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

2026

Introduction:

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

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

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

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

Concepts and terminology:

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

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

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

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

Program Objectives:

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

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

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

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

Academic Program Description Form

University name: Al-Kafeel University.

College/Institute: College of Health and Medical Technologies.

Scientific Department: **Department of cardiac care Technology**

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

Name of final degree: Bachelor of cardiac **care Technology**

Academic system: **semester**

Description preparation date: 12 / 9 /2026

File filling date: 19/ 9/2026

Signature:

Head of Department Name:

proff.Dr.Israa Abdul-Ameer

Date: 20-9-2026

Signature:

Scientific Associate Name:

proff.Dr.Sddiq Ghani Joda

Date:

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Signature:

Asst. Lecturer Ali Najh Abbas

Date:

Approval of the Dean

1. Program Vision

To make the Department of Cardiac Care Technology a distinguished model in preparing specialized graduates in this field, in accordance with medical sustainability systems and Islamic values to serve the community.

2. Program Mission

The department aims to qualify students with sufficient scientific knowledge and practical skills in cardiac care technologies through the use of advanced training methods, while adhering to professional ethics and Islamic values to promote the health of individuals and the community.

3. Program Objectives

1. Develop students' scientific and practical skills in the diagnosis and care of heart diseases.
2. Update curricula in line with the latest technologies and global standards.
3. Promote applied scientific research in the field of cardiac diseases and cardiac rehabilitation.
4. Establish partnerships with health and academic institutions to enhance practical training and field experience.
5. Strengthen Islamic values and professional ethics in the practice of technical work.

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

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

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	1	1	6%	Guidance optional
College Requirements	1	5	7%	
Department Requirements	–––	–––	––	
Summer Training	––	––	––	
Other				

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

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
Year one		Anatomy I	2	4
		Physiology I	2	4
		Chemistry	2	4
		Biology	2	4
		computer principles	1	2
		Arabic language	2	–
		Medical Terminology I	1	
		Human rights	2	4
		Medical Physics	2	4
		Anatomy II	2	4
		Physiology II	2	4
		Biochemistry	2	4
		Pathology and Hematology	2	–
		Medical Terminology II	1	–
Year two		Basics of Cardiology I	2	4
		Basics of Cardiac Care Devices I	2	4
		Microbiology	2	4
		Pharmacology	2	4
		Crimes of the Baath Regime in Iraq	2	–
		Arabic Language	2	–
		Epidemiology and Research Methods	2	4
		Computer Principles	1	2
		Medical Ethics	2	–
		Cardiac Medications	2	4

8. Expected Learning Outcomes of the Program

Knowledge:

Anatomy / Biology / Physiology:	To acquire a comprehensive understanding of the structure and function of the human body at the cellular, tissue, organ, and systemic levels.
Pathology and Hematology	To understand pathological changes in cells and tissues and the mechanisms of disease development for clinical application, and to acquire knowledge of the formation and functions of blood cells and the diagnosis of blood diseases through basic laboratory tests.
Skills:	
Chemistry / Physics	To understand the chemical processes occurring inside and outside the human body, and to gain knowledge of human body physics by understanding the natural structure and function of the body, the major organ systems, and the physical laws governing them.
Computer Fundamentals:	o enable the student to efficiently use computers and basic software in academic and medical tasks.
Values	
Medical Terminology and Professional Behavior:	To excel in mastering medical terminology for accurate documentation and discussion of patient cases.
Arabic Language:.	To master linguistic communication and academic writing skills for clear expression of medical ideas and concepts
Human Rights:	To uphold ethics, ensure patient confidentiality, obtain informed consent, and maintain professional integrity.

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

9. Small group teaching =

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

10. Evaluation methods Day Examin Coues Examin, Final examin

Implemented at all stages of the program in general.

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

11. Faculty

Faculty Members

Academic Rank Professor	Specialization Pathology		Special Requirements/ Skills (if applicable) HISTOPSTHOLOGY		Number of the teaching staff 0NE THERORY ONE PRACTIC	
	General	Special			Staff	Lecturer
Prof. Dr. Ali Khalaf Hassan	Ph.D.	Physics			✓	
Asst. Dr. Israa Hamza Jassim	Ph.D.	Biology			✓	
Prof. Dr. Israa Abdul Ameer Flaih	Ph.D.	Biology			✓	
Mohammed Sarem Hamza	M.Sc.	Biology				
Muntaha Abdullah Reshaan	Ph.D.	Nursing			✓	
Ali Abas thabban	M.Sc.	Law			✓	
Mohammed Murtadha Jabbar	M.Sc.	Nursing			✓	
Mohammed Atheer Naji	M.Sc.	Physics			✓	
Mohammed Sarem Hamza	M.Sc.	Medical terminology			✓	
Ruqaya Alaa Meiri Mohammed	M.Sc.	Arabic Language			✓	
Ahmed hamoode	M.Sc.	Chemistry			✓	

Sajad header	M.Sc.	Computer Science			✓	
Kadhim Hamza Jabir	M.Sc.	Medical Laboratory Analysis			✓	
Dr. Hussein Farhan	MCH	Basics of Cardiology				

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/first semester	C111	Biology	Basic	/	/	/		/	/	/		/	/	/	
	C112	Anatomy I	Basic	/	/	/		/	/	/		/	/	/	
	C114	Chemistry	Basic	/	/	/		/	/	/		/	/	/	
	C113	Physiology I	Basic	/	/	/		/	/	/		/	/	/	
	C115	Computer I	Optional			/				/					/
	C118	Medical Terminology I	Optional				/				/				/
	C116	Arabic Language	Optional				/				/				/

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Year One/second semester	C121	Anatomy II	Basic	/	/	/		/	/	/		/	/	/	
	C124	Biochemistry	Basic	/	/	/		/	/	/		/	/	/	
	C123	Medical Physic	Basic		/				/					/	
	C122	Physiology II	Basic	/	/	/		/	/	/		/	/	/	
	C125	Pathology and Hematology	Optional												
	C126	Medical Terminology II	Optional				/				/				/
	C117	Human rights	Optional												

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

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Year Two/first semester	C211	Microbiology	Basic	/	/	/		/	/	/		/	/	/	
	C212	Pharmacology	Basic	/	/	/		/	/	/		/	/	/	
	C213	Basics of Cardiology I	Basic	/	/	/		/	/	/		/	/	/	
	C214	Basics of Cardiac Care Devices I	Basic	/	/	/		/	/	/		/	/	/	
	C215	Crimes of the Baath Regime in Iraq	Optional			/				/					/
	C216	Arabic Language	Optional				/				/				/
	C217	Computer II	Optional			/				/					/

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
Year Two/ second semester	C221	Cardiac Medications	Basic	/	/	/		/	/	/		/	/	/	
	C222	Basics of Cardiology II	Basic	/	/	/		/	/	/		/	/	/	
	C223	Basics of Cardiac Care Devices II	Basic	/	/	/		/	/	/		/	/	/	
	C224	Epidemiology and Research Methods	Basic	/	/	/		/	/	/		/	/	/	
	C225	Medical Ethics	Optional				/				/				/

First Stage /First Course

Course Description Form

1. Course Name:
chemistry
2. Course Code:
3. Semester / Year:year
First /2026
4. Description Preparation Date:
2026
5. Available Attendance Forms: 22/10/2026
6. Number of Credit Hours (Total) /
30 hr /4 unite
7. Course administrator's name (mention all, if more than one name)
Dr.asia ali
8. Course Objectives

Course Objectives	**• Be able to understand the basic principles of general and life chemis and its applications** **• Be able to link the traumatic pain to abnormal changes in ot components of the blood and body** **• Have the ability to collect and treat biological 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	

1. Course Name:
General biology
2. Course Code:
3. Semester / Year:
First /2026
4. Description Preparation
2026
5. Available Attendance Forms:
6. Number of Credit Hours (Total) /
30hr /4 Units (Total) 6
7. Course administrator's name (mention all, if more than one name)
Dr. israa hamza
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

13. Course Name:	
General Physiology	
14. Course Code:	
15. Semester / Year:	
Courses / first course / first stage	
16. Description Preparation Date:	
2026	
17.Available Attendance Forms:	
18.Number of Credit Hours (Total) / Number of Units (Total)	
30hr/4unite	
19. Course administrator's name (mention all, if more than one name)	
A.L. . Kazim Hamza Jubair	
20. Course Objectives	
Course Objectives	• **Identify the principles of physiology and relationship to other sciences.** • **Distinguishing between the normal physiolog state of the body and a pathological condition.** • **To be able to use laboratory devices and tools.** • **Conducting blood tests and other body fluids….**
21. Teaching and Learning Strategies	
Strategy	

22. Course Structure

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

first		Physiology of digestive system, organs of digestion, functions Accessory organs of digestion and function			
second		Steps of digestion (carbohydrate, protein, fat digestion and absorption)			
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		Endocrine system control of hormone, types and secretion Hormonal secretion form different glands			
Eighth		Reproductive system, male and female reproductive system Skeletal system physiology.			

ninth tenth		Special sense physiology (vision, hearing, smell and taste).			

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)	
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:	
3. Semester / Year:	
The first stage/first semester	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Is mandatory	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30HR/2 Unite	
7. Course administrator's name (mention all, if more than one name)	
Msc sajad hadar	
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	Bachelor's	1theoretical + 2 practical	1	
	Computer advantages and areas of use. Computer classification in terms of purpose, size and type of data			2	
	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:
Anatomy
2. Course Code:
3. Semester / Year:
Courses / first course / first stage
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Theory and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30hr/4unite
7. Course administrator's name (mention all, if more than one name)
Dr. Muntahaa abdullah
8. Course Objectives

Course Objectives	**• Identify the principles of anatomy and 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, 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
		CNS structure and functions PNS spinal nervues Sensory a motor nerves systems GIT sys GIT system ; parts and struc of wall and stomac Salivary gland structure pancreases and Gall Bladc Liver anatomy structure a functions Urinary system kidney , ure urinary bladder , urethr Muscular system Reproductive system - ma genitalia . Female reproduc organs Endocrine glands- anatomy function Endocrine glands- anatomy function . Special sense anat Skeletal system anatomy . Th development and inheritan			

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Arabic language
2. Course Code:
3. Semester / Year:
First course
4. Description Preparation Date:
2026
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: Ruqayyah Alaa Miri
8. Course Objectives

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

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

10. Course Structure

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

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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

Course Description Form

1. Course Name:
Medical terms I
2. Course Code:
3. Semester / Year:
1st Semester
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Classes
6. Number of Credit Hours (Total) / Number of Units (Total)
15 Hours/1 unite
7. Course administrator's name (mention all, if more than one name)
Name: dr. Mohammed Sareem Hamza
8. Course Objectives

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

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

10. Course Structure

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

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

11. Course Evaluation

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

12. Learning and Teaching Resources

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

First Stage /Second Course

Course Description Form

1. Course Name:
Anatomy(2)
2. Course Code:
3. Semester / Year:
Courses / second course / first stage
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Theory and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30 HR/ units: 4
7. Course administrator's name (mention all, if more than one name)
Name: Dr. muntahaa abdullah

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, location, and function…..**

9. Teaching and Learning Strategies	
Strategy	

10. Course Structure

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

		CNS structure and functions PNS spinal nerves Sensory and moto nerves systems GIT system ; parts a structure of wall ar stomach Salivary gland structure , pancreas and Gall Bladder . Liver anatomy structure and functi Urinary system kidn , ureter , urinary bladder , urethra Muscular system | Reproductive syste - male genitalia . Female reproducti organs . Endocrine glands anatomy and functi Endocrine glands anatomy and functi 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

12. Course Name:
Physiology
13. Course Code:
14. Semester / Year:
Courses / second course / first stage
15. Description Preparation Date:
2026
16.Available Attendance Forms:
Theoretical and practical lectures
17.Number of Credit Hours (Total) / Number of Units (Total)
30 hours, number of units: 4
18. Course administrator's name (mention all, if more than one name)
A.l Kazim Hamza Jubair
19. Course Objectives

Course Objectives	• **Identify the principles of physiology and its relationship to other sciences.** • **Distinguishing between the normal physiologica state of the body and a pathological condition.** • **To be able to use laboratory devices and tools.** • **Conducting blood tests and other body fluids…**
20. Teaching and Learning Strategies	
Strategy	
21. Course Structure	

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

		Definition of physiolo cell physiology; cell membrane componen and structure. Movement of fluid, solutes and gases acro the cell membrane. Muscular system: type & characteristics. Contraction mechanis fatigue, muscular pain Types of nerve cells, functions of nerve impulse, synapses and reflexes Action potential of nerve and muscle fibe Blood; functions, component, plasma ar serum Red blood cells, shape origin, Hb structure ar Anemia W.B.Cs, platelets; functions, origin, structure Blood clotting mechanism Cardiovascular system,heart valve cycle, HR conductive system.			

		Heart sounds and murmers, ECG Blood pressure Respiratory system, Pleura, Types of mechanism of respiration. Oxygen Transporting and exchange Carbon dioxide transporting and exchange, Lung V and capacity, types of Hypoxia			

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	Internet

Course Description Form

24. Course Name:	
Medical Physics	
25. Course Code:	
26. Semester / Year:	
The second course / 2026	
27. Description Preparation Date:	
2026	
28.Available Attendance Forms:	
Class Attendance	
29.Number of Credit Hours (Total) / Number of Units (Total)	
30 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 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 10. Nanotechnolog y to Hydrogen production	Lectures, discussion, questions.	Group work exercises, daily (oral and written) and monthly exa

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

36. Course Name:	
Human right	
37. Course Code:	
38. Semester / Year:	
The second course / 2026	
39. Description Preparation Date:	
2026	
40.Available Attendance Forms:	
Class Attendance	
41.Number of Credit Hours (Total) / Number of Units (Total)	
30ht/2unite	
42. Course administrator's name (mention all, if more than one name)	
2. Name: MSc Ali thabban	
43. Course Objectives	
Course Objectives	enable the student to understand the fundamental **-1** principles of human rights. enable the student to distinguish between media **-2** nipulations that contradict human rights and those that align with them. develop an aware individual who understands his **-3** rights and responsibilities
44. 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 o up-to-date information about medical physics are not included in the prescrib curriculum.

45. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-13	2 theoretical		1. The Concept of Human Rights 2. The Fundamental Characteristics of Human Rights 3. Types of Human Rights 4. Categories of Human Rights 5. Human Rights in Ancient Civilizations 6. Human Rights in the Middle Ages 7. Human Rights in Islam and the Divine Religions 8. Human Rights in Renaissance Societies 9. Human Rights in the Modern Age 10. Human Rights in the Modern Ages (Part 2) 11. Non-Governmental Organizations and Human Rights 12. Guarantees for the Respect and Protection of Human Rights at the National and International Levels 13. Water and Environmental Awareness in Iraq 14. Water and Environmental Awareness in Iraq (Part 2) 15. The Concept of Equality	Lectures, discussion, questions.	

46. Course Evaluation

The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc.

47. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Human Rights: A New Vision: Moncef Marzo
Main references (sources)	Introduction to Understanding the Human Rights Syst Mohamed Sayed Saeed
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	The State and Democracy: Jamil Hilal

Course Description Form

48. Course Name:	
Medical terminology II	
49. Course Code:	
50. Semester / Year:	
The second course / 2026	
51. Description Preparation Date:	
2026	
52.Available Attendance Forms:	
Class Attendance	
53.Number of Credit Hours (Total) / Number of Units (Total)	
15hr/1 unite	
54. Course administrator's name (mention all, if more than one name)	
Dr. Mohammed Sareem Hamza	
55. Course Objectives	
Course Objectives	e student should be able to distinguish roots, suffixes, .prefixes, and word endings in medical terms
56. 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 o up-to-date information about medical physics are not included in the prescrib curriculum.

57. Course Structure

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

1-13	2 theoretical		Introduction-structural analysis - Basic rules of medical word Building. Major suffixes- suffixes denoting a state or condition Word terminals. Conditions. The body as a whole. Skin & its appendages. Gastrointestinal Tract. Respiratory system. Cardiovascular System. Blood & lymphatic system Musculoskeletal system Urogenital system. Endocrine system. Nervous system. Special senses. Oncology. Speciality related termes.	Lectures, discussion, questions.	

58. Course Evaluation

The grade is distributed out of 100 based on the tasks assigned to the student, such as daily preparation, daily, oral, monthly and written exams, reports, etc.

59. 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

60. Course Name:	
Biochemistry	
61. Course Code:	
62. Semester / Year:	
Courses / first course / first stage	
63. Description Preparation Date:	
2026	
64.Available Attendance Forms:	
Theoretical and practical lectures	
65.Number of Credit Hours (Total) / Number of Units (Total)	
30 hr/ 4 unit	
66. Course administrator's name (mention all, if more than one name)	
Name: dr. asia ali	
67. Course Objectives	
Course Objectives	**1. To be able to understand the basic principles of biochemis and their applications.** **2. To be able to relate diseases to abnormal changes in bl and other body components.** **3. To be able to collect and handle biological samples.** **4. To be able to use and maintain necessary equipment tools.** **5. To be able to quantify and characterize the component blood and other body fluids.** **6. To be able to work safely in laboratories.**
68. Teaching and Learning Strategies	
Strategy	
69. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
first second third fourth fifth sixth Seventh		Metabolism of protein abnormalities. Enzymes, definition, classification, general properties, function. Factors affecting enzymes activity, enzyme inhibition. Enzymes in clinical diagnosis. Vitamins and coenzymes, fat soluble vitamins, water soluble vitamins. Nutrition and energy requirements. Hormones, definition, chemical nature, steroid hormones, proteins, amines. Liver function tests, bilirubin, conjugated and non conjugated, bile pigment, Brom Sulfone Phthalien (BSP), diagnosis of various types of jaundice. Liver diseases, hepatitis, cirrhosis, necrosis.			

Eighth ninth tenth eleventh twelfth thirteenth fourteenth Fifteenth		Changes in serum enzymes in liver disease. Biosynthesis and catabolism of faty aci Stroid Biosynthesis, Nitrogen metabolism Kidney function tests, measuring glomerula filtration, tubular filtration, renal blood flow. Formation and composition of urine, changes in urine volume, specific gravi constituents Urea, urea clearance test, creatinine, creatinine clearance test, insulin test phen suifonephalam (PSP), concentration test, dilution test.			

70. 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

71. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.

Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:	
Pathology and Hematology	
2. Course Code:	
3. Semester / Year:	
Courses / first course / first stage	
4. Description Preparation Date:	
2026	
5. Available Attendance Forms:	
Theoretical and practical lectures	
6. Number of Credit Hours (Total) / Number of Units (Total)	
30hr/ 4 unit	
7. Course administrator's name (mention all, if more than one name)	
Asst. Dr. Israa Hamza Jassim	
8. Course Objectives	
Course Objectives	**1. To be able to understand the basic principles of biochemis and their applications.** **2. To be able to relate diseases to abnormal changes in blo and other body components.** **3. To be able to collect and handle biological samples.** **4. To be able to use and maintain necessary equipment a tools.** **5. To be able to quantify and characterize the components blood and other body fluids.** **6. To be able to work safely in laboratories.**
9. Teaching and Learning Strategies	

Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
		Cell Injury and Death Inflammation Healing and Repair Carcinogenesis Neoplasia Genetic Diseases Hemodynamic Disorders I Hemodynamic Disorders II Red Blood Cell Disorders White Blood Cell Disorders Platelet and Coagulation Disorders Cardiovascular and Respiratory Pathology Liver, Pancreas, and GIT Pathology Renal and Urinary Pathology Reproductive, Endocrine, and			

		Nervous System Pathology			

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)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Second Stage /First Course

Course Description Form

72. Course Name:	
Basics of Cardiology I	
73. Course Code:	
74. Semester / Year:	
Courses / first course / second stage	
75. Description Preparation Date:	
2026	
76.Available Attendance Forms:	
Theoretical and practical lectures	
77.Number of Credit Hours (Total) / Number of Units (Total)	
30hr/ 4 unit	
78. Course administrator's name (mention all, if more than one name)	
Dr. Hussein Farhaan	
79. Course Objectives	
Course Objectives	**1. To provide students with foundational knowledge of cardiovascular anatomy a physiology.** ** To foster an understanding of the electrical and mechanical mechanisms of card function.** ** To introduce common cardiovascular diseases and their diagnostic methods.** ** To establish the necessary scientific foundation for advanced topics (ECG, card catheterization, and cardiac critical care).**
80. Teaching and Learning Strategies	
Strategy	

81. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		Introduction to Cardiology; Course overview, importance, historical background, role of the cardiac care technician; Cardiac laboratory safety principles and general safety rules General Anatomy of the Heart; Location, layers, the four chambers.			

		Heart Valves, Great Vessels and Coronary Circulation; Atrioventricular and semilunar valves, aorta, pulmonary artery, right and left coronary arteries and their branches (integrated to serve hemodynamics) Physiology of Cardiac Muscle; Properties of cardiac muscle cells, contraction and relaxation The Cardiac Cycle; Phases of systole and diastole, pressure-volume relationship Cardiac Hemodynamics; Cardiac Output, Stroke Volume, Preload, Afterload, Systemic and Pulmonary Vascular Resistance Heart Sounds; S1 and S2, extra heart sounds, introduction to murmurs Cardiac Conduction System SA node, AV node, Bundle of His, Purkinje fibers; expanded to two weeks covering impulse formation, conduction pathway and its clinical relevance to the technician Principles of ECG — Part 1 and Part 2; Basics of ECG recording, waves (P, QRS, T), time intervals, cardiac axis, standard and precordial leads Principles of ECG — Part 3; ECG quality assessment, calibration, artifact recognition, lead reversal and troubleshooting Regulation of Blood Pressure and Cardiac Function Autonomic nervous system, hormonal regulation Cardiac Risk Factors and Coronary Artery Disease Prevention; Smoking, diabetes, hypertension, obesity, heredity, inactivity, CAD prevention and clinical relevance. Basics of cardiac clinical examination (2 hours); pulse assessment and recognition of arrhythmia and cardiac arrest			
82. 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	
83. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	There is no specific book.
Main references (sources)	Any book that covers the basics of general chemi and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
Basics of Cardiac Care Devices I
2. Course Code:
3. Semester / Year:
Courses / first course / second stage
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Theoretical and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
7. Course administrator's name (mention all, if more than one name)
8. Course Objectives

Course Objectives	**1. To familiarize students with the key medical devices used in the diagnosis, monitori and treatment of cardiac patients** **2. To foster an understanding of the fundamental physical and technical principles underly the operation of each device.** **3.To differentiate between the indications for use and primary components of various card devices.** **4. To equip students with skills in safe operation, calibration, and basic maintenance cardiac equipment.** **5. To prepare students for practical interaction with equipment within cardiac care u (CCUs) and catheterization laboratories.**

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		Introduction to Cardiac Care Devices Importance of cardiac medical devices, general classification, role of			

		the technician; medical device laboratory safety The ECG Machine; Physical principle, electrodes, single-lead, 3-lead, 5-lead and 12-lead types, calibration Non-invasive Bedside Monitoring; Non-invasive blood pressure (NIBP), continuous ECG display, oxygen saturation, temperature, alarm settings and limits Invasive Hemodynamic Monitoring; Pressure transducer principle, leveling and zeroing, connection to the arterial line, arterial waveform interpretation and troubleshooting Defibrillation and Synchronized Cardioversion — Part 1; Physical principle, monophasic and biphasic waveforms, energy selection, synchronized versus unsynchronized shock Defibrillation — Part 2; Automated External Defibrillators (AED), usage and safety protocols Cardiac Pacing — Part 1; Temporary pacemaker, working principle and components, capture and loss of capture Cardiac Pacing — Part 2; Permanent pacemaker, indications for implantation, basic pacing modes Cardiac Catheterization Laboratory — Part 1; Lab layout, catheterization table, fluoroscopy and angiography imaging systems, radiation protection standards Cardiac Catheterization Laboratory — Part 2; Role of the technician in invasive hemodynamic monitoring during catheterization, pressure recording and data documentation Echocardiography and Cardiac Doppler; Ultrasound principle, device components, examination types, Doppler effect and blood flow evaluation			

		Infusion and Syringe Pumps; Precise administration of cardiac medications, types and settings Oxygen Therapy and Ventilatory Support; and Safety, Calibration and Basic Maintenance; Electrical safety standards, periodic inspection, preventive maintenance			

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)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
2. Microbiology
3. Course Code:
4. Semester / Year:
Courses / first course / second stage
5. Description Preparation Date:
2026
6. Available Attendance Forms:
Theoretical and practical lectures
7. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
8. Course administrator's name (mention all, if more than one name)
Asst. Dr. Israa Hamza Jassim
9. Course Objectives

Course Objectives	**1. Distinguish cellular parts and their components.** **2. Identify types of bacteria, parasites, and fungi.** **3. Understand the cellular immune mechanisms against pathogenic organism**
10. Teaching and Learning Strategies	
Strategy	

11. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		The microorganism. Bacteria: classification, structure and functions. Media and culture. Antibiotics and Antibiotic resistance. Fungi: characteristics, reproductive and classification Virus: structure, classification and reproductive. Parasite: introduction, parasite & host relationship, diagnosis. Classes of parasite (protozoa, helminthes and ectoparasites).			

		Helminthes: structure and classification. The immune system, mechanism of immune system (innate and adaptive immunity). Transportation of biological wastes. International Transport Regulations. The Basic Triple Packaging System Antigen, antibody. Antigen - antibodies reaction. Types of biological wastes / Categories of biological wastes. Decontamination of biological wastes Sterilization and Disinfection. Biorisk management system. Assess the capability of the laboratory staff to control hazards. Relation of risk groups to biosafety levels, practices of and equipment. Mitigation Control Measures. Sustainability of the bio-risk management system. Strengthening biorisk management			

12. Course Evaluation

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

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
2. Crimes of the Ba'ath Regime in Iraq
3. Course Code:
4. Semester / Year:
Courses / first course / second stage
5. Description Preparation Date:
2026
6. Available Attendance Forms:
Theoretical and practical lectures
7. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
8. Course administrator's name (mention all, if more than one name)
Lecture Ali abaas
9. Course Objectives

Course Objectives	**General Objective: To introduce students to the crimes committed by the Ba' regime in Iraq.** **Specific Objective: To educate students on the atrocities committed by the Ba'at regime in Iraq, fostering insightful awareness of past events and empower them to actively safeguard against their recurrence in the future.**
10. Teaching and Learning Strategies	
Strategy	

11. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		Crimes of the Ba'ath Regime under the Iraqi Higher Criminal Court Law (2005): Concept and classification of crimes (linguistic and terminological definitions). Ba'ath regime crimes documented under the Iraqi Higher Criminal Court Law No. 10 of 2005.			

		Types of international crimes (Genocide, Crimes Against Humanity, War Crimes). Judicial verdicts and decisions issued by the Higher Criminal Court. Psychological and Social Crimes & Human Rights Violations: Psychological crimes: Mechanisms and long-term impacts. Social crimes and the militarization of society. The Ba'ath regime's policy toward religion. Violations of Iraqi laws, human rights abuses, and state-sponsored atrocities. Key political and military decrees authorizing violations. Imprisonment, detention centers, and torture facilities. Environmental and Ecological Crimes: Military contamination, radiation pollution, and landmine hazards. Destruction of cities and villages (Scorched-Earth Policy). Draining of the Mesopotamian Marshes. Systemic bulldozing of palm groves, orchards, and agricultural lands. Crimes of Mass Graves: Mass grave atrocities and genocide committed by the Ba'ath regime. Chronological and geographical mapping of mass graves in Iraq (1963–2003). Midterm Examination / Coursework Assessment			
12. Course Evaluation					

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
13. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
2. Pharmacology
3. Course Code:
4. Semester / Year:
Courses / first course / second stage
5. Description Preparation Date:
2026
6. Available Attendance Forms:
Theoretical and practical lectures
7. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
8. Course administrator's name (mention all, if more than one name)
9. Course Objectives

Course Objectives	**1.To understand the fundamentals of pharmacol (pharmacokinetics and pharmacodynamics), includ mechanisms of drug action and interaction with the body.** **2. To identify and utilize cardiovascular medications, includ antihypertensives, heart failure drugs, antiarrhythmics, a antianginal agents.** **3. To comprehend the mechanisms of action for diureti blood thinners, and anticoagulants, and their critical role cardiac patient stability.** **4. To recognize adverse drug reactions and provide immedi intervention in cases of toxicity or overdose of comm cardiac drugs (Toxicology).** **5. To study other drug classes (such as respirat medications, antidiabetics, and antibiotics) wi understanding their precautions and side effects on card muscle function.**

10. Teaching and Learning Strategies	
Strategy	

11. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**subject name**	**Learning method**	**Evaluation method**
		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: Mechanism of action, clinical uses, and their direct effects on heart rate and conduction. Adrenergic Agonists and Antagonists: Study of sympathomimetics and sympatholytics (including Beta-blockers) and their vital applications in cardiac care Drugs Affecting the Cardiovascular System: Antihypertensive Drugs: Classes of drugs used to manage high blood pressure. Heart Failure Medications: Inotropes, ACE inhibitors, and ARBs used in managing acute and chronic heart failur Drugs Affecting the Cardiovascular System: Anti-arrhythmic Drugs: Classification and management of cardiac arrhythmias (tachycardia, bradycardia, etc.). Antianginal Drugs: Nitrates and other agents used to manage ischemia and angina pectoris. Renal System and Fluid Balance Diuretics: Types of diuretics (Loop, Thiazide, Potassium-sparing) and their role in managing fluid overload in cardiac patients. Hematological Agents – Antithrombotics Anticoagulants and Antiplatelet Agents: Heparin, Warfarin, DOACs, and Antiplatelets			

		used in preventing and managing myocardial infarction and stroke. Hematological Agents - AnemiaDrugs for Anemia: Management of anemia to improve oxygen-carrying capacity and myocardial perfusion. Pain Management in Cardiac Patients Analgesic, Antipyretic, and Anti-inflammatory Agents: Use of Opioid analgesics and NSAIDs, with a focus on cardiovascular safety and precautions Respiratory Pharmacology Drugs for Disorders of the Respiratory System: Bronchodilators, steroids, and their secondary cardiovascular side effects (e.g., tachycardia, arrhythmias) Endocrine Pharmacology - Adrenal SystemAdrenal Hormones & Corticosteroids: Corticosteroid actions, inhibitors of biosynthesis, and their impacts on fluid retention and blood pressure. Endocrine Pharmacology - Diabetes Drugs for Diabetes: Antidiabetic agents, insulin types, and their significance in protecting against diabetic cardiomyopathy and atherosclerosis Antimicrobial Therapy Antimicrobial Agents: Cell wall inhibitors, protein synthesis inhibitors, quinolones, and cardiac precautions during antibiotic therapy in CCU. Gastrointestinal Pharmacology Gastrointestinal and Antiemetic Drugs: Proton pump inhibitors, H2-blockers, and antiemetics used to prevent stress ulcers and vagal reflex stimulation Emergency Toxicology			

		Clinical Toxicology: Overdose management and toxicity profiles of common cardiac drugs (e.g., Digoxin toxicity, Beta-blocker overdose).			

12. Course Evaluation

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

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
2. Arabic language
3. Course Code:
4. Semester / Year:
Courses / first course / second stage
5. Description Preparation Date:
2026
6. Available Attendance Forms:
Theoretical lectures
7. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
8. Course administrator's name (mention all, if more than one name)
Ruqaya Alaa Meiri Mohammed
9. Course Objectives

Course Objectives	**1.General Objective: To introduce students to grammatical a rhetorical expression.** **2.Specific Objective: To familiarize students with linguis information and corrections in accordance with the rules of language.**
10. Teaching and Learning Strategies	
Strategy	

11. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		Arabic Grammar (Arabic Syntax - Part 1): The Present Tense Verb: Subjunctive (Accusative) and Jussive cases. Genitive Nouns (المجرورات) and Accusative Nouns (المنصوبات). Parts of Speech and their Declension Signs (علامات الإعراب).			

		Declinable and Invariable Words (المعرب والمبني) / Definite and Indefinite Nouns (المعرفة والنكرة). Subject and Predicate (المبتدأ والخبر) and Annullers (النواسخ). Agent and Passive Subject (الفاعل ونائب الفاعل) Rules of Numbers (العدد وأحكامه) and Appositives (التوابع). Arabic Rhetoric: Science of Eloquence (علم البيان): General Introduction to Arabic Rhetoric: Linguistic and terminological definitions, its scope, and relation to the Arabic language. Science of Eloquence (علم البيان): Definition and categories. Simile (التشبيه): Definition, types, and practical applications. Literal Meaning and Metaphor (الحقيقة والمجاز). Linguistic Metaphor (المجاز اللغوي): Definition, relationships, and applications. Metaphor (الاستعارة): Definition, types, and applications. Intellectual Metaphor (المجاز العقلي): Definition, relationships, and applications. Metonymy (الكناية): Definition, types, and applications. Common Linguistic Errors. Linguistic and Orthographic Skills (المهارات اللغوية والإملاء): Rules for writing Open (التاء المفتوحة) and Tied Taa (التاء المربوطة). Rules for writing Extended (الألف الممدودة) and Shortened Alif (الألف المقصورة). Distinguishing between Dhad (الضاد) and Zha (الظاء) Sun and Moon Letters (الحروف الشمسية والقمرية). Rules of Punctuation Marks.			

		Rules for writing Hamza: Initial (همزتا الوصل والقطع), Medial (المتوسطة), and Terminal (المتطرفة). Arabic Lexicography and Dictionaries (المعاجم العربية): Stages of Language Compilation in Arabic history. Dictionaries of Words and Semantics. Lexicographical Methodologies: Studying the schools of Al-Maqayees and Al-Sihah, with practical exercises on word retrieval. Common Linguistic Errors. Arabic Morphology (علم الصرف): Inflection of Nouns: Masculine and Feminine Nouns (التذكير والتأنيث). Primitive (Unaugmented) and Augmented Nouns (التجرد والزيادة). Singular, Dual, and Plural Nouns (الإفراد والتثنية والجمع). Arabic Rhetoric: Science of Embellishment (علم البديع): Science of Embellishment (علم البديع) and its impact on eloquent speech. Semantic Embellishments (المحسنات المعنوية): Double Entendre (التورية), Antithesis (الطباق), Parallelism (المقابلة), Phantastical Aetiology (حسن التعليل), and Praise resembling Blame (تأكيد المدح بما يشبه الذم). Verbal Embellishments (المحسنات اللفظية): Pun/Paronomasia (الجناس), Rhymed Prose (السجع), Quotation from Quran/Hadith (الاقتباس), and Poetic Borrowing (التضمين). Common Linguistic Errors.			

12. Course Evaluation

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

13. Learning and Teaching Resources

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

Main references (sources)	Any book that covers the basics of general chemi and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
2. Computer II
3. Course Code:
4. Semester / Year:
Courses / second course / second stage
5. Description Preparation Date:
2026
6. Available Attendance Forms:
Theoretical and practical lectures
7. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
8. Course administrator's name (mention all, if more than one name)
Msc sajad header
9. Course Objectives

Course Objectives	**1.understand the fundamental principles of biochemistry and their practica applications.** **2. To correlate clinical diseases with abnormal alterations in blood and boc fluid constituents.** **3. To acquire proficiency in collecting, handling, and processing biological specimens.** **4.To effectively operate, maintain, and manage essential laboratory equipment and tools.** **5.To perform qualitative and quantitative estimations of blood components and other body fluids.** **6. To demonstrate safe laboratory practices and adhere to biosafety protoc**
10. Teaching and Learning Strategies	
Strategy	
11. Course Structure	

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		Security and Networking Theory & Practical: Introduction to networks, types of networks (LAN, WAN), and basic network components. Security and Networking Theory & Practical: Network security basics, understanding network threats, and network troubleshooting techniques. E-Commerce & Electronic Banking Theory & Practical: Concepts of electronic banking services, including online banking, ATM and debit card services, phone banking, SMS banking, electronic alerts, and mobile banking Computer Troubleshooting Theory & Practical: Identifying and solving common hardware problems that computer users encounter. Computer Troubleshooting (Part 2 - Software) Theory & Practical: Basic software troubleshooting techniques and tools for diagnosing and resolving operating system and software issues introduction to Artificial Intelligence (AI) Theory & Practical: Definition of AI, history of AI, and core AI techniques and approaches. introduction to AI (Cont.) Challenges and Ethical Considerations Introduction to Artificial Intelligence (AI) Theory & Practical: Definition of AI, history of AI, and core AI techniques and approaches. Introduction to AI (Cont.) Theory & Practical: Challenges and Ethical Considerations. AI in Our Daily Lives Theory & Practical: Practical use of AI in			

		smartphones and virtual assistants like Siri or Google Assistant.. Applications of AI (Part 1)Theory & Practical: AI applications in Education and Healthcare fields. Applications of AI (Part 2)Theory & Practical: AI applications in Finance, Transportation, Marketing, and Advertising. AI and Society Theory & Practical: How AI affects social life, international relations, and the future of humanity. Ethical Challenges in AI Theory & Practical: In-depth discussion on AI ethics, privacy, surveillance, and the impact of AI on the job market. The Future of AI Theory & Practical: Future trends in AI, recent research, and emerging intelligent technologies. Final Review & Practical ExamComprehensive review of all modules and final practical evaluation.			

12. Course Evaluation

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

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Second Stage /second Course

Course Description Form

1. Course Name:
Basics of Cardiology II
2. Course Code:
3. Semester / Year:
Courses / second course / second stage
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Theoretical and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
7. Course administrator's name (mention all, if more than one name)
Dr. Hussein Farhaan
8. Course Objectives

Course Objectives	**1. To provide students with foundational knowledge of cardiovascular anatomy a physiology.** **2. To foster an understanding of the electrical and mechanical mechanisms of card function.** **3. To introduce common cardiovascular diseases and their diagnostic methods.** **4.To establish the necessary scientific foundation for advanced topics (ECG, card catheterization, and cardiac critical care).**

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		General Classification and Epidemiology of Cardiovascular Diseases Classification of cardiac diseases (congenital, acquired, vascular), global and local prevalence, health and economic burden of cardiovascular disease			

		Coronary Artery Disease (CAD) Atherosclerosis, thrombus formation, stable/unstable angina Myocardial Infarction (MI) Types, signs and symptoms, ECG changes Heart Failure Right- and left-sided heart failure, causes, signs and symptoms Cardiac Arrhythmias — Part 1 Tachycardia, bradycardia, atrial fibrillation Cardiac Arrhythmias — Part 2 Ventricular fibrillation, heart blocks Valvular Heart Disease Mitral/aortic stenosis and regurgitation, pathological murmurs Hypertension and its Cardiac Effects Types, cardiac complications, measurement techniques Congenital Heart Disease ASD, VSD, patent ductus arteriosus Basics of Cardiac Pharmacology Anticoagulants, antihypertensives, diuretics, digoxin Inflammatory Heart Diseases Endocarditis, myocarditis, pericarditis Cardiac Emergencies Cardiac arrest, cardiogenic shock, principles of CPR (BLS) Modern Diagnostic Tools Echocardiography, catheterization, stress testing, angiography Review + Second Semester Final Exam Comprehensive coverage of all second semester topics			

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)	There is no specific book.
Main references (sources)	Any book that covers the basics of general chemi and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
Basics of Cardiac Care Devices II
2. Course Code:
3. Semester / Year:
Courses / second course / second stage
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Theoretical and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
7. Course administrator's name (mention all, if more than one name)
8. Course Objectives

Course Objectives	**1. To familiarize students with the key medical devices used in the diagnos monitoring, and treatment of cardiac patients** **2. To foster an understanding of the fundamental physical and technical princip underlying the operation of each device.** **3.To differentiate between the indications for use and primary components of vari cardiac devices.** **4. To equip students with skills in safe operation, calibration, and basic maintena of cardiac equipment.** **5. To prepare students for practical interaction with equipment within cardiac c units (CCUs) and catheterization laboratories.**

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		General Classification of Cardiac Medical Devices Classification by function (diagnostic, therapeutic,			

		monitoring), international regulatory standards (FDA, CE), overview of biomedical engineering principles Holter Monitor Continuous ECG recording principle, indications for use Stress Test / Treadmill Systems System components, testing protocols, safety standards Intra-Aortic Balloon Pump (IABP)Working principle, indications in critical care Implantable Cardioverter Defibrillator (ICD) Working principle, differences from the permanent pacemaker Cardiac Resynchronization Therapy (CRT) Devices Indications in heart failure, basic components Hemodynamic Monitoring Systems Arterial line, Swan-Ganz catheter, CVP measurement Extracorporeal Membrane Oxygenation (ECMO)Overview of the principle and use in critical cases Cardiopulmonary Bypass Machine General principles, role in open-heart surgery Public Access AEDs Importance in community first aid, method of use Telemetry Systems Wireless transmission of cardiac data within medical units Electrical Safety and Infection Control Electrical hazards, sterilization and infection prevention protocols Emerging Technologies in Cardiac Care Devices Wearable			

		devices, remote cardiac monitoring Review + Second Semester Final Exam Comprehensive coverage of all second semester topics			

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)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
Epidemiology and Research Methods
2. Course Code:
3. Semester / Year:
Courses / second course / second stage
4. Description Preparation Date:
2026
5. Available Attendance Forms:
Theoretical and practical lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
7. Course administrator's name (mention all, if more than one name)
8. Course Objectives

Course Objectives	**To introduce students to the fundamental concepts of epidemiology and importance in public health and cardiovascular care.** **To foster an understanding of disease frequency measures and vari epidemiological research designs.** **To equip students with essential skills in biostatistics and health data analys** **To guide students through the steps of conducting scientific research, fr formulating research questions to academic writing and publication.** **To reinforce commitment to research ethics and academic integrity.**

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		Introduction to Epidemiology Definition of epidemiology, its importance in public health and cardiac care, historical background			

		Measures of Disease Frequency Incidence, prevalence, ratios and rates Descriptive Epidemiology Distribution by person, place, and time Study Designs — Cross-Sectional Studies Concept, advantages and limitations, applications Study Designs — Cohort Studies Concept, calculating relative risk Study Designs — Case-Control Studies Concept, calculating odds ratio Study Designs — Experimental Studies and Clinical Trials Randomization, randomized controlled trials (RCT) Types of Scientific Research, Sampling Techniques, and Data Collection Methods Classification of research (descriptive, analytical, experimental), sampling methods (random, stratified, cluster, convenience), data collection tools (questionnaires, interviews, record review) Bias and Confounding Factors Types of bias, confounding, effect modification Screening and Diagnostic Tests Sensitivity, specificity, positive and negative predictive values Introduction to Biostatistics Types of data, measures of central tendency and dispersion Hypothesis Testing and Significance Level Concept of the p-value, confidence intervals Research Methodology Literature review, formulating the research question and hypothesis Research Ethics and Scientific Writing Academic integrity, referencing sources, avoiding plagiarism			

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)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
2. Cardiac Medications
3. Course Code:
4. Semester / Year:
Courses / second course / second stage
5. Description Preparation Date:
2026
6. Available Attendance Forms:
Theoretical and practical lectures
7. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
8. Course administrator's name (mention all, if more than one name)
Dr.asia ali
9. Course Objectives

Course Objectives	**To familiarize students with the major drug classes used in the treatment cardiovascular diseases.** **To understand the mechanisms of action of each pharmacological class a their effects on cardiac functions.** **To identify general dosages, administration routes, adverse effects, and d interactions.** **To equip students with clinical monitoring skills for patients receiv cardiovascular medications.** **To prepare students for safe participation in medication administration a patient monitoring within healthcare teams in cardiac care units.**

10. Teaching and Learning Strategies	
Strategy	

11. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		Introduction to Cardiac Pharmacology Principles of pharmacokinetics and pharmacodynamics, routes of administration of cardiac drugs			

		Antiarrhythmic Drugs — Part 1Vaughan Williams classification, Class I and II agents Antiarrhythmic Drugs — Part 2Class III and IV agents, amiodarone Beta-Blockers Mechanism of action, indications, side effects Calcium Channel Blockers Mechanism of action, dihydropyridine and non-dihydropyridine types ACE Inhibitors and ARBs Mechanism of action, indications in heart failure and hypertension Diuretics Used in Cardiac Disease Loop, thiazide, and potassium-sparing diuretics Nitrates and Vasodilators Mechanism of action in angina, forms of administration Anticoagulants Heparin, warfarin, direct oral anticoagulants (DOACs) Antiplatelet Agents Aspirin, clopidogrel, use in coronary artery disease Lipid-Lowering Drugs (Statins)Mechanism of action, role in atherosclerosis prevention Inotropic Agents Digoxin, dobutamine, signs of drug toxicity Cardiac Emergency and Resuscitation Drugs Epinephrine, atropine, amiodarone within ACLS protocols Review + Final Exam Comprehensive coverage of all course topics			

12. Course Evaluation

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

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book.
Main references (sources)	Any book that covers the basics of gen chemistry and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of gen chemistry.
Electronic References, Websites	There is no specific book.

Course Description Form

1. Course Name:
2. Medical Ethics
3. Course Code:
4. Semester / Year:
Courses / second course / second stage
5. Description Preparation Date:
2026
6. Available Attendance Forms:
Theoretical lectures
7. Number of Credit Hours (Total) / Number of Units (Total)
30hr/ 4 unit
8. Course administrator's name (mention all, if more than one name)
9. Course Objectives

Course Objectives	**General Objective:** **To introduce technical college students to professional ethics tailored to thei respective technical specializations, and to equip them with professional ethical standards that enhance their commitment within their future career fields upon graduation.** **Specific Objective:** **To be formulated by course instructors as behavioral learning objecti integrated into individual lecture lesson plans**

10. Teaching and Learning Strategies	
Strategy	

11. Course Structure

Week	Hours	Required Learning Outcomes	subject name	Learning method	Evaluation method
		Ethics Fundamentals: Concept and origin of ethics. General rules and sources of ethics. Moral values and the importance of ethics for individuals and society. Work and Profession:			

		Importance of work and workplace behaviors. Concepts, definitions, and distinctions between work, profession, and trade/craft. Essential standards for establishing a profession. Professional Ethics: Concept and importance of professional ethics. Benefits of adhering to professional ethics. Characteristics and attributes of professional ethics. Steps toward achieving an acceptable standard of professional ethics. Values and Professional Ethics: Integrity, honesty, counsel, justice, respectful conduct, and perfection/mastery in work. Unethical Behavior Patterns in the Profession (Administrative Corruption): Unethical administrative behavior: Definition and types of administrative corruption. Bribery: Concept, types, distinctions between gifts and bribes, and underlying motives. Fraud and Misconduct: Concept, nature of workplace fraud, and manifestations in job performance. Methods for Institutionalizing Professional Ethics: Approaches and levels for establishing professional ethics. Guidelines for drafting a professional Code of Ethics. Strategies for reinforcing ethical workplace behavior (according to Kreitner & Kinicki). Medical Professional Ethics (Health and Medical Technical Colleges): Characteristics and attributes of medical technologists. Duties of the medical technologist toward the profession, patients, and society.			

		Patient Rights: Justice and equality, confidentiality, privacy, informed consent, comprehensive care, prioritizing patient welfare, effective communication, and access to health records. Social Responsibility and Environmental Safety: Compliance with core professional standards to prevent epidemic outbreaks and promoting public health awareness. Professional Relationships: Interprofessional ethics among healthcare colleagues (respect, collaboration, avoiding criticism in front of patients, and objective evaluation). Medical Research Ethics: Regulations for clinical trials in Iraqi healthcare institutions, the Declaration of Helsinki, ethics of medical research writing, and ethical standards in bedside medical education.			

12. Course Evaluation

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

13. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no specific book.
Main references (sources)	Any book that covers the basics of general chemi and its applications.
Recommended books and references (scientific journals, reports…)	Any website that covers the topic of general chemis
Electronic References, Websites	There is no specific book.