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

Academic Program and Course Description Guide

2024-2025

Introduction:

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

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

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

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

Concepts and terminology:

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

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

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

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

Program Objectives:

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

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

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

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

Academic Program Description Form

University name: AlKafeel University.....

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

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

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

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

Academic system: **semester**

Description preparation date:1/10/2024

File filling date:1/10/2024

Signature:

Head of Department Name:

Asst.prof.Dr.Israa Abdul-Ameer

Date:**1/10/2024**

Signature:

Scientific Associate Name:

Asst.Prof.Dr.Sddiq Ghani Joda

Date:**1/10/2024**

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

AHMED HAMMOODI Yousif

Approval of the Dean

1. Program Vision

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

2. Program Mission

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

3. Program Objectives

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

4. **Program Accreditation** Minestary

Does the program have program accreditation? And from which agency? No

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

6. **Program Structure**				
Program Structure	**Number of Courses**	**Credit hours**	**Percentage**	**Reviews***
Institution Requirements	**1**	**1**	**4%**	**Guidance optional**
College Requirements	**1**	**5**	**10%**	
Department Requirements	**42**	**178**	––	
Summer Training	––	––	––	
Other				

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

7. Program Description

Year/Level	Course Code	Course Name	
Year one			theoretic
	CH001	General chemistry	2
	PHY001	General physiology	2
	PHY001	Medical physics	2
	MED001	Medical terminology	2
	BIO001	Biology	2
		Anatomy	2
	ENG001	English language	2
	HR001	Human rights	2
	PC001	Principle of computer	2
Year Two	AN001	Basics of Anesthesia	2
	AN002	Basics of Anesthesia Equipment	2
	MED001	Basics of medicine	2
		Basics of surgery	2
	PHC001	Pharmacology	2
	MED001	Medical terminology	2
	PH001	Applied physiology	2
		Al Baath crimes	2

Human Anatomy/Physiology/ biology **Chemistry** Physics	Gain a comprehensive understanding of the structure and function of the human body at the cellular, tissue, organ, and system levels. Grasp the chemical processes within living organisms and their role in health and disease.

Physics	Knowledge of the physics of the human body through knowledge of the natural structure and function of the body, the systems of the main organs, and the physical laws that control them
Skills	
Early Clinical and Professional Development (ECPD)	Develop the skills to gather a comprehensive medical history from patients and perform a thorough physical examination.
Medical Terminology	Become proficient in medical terminology to accurately document and discuss patient conditions.
Ethics	
Medical Ethics	To treat all patients according to principles of medical ethics, emphasizing patient confidentiality, informed consent, and professional integrity
Patient safety 8.	To develop essential clinical skills with the overall aim of ensuring patients' safety.

1. **Teaching and Learning Strategies** skills and values acquired by students after Theory lectures
2. Laboratory sessions
3. Display and presentation.
4. Interactive discussion
5. Brainstorming

6. Flipped classroom.
7. Seminar
8. Clinical visit

9. Small group teaching =

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

10. Evaluation methods Day Examin Coues Examin, Final examin

Implemented at all stages of the program in general.

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

11. Faculty

Faculty Members

Academic Rank	Specialization	Special Requirements/ Skills (if applicable)	Number of the teaching staff
Professor	Pathology	HISTOPSTHOLOGY	0NE THERORY ONE PRACTIC

	General	Special			Staff	Lecturer
Assistant Professor.Israa Abdul Ameer	Biology				✓	
Ali khalif hassin	physics				✓	
Asst.L.Ahmed Mohamed Obaid	Anesthesia technician					✓
Muhannad Yahya Idris	medicine					✓
Ali Saleh Hassoun	Biology					✓
Professor Muayad Abdullah Al-Khafaji	medicine				✓	
Odie Jameel abd zaid	medicine					✓
Ali talb mohammed	medicine					✓
Hasineen ahmed Raheem	medicine					✓
Mohammed haider abbas	Anesthesia technician					✓
Montazir nomman mhesin	medicine				✓	
Donia razaaq Hossain	Anesthesia technician					✓
Hawraa kamil abd alhadi	Anesthesia technician					✓
Haider jassim mohammed	law					✓
Ameer hameed mohammed	Medicine					✓
Asst.L.Muhammad Sarim Hamza	Biology				✓	
Adnan abid alrasool mohammed	Anesthesia technician					✓
Hussain fadhil abd alabas	Computer				✓	
Montha abdala raishan	Nursing				✓	

Abdulhussein jaafer mosa	Chemistry				✓	
Yasser abd alzahraa flaih	computer				✓	
Fadak mansoor abd alradha	analytics				✓	
Alaa saad Obaid	physics				✓	

Professional Development

Mentoring new faculty members= write lactuer and visin lacter .

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

Professional Development

Mentoring new faculty members

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

Professional development of faculty members

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

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

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

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

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

13. **The most important sources of information about the program**
State briefly the sources of information about the program. =book and journal 1. Approved and authenticated documents for the general curriculum of the college and the courses, vision, mission, and goals of the university and college in both Arabic and English. 2. The website of the Ministry of Higher Education and Scientific Research. 3. The official website of Al-Kafeel University and its College of Health and Medical Technologies, Department of Anesthesia Technologies 4. Billboards installed in the college corridors.

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

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Year One	BIO001	Biology	Basic	/	/	/		/	/	/		/	/	/	
	AN001	Anatomy	Basic	/	/	/		/	/	/		/	/	/	
	CH001	Chemistry	Basic	/	/	/		/	/	/		/	/	/	
	PHC001	Physic	Basic		/				/					/	
	PHY001	Physiology	Basic	/	/	/		/	/	/		/	/	/	
	PC001	Computer	Optional			/				/					/
	ENG001	English language	Optional				/				/				/
	AR001	Arabic Language	Optional				/				/				/

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

First Stage /First Course

Course Description Form

1. Course Name: General chemistry
2. Course Code:
3. Semester / Year:year 2024
4. Description Preparation Date:15/3/2024
5. Available Attendance Forms: 15/3/2024
6. Number of Credit Hours (Total) / 2 theory and 4practic Number of Units (Total) 6
7. Course administrator's name (mention all, if more than one name)
Name: Abdulhussein jaafer shamsah Email: abdulhussien.shamsa@alkafeel.edu.iq
8. Course Objectives

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

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
30	80		- Scope of biochemistry in health and disease, cell and cell constituents. Some aspects of physical chemistry, Gas laws, Boyle's law, Graham's Law of diffusion, Dalton's Law of partial pressure, General gas equation, the international system of units. Radio activity and radioactive isotopes Solutions and methods of expressing concentrations colloidal solution. The PH concept, Acid-base balance, chemical equilibrium, common ion effect. Buffer and buffer systems of physiological importance in living systems. Blood, blood constituents, body fluids, regulation of blood Ph and body fluids. Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body fluids. Carbohydrates classification reactions, main carbohydrates in human body Metabolism of carbohydrates, blood glucose factors controlling glucose level in blood Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance curve Lipids, classification, derived lipids, compound, lipids Lipid metabolism, lipid abnormalities Proteins, classification, functions, peptide bonds,		

			amino acids, chemical reactions. leic acids and their ression, DNA Replication, Nutation, RNA Topology		

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

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	**General Chemistry: Principles, Patterns, and Applications** Context4Book
Main references (sources)	General Organic chemistry NE Chemistry
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

13. Course Name:	
Medical Physics	
14. Course Code:	
15. Semester / Year:	
h The first course / 2023 −2024	
16. Description Preparation Date:	
2024	
17.Available Attendance Forms:	
Class Attendance	
18.Number of Credit Hours (Total) / Number of Units (Total)	
(2 theoretical +4 practical) hours (weekly)= 90 hours / 4 units	
19. Course administrator's name (mention all, if more than one name)	
1. Name: Pro. Dr. Ali Khalaf Hasan Email: alikh.alsinayyid@uokufa.edu.iq	
20. Course Objectives	
Course Objectives	1 Identify the general concepts of medical physics 2. Identify the most important branches and gene specializations in medical physics - 3. Identify the most important laws of physics related to curriculum.....
21. Teaching and Learning Strategies	
Strategy	1.Lecture method, dialogue discussion, presenting examples, and discussing information via the Internet 2. Daily oral and written exams, monthly exams, daily participation during lectures, participating in discussion and solving questions, preparing reports or up-to-date information about medical physics are i included in the prescribed curriculum.

22. Course Structure

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

23. Course Evaluation

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

24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book

Main references (sources)	Introduction to Physics in Modern Medici (Suzanne Amador 2002),
Recommended books and references (scientific journals, reports…)	Any book that deals with the basics of medical physics and its applications
Electronic References, Websites	Any site that deals with medical physics

Course Description Form

1. Course Name: General biology
2. Course Code:
3. Semester / Year: year 2024
4. Description Preparation Date:20/3/2024
5. Available Attendance Forms: 20/3/2024
6. Number of Credit Hours (Total) / 2theory and 4practic Number of Units (Total) 6
7. Course administrator's name (mention all, if more than one name)
Name: Esraa abd alameer Email: Esraahamza@alkafeel.edu.iq
8. Course Objectives

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

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

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

11. Course Evaluation=10 for day examin, 25 first course, 25 second course, 40 final examin.	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	-human biology

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

Course Description Form

25. Course Name:
Department of Anesthesiology
26. Course Code:
General Physiology
27. Semester / Year:
Courses / second course / first stage
28. Description Preparation Date:
2024
29.Available Attendance Forms:
Theoretical and practical lectures
30.Number of Credit Hours (Total) / Number of Units (Total)
15*6 hours, number of units: 4
31. Course administrator's name (mention all, if more than one name)
Name: Mohammed Sarim Hamza Email: mohammed.sarim@alkafeel.edu.iq
32. Course Objectives

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

33. Teaching and Learning Strategies

Strategy	

34. Course Structure

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

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

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

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

Course Description Form

1. Course Name:
Computer Fundamentals(1)
2. Course Code:
Computer Fundamentals(1)
3. Semester / Year:
The first stage/first semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Is mandatory
6. Number of Credit Hours (Total) / Number of Units (Total)

45h

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

Name: yassir abdalzahra
Email:

8. Course Objectives

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

9. Teaching and Learning Strategies

Strategy

Name of the unit/topic	Required learning outcomes	hours	week
Computer Fundamentals, computer concept, phases of the computer life cycle, development of computer generations			1
Computer advantages and areas of use. Computer classification in			2

	terms of purpose, size and type of data	Bachelor's	1theoretical + 2 practical		
	Computer Components Computer Components The physical parts of a computer and the software entities			3	
	Your personal computer, the concept of computer security and software licenses			4	
	Computer Safety & Software License			5	
	Ethics of the electronic world, forms of abuse, computer security, computer privacy.			6	
	Computer software licenses and their types, intellectual property, electronic hacking, malware, the most important steps necessary to protect against hacking operations, computer harm to health.			7	
	Definition of Operating Systems Operating system, functions, goals, classification, examples of some operating systems			8	
	Operating System Windows 7 Operating System			9	
	Desktop components Start menu, taskbar			10	
	Folders and files icons			11	
	Performing operations on windows desktop backgrounds			12	
	Control Panel Windows Control Panel "Control Category" Groups "Panel".			13	
	From the Defragment control panel, you can organize files inside the computer, install programs, and delete them			14	
	Some common conditions and settings in the computer, managing the printer, setting the time and date, maintaining the initial disks.			15	

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

11. Learning and Teaching Resources	
Required textbooks (curricular boo if any)	• Computer basics and office applications / Part O - Mr. Dr. Ghassan Hamid Abdel Majeed and Dr. Z Muhammad Abboud and others.
Main references (sources)	• Lectures provided by the subject teacher Books available in the college library
Recommended books and references (scientific journals, reports...)	• All reputable scientific journals related to compu science And solid scientific research published on soc networks
Electronic References, Websites	• Internet network

Course Description Form

1. Course Name:
Department of Anesthesia Techniques
2. Course Code:
Anatomy
3. Semester / Year:
Courses / second course / first stage
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Theory and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
6*15 hours, number of units: 4
7. Course administrator's name (mention all, if more than one name)
Name: montha abdala
8. Course Objectives

Course Objectives	**• Identify the principles of anatomy an their relationship to other sciences.** **• Identify the body's systems and orga structure.** **• Identify the precise structure of the organ.**

	• Focus on the primary information pertaining to each organ, which is represented by its composition, locatic and function.....

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

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

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

Thirteenth The tenth quarter Fifteenth		development and inheritance			

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

12. Course Name: English Language
13. Course Code:
14. Semester / Year: first year first semester
15. Description Preparation Date:
16.Available Attendance Forms:
17.Number of Credit Hours (Total 45) / Number of Units (Total 15)
18. Course administrator's name (mention all, if more than one name)
Name:
19. Course Objectives

Course Objectives	• **Language Proficiency:**
	  ○ Develop proficiency in listening, speaking, reading, and writing skills in English.
	  ○ Demonstrate the ability to understand and produce spoken English with clarity, fluency, and appropriate pronunciation.
	• **Vocabulary and Grammar:**
	  ○ Expand vocabulary knowledge and use a wide range of vocabulary appropriately in various contexts.
	  ○ Apply grammatical structures accurately and effectively in spoken and written communication.
	• **Reading Comprehension:**
	  ○ Improve reading comprehension skills by understanding and interpreting a variety of English texts, including fiction, non-fiction, and academic articles.

	○ Identify main ideas, supporting details, and implied meanings in English texts. • ..... • ..... • .....

20. Teaching and Learning Strategies

Strategy

1. **Communicative Language Teaching (CLT):**
   - Emphasizes real-life communication and interaction in English through activities such as role-plays, discussions, and problem-solving tasks.
   - Focuses on meaningful language use in authentic contexts to develop speaking and listening skills.
2. **Task-Based Learning:**
   - Incorporates tasks and projects that require students to use English to accomplish specific goals or solve real-world problems.
   - Promotes language production and integration of language skills through hands-on, experiential learning activities.
3. **Differentiated Instruction:**
   - Tailors instruction to meet the diverse needs, learning styles, and proficiency levels of students.

21. Course Structure

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

22. Course Evaluation

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

23. Learning and Teaching Resources

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

First Stage /Second Course

Course Description Form

24. Course Name:	
Medical Physics	
25. Course Code:	
26. Semester / Year:	
The second course / 2024	
27. Description Preparation Date:	
2024	
28.Available Attendance Forms:	
Class Attendance	
29.Number of Credit Hours (Total) / Number of Units (Total)	
(2 theoretical +4 practical) hours (weekly)= 78 hours / 4 units	
30. Course administrator's name (mention all, if more than one name)	
1. Name: Pro. Dr. Ali Khalaf Hasan Email: alikh.alsinayyid@uokufa.edu.iq	
31. Course Objectives	
Course Objectives	1 Identify the general concepts of medical physics 2. Identify the most important branches and general specializati in medical physics - 3.Identify the most important laws of physics related to curriculum.....
32. Teaching and Learning Strategies	

Strategy	1.Lecture method, dialogue discussion, presenting examples, and discussing information via the Internet 2. Daily oral and written exams, monthly exams, daily participation during lectures, participating in discussion and solving questions, preparing reports or up-to-date information about medical physics are i included in the prescribed curriculum.

33. Course Structure

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

			10. Nanotechnology to Hydrogen production		

34. Course Evaluation

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

35. Learning and Teaching Resources

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

Course Description Form

1. Course Name : Microbiology (2)	
2. Course Code:	
3. Semester / Year:	
2nd Semester	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 Hours/3	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr.Israa abd alameer Email: IsraaJassim2020@gmail.com	
8. Course Objectives	
Course Objectives	**1- To be able to understand the basic princip of biology and their applications** **2- To be able to link between the primitive ar developed cells** **3- He must have the ability to collect and process samples** **Biological.** **4- To be able to understand the components the cell.**
9. Teaching and Learning Strategies	

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

10. Course Structure

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

36. Course Name:
Department of Anesthesiology
37. Course Code:
General Phtsiology
38. Semester / Year:
Courses / first course / first stage
39. Description Preparation Date:
2023
40. Available Attendance Forms:
Theoretical and practical lectures
41. Number of Credit Hours (Total) / Number of Units (Total)
15*6 hours, number of units: 4
42. Course administrator's name (mention all, if more than one name)
Name: Mohammed Sarim Hamza Email: mohammed.sarim@alkafeel.edu.iq
43. Course Objectives

Course Objectives	• **Identify the principles physiology and relationship to ot sciences.** • **Distinguishing betw the normal physiolog state of the body an pathological condition.**

	• To be able to laboratory devices tools. • Conducting blood te and other body fluids..

44. Teaching and Learning Strategies

Strategy	

45. Course Structure

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

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

Fifteenth		mechanism of respiration. Oxygen Transporting a exchange Carb dioxide transporting a exchange, Lu Vol. and capaci types of Hypoxia			

46. Course Evaluation

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

47. Learning and Teaching Resources

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

Course Description Form

48. Course Name:	
Computer Fundamentals(2)	
49. Course Code:	
Computer Fundamentals(2)	
50. Semester / Year:	
The first stage/second semester	
51. Description Preparation Date:	
2024	
52. Available Attendance Forms:	
Is mandatory	
53. Number of Credit Hours (Total) / Number of Units (Total)	
45h	
54. Course administrator's name (mention all, if more than one name)	
Name: yassir abd alzahra	
55. Course Objectives	
Course Objectives	• **Special goal:** • **Providing the student with the skills of dealing with basic office applications, creating office files and documents, and using the operating system, as well as the basics of working within the digital environment.** • **Overall goal:** • **At the end of the academic year, the student should be able to:** • **- Provide the student with knowledge in managing and using** • **various computer applications.**

	• **Urging the student to be creative and think about specialization** • **projects and keep pace with developments in this field.** • • **Providing students with scientific, practical and personal skills** • **that enable them to solve practical problems and deal with** • **them using scientific concepts.**

56. Teaching and Learning Strategies

Strategy

Name of the unit/topic	Required learning outcomes	hours	week
Microsoft 2010 Run Microsoft Word 2010			.1
Microsoft Word 2010 interface	Bachelor's	1theoretical + 2 practical	.2
File tab, Home tab			.3
Page Layout tab, Display tab			.4
Inserting objects in Microsoft Word			.5
Insert tab, group of pages			.6
Tables group			.7
Tables group			.8
Collection of illustrations			.9
A link group is a header and footer group			.10
Text set, Symbols set			.11
Additional tasks for Microsoft Word 2010			.12

	Microsoft PowerPoint 2010, open a new file and a safe on the desktop, Adding and editing slides (title slide, title with content, subtitle, two contents, comparison, title only, blank slide, content with comment, image with comment)			.13	
	Add themes Main display group Add animations and adjust time and repetition for entire slides and differently for each slide			.14	
	Add animations to slides			.15	

57. Course Structure

1. Course evaluation

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

58. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Department of Anesthesia Techniques
2. Course Code:
Anatomy(2)
3. Semester / Year:
Courses / second course / first stage
4. Description Preparation Date:
2024-12-1
5. Available Attendance Forms:
Theory and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
6*15 hours, number of units: 4
7. Course administrator's name (mention all, if more than one name)
Name: montaha abdala
8. Course Objectives

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

9. Teaching and Learning Strategies	
Strategy	

10. Course Structure

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

VI Seventh VIII Ninth		bladder , urethra Muscular system | Reproductive syste - male genitalia . Female reproductiv organs . Endocrine glands- anatomy and functic Endocrine glands- anatomy and functic Special sense anaton Skeletal system anatomy . The development a inheritance .			

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Arabic language
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
30 Hours/2
7. Course administrator's name (mention all, if more than one name)
Name:
8. Course Objectives

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

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	**Bachelor's**	Introduction to linguistic errors (ta' and ha')	Theoretical + practical	Exams
2	1		Introduction to linguistic errors (ta' and ha')2		
3	1		Rules for writing extended and short alifs - solar and lunar letters		
4	1		Writing the hamza		
5	1		punctuation marks		
6	1		The noun, the verb, and the difference between them		
7	1		Objects		
8	1		the number		
9	1		Applications on common linguistic errors		
10	1		Noun and noun - meanings of prepositions		
11	1		Formal aspects of administrative discourse		
12	1		The language of administrative discourse		
13	1		Examples of administrative correspondence		
14	1		Examples of administrative correspondence2		
15	1		Dhaad and Dhaa		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Second Stage /First Course

Course Description Form

59. Course Name: Principles of Surgery
60. Course Code: first
61. Semester / Year: second
62. Description Preparation Date:
2024
63.Available Attendance Forms:
64.Number of Credit Hours (Total) / Number of Units (Total) 4
65. Course administrator's name (mention all, if more than one name)
Name: Muayad Alkhafaji Email:muayadalkhafaji@alkafeel .edu.iq
66. Course Objectives

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

67. Teaching and Learning Strategies

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

68. Course Structure: lectures, seminars, and homework

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 **2**			Metabolic response to injury Inflammation acute and chronic		
3			Shock types and pathophysiology		
4			Wounds, tissue repair and scar		
5			Surgical infection		
6			Patient safety		
7			Preoperative care and care in operation		
8			Head injury, management		

			of unconscious patient		
9			Abscess, cellulitis, carbuncle, and nonspecific infections		
10			Gangrene, types, and causes		
11			Fluid therapy		
12			Nutritional support in surgery		
13			Acid–base balance		
14			Spinal injury and peripheral nerve injury		
15			Principles of laparoscopic surgery		

Course Description Form

1. Course Name :Basics of Medicine (1)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: Hasineen ahmed Raheem Email:

8. Course Objectives

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

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2	2 theoretical + 3 practical	**Bachelor's**	Diseases due to infection/ concepts of infection major manifestations /methods of diagnosis bacteremia/ septicemia / principles of management Diseases due to infection/ concepts of infection major manifestations /methods of diagnosis bacteremia/ septicemia / principles of management	Theoretical + practical	Exams
3			Diseases of the respiratory system-Introduction		
4			Diseases of the respiratory system-Introduction		
5			major manifestations /investigations/		

			resp. function tests		
6			Diseases of the C.V.S. / introduction/ major manifestation investigations		
7			Diseases of the C.V.S. / introduction/ major manifestation investigations		
8			Principles of electrocardiography/ normal ECG/S. Tachycardia/ S. Bradycardia/ S. arrhythmi		
9			AIDS		
10			Diseases of the GIT/ Introduction/ major manifestation/ Investigations		
11			Diseases of the GIT/ Introduction/ major manifestation/ Investigations		
12			Diseases of the liver/ introduction/ Bilirubin metabolism/ major manifestations / investigations		
13			Diseases of the liver/ introduction/ Bilirubin metabolism/ major manifestations / investigations		
14			Diseases of the kidney / introduction major manifestations / investigations		
15			Diseases of the kidney / introduction major manifestations / investigations		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:Pharmacology (1)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: Dr.ali salih Email:

8. Course Objectives

Course Objectives	The general goal is to familiarize the student with medications and emphasize the medications used anesthesia Own goals At the end of the year, the student will be able to -1- Identify the basics of how the drug works, th ways it affects the body, and how the body is affected by it -2- Distinguish the medications used for each o the body's systems, such as the circulatory and respiratory systems - Knowledge of the medications used in general and spinal anesthesia.

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2	2theoretical + 3practical	**Bachelor's**	Principles of Drug Therapy. Pharmacokinetics; Absorption, distribution, metabolism and excretion of the drugs. Pharmacodynamics; Drug-receptors interaction. Efficacy, potency, agonists, antagonists Cholinergic agonists and antagonists	Theoretical + practical	Exams

3			Adrenergic agonists and adrenergic antagonists		
4			Drugs affecting cardiovascular system: Antihypertensive drugs- Heart Failure-		
5			Drugs affecting cardiovascular system: Anti-arrhythmic Antianginal drugs		
6			Diuretics		
7	1+2		Antihistamines		
8	1+2		Drugs for Disorders of the Respiratory System		
9	1+2		Drugs for Disorders of the Respiratory System		
10	1+2		Drugs for anemia		
11	1+2		Anticoagulants and Antiplatelet Agents		
12	1+2		Skeletal muscle relaxants		
13	1+2		Local anesthetics		
14	1+2		General anesthetics		
15	1+2		General anesthetics		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name: Basics of anesthesia equipment Technique (1)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: hasineen ahmed Raheem
8. Course Objectives

Course Objectives	Objectives of the course: Teaching the course air to introduce the student to the basics of using an maintaining devices And the modern technologies used in it: Special objectives: 1-Learn about the basics of how anesthesia machines work 2- Dealing with all patient monitoring devices 3- Sustaining and maintaining the devices 4-Knowledge of modern techniques used in anesthesia devices

9. Teaching and Learning Strategies

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

10. Course Structure

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

			nasopharyngeal), tracheostomy, facemask		
12+15			Breathing system and their component, definition, classification, working principle		

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Anesthesia equipment, principle and application, Jan-2 Ehrenwerth, MD, 2"d edition The MGH Textbook of Anesthetic Equipment, Warren S-1 Sandberg, MD, PhD 2"d edition
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

1. Course Name: Applied Physiology(1)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: Dr.Mohanad Edrees yahia Email: MohanadEdrees2015@gmail.com
8. Course Objectives

Course Objectives	The general goal: At the end of the academic yea the student will be able to understand the functior of the various body systems Management of emergency and medical cases a their relationship to anesthesia. Specific objectives: The student will be able to: -1 The student learns about the importance and function of some of the body's vital systems, such as the respiratory and cardiovascular systems And its relationship with the work of anesthesia -2 To be able to identify some disorders and pathological conditions in these vital systems and their effect on them The nature of anesthesia. -3 To be able to use equipment and tools in the laboratory. -4 To be able to perform various clinical examinations of the body.

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1+2	**Bachelor's**	electrical components and activity of the heart	Theoretical + practical	Exams
2	1+2		the cardiac action potential in ventricular muscle and pacemaker		
3	1+2		tissues contractile cardiomyocytes and excitation-contraction		
4	1+2		coupling		
5	1+2		ECG and arrhythmia		

6	1+2		cardiac cycle		
7	1+2		heart sound and waveforms generated during cardiac cycle		
8	1+2		the left ventricle pressure-volume loop		
9	1+2		cardiac innervation and control of heart rate		
10	1+2		cardiac reflexes		
11	1+2		systemic circulation		
12	1+2		blood pressure regulation		
13	1+2		physiology of microcirculation (starling law of capillary) venous		
14	1+2		circulation and venousreturn		
15	1+2		coronarycirculation spirometeryandlungvolumes		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name: Basics of Anesthesia (1)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: ali talib mohammed
8. Course Objectives

Course Objectives	Provide an overview of the history of anesthesia a its types

	Handling the patient before anesthesia. Knowledge of all types of narcotic substances. Knowing how to use some equipment for anesthesia and operations

9. Teaching and Learning Strategies

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

10. Course Structure

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

15	1+2		Muscle relaxants (in details) & reversal		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:	
Medical terms	
2. Course Code:	
3. Semester / Year:	
1st Semester	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 Hours/3	
7. Course administrator's name (mention all, if more than one name)	
Name: alaa kazim	
8. Course Objectives	
Course Objectives	**The objectives of the study subject are for the student to be able to distinguish roots and**

	suffixes And prefixes and word endings for medical terms

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		**Bachelor's**	Introduction-structural analysis Basic rules of medical word Building	Theoretical + practical	Exams
2			Major suffixes- suffixes denoting a state or condition		
3			Major suffixes-suffixes denoting medical actions		
4			Prefixes- prefixes of No.& measures		
5			Prefixes- prefixes of type Roots		
6			Word terminals Conditions		
7			The body as a whole. Skin & its appendages		
8			Gastrointestinal Tract Respiratory system		
9			Cardiovascular System Blood & lymphatic system		
10			Musculoskeletal system Urogenital system.		
11			Endocrine system		
12			Nervous system		
13			Special senses		
14			Oncology		
15			Speciality related termes		

11. Course Evaluation

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

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

Course Description Form

1. Course Name:	
Baath Party crimes	
2. Course Code:	
3. Semester / Year:	
2nd Semester	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 Hours/3	
7. Course administrator's name (mention all, if more than one name)	
Name: haider jassim	
8. Course Objectives	
Course Objectives	**The objectives of the study material are to ma the student aware of the heinous crimes**

	committed by the henchmen of the defunct Baath Party

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	**Bachelor's**	A glimpse into Iraq's modern history	Theoretical	Exams
2			A glimpse into the history of the Baath Party		
3			Violation of rights and freedoms		
4			The impact of the Baathist regime's behaviors on society		
5			Psychological mechanisms in controlling judgment		
6			The transitional period and the fight against tyranny		
7			Social mechanisms in controlling governance		
8			The Baath Party's position on religion		
9			Culture, media, and the militarization of society		
10			Culture, media, and the militarization of society		
11			Use of internationally prohibited weapons		
12			scorched earth policy		
13			Drying of marshes and forced displacement		
14			Destruction of the agricultural and animal environment		
15			Mass graves and bombing of places of worship		

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Platform for the crimes of the defunct Baath Pa (Ministerial Book)
Main references (sources)	The principle of biostatistics
Recommended books and references (scientific journals, reports…)	Books and references on statistics
Electronic References, Websites	Internet network

Second Stage /Second Course

Course Description Form

1. Course Name:
Basic of Anesthesia (2)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: ali talib
8. Course Objectives

Course Objectives	Learn about all anesthesia medications and their uses Able to deal with some anesthesia and recovery devices. Resuscitate the patient. The ability to manage a patient when an emergency occurs.

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1+2	**Bachelor's**	Drugs used in premedication &sedative, analgesic drugs in details.	Theoretical + practical	Exams
2	1+2		Drugs used in premedication &sedative, analgesic drugs in details.		
3	1+2		Drugs used in premedication &sedative, analgesic drugs in details.		
4	1+2		An aesthetic crisis[laryngospasm, bronchospasm, hypoxia during anesthesia, malignant hyperthermia]		
5	1+2		An aesthetic crisis[laryngospasm, bronchospasm, hypoxia during anesthesia, malignant hyperthermia]		
6	1+2		Intravenous fluid type and usage.		
7	1+2		Intravenous fluid type and usage.		
8	1+2		Blood and blood product		
9	1+2		Blood and blood product		

10	1+2		Surgical position and their complications		
11	1+2		Surgical position and their complications		
12	1+2		Cardiopulmonary resuscitation and CPR		
13	1+2		Cardiopulmonary resuscitation and CPR		
14	1+2		Intraoperative patient monitoring		
15	1+2		Safety measures in operating room		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
principle of Internal Medicine
2. Course Code:
3. Semester / Year: First Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Lecture and Lab attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
4 per week Total unit 30 Lecture 30 Lab
7. Course administrator's name (mention all, if more than one name)
Name: hasineen ahmed Raheem
8. Course Objectives

Course Objectives	Understand clinical features and diagnosis of impor diseases looking for common social med problemsand understand the important medical te and be aware of the responsibility he may face in fut

9. Teaching and Learning Strategies

Strategy	Student can make differences between the different diseases and aware of serious symptoms and signs and to know How investigations can help in diagnosis

10. Course Structure

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
1	4	Introduction to infectious diseases	Infection	Lecture and Lab	test
2		Diagnostic test Bacteramia septicemia	Infection	Lecture and Lab	Home work Test
3		Introduction to Respiratory diseases	Respiratory	Lecture with Lab	Oral test Exam
4		Major features respiratory diseases	Respiratory	lecture with Lab	Test
5		Diagnostic investigation and Pulmonary funct Test	Respiratory	lecture and lab	Presentation group
6		Introduction to CVS	Cardiology	lecture and Lab	Test
7		Features of CVD Investigations	Cardiology	lecture and Lab	Oral test
8		ECG Principles	Cardiology	Lecture	Tests
9		AIDS	Infection	Lecture	Test

10		Introduction to GIT Diseases	Gastroenterology	Lecture and Lab	Presentation group
11		Features of GIT Diseases a investigations	Gastroenterology	Lecture and Lab	Test
12		Liver diseases Bilirubin metabolism	Gastoenterology	lecture and lab	Oral test
13		Features of liver Diseases a investigations	Gastroenterology	lecture and lab	Test
14		Introduction kidney diseases	Renal	lecture and lab	Test
15		Features and Investigations renal diseases	Renal	lecture and lab	Group Presentation

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Pharmacology (2)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: Dr.ali salh

8. Course Objectives

Course Objectives	The general goal is to familiarize the student with medications and emphasize the medications used anesthesia Special goals: At the end of the year, the student will be able to 1. Identify the use of different groups of medications. 2. Knowing the side effects of medications and t effect of high doses on the body (toxicology) .3. Distinguish the different types of antibiotics a their uses.

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1 2	2theoretical + 3 practical	**Bachelor's**	Hypnotic and sedative drugs Hypnotic and sedative drugs	Theoretical + practical	Exams
3			Narcotic (Opioid), analgesic		
4			Analgesic, antipyretic an anti-inflammatory agents		
5	1+2		Analgesic, antipyretic an anti-inflammatory agents		
6	1+2		Gastrointestinal and Antiemetic Drugs		

7	1+2		Gastrointestinal and Antiemetic Drugs		
8	1+2		Drugs for Diabetes		
9	1+2		Adrenal hormones Corticosteroids- -Inhibitors of adrenocorticoid biosynthesis or function		
10	1+2		Antimicrobial agents: Cell wall inhibitors- Protein synthesis .inhibitor- Quinolones and folic acid antagonists-		
11	1+2		Antimicrobial agents: Cell wall inhibitors- Protein synthesis .inhibitor- Quinolones and folic acid antagonists-		
12	1+2		Antifungal drugs- Antiviral drugs-		
13	1+2		Anti-Epileptic drugs		
14	1+2		Anti-Parkinson's drugs		
15	1+2		Clinical toxicology		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Applied physiology (2)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name:Mohahnad Yahia Edrees

Email: Mohanadyedrees2015@gmail.com

8. Course Objectives

Course Objectives	Objectives of the academic subject: General objective: At the end of the academic year, the student will be able to… Understanding the functions of different body systems and dealing with situations Emergency and pathological cases and their relationship to anesthesia Special goals: 1- The student learns about the importance and function of some vital body systems, such as the respiratory system And the heart and blood vessels and their relationship with anesthesia 2- To be able to identify some disorders and pathological conditions in these vital organs and their effects On the nature of anesthesia 3- To be able to use devices and tools in the laboratory 4- To be able to perform various clinical examinations of the body.

9. Teaching and Learning Strategies

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

10. Course Structure

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

1	2 theoretical + 3 practical	**Bachelor's**	Lung mechanics (compliance,resistant)	Theoretical + practical	Exams
2			ventilation perfusion		
3			preoxygenation,apnenic oxygenation and diffusion hypoxia		
4			transport of gases(02,CO2)		
5			systemic effect of hypoxia and hyperoxia		
6			control of ventilation		
7			non respiratory function of lung		
8			preoperative smoking and physiological effects of cessation of smoking		
9			thermoregulatory response to prevent hypothermia and hyperthermia		
10			heat loss during anaesthesi		
11			body fluids and electrolvtes		
12			vomiting and dehvdration		
13			acid base balance		
14			cerebral physiology		
15			physiological differences between child and adult in general		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Basics of anesthesia Equipment Technique (2)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: hasineen ahmed Raheem
8. Course Objectives

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

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2 3+4	2 theoretical + 3 practical	**Bachelor's**	Atmospheric pollution, measurement and control of pollution, scavenging system Infusion equipment: patient control analgesia, filtration, auto transfusion	Theoretical + practical	Exams

5+8			The supply of anaesthetic gases, cylinders, oxygen concentrator Medical gas services, bulk storage, and supply of gases, piped medical vacuum, electrical supply Distribution of pipework, terminal outlet Flexible pipeline, test and check for medical gas pipeline		
9+10			Vaporizer: law of vaporization, vaporizing system, types of vaporizers Factors affecting vaporizer performance, calibration of vaporizer, filling of vaporizer		
11			Flowmeter and flow control(needle) valves		
12+13			Pressure gauge and reducing valve		
14+15			Cleaning and sterilization: decontamination, disinfection and sterilization		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

13. Course Name:
Principles of Surgery
14. Course Code: second
15. Semester / Year: second
16. Description Preparation Date:
17.Available Attendance Forms:
18.Number of Credit Hours (Total) / Number of Units (Total)
19. Course administrator's name (mention all, if more than one name)
Name: Muayad Alkhafaji Email: muayadalkhafaji@alkafeek .edu.iq

20. Course Objectives

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

21. Teaching and Learning Strategies

Strategy	To prepare the student to be familiar with the principles and ba s of surgery and how these basics are related to anesthesia.

22. Course Structure: lectures, seminars, and homework

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio n method
1 2 3 4 5 6 7 8 9 10	2 lectures 2 practice	Bachelor	Principles of pediat surgery. Warfare surgery. Day case surgery. Reaction of body t injury. Infection of joint a bone. Ulcer, sinuses, fistu Type of surgical disease (hereditary congenital, acquire Sterile precaution a AIDS. Calcium metabolis calcification. Coagulopathy and blood dyscrasia in surgery. Specific infection.	Lectures and pract	Ex ar

11 12 13 14 15			Types of bacteria (surgical microbiology. Venous disease, thrombophlebitis, and venous thrombosis. Oncology. Abortion, CS, hysterectomy.		

23. Course Evaluation

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

Required textbooks (curricular books, if any)	1-Basic Surgical Technique. Fiona Myient Seventh edition. 2-Textbook of surgery. COURTNEY TOWNSEND, JR., MD,21 edition, 2022
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	

Course Description Form

24. Course Name:
Statistics
25. Course Code:
26. Semester / Year:
2nd Semester
27. Description Preparation Date:
19−3−2024
28. Available Attendance Forms:
Classes
29. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
30. Course administrator's name (mention all, if more than one name)
Name: hosaain Fadhil

31. Course Objectives

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

32. Teaching and Learning Strategies

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

33. Course Structure

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

34. Course Evaluation

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

35. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	• Professor Dr.Amjed Doud Niazi: statistical analysis in medical researchers)2nd edition ,March2004. • Wayne W. Danieal (BIOSTATISICS)Basic Concepts and Methodology for the Health Sciences ,9th edition,2010.
Main references (sources)	The principle of biostatistics
Recommended books and references (scientific journals, reports…)	Books and references on statistics
Electronic References, Websites	Internet network

Third Stage /first Course

Course Description Form

36. Course Name:
Anesthesia
37. Course Code:
38. Semester / Year:
2nd Semester
39. Description Preparation Date:
2024
40. Available Attendance Forms:
Classes
41. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
42. Course administrator's name (mention all, if more than one name)
Name: ameer hameed
43. Course Objectives

Course Objectives	**General goal: – To familiarize the student with anesthetic materials and devices used, to prepare the patient before the operation, to monitor him during the operation, and to care for him upon recovery.** **Special objective:–** **At the end of the year, the student will be ab to:** **Identify the different types of anesthetics.** **Giving anesthetic doses in the required amounts.** **Patient care depends on the nature of the operation.** **Monitoring the patient during the operation a upon recovery**

44. Teaching and Learning Strategies

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

45. Course Structure

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

13			Controlled Hypotensive Anesthesia		
14			Preoperative assessment		
15			Anesthesia for obstetric & Gynecology		

46. Course Evaluation

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

47. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013 –Clinical anesthesia, eighth edition4 Paul G. Barash, MD et a.l 2017.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

13. Course Name:
Basic of intensive care (1)
14. Course Code:
15. Semester / Year:
2nd Semester
16. Description Preparation Date:
2024
17.Available Attendance Forms:
Classes
18.Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
19. Course administrator's name (mention all, if more than one name)
Name: hasineen ahmed
20. Course Objectives

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

21. Teaching and Learning Strategies

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

22. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		**Bachelor's**		Theoretical + practical	Exams
2			ICU organization, design, addmision and discharge criterias		
3			ICU organization, design, addmision and discharge criterias		
4			transport of critically ill patients		
5			preventive practices(occupational exposures,alimentary and venous thromboembolism prophylaxis)		
6			preventive practices(occupational exposures,alimentary and venous thromboembolism prophylaxis)		
7			sedation and analgesia in the ICU		
8			oxygen therapy and non invasive ventilation		
9			oxygen therapy and non invasive ventilation		
10			ICU mechanical ventilation(indications,modes of		

			ventilation,weaning and complications)		
11	1+2		mechanical ventilation(indications,modes of ventilation,weaning and complications)		
12	1+2		preventivemechanical ventilation(indications,modes of ventilation,weaning and complications)		
13	1+2		nutrition in the ICU		
14	1+2		nutrition in the ICU		
15	1+2		mecclinical monitoring in ICU(respiratory monitoring,cardiovascular monitoring,hemodynamic and cranial monitoring)		

23. Course Evaluation

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

24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Clinical anesthesiology, fifth edition, Morgan &Mikhail's, 2013 –Clinical anesthesia, eighth edition4 Paul G. Barash, MD et a.l 2017.
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Internet network

Course Description Form

25. Course Name:
Medicine
26. Course Code:
27. Semester / Year:
2nd Semester
28. Description Preparation Date:
2024
29. Available Attendance Forms:
Classes
30. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
31. Course administrator's name (mention all, if more than one name)
Name: odie Jameel

32. Course Objectives

Course Objectives	**General goal: To familiarize the student with a chronic diseases that affect the body's organs and blood.** **Special goals:** **At the end of the year, the student will be abl to distinguish signs of the symptoms that affe him.** **1-Respiratory system.** **2-Digestive system.** **3-The renal and urinary system and kidney diseases.** **4- Liver diseases.** **5-Endocrine diseases.**

33. Teaching and Learning Strategies

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

34. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1		**Bachelor's**		Theoretical + practical	Exams
2			ICU Jaundice: classification, causes, clinical features, diagnosis.		
3			Peptic ulcer disease : Duodenal ulcer, Gastric ulcer		
4			Cerbrovascular accident		
5			Renal failure: acute renal failure, chronic renal failure: clinical features, investigations and treatment.		
6			Ischemic heart diseases: clinical features, diagnosis, treatment.		
7			Arrhythmias: cardiac arrest.		
8			Heart failure: definition, classification, causes,		

			precipitating factors, investigations, treatment.		
9			Hypertension: definition, types: primary and secondary hypertension. complications, investigations/ treatment.		
10			Infections of the respiratory tract: upper respiratory tract infections. Lower respiratory tract infections: pneumonia.		
11	1+2		ICU Jaundice: classification, causes, clinical features, diagnosis.		
12	1+2		Peptic ulcer disease : Duodenal ulcer, Gastric ulcer		
13	1+2		Cerbrovascular accident		
14	1+2		Renal failure: acute renal failure, chronic renal failure: clinical features, investigations and treatment.		
15	1+2		Ischemic heart diseases: clinical features, diagnosis, treatment.		

35. Course Evaluation

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

36. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Surgery
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: mouaad alkafaji
8. Course Objectives

Course Objectives	**Introducing the student to the various organs the body, the impact of injuries and diseases them from an anatomical and physiological perspective, and the consequences (complications) resulting from them. Also teaching the student the symptoms and signs these conditions and the basic frameworks fo how to deal with them. Introducing the stude to cases that require surgical intervention and explaining the nature of this intervention (wha they may encounter while working in operatio and intensive care), with a focus on emergenc cases. At this stage, the digestive, urinary, respiratory and vascular systems (heart) are studieds.**

9. Teaching and Learning Strategies

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

10. Course Structure

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

12	1+2		Vermiform appendix , peritoneum		
13	1+2		Rectum & anus		
14	1+2		Abdominal wall & Hernia		
15	1+2		Breast		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Anaesthetic Equipments Technology (1)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: ameer hameed
8. Course Objectives

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

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2+3+ +5			Airway management device: supra glottis device, laryngeal mask all types, i-gel ,cobra airway, combetube ...etc		
6+7+8			Endotracheal tubes for special purpose, double lumen tube		
9+10+11			Laryngoscope modification, aids to intubation, emergency airway		
12+13+14			Oesophagus Humidifier and nebulizer: definition, importance of humidification Classification and examples of humidifier and nebulizer		
15			Medical suction apparatus, component, choice, standard and testing		

11. Course Evaluation

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

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

Course Description Form

1. Course Name:
Computer Applications
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: hosaain Fadhil
8. Course Objectives

Course Objectives	**At the end of the year, the student should be able to:**

	1. Knowing the components of the calculator and how to enter data, distinguish its types, save it, and retrieve it. **2. Benefit from statistical and educational programs and graphs.** **3. Conducting applications and dealing with commands on the computer.**

9. Teaching and Learning Strategies

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

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			The statistical program SPSS, the concept of the program, its operation, steps of data analysis.		
2			- Identifying the components of the main screen, entering data, saving and retrieving data, types of data (direct or calculated).		
3			- Sorting and altering data, determining the statistical procedure through the statistical topics that the student addresses in statistics lessons.		
4			- How to insert a variable or case, merge files, analysis, descriptive statistics.		
5			- Identify the statistical summary of the given data (summary) and benefit from the data it provides in exploring (Explore) data or reports related to columns (Columns) or rows (Rows).		
6			- Conducting some non-parametric tests such as (Chi Square)		

7			- Quality control panel applications.		
8			- Dealing with charts such as bar chart, pie chart, histogram, line graph, scatter diagram, and others.		
9+10			Handling orders: 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).		
11+12+13			Encyclopedia of Human body program		
14			Identify the vocabulary of the human body and benefit from the presentation methods it provides		
15			Bodyworks, the modern version that works under the Windows environment		

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Third Stage /second Course

Course Description Form

1. Course Name:
Anesthesia(2)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: ameer hameed
8. Course Objectives

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

	Monitoring the patient during the operation a upon recovery.

9. Teaching and Learning Strategies

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

10. Course Structure

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Basics of Intensive Care (2)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: hasineen ahmed Raheem
8. Course Objectives

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

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

10. Course Structure

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

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Medicine (2)
2. Course Code:
3. Semester / Year:
2nd Semester
4. Description Preparation Date:
2024
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours/3
7. Course administrator's name (mention all, if more than one name)
Name: odie jameel
8. Course Objectives

Course Objectives	**General goal: To familiarize the student with a chronic diseases that affect the body's organs and blood.** **Special goals:** **At the end of the year, the student will be abl to distinguish signs of the symptoms that affe him.** **1- Respiratory system.** **2- Digestive system.** **3- The renal and urinary system and kidney diseases.** **4- Liver diseases.** **5- Endocrine diseases.**

9. Teaching and Learning Strategies

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

10. Course Structure

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Electronic References, Websites	Internet network

Course Description Form

1. Course Name:	
Surgery (2)	
2. Course Code:	
3. Semester / Year:	
2nd Semester	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 Hours/3	
7. Course administrator's name (mention all, if more than one name)	
Name: mouaad alkafaji	
8. Course Objectives	
Course Objectives	**Introducing the student to the various organs the body, the impact of injuries and diseases them from an anatomical and physiological perspective, and the consequences (complications) resulting from them. Also teaching the student the symptoms and signs these conditions and the basic frameworks fo how to deal with them. Introducing the stude to cases that require surgical intervention and explaining the nature of this intervention (wha they may encounter while working in operatio and intensive care), with a focus on emergenc cases. At this stage, the digestive, urinary, respiratory and vascular (heart) systems are studied**
9. Teaching and Learning Strategies	

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

10. Course Structure

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:	
Anaesthetic Equipments Technology (2)	
2. Course Code:	
3. Semester / Year:	
2nd Semester	
4. Description Preparation Date:	
2024	
5. Available Attendance Forms:	
Classes	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 Hours/3	
7. Course administrator's name (mention all, if more than one name)	
Name: ameer hameed	
8. Course Objectives	
Course Objectives	**Specific objectives: Introduction to all medical devices used in anesthesia.** **Special goals:-** **At the end of the academic year, the student will be able to:** **1- Use all different anesthesia devices.** **2- Maintenance and maintenance of all anesthesia equipment.** **Introducing all parts of medical devices used anesthesia and their techniques.**
9. Teaching and Learning Strategies	
Strategy	Adopting the method of delivering lectures and linking each topic with examples from a real work situation.

10. Course Structure

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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