice of Medicin -23 Edition	(s (methodology if anyRequired textbook
Emergency Medicine.	(Main references (sources
scientific journals	Recommended supporting books and references (...scientific journals, reports)
Websites and electronic library	tesElectronic references, websi

Course Description Form

• Course name
Applied Physiology 1
• Course code
Atu_chm AT216
• semester/year
Second / 2024
• Date this description was prepared
2024/29/2
• Available attendance forms
My presence
• (udy hours (total) / Number of units (totalNumber of st
credit hours 4 –hours 90
• (Name of the course administrator (if more than one name is mentioned
:Name .A Al Qasim Muhammad Hashim Muhammad .Name: Dr
• objectives Course

Course objectives	ntifying the - uction to the importance of applied physiologyDefinition and introd lerstanding the effect of anesthesia on the - functions of the body's systems

v to act during emergency situations and how to - functions of the body's systems itions associated with anesthesiadeal with pathological cond	
Teaching and learning strategies •	
Lectures, laboratories, hospitals, library, internet	Strategy

Course structure •

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	electrical components and activity of the heart	Understanding the lecture	-2 Theoretical -4 Practical	1
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	the cardiac action potential in ventricular muscle and pacemaker tissues	Understanding the lecture	-2 Theoretical -4 Practical	2
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	Contractile cardiomyocytes and excitation-contraction coupling	Understanding the lecture	-2 Theoretical -4 Practical	3
Theoretical n tests i -person practical tests in laboratories	and practical laboratory material	ECG and arrhythmia	Understanding the lecture	-2 Theoretical -4 Practical	4
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	cardiac cycle	Understanding the lecture	-2 Theoretical -4 Practical	5
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	Heart sound and waveforms generated during cardiac cycle	Understanding the lecture	-2 Theoretical -4 Practical	6
Theoretical tests in -person practical tests in	and practical laboratory material	the left ventricle pressure-volume loop	Understanding the lecture	-2 Theoretical -4 Practical	7

laboratories					
Theoretical sts in te -person practical tests in laboratories	and practical laboratory material	Cardiac innervation and control of heart rate	Understanding the lecture	-2 Theoretical -4 Practical	8
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	cardiac reflexes	Understanding the lecture	-2 Theoretical -4 Practical	9
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	systemic circulation	standing Under the lecture	-2 Theoretical -4 Practical	10
Theoretical tests in -person practical tests in laboratories	and practical laboratory lmateria	blood pressure regulation	Understanding the lecture	-2 Theoretical -4 Practical	11
Theoretical tests in -person practical ests in t laboratories	and practical laboratory material	physiology of microcirculation(starling law of capillary)	Understanding the lecture	-2 Theoretical -4 Practical	12
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	venous circulation and venous	Understanding the lecture	-2 Theoretical -4 Practical	13
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	coronary circulation	Understanding ecturethe l	-2 Theoretical -4 Practical	14
Theoretical tests in -person practical tests in laboratories	and practical laboratory material	spirometery and lung volumes	Understanding the lecture	-2 Theoretical -4 Practical	15
				Course Evaluation	•

attendance and daily , academic discussions, writing and presenting reports and research, Exams activities	
Learning and teaching resources •	
1-Principles of Physiology for the Anaesthetist 2-Ganong's Review of Medical Physiology 24th edition 3-Arora, DR Textbook of Microbiology for dental students. 3rd ed. 2012.	uired textbooks (methodology if (any
1-Applied Physiology in Respiratory Mechanics 2- Essential of Cell Biology. 3rd ed., Albert Bary et al., 2010.	(Main references (sources
scientific journals	Recommended supporting books and references (scientific journals, (...reports
and electronic library Websites	Electronic references, websites

Course Description Form

eCourse nam •	
Medical terms	
Course code •	
Atu_chm AT217	
semester/year •	
Second / 2024	
Date this description was prepared •	
2024/29/2	
Available attendance forms •	
My presence	
(Number of study hours (total) / Number of units (total •	
credits 2 –hours 30	
(ourse administrator (if more than one name is mentionedName of the c •	
:is not inclined A The Asst. Prof. Dr. Ahmed Adnan Abdul Amir :Name	
objectives Course •	
he end of the academic year, the student should be able to distinguish between .uffixes, prefixes, and word endings of medical termsroots, s	Course objectives
Teaching and learning strategies •	
Lectures, library, internet	Strategy

Course structure •

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
-Actual in person theoretical tests	theoretical material	Introduction–structural analysis-Basic rules of medical word building	Understanding the lecture	-2 reticalTheo	1
-Actual in	theoretical	Major suffixes- suffixes denoting a	Understanding	-2	2

person theoretical tests	material	state or condition	the lecture	Theoretical	
-Actual in person theoretical tests	theoretical material	Major suffixes-suffixes denoting medical actions	Understanding the lecture	-2 Theoretical	3
-Actual in person theoretical tests	theoretical material	Prefixes- prefixes of direction & position	Understanding the lecture	-2 Theoretical	4
-Actual in person theoretical tests	theoretical material	Prefixes- prefixes of size, time & place	Understanding the lecture	-2 Theoretical	5
-Actual in person theoretical tests	theoretical material	Prefixes- prefixes of size, time & place	Understanding the lecture	-2 calTheoreti	6
-Actual in person theoretical tstes	theoretical material	Prefixes-prefixes of negation	Understanding the lecture	-2 Theoretical	7
-Actual in person theoretical tests	theoretical material	Prefixes- prefixes of type	Understanding the lecture	-2 Theoretical	8
-Actual in person theoretical tests	theoretical material	Roots	Understanding the lecture	-2 Theoretical	9
-Actual in person theoretical tests	theoretical material	Roots	Understanding the lecture	-2 Theoretical	10
-Actual in person theoretical tests	theoretical material	Conditions	Understanding the lecture	-2 Theoretical	11
-Actual in person theoretical tests	theoretical material	The body as a whole	Understanding the lecture	-2 Theoretical	12
-Actual in person theoretical tests	theoretical material	Skin & its appendages	Understanding the lecture	-2 Theoretical	13
-Actual in person theoretical	theoretical material	Gastrointestinal Tract	Understanding the lecture	-2 Theoretical	14

tests					
-Actual in person theoretical tests	theoretical material	Respiratory system	Understanding the lecture	-2 Theoretical	15

• Course Evaluation

attendance and daily , academic discussions, writing and presenting reports and research, Exams activities

• Learning and teaching resources

Dzuganova, B. (2002): A brief outline of the development of medical English. Bratisl Ready; 103 (6): 223-227.	uired textbooks (methodology if (any
Histology. A Text and Atlas. 6th ed., Michael H. Ross, et al., 2011. 2. Essential of Cell Biology. 3rd ed., Albert Bary et al., 2010. Andrews, E. (1947): A History of Scientific English. The Story of its Evolution Based on a Study of Biomedical Terminology. Richard R. Smith. New York	(s (sourcesMain reference
scientific journals	Recommended supporting books and references (scientific journals, (...reports
and electronic library Websites	Electronic references, websites

Course Description Form

• Course name

crimes Baath Party

• Course code

Atu_chm AT218

• semester/year

Second / 2024

• Date this description was prepared

2024/29/2

• Available attendance forms

My presence

• (Number of study hours (total) / Number of units (total

credits 2 –hours 30

• (inistrator (if more than one name is mentionedName of the course adm

: Amil Al Waseem .Dr :Name

• objectives Course

Course objectives	.1 e student should show the mass graves and the bombing of places of worship .2 weapons The student should understand the use of internationally prohib .and environmental pollution by the former regime .3 inform the student about the impact of the transitional phase in combating .authoritarian politics .4 student will be able to expand his awareness of the former regime's

.agricultural and animal environment and radioactive pollution destruction of the student should become familiar with culture, media and the militarization .5 .of society For the student to know .6 student should be able to explain the former regime's draining of the .7 nd forced migration, as well as the Baath regime's violations of public rights marsh .and freedoms	

• Teaching and learning strategies

Strategy: Lectures, library, internet

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	earning L method	Evaluation method
1	-2 Theoretical	Understanding the lecture	and freedoms Violations of rights Political systems Description of 2003-1921) Iraq in)	theoretical material	-Actual in person theoretical tests
2	-2 Theoretical	Understanding the lecture	For Baath regime violations Public rights and freedoms First, rights violations intellectual and public freedoms	theoretical material	-Actual in person theoretical tests
3	-2 Theoretical	Understanding the lecture	gviolations affectin , Secondly social rights political and cultural	theoretical material	-Actual in person theoretical tests
4	-2 Theoretical	Understanding the lecture	and cultural rights violations violations of the law freedoms International	theoretical material	-Actual in person theoretical tests
5	-2 Theoretical	Understanding the lecture	The impact of system Baathism in behaviors society And his control over the state and First, arbitrary arrests and prisoners torture executions	theoretical material	-Actual in person l theoretica tests
6	-2 Theoretical	Understanding the lecture	Secondly, confinement The three are in the authorities hands of the Baath regime Thirdly, tyranny in corruption Ethics and the fight against science	theoretical material	-Actual in person theoretical stest
7	-2 Theoretical	Understanding the lecture	The impact of the transitional In the fight against politics phase authoritarianism First, the concept of justice Transitional mechanisms Achieve it	theoretical material	-Actual in person theoretical tests
8	-2 Theoretical	Understanding the lecture	Psychological mechanisms The old regime and social Psychological field used it	theoretical material	-Actual in person theoretical

tests		field Social			
-Actual in person theoretical tests	theoretical material	Religion and State	Understanding the lecture	-2 Theoretical	9
-Actual in person theoretical tests	theoretical material	And Culture and Media ilitarization of the m society	Understanding the lecture	-2 Theoretical	10
-Actual in person theoretical tests	theoretical material	The effect of oppression and On the environment and wars population First, the use of weapons -Inter internationally prohibited ollutionp	Understanding the lecture	-2 Theoretical	11
-Actual in person theoretical tests	theoretical material	burnt Second, land policy	Understanding the lecture	-2 Theoretical	12
-Actual in person theoretical tests	theoretical material	he marshesThird, draining t and forced migration	Understanding the lecture	-2 Theoretical	13
-Actual in person theoretical tests	theoretical material	Bombing of places of mass graves worship	Understanding the lecture	-2 Theoretical	14
-Actual in person theoretical tests	theoretical material		standing Under the lecture	-2 Theoretical	15

• Course Evaluation	
attendance and daily , academic discussions, writing and presenting reports and research, Exams activities	
• Learning and teaching resources	
crimes of the defunct Baath Party - The approved ministerial curriculum	s (methodology if Required textb (any
	(Main references (sources
	Recommended supporting books and references (scientific journals, (...reports
	Electronic references, websites

ription FormCourse Desc

• Course name	
of Surgery 2 Basics	
• Course code	
Atu_chm AT221	
• semester/year	
Second / 2024	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
study units 3 –urs ho 120	
• (Name of the course administrator (if more than one name is mentioned	
: Amil Al Tamim .Name: Dr	
• objectives Course	
Course objectives	rn about the anatomical and surgical foundations and their relationship to the he human body, understand the pharmacological effects of applied physiology sthetic drugs, list the types of anesthetic drugs on the body, and how to deal with .and avoid surgical complications that may occur during anesthesia
• Teaching and learning strategies	
egyStrat	ducting mock scenes and showing video clips in the laboratory to treat a patient ough diagnosis and surgical treatment, evaluating students' performance, monitoring their response and possible malfunctions in the patient and equipment

• ructureCourse st

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
+Quiz Attendance	Theoretical -material practical laboratories inside the esthesia lab an and operating room	Shock (types, pathophysiology)	Understanding the lecture	-2 Theoretical -4 Practical	1
+Quiz nceAttenda	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Emergency surgery, reaction of body to injury	Understanding the lecture	-2 Theoretical -4 Practical	2
+Quiz Attendance	Theoretical -material practical laboratories	Nutritional support in surgery	Understanding the lecture	-2 Theoretical -4	3

	inside the anesthesia lab and operating room			Practical	
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Types of Surgical Diseases Hereditary, Congenital, Acquired	Understanding the lecture	-2 Theoretical -4 Practical	4
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Angiology: Acute & Chronic Ischemia, Venous Disease, Lymphadenopathy, surgical lymphoedema	Understanding the lecture	-2 Theoretical -4 Practical	5
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Angiology: Venous Dis. – Thrombophlebitis & Phlebothrombosis	Understanding the lecture	-2 Theoretical -4 Practical	6
+Quiz Attendance	Theoretical - material practical laboratories inside the anesthesia lab and operating room	Lymphadenopathy, surgical lymphoedema.	Understanding the lecture	-2 Theoretical -4 Practical	7
+Quiz Attendance	Theoretical -material practical laboratories inside the sthesia lab ane and operating room	Cellular Growth - its reactions to Stress & Injury	Understanding the lecture	-2 Theoretical -4 Practical	8
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab	Oncology, Chemotherapy, radiation & biological effects of them	Understanding the lecture	-2 Theoretical -4 Practical	9

	and operating omro				
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Oncology.	Understanding the lecture	-2 Theoretical -4 Practical	10
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Chemotherapy, radiation & biological effects of them	Understanding the lecture	-2 Theoretical -4 Practical	11
+Quiz Attendance	l Theoretica -material practical laboratories inside the anesthesia lab and operating room	Common skin lessons tumors	Understanding the lecture	-2 Theoretical -4 Practical	12
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Pre - operative preparation	Understanding the lecture	-2 Theoretical -4 Practical	13
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Post-operative complications & care	Understanding the lecture	-2 Theoretical -4 Practical	14
+Quiz Attendance	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Sutures & Anastomosis	Understanding the lecture	-2 Theoretical -4 Practical	15

• Course Evaluation	
weekly reports, peer evaluation, participation, Attendance	
• rning and teaching resourcesLea	
Principles of surgery, short notes	Required textbooks (methodology if any
Baily and love, short practice in surgery 26th ED Swuartz clinical surgery 11th ED	(Main references (sources
scientific journals	Recommended supporting books and references (scientific journals, (...reports
Electronic reference for information	Electronic references, websites

Course Description Form

• Course name					
Statistics					
• Course code					
Atu_chm AT222					
• semester/year					
Second / 2024					
• Date this description was prepared					
2024/29/2					
• Available attendance forms					
My presence					
• (Number of study hours (total) / Number of units (total					
study units 3 –hours 120					
• (me is mentionedName of the course administrator (if more than one na					
:Occupation .A Al Ghassan Zaher .Name: Dr					
• objectives Course					
Course objectives	student must be able to understand the basics of statistics, as well as the .ability to analyze data and know the impact ratios of the study in question				
• Teaching and learning strategies					
Strategy	erent explanations of phenomena and experiments to analyze data as well as the use of statistical programs to demonstrate this				
• Course structure					
wee k	watches	Required learning outcomes	icName of the unit or top	Learning method	Evaluation method
1	-2 Theoreti cal -4 Practica l	Understandi ng the lecture	Introduction. Measurementscale of variables. Statisticaltables	Understan ding the lecture	+Quiz Attendance

+Quiz Attendance	Understanding the lecture	Graphical presentation.	Understanding the relectu	-2 Theoretical -4 Practical	2
+Quiz Attendance	Understanding the lecture	Arithmetical presentation.	Understanding the lecture	-2 Theoretical -4 Practical	3
+Quiz Attendance	Understanding the lecture	a-Central tendency measurements. (Mean-Artithmetic mean).	Understanding the lecture	-2 Theoretical -4 Practical	4
+Quiz Attendance	Understanding the lecture	b- Dispersion Measurements. Quartiles. Deciles Percentiler. Mean Deviation. Standard Deviation . Variance.	Understanding the lecture	-2 Theoretical -4 Practical	5
+Quiz Attendance	Understanding the lecture	Range. Root mean square. Interquartile range. Quartile Deviation. Coefficient of veriation. Coefficient of Quartile. Standardized veriable (Standard scores).	Understanding the lecture	-2 Theoretical -4 Practical	6
+Quiz Attendance	Understanding the lecture	c-Coefficient of skewness Coefficient of Momental skewness. Preson's first coefficient of skewness Quartile coefficient of skewness	Understanding the lecture	-2 Theoretical -4 Practical	7
+Quiz Attendance	Understanding the lecture	d- Coefficient of kurtsis. Coefficient of momental kurtosis	Understanding the lecture	-2 Theoretical -4 Practical	8
+Quiz Attendance	Understanding the lecture	Probability. Introduction. Definitions-Definition of Probability. Probability theorems	Understanding the lecture	-2 Theoretical -4 Practical	9

+Quiz Attendance	Understanding the lecture	- Conditional Prob. Mutanlly exclusive. Independence. Ranges theorem	Understanding the lecture	-2 Theoretical -4 Practical	10
+Quiz Attendance	Understanding the lecture	Sampling Distribution.	Understanding the lecture	-2 Theoretical -4 Practical	11
+Quiz Attendance	Understanding the lecture	Estimation. Summary of confidence interval.	Understanding the lecture	-2 Theoretical -4 Practical	12
+Quiz Attendance	Understanding the lecture	Summary of significant tests.	Understanding the lecture	-2 Theoretical -4 Practical	13
+Quiz Attendance	Understanding the lecture	Testing for the value of a specified parameter(s).	Understanding the lecture	-2 Theoretical -4 Practical	14
+Quiz Attendance	Understanding the lecture	Analysis of variance One way classification Two-way classification withone observation per cell. Two – way classification with(r) . observation per cell. Multiple comparisons (A-ANOVA).	Understanding the lecture	-2 Theoretical -4 Practical	15

• Course Evaluation

weekly reports, peer evaluation, participation, Attendance

• Learning and teaching resources

gy if anyRequired textbooks (methodolo	vi, Introduction to Statistics, -Dr. Khasha Mahmoud Al Mosul University Press, 1989 shhadani, Amir Hanna Hormuz, -Dr. Mahmoud Hassan Al -Statistics, Directorate of Dar Al ub for Printing and Publishing, Baghdad Printing 1989

vi, Introduction to Statistics, -Dr. Khasha Mahmoud Al Mosul University Press, 1989	(sources) Main references
scientific journals	Recommended supporting books and references (scientific journals, (...reports
formationElectronic reference for in	Electronic references, websites

Course Description Form

	• Course name
	Anesthesia 2
	• Course code
	Atu_chm AT223
	• semester/year
	Second / 2024
	• Date this description was prepared
	2024/29/2
	• Available attendance forms
	My presence
	• (s (totalNumber of study hours (total) / Number of unit
	study units 4 –hours 130
	• (Name of the course administrator (if more than one name is mentioned
	: Amil Name: Dr. Sajjad Muhammad Al
	• objectives Course
earn about medical devices used in anesthesia r physical Knowledge of gas laws and applications in anesthesia devices owing the laws of pressure and their applications	Course objectives
	• Teaching and learning strategies
ures, visual and video ,Theory, practical laboratory, hospital Methods models, and open discussion method dimensional-demonstrations, three	Strategy

• Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in person practical - tests in laboratories	Theoretical -ial mater practical laboratories inside the anesthesia lab and operating	Drugs used in premedication	Understanding the lecture	-2 Theoretical -4 Practical	1

	room				
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical aboratories l inside the anesthesia lab and operating room	Drugs used in premedication	Understanding the lecture	-2 Theoretical -4 Practical	2
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories the inside anesthesia lab and operating room	Drugs used in premedication	Understanding the lecture	-2 Theoretical -4 Practical	3
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia and lab operating room	Positioning & problems..	Understanding the lecture	-2 Theoretical -4 Practical	4
oretical The tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	Positioning & problems.	Understanding the lecture	-2 Theoretical -4 Practical	5
Theoretical rson tests in pe practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	CPR & respiratory failure	Understanding the lecture	-2 Theoretical -4 Practical	6
Theoretical tests in person practical - sts in te	Theoretical -material practical laboratories	CPR & respiratory failure	Understanding the lecture	-2 Theoretical -4 Practical	7

laboratories	inside the anesthesia lab and operating room				
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	IVF types & uses.	Understanding the lecture	-2 Theoretical -4 Practical	8
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	IVF types & uses.	Understanding the lecture	-2 Theoretical -4 Practical	9
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	IVF types & uses..	nderstanding U the lecture	-2 Theoretical -4 Practical	10
Theoretical tests in person practical - tests in laboratories	Theoretical -material practical laboratories inside the anesthesia lab and operating room	IVF types & uses.	Understanding the lecture	-2 Theoretical -4 Practical	11
Theoretical tests in person practical - tests in laboratories	cal Theoreti -material practical laboratories inside the anesthesia lab and operating room	IVF types & uses.	Understanding the lecture	-2 Theoretical -4 Practical	12

Theoretical tests in person practical - tests in laboratories	Theoretical -ial mater practical laboratories inside the anesthesia lab and operating room	Safety measures in theatre, smoking	Understanding the lecture	-2 Theoretical -4 Practical	13
Theoretical tests in person practical - tests in laboratories	l Theoretica -material practical laboratories inside the anesthesia lab and operating room	Safety measures in theatre, Drugs allergic reaction	Understanding the lecture	-2 Theoretical -4 Practical	14
Theoretical tests in person practical - tests in laboratories	oretical The -material practical laboratories inside the anesthesia lab and operating room	Safety measures in theatre, Drugs allergic reaction	Understanding the lecture	-2 Theoretical -4 Practical	15

• Course Evaluation

the audience
Participation
Peer evaluation
Weekly reports

• rcesLearning and teaching resou

(Required textbooks (methodology if any	? equipment anesthesia Essential Baha alshake nesthesia equipment Basic miller of anesthesia Morgan and Mikhails
(Main references (sources	Other book of clinical anesthesiology
nd references Recommended supporting books a (...scientific journals, reports)	Anesthesia and analgesia journal British Journal of Anesthesia
Electronic references, websites	Pubmed Google scholar Web of sciences Embase Other

Course Description Form

• Course name
Pharmaceuticals 2
• ourse codeC
Atu_chm AT224
• semester/year
Second / 2024
• Date this description was prepared
2024/29/2
• Available attendance forms
My presence
• (Number of study hours (total) / Number of units (total
study units 4 –hours 130
• (rator (if more than one name is mentionedName of the course administ
.A Hussein Al Israa Abdul .Name: Dr
• objectives Course

Learn about pharmacology and its various divisions Study of treatment in its various types and forms ting diseases of various body Identify the therapeutic effect in t systems .Learn about side effects and treatment interactions	Course objectives

• Teaching and learning strategies	
giving lectures in the form of files and video lectures, as well as lying them in sending video clips from the Internet and also .hospitals	Strategy

• Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in -person practical tests in laboratories	theoretical material	Drugs action of nervous system	Understanding the lecture	-2 Theoretical -4 Practical	1
Theoretical tests in -person practical tests in	theoretical material	Skeletal muscle relaxants	Understanding the lecture	-2 Theoretical -4 Practical	2

laboratories					
Theoretical tests in -person practical tests in laboratories	theoretical material	Local anaesthetics	Understanding the lecture	-2 Theoretical -4 alPractic	3
Theoretical tests in -n perso practical tests in laboratories	theoretical material	General anaesthetics	Understanding the lecture	-2 Theoretical -4 Practical	4
Theoretical tests in -person practical tests in laboratories	theoretical material	General anaesthetics	Understanding the lecture	-2 Theoretical -4 Practical	5
Theoretical tests in -person practical tests in laboratories	theoretical material	Hypotonic and sedative drugs	Understanding the lecture	-2 Theoretical -4 Practical	6
Theoretical tests in -person tests practical in laboratories	theoretical material	Hypotonic and sedative drugs	Understanding the lecture	-2 Theoretical -4 Practical	7
Theoretical tests in -person practical tests in laboratories	theoretical material	Antipsychotic and anti anxiety drugs.	Understanding the lecture	-2 Theoretical -4 Practical	8
Theoretical tests in -person practical tests in laboratories	theoretical material	Antiparkinson drugs	Understanding ethe lectur	-2 Theoretical -4 Practical	9
Theoretical tests in -person practical tests in oratorieslab	theoretical material	Antiepileptic drug	Understanding the lecture	-2 Theoretical -4 Practical	10

Theoretical tests in -person practical tests in laboratories	theoretical material	Narcotic, (opioid) analgesic.	Understanding the lecture	-2 Theoretical -4 Practical	11
Theoretical tests in -person practical tests in laboratories	theoretical material	IVF types & uses.	Understanding the lecture	-2 Theoretical -4 Practical	12
Theoretical tests in -person practical tests in laboratories	theoretical material	CNS stimulants	Understanding the lecture	-2 Theoretical -4 Practical	13
Theoretical tests in -person practical tests in laboratories	theoretical material	Drug interaction	Understanding the lecture	-2 calTheoreti -4 Practical	14
ical Theoret tests in -person practical tests in laboratories	theoretical material	Antiseptics disinfectants.	Understanding the lecture	-2 Theoretical -4 Practical	15

• Course Evaluation	
Exams Writing and presenting reports and research Weekly reports, research and presentations	
• Learning and teaching resources	
(Required textbooks (methodology if any	Pharmacology- Lippincotte
(Main references (sources	Clinical Pharmacology made incredibly easy 3rd ed · Bertram G. Katzung MD, PhD San Francisco December, 2011
Recommended supporting books and (...references (scientific journals, reports	scientific journals
ic references, websitesElectron	websites

Course Description Form

• Course name	
Internal Medicine 2	
• Course code	
Atu_chm AT225	
• semester/year	
Second / 2024	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (study hours (total) / Number of units (total Number of	
study units 4 –hours 130	
• (Name of the course administrator (if more than one name is mentioned	
:Name . A - Al Dajili-Ali Al .Name: Dr	
• objectives Course	
student should be able to deal with the patient ,By the end of the academic year ough a comprehensive examination and attempt to diagnose diseases in detail .before beginning the process of performing general anesthesia	Course objectives
• Teaching and learning strategies	
ories, hospitals, library, internetLectures, laborat	Strategy

• Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in -person practical tests	theoretical material	Diseases of the kidney / introduction major manifestations / .investigations	Understanding the lecture	-2 Theoretical -4 Practical	1

in laboratories					
Theoretical tests in -person practical tests in laboratories	theoretical lmateria	Hematology/ introduction /major manifestations/ .investigations	Understanding the lecture	-2 Theoretical -4 Practical	2
Theoretical tests in -person practical tests in aboratoriesl	theoretical material	Hematology/ introduction /major manifestations/ .investigations	Understanding the lecture	-2 Theoretical -4 Practical	3
Theoretical tests in -person practical tests in laboratories	theoretical material	Anemia/ Introduction/ major monifestation classification .investigations	Understanding the lecture	-2 Theoretical -4 Practical	4
Theoretical tests in -person practical tests in laboratories	theoretical material	A nemia/ Introduction/ major monifestation classification.investigation	Understanding the lecture	-2 Theoretical -4 Practical	5
Theoretical tests in -person practical tests in laboratories	theoretical material	Diseases of the endocrine .gland/ introduction	Understanding the lecture	-2 Theoretical -4 Practical	6
Theoretical n tests i -person practical tests in laboratories	theoretical material	Diseases of the endocrine .gland/ introduction	Understanding the lecture	-2 Theoretical -4 Practical	7
Theoretical tests in -person practical tests in boratoriesla	theoretical material	Diseases of connective tissues and Rheumatology/ introduction/major manifestations/	Understanding the lecture	-2 Theoretical -4 Practical	8
Theoretical tests in -person practical tests in laboratories	theoretical material	.investigations	Understanding the lecture	-2 Theoretical -4 Practical	9

Theoretical tests in -person practical tests in laboratories	theoretical material	Diseases of connective tissues and Rheumatology/ introduction/major manifestations/	Understanding the lecture	-2 Theoretical -4 Practical	10
Theoretical tests in -on pers practical tests in laboratories	theoretical material	.investigations	Understanding the lecture	-2 Theoretical -4 Practical	11
Theoretical tests in -person practical tests in laboratories	theoretical material	Major manifestations/ .investigations	Understanding the lecture	-2 Theoretical -4 Practical	12
Theoretical tests in -person practical tests in laboratories	theoretical material	Principles of critical care medicine major manifestations of critical .illness/ shock/ sepsis	nding Understa the lecture	-2 Theoretical -4 Practical	13
Theoretical tests in -person practical tests in laboratories	theoretical material	Principles of critical care medicine major manifestations of critical .illness/ shock/ sepsis	Understanding the lecture	-2 Theoretical -4 Practical	14
Theoretical tests in -person practical tests in laboratories	theoretical material	Specific forms of organ failure(Multiple organ failure/ ARDS/DIC/ARF/ hepatic failure	Understanding the lecture	-2 Theoretical -4 Practical	15

	• Course Evaluation
	Exams Writing and presenting reports and research Scientific discussions ly activitiesAttendance and dai
	• Learning and teaching resources
Davidson's Principles and Practice of Medicin -23 Edition	(Required textbooks (methodology if any
Emergency Medicine.	(Main references (sources
scientific journals	Recommended supporting books and references (...ls, reportsscientific journa)
Websites and electronic library	Electronic references, websites

Course Description Form

• Course name	
2 Applied Physiology	
• Course code	
Atu_chm AT226	
• semester/year	
Second / 2024	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
study units 4 –hours 130	
• (Name of the course administrator (if more than one name is mentioned	
:Name .A Al Qasim Mohammed .Name: Dr	
• jectivesob Course	
Course objectives	atifying the - Definition and introduction to the importance of applied physiology derstanding the effect of anesthesia on the - functions of the body's systems ations and how to How to act during emergency - functions of the body's systems deal with pathological conditions associated with anesthesia
• Teaching and learning strategies	
Strategy	Lectures, laboratories, hospitals, library, internet

• Course structure

week	watches	Required learning outcomes	or topic Name of the unit	Learning method	Evaluation method
1	-2 Theoretical -4 Practical	Understanding the lecture	Autonomic control on CVS	theoretical material	Theoretical tests in -person practical tests in laboratories
2	-2 Theoretical -4 Practical	Understanding e lectureth	Starlings law of the heart	theoretical material	Theoretical tests in -person practical tests in laboratories
3	-2 Theoretical -4 Practical	Understanding the lecture	Starlings law of the heart	theoretical material	Theoretical tests in -person ractical p tests in laboratories
4	-2	Understanding	Pressure change in Lt.	theoretical	Theoretical

tests in -person practical tests in laboratories	material	Ventricle& aorta during the cardiac cycle.	the lecture	Theoretical -4 Practical	
Theoretical tests in -person practical tests in laboratories	theoretical material	Pressure change in Rt. Ventricle& pulmonary artery during the cardiac cycle.	Understanding the lecture	-2 Theoretical -4 Practical	5
Theoretical tests in -person practical tests in laboratories	theoretical material	Starlings law of the capillaries	Understanding the lecture	-2 Theoretical -4 Practical	6
Theoretical tests in - person practical tests in laboratories	theoretical material	Excitation - contraction coupling	Understanding the lecture	-2 Theoretical -4 Practical	7
Theoretical tests in -person practical in tests laboratories	theoretical material	Effect of tachycardia, tachycardia + hypotension, tachycardia + hypotension blood loss on theCVS	Understanding the lecture	-2 Theoretical -4 Practical	8
Theoretical tests in -person practical tests in laboratories	theoretical material	Critical closing pressureThe situation	Understanding the lecture	-2 Theoretical -4 Practical	9
Theoretical tests in -person practical tests in laboratories	theoretical material	Blood distribution in to vital organ	Understanding the lecture	-2 Theoretical -4 Practical	10
Theoretical tests in -person practical tests in laboratories	cal theoreti material	General knowledge- struction, typeof IV fluid- clinical application.	Understanding the lecture	-2 Theoretical -4 Practical	11
Theoretical tests in -person	theoretical material	Hb. Dissociation -	Understanding the lecture	-2 Theoretical -4	12

practical tests in laboratories		Associationcurves		Practical	
Theoretical tests in -person practical tests in laboratories	theoretical material	$O2_{flux}$ +pre-oxygenation in anaesthesia, why increase FIO_2	Understanding the lecture	-2 Theoretical -4 Practical	13
Theoretical tests in -person practical tests in laboratories	theoretical material	Cyanosis, pallor sign.	Understanding rethe lectu	-2 Theoretical -4 Practical	14
Theoretical s in test -person practical tests in laboratories	theoretical material	Meaning of cyanosis, pallor forthe anaesthetist.	Understanding the lecture	-2 Theoretical -4 Practical	15

• Course Evaluation	
attendance and daily , academic discussions, writing and presenting reports and research, Exams activities	
• Learning and teaching resources	
1-Principles of Physiology for the Anaesthetist 2-Ganong's Review of Medical Physiology 24th edition 3-Arora, DR Textbook of Microbiology for dental students. 3rd ed. 2012.	uired textbooks (methodology if (any
1-Applied Physiology in Respiratory Mechanics 2- Essential of Cell Biology. 3rd ed., Albert Bary et al., 2010.	(Main references (sources
scientific journals	Recommended supporting books and references (scientific journals, (...reports
and electronic library Websites	Electronic references, websites

Course Description Form

• Course name
esthesia 2An
• Course code
AT311
• semester/year
2024-3 202 / First
• Date this description was prepared
2024/29/2

• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
hours 240	
• (if more than one name is mentioned) Name of the course administrator	
:Name .A Al Dr. Basem Mohammed :Name	

• objectives Course	
Course objectives	: At the end of the academic year, the student will be able to Useall different anesthesia devices. Maintain and maintain all icesanesthesia dev. Identify all parts of medical devices used in anesthesia and their techniques.

• Teaching and learning strategies	
Strategy	Practical methods, theoretical methods, hospitals, as well as educational videos discussion methods, with tests at the and demonstration methods, as well as open .end of the lecture, and also a method for presenting the bags

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	7	Understanding the lecture	Assessment of patients before anaesthesia	Lecture Practical application in the laboratory	Theoretical tests in person practical tests - in laboratories
2	7	Understanding the lecture	Permedication	Lecture and practical application in the laboratory	l Theoretica tests in person practical tests - in laboratories
3	7	Understanding the lecture	Anaesthesia agents (Intra venous)	Lecture Practical application in the laboratory	Theoretical tests in person practical tests - in laboratories
4	7	Understanding rethe lectu	Anaesthesia agents (Inhalational)	Lecture Practical application in the laboratory	Theoretical tests in person practical tests - in laboratories
5	7	Understanding the lecture	Anaesthesia for obstetric & gynecology	Lecture Practical application in the laboratory	Theoretical tests in person practical tests - in laboratories

Theoretical tests in person practical tests - atoriesin labor	**Lecture Practical application in the laboratory**	Anaesthesia for paediatric surgery & ABGAR score	**Understanding the lecture**	**7**	**6**
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia fro geriatric surgery	**Understanding the lecture**	**7**	**7**
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for obese patients	**Understanding the lecture**	**7**	**8**
Theoretical tests in person practical tests - oratoriesin lab	**Lecture Practical application in the laboratory**	Regional anaesthesia	**Understanding the lecture**	**7**	**9**
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for ENT	**Understanding the lecture**	**7**	**10**
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application n the i laboratory**	Anaesthesia for ENT	**Understanding the lecture**	**7**	**11**
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for ENT	**Understanding the lecture**	**7**	**12**
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for ophthalmic surgery& Endoscopic surgery	**nding Understa the lecture**	**7**	**13**
Theoretical tests in person practical tests - in laboratories	**eLectur Practical application in the laboratory**	Anaesthesia for orthopedic surgery	**Understanding the lecture**	**7**	**14**
Theoretical tests in person cal tests practi - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for orthopedic surgery	**Understanding the lecture**	**7**	**15**

Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for orthopedic surgery	**Understanding the lecture**	7	16
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for urinary surgery	**Understanding the lecture**	7	17
Theoretical person tests in practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for thoracic surgery	**Understanding the lecture**	7	18
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for thoracic surgery	**Understanding the lecture**	7	19
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Anaesthesia for thoracic surgery	**Understanding the lecture**	7	20
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Day surgery	**Understanding the lecture**	7	21
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Day surgery	**Understanding the lecture**	7	22
Theoretical tests in person practical tests - in laboratories	**Lecture Practical ication appl in the laboratory**	Day surgery	**Understanding the lecture**	7	23
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Recovery & complication	**Understanding the lecture**	7	24
Theoretical tests in person practical tests - in laboratories	**Lecture Practical application in the laboratory**	Recovery & complication & infant resuscitation	**Understanding the lecture**	7	25

Theoretical tests in person practical tests - in laboratories	Lecture l Practica application in the laboratory	Induced hypotension	Understanding the lecture	7	26
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	CPR	Understanding the lecture	7	27
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	CPR	ding Understan the lecture	7	28
Theoretical tests in person tests practical - in laboratories	Lecture Practical application in the laboratory	CPR	Understanding the lecture	7	29
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Emergency conditions	Understanding the lecture	7	30

	• Course Evaluation the audience Participation Peer evaluation eportsWeekly r
	• Learning and teaching resources
Other book of clinical anesthesiology	(Main references (sources
Anesthesia and analgesia journal British journal of anesthesia others	Recommended supporting books and (...references (scientific journals, reports
Pubmed Google scholar Web of sciences Embase	Electronic references, websites

Course Description Form

• Course name
Surgery 2
• Course code
AT312
• semester/year
2024-3 202 / First
• Date this description was prepared
2024/29/2
• forms Available attendance
My presence
• (Number of study hours (total) / Number of units (total
hours 240
• (Name of the course administrator (if more than one name is mentioned
: Amil Al Dr. Sajjad :Name

• objectives Course	
Course objectives	r, the student should be able to At the end of the academic yea identify the most important concepts of the art and science of surgery, understand surgical problems, and how to deal with .them

• Teaching and learning strategies	
Strategy	as well as educational videos ,Practical methods, theoretical methods, hospitals and demonstration methods, as well as open discussion methods, with tests at the .end of the lecture, and also a method for presenting the bags

• Course structure

week	watches	Required learning outcomes	Name of the unit or picto	Learning method	Evaluation method
1	theoretical 1 practical 3	Understanding the lecture	Digestive Tract (GIT) General Review & Surgical Approaches	Lecture Practical application in the laboratory	Theoretical tests in person practical tests - toriesin labora
2	theoretical 1 practical 3	Understanding the lecture	Salivary glands	Lecture and practical application in the laboratory	Theoretical tests in person practical tests - in laboratories
3	theoretical 1 practical 3	Understanding the lecture	Tongue & oral cavity	Lecture Practical application in the laboratory	Theoretical tests in person practical tests - in laboratories
4	theoretical 1 practical 3	Understanding the lecture	Oesophagus	Lecture Practical application	Theoretical in person tests practical tests -

in laboratories	in the laboratory				
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Stomach & duodenum	Understanding the lecture	theoretical 1 practical 3	5
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Liver	Understanding the lecture	theoretical 1 lpractica 3	6
Theoretical tests in person practical tests - in laboratories	Lecture Practical n applicatio in the laboratory	Gall bladder & bile ducts	Understanding the lecture	theoretical 1 practical 3	7
Theoretical tests in person practical tests - oratoriesin lab	Lecture Practical application in the laboratory	Spleen & pancreas	Understanding the lecture	theoretical 1 practical 3	8
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Small & large intestine	Understanding the lecture	theoretical 1 practical 3	9
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Intestinal obstruction & fistula	Understanding the lecture	theoretical 1 practical 3	10
Theoretical tests in person practical tests - in laboratories	Lecture Practical ication appl in the laboratory	Vermiform appendix, peritoneum	Understanding the lecture	theoretical 1 practical 3	11
Theoretical tests in person practical tests - laboratories in	Lecture Practical application in the laboratory	Rectum & anus	Understanding the lecture	theoretical 1 practical 3	12
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Abdominal wall & Hernia	Understanding the lecture	theoretical 1 practical 3	13
Theoretical tests in person practical tests -	Lecture Practical application	Breast	Understanding turethe lec	theoretical 1 practical 3	14

in laboratories	in the laboratory				
Theoretical tests in person practical tests - in laboratories	eLectur Practical application in the laboratory	Urinary tract: surgical anatomy, congenital anomalies, investigations	Understanding the lecture	theoretical 1 practical 3	15
Theoretical rson tests in pe practical tests - in laboratories	Lecture Practical application in the laboratory	Trauma to the: Kidneys,	Understanding the lecture	theoretical 1 practical 3	16
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Hydronephrosis, urinary stones	Understanding the lecture	theoretical 1 practical 3	17
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Urinary Tract Infections (UTI)	Understanding the lecture	theoretical 1 practical 3	18
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Urination Disorders	Understanding the lecture	theoretical 1 practical 3	19
Theoretical on tests in pers practical tests - in laboratories	Lecture Practical application in the laboratory	Urinary tumors.	Understanding the lecture	theoretical 1 practical 3	20
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Urogenital Tract in Males: Prostate, Testis, Penis	Understanding the lecture	theoretical 1 practical 3	21
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Thorax surgery: Respiratory Pathophysiology & General review	Understanding the lecture	theoretical 1 practical 3	22
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Trauma to thorax: Rib	Understanding the lecture	theoretical 1 practical 3	23
Theoretical tests in person practical tests -	Lecture ical Pract application	Pneumothorax,	Understanding the lecture	theoretical 1 practical 3	24

in laboratories	in the laboratory	Haemothorax			
Theoretical tests in person cal tests practi - in laboratories	Lecture Practical application in the laboratory	Pleural Effusion,	Understanding the lecture	theoretical 1 practical 3	25
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Chest tube: Applications & Management	Understanding the lecture	theoretical 1 practical 3	26
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Long tumours, Mediastina masses	Understanding the lecture	theoretical 1 icalpract 3	27
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Types of Thoracic operations	Understanding the lecture	theoretical 1 practical 3	28
Theoretical tests in person practical tests - in laboratories	Lecture Practical application he in t laboratory	Congenital heart diseases, Acquired heart diseases	Understanding the lecture	theoretical 1 practical 3	29
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Cardiopulmonary resuscitation	Understanding the lecture	theoretical 1 practical 3	30

	Course Evaluation •
	the audience Participation Peer evaluation Weekly reports
	Learning and teaching resources •
Snell clinical anatomy 9 edition	(Main references (sources
	Recommended supporting books and (...reports ,references (scientific journals
	Electronic references, websites

Course Description Form

Course name •
Internal Medicine 2
Course code •
AT313
semester/year •
2024-3 202 / First
Date this description was prepared •
2024/29/2
Available attendance forms •
My presence
(mber of study hours (total) / Number of units (totalNu •
hours 150
(Name of the course administrator (if more than one name is mentioned •
: A'mil Al ' Dr. Muhammad Sa'asa :Name
objectives Course •

Course objectives	ent should be able to At the end of the academic year, the stud deal with the patient through a comprehensive examination and attempt to diagnose diseases in detail before starting the .process of performing general anesthesia

Teaching and learning strategies •

Strategy	cal methods, hospitals, as well as educational videos Practical methods, theoreti and demonstration methods, as well as open discussion methods, with tests at the .end of the lecture, and also a method for presenting the bags

Course structure •

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests – in person practical tests in laboratories	Lecture Practical application in the laboratory	Jaundice: classification, causes, clinical features, diagnosis	Understanding the lecture	Theoretical2 Practical3	1
Theoretical tests -in person practical tests in boratoriesla	Lecture and practical application in the laboratory	Jaundice: classification, causes, clinical features, diagnosis	Understanding the lecture	Theoretical2 Practical3	2
Theoretical tests -in person practical tests in	Lecture Practical application in	Peptic ulcer disease: Duodenal ulcer	Understanding the lecture	Theoretical2 Practical3	3

laboratories	the laboratory				
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Peptic ulcer disease: Gastric ulcer	Understanding the lecture	Theoretical2 Practical3	4
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Renal failure: acute renal failure, chronic renal failure: clinical features, investigations and treatmen	Understanding the lecture	Theoretical2 Practical3	5
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Renal failure: acute renal failure, chronic renal failure: clinical features, investigations and treatment	Understanding the lecture	Theoretical2 Practical3	6
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Ischemic heart diseases: clinical features, diagnosis, treatment	Understanding the lecture	Theoretical2 Practical3	7
Theoretical tests –in person practical tests in laboratories	ureLect Practical application in the laboratory	Arrhythmias: cardiac arrest.	Understanding the lecture	Theoretical2 Practical3	8
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Arrhythmias: cardiac :arrest	Understanding the lecture	Theoretical2 Practical3	9
ical tests Theoret –in person practical tests in laboratories	Lecture Practical application in the laboratory	Heart failure: definition, classification, causes, precipitating factors, investigations, treatment.	Understanding the lecture	Theoretical2 Practical3	10
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in rythe laborato	Heart failure: definition, classification, causes, precipitating factors, investigation, treatment.	Understanding the lecture	Theoretical2 Practical3	11
Theoretical tests –in person practical tests in laboratories	Lecture Practical ion in applicat the laboratory	Hypertension, definition, types: primary and secondary hypertension. Complications, investigation, treatment	Understanding the lecture	Theoretical2 Practical3	12
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Hypertension, definition, types: primary and secondary hypertension. Complications, investigation, treatment	Understanding the lecture	Theoretical2 Practical3	13
Theoretical tests –in person practical tests in	Lecture Practical application in	Infections of the respiratory tract, upper respiratory tract infections. Lower respiratory tract infections: pneumonia	Understanding the lecture	Theoretical2 Practical3	14

laboratories	the laboratory				
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Infections of the respiratory tract, upper respiratory tract infections. Lower respiratory tract infections: pneumonia	Understanding the lecture	Theoretical2 Practical3	15
Theoretical tests –in person practical tests in laboratories	Lecture Practical ation in applic the laboratory	Pulmonary: TB	Understanding the lecture	Theoretical2 Practical3	16
Theoretical tests –in person practical tests in boratoriesla	Lecture Practical application in the laboratory	Pulmonary: TB	Understanding the lecture	Theoretical2 Practical3	17
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Chronic obstructive pulmonary disease: chronic bronchitis, emphysema, asthma	Understanding the lecture	Theoretical2 Practical3	18
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Chronic obstructive pulmonary disease: chronic bronchitis, emphysema, asthma.	Understanding the lecture	Theoretical2 Practical3	19
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Tumors of the lung.	Understanding the lecture	ticalTheore2 Practical3	20
Theoretical tests –in person practical tests in laboratories	ureLect Practical application in the laboratory	Tumors of the lung.	Understanding the lecture	Theoretical2 Practical3	21
Theoretical tests –erson in p practical tests in laboratories	Lecture Practical application in the laboratory	Vascular lung disease.	Understanding the lecture	Theoretical2 Practical3	22
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Vascular lung disease.	Understanding the lecture	Theoretical2 Practical3	23
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Respiratory failure: definitions, types and management	Understanding the lecture	Theoretical2 calPracti3	24
Theoretical tests –in person practical tests in	Lecture Practical application in	Respiratory failure: definitions, types andmanagement.	Understanding the lecture	Theoretical2 Practical3	25

laboratories	the laboratory				
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Diseases of the pleura: pleural effusion: types, causes, investigation, treatment	Understanding the lecture	Theoretical2 Practical3	26
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Diabetes mellitus: definition/clinical features/complications/treatment	Understanding the lecture	Theoretical2 Practical3	27
Theoretical tests –in person practical tests in laboratories	Lecture Practical application in the laboratory	Diabetes mellitus: definition/clinical features/complications/treatment	Understanding the lecture	Theoretical2 Practical3	28
Theoretical tests –in person practical tests in laboratories	eLectur Practical application in the laboratory	Cushing syndrome: diagnosis, clinical features, investigations and treatment	Understanding the lecture	Theoretical2 Practical3	29
cal tests Theoreti –in person practical tests in laboratories	Lecture Practical application in the laboratory	Disturbances of water and electrolytes.	Understanding the lecture	Theoretical2 Practical3	30

	• Course Evaluation
	the audience Participation Peer evaluation Weekly reports
	• Learning and teaching resources
1. Davidson's Principles and Practice of Medicine-23 Edition. 2. Emergency medicine.	(Main references (sources
	Recommended supporting books and references (scientific journals, reports)
Electronic Library	Electronic references, websites

Course Description Form

• Course name
computer applications
• Course code
AT314
• semester\year
2024-3 202 / First
• Date this description was prepared
2024/29/2
• Available attendance forms
My presence
• Number of study hours (total) / Number of units (total
hours 90
• Name of the course administrator (if more than one name is mentioned
Ymail .A Al Dhurgham .Dr :Name

• objectives Course	
Course objectives	Knowing the components of the calculator, how to enter data, distinguish its types, save and retrieve it, benefit from statistical and educational programs, charts, implement al with commands on the computerapplications and de
• Teaching and learning strategies	
Strategy	Practical and theoretical methods, as well as educational videos and demonstration methods, as well as open discussion methods, with tests at the end .of the lecture

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	Theoretical2 Practical1	Understanding the lecture	Introduction to SPSS	Lecture Practical application in the laboratory	Short exam, up exam-pop and daily activity
2	Theoretical2 Practical1	Understanding the lecture	Variable view and Data view	Lecture and practical application in the laboratory	Short exam, up exam, -pop and daily activity
3	Theoretical2 Practical1	Understanding the lecture	Transformation and analysis	Lecture Practical application in the laboratory	Short exam, up exam, -pop and daily activity
4	Theoretical2 Practical1	Understanding the lecture	descriptive statistic Frequencies	Lecture Practical application in	Short exam, up exam, -pop and daily activity

	the laboratory				
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Mean and median	Understanding the lecture	Theoretical2 Practical1	5
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	summary	Understanding lecture the	Theoretical2 Practical1	6
am. Short ex up exam, -pop and daily activity	Lecture Practical application in the laboratory	compare means correlated regression	Understanding the lecture	Theoretical2 Practical1	7
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Variance and standard deviation	Understanding the lecture	Theoretical2 Practical1	8
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Non-parametric test	ng Understandi the lecture	Theoretical2 Practical1	9
Short exam, up exam, -pop and daily activity	Lecture Practical plication in ap the laboratory	Summarize (cross tabs) Custom tables (basic table)	Understanding the lecture	Theoretical2 Practical1	10
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related).	Understanding the lecture	Theoretical2 Practical1	11
Short exam, up exam, -opp and daily activity	Lecture Practical application in the laboratory	Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several	Understanding the lecture	Theoretical2 Practical1	12

		sample related).			
Short exam, up exam, –pop and daily activity	Lecture Practical application in the laboratory	Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related).	Understanding the lecture	Theoretical2 Practical1	13
Short exam, up exam, –pop and daily activity	Lecture Practical application in the laboratory	Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related).	Understanding the lecture	Theoretical2 Practical1	14
Short exam, up exam, –pop and daily activity	Lecture Practical application in the laboratory	Summarize (cross tabs), custom tables (Basic tables), Anova Models (one - way), non parametic methods (one sample, two sample, independent, two samples related, several samples independent, several sample related).	Understanding the lecture	oreticalThe2 Practical1	15
Short exam, ,up exam–pop and daily activity	Lecture Practical application in the laboratory	Encyclopedia of Human Body	Understanding the lecture	Theoretical2 Practical1	16
Short exam, up exam, –pop	Lecture Practical	Encyclopedia of Human	Understanding the lecture	Theoretical2 Practical1	17

and daily activity	application in the laboratory	Body			
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Encyclopedia of Human Body	Understanding the lecture	Theoretical2 Practical1	18
m, Short exa up exam, -pop and daily activity	Lecture Practical application in the laboratory	Encyclopedia of Human Body	Understanding the lecture	Theoretical2 Practical1	19
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Show	Understanding the lecture	Theoretical2 Practical1	20
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	21
Short exam, up exam, -pop and daily activity	Lecture Practical tion in applica the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	22
Short exam, up exam, -pop ivityand daily act	Lecture Practical application in the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	23
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	24
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	25
Short exam, up exam, -pop and daily activity	Lecture cal Practi application in the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	26
Short exam, up exam, -pop d daily activityan	Lecture Practical application in the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	27
Short exam, up exam, -pop	Lecture Practical	Body works Health &	Understanding the lecture	Theoretical2 Practical1	28

and daily activity	application in the laboratory	Fitness 's Living Lessons			
Short exam, up exam, -pop and daily activity	Lecture Practical application in the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	29
Short exam, up exam, -pop and daily activity	ctureLe Practical application in the laboratory	Body works Health & Fitness 's Living Lessons	Understanding the lecture	Theoretical2 Practical1	30

Course Evaluation •	
the audience Participation Peer evaluation Weekly reports	
Learning and teaching resources •	
Norusis, M. (2008). SPSS 16.0 advanced statistical procedures companion . Prentice Hall Press . Morgan, GA, Barrett, KC, Leech, NL, & Gloeckner, G. W. (2019). IBM SPSS for introductory statistics: Use and interpretation. Routledge	(Main references (sources
scientific journals	Recommended supporting books and references (...ntific journals, reportsscie)
Electronic Library	Electronic references, websites

Course Description Form

• Course name	
Anesthesia Device Techniques 2	
• Course code	
AT315	
• semester/year	
2024–3 202 / First	
• was prepared Date this description	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
hours 210	
• (Name of the course administrator (if more than one name is mentioned	
A'mil Al ' Dr. Muhammad Sa'asa .Name	
• jectivesob Course	
Course objectives	General objective: To identify all medical devices used in .anesthesia :The student will be able to : objectives devices Use of all different anesthesia equipment Maintenance and upkeep of all anesthesia used in anesthesia devices dicalMe parts Get to know all .and their techniques
• Teaching and learning strategies	
Strategy	Practical and theoretical methods, as well as educational videos and demonstration methods, as well as open discussion methods, with tests at the end .lecture of the

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	7	Understanding the lecture	Breathing system and their component, definition, classification, working principle	Theoretical -material laboratories for practical material inside the anesthesia laboratory and	Theoretical tests -in person practical tests in laboratories

	operating room				
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Breathing system and their component, definition, classification, working principle	Understanding the lecture	7	2
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Modification of breathing system, procedure for checking breathing system	Understanding the lecture	7	3
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Modification of breathing system, procedure for checking breathing system	Understanding the lecture	7	4
Theoretical tests –in person practical tests in ieslaborator	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Airway management device: artificial airway, face mask, laryngeal mask	ng Understandi the lecture	7	5
Theoretical tests –in person l tests in practica laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and	Airway management device: artificial airway, face mask, laryngeal mask	Understanding the lecture	7	6

	operating room				
Theoretical tests –rson in pe practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Endotracheal tubes, definition and types, ETT for special purpose	Understanding the lecture	7	7
cal tests Theoreti –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Endotracheal tubes, definition and types, ETT for special purpose	Understanding the lecture	7	8
cal tests Theoreti –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Laryngoscope, aids to intubation, emergency airway	Understanding the lecture	7	9
ical tests Theoret –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Laryngoscope, aids to intubation, emergency airway	Understanding the lecture	7	10
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and	Manual resuscitator, components and other use for manual resuscitator	Understanding the lecture	7	11

	erating op room				
Theoretical tests -in person practical tests in laboratories	Theoretical -material laboratories for practical material inside ia the anesthes laboratory and operating room	Manual resuscitator, components and other use for manual resuscitator	Understanding the lecture	7	12
Theoretical tests -in person practical tests in laboratories	Theoretical -material laboratories for practical side material in the anesthesia laboratory and operating room	Anesthesia ventilator, principle of working and type of ventilator	Understanding the lecture	7	13
Theoretical tests -in person practical tests in laboratories	Theoretical -material laboratories for ical pract material inside the anesthesia laboratory and operating room	Anesthesia ventilator, principle of working and type of ventilator	Understanding the lecture	7	14
Theoretical tests -in person practical tests in laboratories	Theoretical -material laboratories for ractical p material inside the anesthesia laboratory and operating room	Advanced types in ventilator: principles and examples	Understanding the lecture	7	15
Theoretical tests -in person practical tests in laboratories	Theoretical -material or laboratories f practical material inside the anesthesia laboratory and	Advanced types in ventilator: principles and examples	Understanding the lecture	7	16

	operating room				
Theoretical tests –in person practical tests in laboratories	Theoretical - material laboratories for practical material inside the anesthesia laboratory and operating room	Humidifier and nebulizer: definition, importance of humidification	Understanding the lecture	7	17
Theoretical tests –in person practical tests in laboratories	oretical The –material laboratories for practical material inside the anesthesia laboratory and operating room	Humidifier and nebulizer: definition, importance of humidification	Understanding the lecture	7	18
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Classification and examples of humidifier and nebulizer	Understanding the lecture	7	19
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Classification and examples of humidifier and nebulizer	Understanding the lecture	7	20
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and	Equipment for pediatric anesthesia, special equipment, ventilator, suction equipments	Understanding the lecture	7	21

	operating room				
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Equipment for pediatric anesthesia, special equipment, ventilator, suction equipments	Understanding the lecture	7	22
Theoretical tests –in person ts in practical tes laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Equipment for local analgesia: spinal, epidural, and major nerve block	Understanding the lecture	7	23
Theoretical tests –erson in p practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Equipment for local analgesia: spinal, epidural, and major nerve block	Understanding the lecture	7	24
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside ia the anesthes laboratory and operating room	Physiological monitoring: principles and non-invasive monitoring, classification of monitoring equipment	Understanding the lecture	7	25
Theoretical tests –in person practical tests in laboratories	Theoretical – material laboratories for practical material inside the anesthesia laboratory and	Physiological monitoring: principles and non-invasive monitoring, classification of monitoring equipment	Understanding the lecture	7	26

	operating room				
Theoretical tests –in person practical tests in laboratories	heoretical T –material laboratories for practical material inside the anesthesia laboratory and operating room	Monitoring of blood pressure, invasive and non-invasive, pulse oximeter	Understanding the lecture	7	27
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Monitoring of blood pressure, invasive and non-invasive, pulse oximeter	Understanding the lecture	7	28
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	ECG and temperature monitoring equipment	Understanding the lecture	7	29
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	ECG and temperature monitoring equipment	Understanding the lecture	7	30

Course Evaluation •

the audience

Participation

Peer evaluation

Weekly reports

earning and teaching resourcesL •

Essential anesthesia equipment Baha

(Main references (sources

alshake anesthesia equipment Basic miller of anesthesia Morgan and Mikhails	
Anesthesia and analgesia journal British journal of anesthesia Others	Recommended supporting books and references (...scientific journals, reports)
Pubmed Google scholar Web of sciences EmbaseOther	Electronic references, websites

Course Description Form

• Course name	
Intensive Care Techniques 1	
• Course code	
AT316	
• semester/year	
2024-3 202 / First	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
hours 210	
• (Name of the course administrator (if more than one name is mentioned	
:Occupation .A Al Ahmed Makki Dr :Name	
• objectives Course	
To learn the basics of intensive care, :General objective identify patients who need intensive care, and how to deal with critically ill patients.	Course objectives
• Teaching and learning strategies	
Practical and theoretical methods, as well as educational videos and demonstration methods, as well as open discussion methods, with tests at the end	tegyStra

.of the lecture

Course structure					
week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	theoretical, 2 2 practical	Understanding the lecture	Principles of ICU	Theoretical –material laboratories for practical material inside the laboratory of anesthesia	Theoretical tests –in person practical tests in oratorieslab
2	theoretical, 2 2 practical	Understanding the lecture	Principles of ICU	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Theoretical tests –in person practical tests in slaboratorie
3	theoretical, 2 2 practical	Understanding the lecture	Practical management.	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Theoretical tests –in person practical tests in laboratories
4	theoretical, 2 2 practical	Understanding the lecture	Practical management.	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Theoretical tests –in person practical tests in laboratories
5	heoretical, 2 t 2 practical	Understanding the lecture	Artificial ventilation.	Theoretical –material laboratories for practical material inside	Theoretical tests –in person practical tests in laboratories

	the anesthesia laboratory and operating room				
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Artificial ventilation.	Understanding the lecture	oretical, 2 the 2 practical	6
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Clinical monitoring.	Understanding the lecture	etical, 2 theor 2 practical	7
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Clinical monitoring.	Understanding the lecture	l, 2 theoretica 2 practical	8
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Clinical monitoring.	Understanding the lecture	theoretical, 2 2 practical	9
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside	Clinical monitoring.	Understanding the lecture	theoretical, 2 2 ticalprac	10

	the anesthesia laboratory and operating room				
Theoretical tests -in person practical tests in laboratories	Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room	Cardio pulmonary resuscitation.	Understanding the lecture	theoretical, 2 2 lpractica	11
Theoretical tests -in person practical tests in laboratories	Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room	Cardio pulmonary resuscitation.	Understanding the lecture	theoretical, 2 2 racticalp	12
Theoretical tests -in person practical tests in laboratories	Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room	Hypoxia & Q_2 therapy.	Understanding the lecture	al, 2 theoretic 2 practical	13
Theoretical tests -in person practical tests in laboratories	Theoretical -material laboratories for practical material inside the anesthesia laboratory and operating room	Hypoxia & Q_2 therapy.	Understanding the lecture	2 ,theoretical 2 practical	14
Theoretical tests -in person n practical tests i laboratories	Theoretical -material laboratories for practical material inside	Special complications DVT, Pneumothorax stress ulcer, ARDS	Understanding the lecture	2 ,theoretical 2 practical	15

	the anesthesia laboratory and operating room				
tests Theoretical –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Special complications DVT, Pneumothorax stress ulcer, ARDS.	Understanding the lecture	theoretical, 2 2 practical	16
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia ory and laborat operating room	Special complications DVT, Pneumothorax stress ulcer, ARDS.	Understanding the lecture	theoretical, 2 2 practical	17
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside esia the anesth laboratory and operating room	CNS: glasco coma scale, head injury.	Understanding the lecture	theoretical, 2 2 practical	18
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical e material insid the anesthesia laboratory and operating room	CNS: glasco coma scale, head injury.	Understanding the lecture	theoretical, 2 2 practical	19
Theoretical tests –in person practical tests in laboratories	Theoretical –material or laboratories f practical material inside	Indication of intubations. Ventilation & Extubation	Understanding the lecture	theoretical, 2 2 practical	20

	the anesthesia laboratory and operating room				
Theoretical tests –in person practical tests in laboratories	1 Theoretica –material laboratories for practical material inside the anesthesia laboratory and operating room	Indication of intubations. Ventilation & Extubation	Understanding the lecture	theoretical, 2 2 practical	21
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Indication of intubations. Ventilation & Extubation	Understanding the lecture	theoretical, 2 2 practical	22
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Emergency drugs.	Understanding the lecture	theoretical, 2 2 practical	23
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Emergency drugs.	Understanding the lecture	theoretical, 2 2 practical	24
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside	Emergency drugs. monitoring equipment	Understanding the lecture	theoretical, 2 2 practical	25

	the anesthesia laboratory and operating room				
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Blood & blood transfusion.	Understanding the lecture	theoretical, 2 2 practical	26
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Blood & blood transfusion.	Understanding the lecture	theoretical, 2 2 practical	27
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	IVF & water & electrolyte balance.	Understanding the lecture	theoretical, 2 2 practical	28
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside the anesthesia laboratory and operating room	Nutrition	Understanding ethe lectur	theoretical, 2 2 practical	29
Theoretical tests –in person practical tests in laboratories	Theoretical –material laboratories for practical material inside	Delayed recovery.	Understanding the lecture	theoretical, 2 2 practical	30

	the anesthesia laboratory and operating room				

• Course Evaluation
the audience Participation Peer evaluation Weekly reports
• Learning and teaching resources

1-ABC of intensive care. 2 nd ed., Graham R. Nimmo - The Anesthesia Technician & Technologist's Manual	(Main references (sources
1.clinical anesthesiology. 5th ed ., John F. Butterworth IV, md	Recommended supporting books and references (...scientific journals, reports)
Pubmed Google scholar Web of sciences EmbaseOther	Electronic references, websites

Course Description Form

• Course name
Anesthesia devices 3
• Course code
Atu_chm AT402
• semester/year
2024-3 202
• Date this description was prepared
2024/29/2
• Available attendance forms
My presence
• (Number of study hours (total) / Number of units (total
study units4 –hours 180
• (Name of the course administrator (if more than one name is mentioned
: Amil Al Sajjad Muhammad .Dr :Name
• objectives Course

Course objectives	
At the end of the academic year, the student will be able to: Use all different anesthesia devices. Maintain and maintain all anesthesia devices. Identify all parts of anesthesia and medical devices used in .their techniques	

• Teaching and learning strategies

Strategy	
ures, visual and video demonstrations, ,Theory, practical laboratory work Methods Open .dimensional models, and discussion method-three	

• Course structure

week	watches	ed Requir learning outcomes	Name of the unit or topic	Learning method	Evaluation method
1	-2 Theoretical My work4-	Understanding the lecture	Suction units	Lecture Practical application in the laboratory	Theoretical tests in -person practical tests in rieslaborato
2	-2 Theoretical My work4-	Understanding the lecture	Suction units	Lecture and practical application in the laboratory	Theoretical tests in -person practical tests in laboratories
3	-2 Theoretical My work4-	Understanding the lecture	Suction units	Lecture Practical application in the laboratory	Theoretical tests in -person practical tests in laboratories
4	-2 Theoretical My work4-	Understanding the lecture	Suction units	Lecture Practical application in the laboratory	Theoretical tests in - person practical tests in laboratories
5	-2 Theoretical My work4-	Understanding the lecture	Suction units	Lecture Practical application in the laboratory	Theoretical tests in -person practical tests in laboratories
6	-2 Theoretical My work4-	Understanding the lecture	Ventilators	Lecture Practical application in the laboratory	Theoretical tests in -person practical tests in

laboratories					
ical Theoret tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Ventilators	Understanding the lecture	-2 Theoretical My work4-	7
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Ventilators	Understanding the lecture	-2 Theoretical My work4-	8
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Ventilators	Understanding the lecture	-2 Theoretical work My4-	9
Theoretical tests in -person practical tests in laboratories	Lecture Practical applicatio e in th laboratory	Ventilators	Understanding the lecture	-2 Theoretical My work4-	10
Theoretical tests in -person practical tests in eslaboratori	Lecture Practical application in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	11
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	12
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	13
Theoretical n tests i -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	14
Theoretical	Lecture	Monitoring system	Understanding	-2	15

tests in -person practical tests in laboratories	Practical application in the laboratory		the lecture	Theoretical My work4-	
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	16
Theoretical tests in -person practical tests in laboratories	Lecture Practical on applicati in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	17
Theoretical tests in -person practical tests in boratoriesla	Lecture Practical application in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	18
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	19
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitoring system	Understanding the lecture	-2 Theoretical My work4-	20
l Theoretica tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Electrical hazards	Understanding the lecture	-2 Theoretical My work4-	21
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Electrical hazards	Understanding the lecture	-2 Theoretical My work4-	22
Theoretical tests in -person	Lecture Practical application	Electrical hazards	Understanding the lecture	-2 Theoretical My work4-	23

practical tests in laboratories	in the laboratory				
Theoretical tests in -person practical tests in laboratories	Lecture al Practic application in the laboratory	Electrical hazards	Understanding the lecture	-2 Theoretical My work4-	24
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Layout+ contents of anesthetics room and RCU	Understanding the lecture	-2 Theoretical My work4-	25
Theoretical tests in -person practical tests in torieslabora	Lecture Practical application in the laboratory	Layout+ contents of anesthetics room and RCU	Understanding the lecture	-2 Theoretical My work4-	26
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Layout+ contents of anesthetics room and RCU	Understanding the lecture	-2 Theoretical My work4-	27
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Electrocardiography	anding Underst the lecture	-2 Theoretical My work4-	28
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Electrocardiography	Understanding the lecture	-2 Theoretical My work4-	29
Theoretical tests in -person practical tests in aboratoriesl	Lecture Practical application in the laboratory	Electrocardiography	Understanding the lecture	-2 Theoretical My work4-	30
				Course Evaluation	•
				the audience Participation Peer evaluation Weekly reports	

• Learning and teaching resources	
(Main references (sources	Essential anesthesia equipment Baha alshake anesthesia equipment Basic miller of anesthesia Morgan and Michaels
Recommended supporting books and references (...scientific journals, reports)	Pubmed Google scholar Web of sciences Embase Other
Electronic references, websites	Medical website

Course Description Form

• Course name	
Anesthesia 3	
• Course code	
Atu_chm AT401	
• semester/year	
2024-3 202	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
study units4 –hours 10 2	
• (an one name is mentionedName of the course administrator (if more th	
:Name .A Al Basem Mohammed :Name	
• objectives Course	
Course objectives	At the end of the academic year, the student will be able to: Use all different anesthesia How to administer anesthesia. How to .devices how to care for a t. Knowresuscitate a patien .patient wisely in an emergency
• Teaching and learning strategies	
Strategy	tures, visual and video demonstrations, three ,Theory, practical laboratory work Methods Open .dimensional models, and discussion method

• ureCourse struct

Evaluation method	Learning method	Name of the unit or topic	Required learning	watches	week

			outcomes		
retical Theo tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Maternal Anatomical & Physiological changes	Understanding the lecture	-2 Theoretical My work -5	1
Theoretical tests in person practical tests - n laboratoriesi	Lecture and practical application in the laboratory	Maternal Anatomical & Physiological changes	Understanding the lecture	-2 Theoretical My work -5	2
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Geriatric Anatomical & Physiological changes	Understanding the lecture	-2 Theoretical My work -5	3
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Anaesthesia-Effects on Respiratory function.	derstanding Un the lecture	-2 Theoretical My work -5	4
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Endotracheal intubation-difficult intubation	Understanding the lecture	-2 Theoretical My work -5	5
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Positioning in anaesthesia, legal point about surgery, regent surgery, emergency surgery.	Understanding the lecture	-2 Theoretical My work -5	6
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Hypoxia during surgery and post operative legal point about pre-medical visit & doctors consultations.	Understanding the lecture	-2 Theoretical My work -5	7
Theoretical tests in person practical tests - in laboratories	Lecture l Practica application in the laboratory	Co ₂changes "Hypocapnoea" Applications	Understanding the lecture	-2 Theoretical My work -5	8
Theoretical tests in person ractical tests p - in laboratories	Lecture Practical application in the laboratory	Desire fan characteristics	Understanding the lecture	-2 Theoretical My work -5	9
Theoretical	Lecture	Obeisity &	Understanding	-2	10

tests in person practical tests - in laboratories	Practical application in the laboratory	Anaesthesia	the lecture	Theoretical My work -5	
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Alcohol & Anaesthesia	standing Under the lecture	-2 Theoretical My work -5	11
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Renal Disease & Anaesthesia	Understanding the lecture	-2 Theoretical My work -5	12
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Liver Disease & Anaesthesia	Understanding the lecture	-2 Theoretical My work -5	13
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Anaemia & Anaesthesia Sickle Cell Anaemia	Understanding the lecture	-2 Theoretical My work -5	14
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Gastric Acid Aspiraton syndrome, pre-eclampsia	Understanding the lecture	-2 alTheoretic My work -5	15
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Coronary artery diseases in non-cardiac surgery.	Understanding the lecture	-2 Theoretical My work -5	16
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Hypertension Atherosclerosis, Heart Failure, Old	Understanding the lecture	-2 Theoretical My work -5	17
Theoretical tests in person practical tests - in laboratories	Lecture cal Practi application in the laboratory	Valvular lesions & Anaesthesia, General note about open heart surgery	Understanding the lecture	-2 Theoretical My work -5	18
Theoretical person tests in practical tests - in laboratories	Lecture Practical application in the laboratory	One lung anaesthesia, Bronchoscopy	Understanding the lecture	-2 Theoretical My work -5	19

Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Diabetes Mellitis & Anaesthesia.	Understanding the lecture	-2 Theoretical My work -5	20
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Thyroid surgery & Anaesthesia, Pheochromoeytoma	Understanding the lecture	-2 calTheoreti My work -5	21
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	TUR, Pyloric stenosis, Burns.	Understanding the lecture	-2 Theoretical My work -5	22
Theoretical tests in person practical tests - in laboratories	Lecture actical Pr application in the laboratory	Upper air way obstruction causes & anaesthesia.	Understanding the lecture	-2 Theoretical My work -5	23
Theoretical son tests in per practical tests - in laboratories	Lecture Practical application in the laboratory	Massive blood transfusion.	Understanding the lecture	-2 Theoretical My work -5	24
Theoretical tests in person practical tests - iesin laborator	Lecture Practical application in the laboratory	Control of Icp, Head injury, Air embolism and emergency	Understanding the lecture	-2 Theoretical My work -5	25
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Criteria for brain death, General notes about neuroanaesthesia	Understanding the lecture	-2 Theoretical My work -5	26
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Day clinic, Dental Anaesthesia.	Understanding the lecture	-2 Theoretical y workM -5	27
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Techniques of local analgesia Indication, contra indication, upper limb problems, lower limb problems, toxic reaction.	Understanding the lecture	-2 Theoretical My work -5	28
Theoretical	Lecture	Shock syndrome &	Understanding	-2	29

tests in person practical tests - in laboratories	Practical application in the laboratory	Anaesthesia in general.	turethe lec	Theoretical My work -5	
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Hypersensitivity reactions & Anaesthesia "in general	Understanding the lecture	-2 Theoretical My work -5	30

• Course Evaluation

the audience
Participation
Peer evaluation
Weekly reports

• Learning and teaching resources

Clinical anesthesiology, Fundamental, Oxford Google ASA, Scopas	(Main references (sources
	Recommended supporting books and (...references (scientific journals, reports
ouTube channel , ASA, slide share, pint rest	Electronic references, websites

on FormCourse Descripti

• Course name	
Nursing	
• Course code	
Atu_chm AT405	
• semester/year	
2024-3 202	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
sstudy unit4 - hour 1 3 60	
• (Name of the course administrator (if more than one name is mentioned	
:Occupation .A Al Dr. Ali Dawood :Name	
• objectives Course	
Understand the historical and development of nursing profession. Realize the personal characteristics and human needs. Recognize the concept of health, wellness, and illness. Describe the health care delivery system. Identify the fundamentals of nursing in regard to patient, nurse, environment, and health agencies	Course objectives
• Teaching and learning strategies	
:tures, visual and video demonstrations, three ,Theory, practical laboratory work Methods Open .dimensional models, and discussion method	Strategy

• Course structure

Evaluation odmeth	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Introduction about nursing	Understanding the lecture	-2 Theoretical My work -5	1-2
Theoretical tests in person practical tests - in laboratories	Lecture and practical application in the laboratory	Concept of nursing process : stages	Understanding the lecture	-2 Theoretical My work -5	3-4
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Preoperative nursing management: general physical assessment	Understanding the lecture	-2 Theoretical My work -5	5-8

Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	pre-anesthetic intra anesthetic and post anesthetic management of the patient	Understanding the lecture	-2 Theoretical My work -5	9-10
etical Theor tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Preoperative nursing management	Understanding the lecture	-2 Theoretical My work -5	11-14
Theoretical tests in person practical tests - iesin laborator	Lecture Practical application in the laboratory	Nursing care in the recovery room	Understanding the lecture	-2 Theoretical My work -5	15-22
Theoretical tests in person practical tests - in laboratories	Lecture Practical application in the laboratory	Post-operative nursing care	Understanding the lecture	-2 Theoretical My work -5	23-24

• Course Evaluation

the audience Participation aluationPeer ev Weekly reports

• Learning and teaching resources

Taylor, C. ; Lillis, C. Brunner, L.; LeMone, P.; Lynn, P.: Fundamentals of nursing, seventh ed., New York, Lippincott Co., 2011. Malak, M. and Al-Maharmeh, A. ; Fundamentals (Foundations) of Nursing, First Edition, Amman: Dar Al Bedaia, 2009	(Main references (sources
	Recommended supporting books and references (scientific journals, (...reports
YouTube channel , ASA, slide share, pint rest	Electronic references, websites

Form Course Description

• Course name	
Internal medicine and surgery	
• Course code	
Atu_chm AT404	
• semester/year	
2024-3 202	
• Date this description was prepared	
2024/29/2	
• Available attendance forms	
My presence	
• (Number of study hours (total) / Number of units (total	
study units3 - hour 1 15 0	
• (Name of the course administrator (if more than one name is mentioned	
:Name . A - Al Dajili-Dr. Ali Al :Name	
• objectives Course	
Introducing students to the various body parts and the anatomical and ffects of injuries and diseases, as well as the resulting physiological e complications. Educating students about the symptoms and signs of these conditions and the basic frameworks for dealing with them. Introducing students the nature of this intervention, with to cases requiring intervention and clarifying .a focus on emergency cases	Course objectives
• Teaching and learning strategies	
:tures, visual and video demonstrations, three ,Theory, practical laboratory work Methods Open .dimensional models, and discussion method	Strategy

• se structureCour

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	watches	week
Theoretical tests in -n perso practical tests in laboratories	Lecture Practical application in the laboratory	Traumatology	Understanding the lecture	-2 Theoretical My -3 work	1
Theoretical tests in -person practical tests in laboratories	Lecture and practical application in the laboratory	Shock (types, patho physiology, management	Understanding the lecture	-2 Theoretical My -3 work	2
Theoretical tests in -person practical tests in	Lecture Practical application in the laboratory	Burn, plastic surgery	Understanding the lecture	-2 oreticalThe My -3 work	3

laboratories					
Theoretical tests in -person practical tests in laboratories	reLectu Practical application in the laboratory	Warfare injuries	Understanding the lecture	-2 Theoretical My -3 work	4
retical Theo tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Management of haemopneumothor ax, flailches	Understanding the lecture	-2 Theoretical My -3 work	5
Theoretical tests in -person practical tests in laboratories	Lecture al Practic application in the laboratory	Head injuries, SOL, management of unconscious patient, Spinal injuries, peripheral nerve injuries, Tracheostomy, otolaryngiology	Understanding the lecture	-2 Theoretical My -3 work	6
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Head injuries, SOL, management of unconscious patient, Spinal injuries, peripheral nerve injuries, Tracheostomy, otolaryngiology	Understanding the lecture	-2 Theoretical My -3 work	7
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Head injuries, SOL, management of unconscious patient, Spinal injuries, peripheral nerve injuries, Tracheostomy, otolaryngiology	Understanding the lecture	-2 Theoretical My -3 work	8
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	DM: complications, management, preparation for operation	Understanding the lecture	-2 Theoretical My -3 work	9
tical Theore tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Amputations	Understanding the lecture	-2 Theoretical My -3 work	10

Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Endocrinology: Pituitary gland, Thyroid gland, Parathyroid gland & calcium balance, Adrenal gland	Understanding the lecture	-2 Theoretical My -3 work	11
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the atorylabor	Endocrinology: Pituitary gland, Thyroid gland, Parathyroid gland & calcium balance, Adrenal gland	Understanding the lecture	-2 Theoretical My -3 work	12
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Endocrinology: Pituitary gland, Thyroid gland, Parathyroid gland & calcium balance, Adrenal gland	Understanding the lecture	-2 Theoretical My -3 work	13
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Endocrinology: Pituitary gland, Thyroid gland, Parathyroid gland & calcium balance, Adrenal gland	Understanding the lecture	-2 Theoretical My -3 work	14
Theoretical tests in -son per practical tests in laboratories	Lecture Practical application in the laboratory	Preparation of patient with obstructive jaundice	Understanding the lecture	-2 Theoretical My -3 work	15
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Preparation of patient with obstructive jaundice	Understanding the lecture	-2 Theoretical My -3 work	16
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Surgical precautions in theater and ICU	Understanding the lecture	-2 Theoretical My -3 work	17
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Management of respiratory failure, ARDS	Understanding the lecture	-2 Theoretical My -3 work	18
Theoretical tests in	Lecture ical Pract	Management of hematemesis	Understanding the lecture	-2 Theoretical	19

-person practical tests in laboratories	application in the laboratory	and Melaena		My -3 work	
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Management of coagulopathy and DIC	Understanding the lecture	-2 Theoretical My -3 work	20
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Management of septicemia and MOFS	Understanding the lecture	-2 Theoretical My -3 work	21
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	New techniques in surgery	Understanding the lecture	-2 Theoretical My -3 work	22
Theoretical tests in -person practical tests in laboratories	Lecture actical Pr application in the laboratory	Transplantation	Understanding the lecture	-2 Theoretical My -3 work	23
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Emergencies in female genital tract: injuries, ectopic pregnancy	Understanding the lecture	-2 Theoretical My -3 work	24
Theoretical tests in -person tical prac tests in laboratories	Lecture Practical application in the laboratory	Abortion, Caesarean section and hysterectomy	Understanding the lecture	-2 Theoretical My -3 work	25
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Orthopedic surgery: fractures and dislocation	Understanding the lecture	-2 Theoretical My -3 work	26
Theoretical tests in -person practical	Lecture Practical application in the	Osteomyelitis: acute and chronic, tumors of skeletal system	Understanding the lecture	-2 Theoretical My -3 work	27

tests in laboratories	laboratory				
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Wrist, hand and foot	Understanding ecturethe l	-2 Theoretical My -3 work	28
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Ophthalmology	Understanding the lecture	-2 Theoretical My -3 work	29

• Course Evaluation

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Principles of medicine and surgery, short notes	(Main references (sources
Davidson, Macloeid Baily and love, short practice in surgery 26 th ED Swaartz clinical surgery 11 th ED	mended supporting Recom books and references (...scientific journals, reports)
YouTube channel , ASA, slide share, pint rest	Electronic references, websites

Course Description Form

• Course name
intensive care
• Course code
Atu_chm AT403
• semester/year
2024-3 202
• Date this description was prepared
2024/29/2
• Available attendance forms
My presence
• (total) Number of study hours (total) / Number of units
study units 4 - hour 1 180
• (Name of the course administrator (if more than one name is mentioned
:Is inclined towards .A Al Dr. Ahmed Makki :Name
• objectives Course

Course objectives	ed in us Course objectives: To gain an idea about all the devices .intensive care units in intensive care units Operating devices repair maintenance and Device

• Teaching and learning strategies	
Strategy	:tures, visual and video demonstrations, three ,Theory, practical laboratory work Methods Open .and discussion method ,dimensional models

• Course structure

week	watches	Required learning outcomes	Name of the unit or topic	Learning method	Evaluation method
30	-2 Theoretical My -3 work	Understanding the lecture	Recognition and Management of critically ill patient.	Lecture Practical application in the laboratory	Theoretical tests in -person practical tests in laboratories
31	-2 Theoretical My -3 work	Understanding the lecture	Defibrillators	Lecture and practical application in the laboratory	Theoretical tests in -son per practical tests in laboratories
32	-2 Theoretical My -3 work	Understanding the lecture	Defibrillators	Lecture Practical application in the laboratory	Theoretical tests in -person practical tests in laboratories
33	-2	ng Understandi	Defibrillators	Lecture	Theoretical

tests in -person practical tests in laboratories	Practical application in the laboratory		the lecture	Theoretical My -3 work	
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Q2 regulator	Understanding the lecture	-2 Theoretical My -3 work	34
Theoretical tests in - person practical tests in laboratories	Lecture Practical application in the laboratory	Q2 regulator	Understanding the lecture	-2 Theoretical My -3 work	35
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Q2 regulator	Understanding the lecture	-2 Theoretical My -3 work	36
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Aims and classification of patient monitoring	Understanding e lectureth	-2 Theoretical My -3 work	37
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Aims and classification of patient monitoring	Understanding the lecture	-2 Theoretical My -3 work	38
Theoretical tests in -person practical tests in laboratories	Lecture Practical application the in laboratory	Aims and classification of patient monitoring	Understanding the lecture	-2 Theoretical My -3 work	39
Theoretical tests in -person practical ts in tes laboratories	Lecture Practical application in the laboratory	ECG monitors attached to patient	Understanding the lecture	-2 Theoretical My -3 work	40
Theoretical tests in -person	Lecture Practical application	ECG monitors attached to patient	Understanding the lecture	-2 Theoretical My -3	41

practical tests in laboratories	in the laboratory			work	
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	ECG monitors attached to patient	g Understandin the lecture	-2 Theoretical My -3 work	42
Theoretical tests in -person practical tests in laboratories	Lecture tical Prac application in the laboratory	ECG monitors attached to patient	Understanding the lecture	-2 Theoretical My -3 work	43
Theoretical ts in tes -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitors in central monitoring station	Understanding the lecture	-2 Theoretical My -3 work	44
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitors in central monitoring station	Understanding the lecture	-2 Theoretical My -3 work	45
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Alarm system & devices	Understanding the lecture	-2 Theoretical My -3 work	46
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Alarm system & devices	Understanding the lecture	-2 Theoretical My -3 work	47
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Memory devices	Understanding the lecture	-2 Theoretical My -3 work	48
Theoretical tests in -person practical tests in	Lecture Practical application in the laboratory	Monitoring and records of critically ill patient	tanding Unders the lecture	-2 Theoretical My -3 work	49

laboratories					
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Monitoring and records of critically ill patient	Understanding the lecture	-2 Theoretical My -3 work	50
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the rylaborato	Recording devices	Understanding the lecture	-2 Theoretical My -3 work	51
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Recording devices	Understanding the lecture	-2 Theoretical My -3 work	52
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	nutrition	Understanding the lecture	-2 oreticalThe My -3 work	53
Theoretical tests in -person practical tests in laboratories	Lecture Practical ion applicat in the laboratory	nutrition	Understanding the lecture	-2 Theoretical My -3 work	54
Theoretical tests in -person practical tests in oratorieslab	Lecture Practical application in the laboratory	Blood transfusion	Understanding the lecture	-2 Theoretical My -3 work	55
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Blood transfusion	Understanding the lecture	-2 Theoretical My -3 work	56
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Blood transfusion	Understanding the lecture	-2 Theoretical My -3 work	57
Theoretical	Lecture	Blood transfusion	Understanding	-2	58

in tests -person practical tests in laboratories	Practical application in the laboratory		the lecture	Theoretical My -3 work	
Theoretical tests in -person practical tests in laboratories	Lecture Practical application in the laboratory	Blood transfusion	Understanding the lecture	-2 Theoretical My -3 work	59

- Course Evaluation

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OH'S INTENSIVE CARE MANUAL SEVENTH EDITION	(Main references (sources
	Recommended supporting books and references (scientific (...journals, reports
YouTube channel , ASA, slide share, pint rest	websites ,Electronic references