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 For Community Health Department

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

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

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

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

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

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

جمهورية العراق
وزارة التعليم العالي والبحث العلمي جهاز الاشراف والتقويم العلمي
قسم الاعتماد/دائرة ضمان الجودة والاعتماد الاكاديمي
المجلس الوطني لاعتماد برامج كليات ومعاهد التقنيات الصحية والطبية

ACADEMIC PROGRAM DESCRIPTION FORM

University Name: Al-Furat Al-Awsat Technical University

Faculty/Institute: Karbala Technical Institute

Scientific Department: Community Health Technologies Department.

Academic or Professional Program Name: Community Health Technologies

Final Certificate Name: Technical diploma

Academic System: Semester study system

Description Preparation Date: 10/2/2025

File Completion Date: 10/2/2025

Signature:
Head of Department Name:
Assist.Prof.Dr. Salim Hussein Hassan
Date: / / 2025

Signature:
Scientific Associate Name:
Assist.Prof.Dr. Mohammed Fadhil Neamha
Date: / / 2025

* **The file is checked by:**
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department:
Signature:
Assist.Prof.Ali Neamah Hasan AL-Aaragi
Date: / / 2025

19-6-2025
Approval of the Dean

Program Vision

Providing graduates with the necessary knowledge and experience in the fields of work in the fields of (occupational health and safety, health inspection and control), assisting in the implementation of primary health control programs and health awareness campaigns, and assisting the doctor in diagnostic procedures in programs implemented in health centers. Thus, the graduate will be qualified, acquire scientific and practical skills, and have an impact. Positive development of the public and private health sector and spreading awareness in the areas of public health in society.

Program Mission

Achieving excellence in teaching and education, acquiring scientific skills, and implementing educational and training programs and research activities, which leads to enhancing the high capacity in diagnosing various diseases and developing preventive and curative health services so that they are accessible to all members of society.

Program Objectives

The department aims to…

1. Health inspection and control teams and assist in laboratory investigation of the examined samples and their compliance with health conditions.
2. Occupational health and safety field
3. Implementing primary health care programs.
4. Health survey teams and health awareness campaigns.
5. Assisting the doctor in diagnostic, nursing, and therapeutic procedures during the implementation of health programs.
6. Operating and caring for used medical equipment and machines used in diagnosis and treatment.
7. Survey teams on communicable diseases and how to control them.

Program Accreditation

The established programs are accredited by the Ministry of Higher Education and Scientific Research/Al-Furat Al-Awsat Technical University.
In addition to the World Health Organization WHO.

Other external influences

- Scientific research related to the department's specialty.
- The World Wide Web (the Internet.(
- Regular and digital libraries.
- Summer training in government hospitals.

Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	1	2	2.9%	Nothing
College Requirements	3	6	8.8%	Nothing
Department Requirements	14	60	88.3%	Nothing
Summer Training	Two months	/	/	Nothing
Other	Nothing	Nothing	Nothing	Nothing

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

Program Description

Year/Level	Course Code	Course Name	Credit Hours		
			Theoretical	Practical	All
First semester	T.C.H	Community Heath Technologies	15	16	31
Second Semester	T.C.H	Community Heath Technologies	16	16	32
First semester	T.C.H	Community Heath Technologies	14	20	34
Second Semester	T.C.H	Community Heath Technologies	14	20	34

Expected learning outcomes of the program

Knowledge

A- Cognitive objectives

1. Assistance in laboratory and epidemiological investigations.
2. Assisting the doctor in diagnostic and therapeutic nursing procedures during the implementation of the program.
3. Operating and caring for used medical equipment.
4. Managing primary health care centers according to the units within the health center.
5. Implementing surveys on communicable diseases and how to control them.

Skills

B- The program's skill objectives

1. Working in the field of occupational health and safety.
2. Working in emergency rooms and emergency medicine.
3. Health inspection and control.
4. Health education and the art of prevention and control of communicable and non-communicable diseases.

Ethics

Learning Outcomes 4	Learning Outcomes Statement 4
Learning Outcomes 5	Learning Outcomes Statement 5

Teaching and Learning Strategies

- Cooperative education strategy.
- Brainstorming education strategy.
- Educational strategy, collaborative concept planning.
- Strategy education real-time feedback
- Education strategy notes series.
- Education strategy by exchanging opinions and discussion.
- Educational strategy by presenting information.

10. Evaluation methods

1- Daily exams.
2- Quarterly exams
3- Final exams.
4- Practical projects.
5- Laboratory reports.

1. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/ Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	General medicine and surgery	Community medicine	-	-	-	1
Assistant Professor	Medical microbiology	immunity	-	-	1	-
	Physical education and sports sciences	Training Physiology/Electromyography	-	-	1	-
	Veterinary medicine and surgery	Preventive internal medicine	-	-	1	-
	Community health technologies	Community health technologies	-	-	2	-
	Life sciences	Medical microbiology	-	-	1	-
Lecturer	Nursing sciences	Maternal and newborn health	-	-	1	-
	Veterinary medicine and surgery	Medical physiology	-	-	1	-
	Community health technologies	Community health technologies	-	-	2	-
	Biological analyses	Medical microbiology	-	-	1	-
Assistant Lecturer	Life science	Life science	-	-	1	-
	Veterinary medicine and surgery	Medical microbiology	-	-	1	-
	political science	International relations	-	-	1	-
	Life sciences/plant	Medicinal plants	-	-	1	-
	Life sciences	environment	-	-	1	-
	Life sciences	Bioresistance techniques	-	-	1	-
Contracted	Chemistry Science	Chemistry Science	-	-	1	-
	Veterinary medicine and surgery	Medicines and toxins	-	-	1	-

Professional Development

Mentoring new faculty members

• Encourage them to participate in specialized courses within their specialty.
• Participation in holding seminars, workshops, and training programs.
• Participation in teaching methods courses to acquire different skills and methods in teaching.

Professional development of faculty members

• Continuous development of teaching capabilities in a manner consistent with cognitive development in the field of specialization.
• Developing the educational system so that it rises to high quality and solid specifications and supports innovation and creativity to serve society.
• Encouraging the participation of teachers in scientific programs and specialized courses and giving lectures in corresponding institutes and colleges to enhance academic and professional partnerships with reputable universities and institutions.

Acceptance Criterion

According to the controls specified by the Ministry of Higher Education and Scientific Research through the central admission portal and the special controls for admission to colleges and institutes approved by the Ministry, provided that the student holds a preparatory certificate in the scientific/biological stream exclusively."

The most important sources of information about the program

• Methodical books, scientific lectures by professors, scientific portfolios, scientific research and theses within the specialty, the Internet.
• The official website of the Technical Institute (https://ikr.atu.edu.iq)

Program Development Plan

• Applied education in health institutions.
• Using modern means of communication such as the Internet and others.
• Using modern means of illustration and advanced laboratory equipment.
• Conducting scientific conferences for the institute or student conferences within the institute or with the participation of corresponding institutes.
• Scientific seminars and quarterly seminars for the department.
• Establishing specialized workshops for graduate and continuing students by professors.

Program Skills Outline

Year/ Level	Course Code	Course Name	Basic or optional	Required program Learning outcomes											
				Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
The first/first semester	C.H.	Community health	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	F.N.	Fundamental Nursing1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	G.A.	General anatomy1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	Ph.	Physiology1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	M.Mic.	Medical microbiology1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	Bio.	Biostatistics1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	C.Ch.	Biochemistry1	Assistance	√	√	√	√	√	√	√	√	√	√	√	√
	C.A.	Computer applications1	Assistance	√	√	√	√	√	√	√	√	√	√	√	√
	H.R.D.	Human rights and democracy	General	-	-	-	-	-	-	-	-	-	-	-	-
First/second semester	S.H.	School health	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	F.N.	Fundamental Nursing2	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	G.A.	General anatomy2	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	Ph.	Physiology2	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	M.Mic.	Medical microbiology2	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√

	Bio.	Biostatistics2	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	C.Ch.	Biochemistry2	Assistance	√	√	√	√	√	√	√	√	√	√	√	√
	Eng.	English	General	-	-	-	-	-	-	-	-	-	-	-	-
Second/first semester	C.H.	Community Health	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	H.I.	Health inspection1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	M.S.	Medicine & Surgery1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	H.O.S	Occupational health and safety1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	Epi.	Epidemiology1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	E.H.	Environmental Health1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	Pha.	Pharmacology1	Assistance	√	√	√	√	√	√	√	√	√	√	√	√
	Cr.	Baath crimes	Assistance	-	-	-	-	-	-	-	-	-	-	-	-
Second/ second semester	I.H.	International Health	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	H.I.	Health inspection1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	M.S.	Medicine & Surgery1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	H.O.S	Occupational health and safety1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√
	Epi.	Epidemiology1	Specialized/basic	√	√	√	√	√	√	√	√	√	√	√	√

	Pha.	**Pharmacology1**	**Assistance**	√	√	√	√	√	√	√	√	√	√	√	√
	Pro.	**Research project**	**Specialized/basic**	√	√	√	√	√	√	√	√	√	√	√	√
	c.o	**Computer applications2**	**Assistance**	√	√	√	√	√	√	√	√	√	√	√	√
	P.E	**Professional Ethics**	**Assistance**	-	-	-	-	-	-	-	-	-	-	-	-

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

COURSE DESCRIPTION FORMS FOR THE FIRST YEAR

* Community health:

1. Course Name:
Principles of community health
2. Course Code:
P.C.H
3. Semester / Year:
First Year / First and second Semester
4. Description Preparation Date:
12/2/2025
5. Available Attendance Forms:
Attendance according to the weekly lesson schedule Electronic doses on the electronic Attendance and Google Meet
6. Number of Credit Hours (Total) / Number of Units (Total)
2 theoretical + 3 practical
7. Course administrator's name (mention all, if more than one name)
Name: Ali Neamah Hasan Email: alineamah93@atu.edu.iq
8. Course Objectives

Course Objectives	A- Recognizes the importance of basic health services provided at the primary health care center. B- Distinguish between levels of primary health care. c- Differentiates between health services provided in primary health care centers and hospitals. D - It identifies the most important diseases that affect children and identifies their causes, methods of transmission, and how to prevent them. e- Enumerate the benefits of breastfeeding for the mother, child, and society.
9. Teaching and Learning Strategies	
Strategy	Using modern methods through presentation boards (PowerPoint), in addition to using the classroom blackboard. • Enhancing the lecture through (YouTube) and electronic programs and displaying educational videos. • Concentrating performance skills through field visits and summer training.

10. Course Structure: (First semester) Two theoretical hours and three practical hours per week	
Weeks	**Unit or subject name Week**
the first	1- Introduction to community health - Definition of community health - What does community he include - The goal of community health.
the second	2- Primary health care - primary health care programs - goals and strategies
the third	3- Vaccines:- - Immunity - Vaccines, their types and methods of giving them. - National vaccination schedule in Iraq.
Fourth and fifth	4- Maternal and child care services.
six	5- Breastfeeding - its benefits for the mother and the child
Seventh	6- Artificial feeding
Eight	7- Diarrhea in children - its causes - its types - how to avoid and prevent it.
Ninth	8- Dehydration in children - its types - signs - how to treat it.
The tenth	9- Acute respiratory infections and their control.
eleventh	11- Nutrition and food - the basic elements of food and how they affect the structure, growth development of the child - diseases of malnutrition.
twelveth	12- Prevention and control of communicable diseases.
Thirteenth	Principles of prevention - Types of prevention
fourteenth	13- Health Administration - Introduction - Objectives
Fifteenth	14- Some transmissible diseases (tuberculosis, polio, whooping cough, tetanus, diphtheria, meas rubella, mumps): symptoms - prevention - treatment

11. Course Structure: (second semester) Two theoretical hours and three practical hours per week	
Weeks	Unit or subject name Week
the first	- School Health .
the second	(The concept of school health and mental health - the emergence of school health services).
the third	- Genetic diseases in the provision of school health services.
Fourth and fifth	- Objectives and importance of school health.
six	- Diseases of school health systems.
Seventh	- Specialization, services and duties of school health.
Eight	- Components of school health.
Ninth	- Conditions of the school environment.
The tenth	- The importance of a healthy relationship with society.
eleventh	Procedures followed in inspecting the school environment.
twelveth	- Drinking water (general conditions - sampling and desalination)
Thirteenth	-
fourteenth	- Taking care of the health of workers.
Fifteenth	- Training school staff (educational and technical staff)

12. Course Evaluation

1. Daily exams, whether (oral or written).
2. Preparing scientific reports and participating with students in discussions.
3. Semester and final exams.
4. Brainstorming.

13. Learning and Teaching Resources

Required textbo (curricular books, if any)	
Main references (sources)	Guide for workers in the Expanded Program on Immunization - Iraqi Ministry of Health - 2014 National Guide to Newborn Screening - Iraqi Ministry of Health - 2014 Integrated care for children's health - Iraqi Ministry of Health - 2012 Field guide to flaccid paralysis - Iraqi Ministry of Health - 2013 Guide to the National Breast Cancer Early Detection Program
Recommended books and references (scientific journals, reports...)	The comprehensive medical textbook on community health nursing - World Health Organization 2006 National Breast Cancer Early Detection Program Guide for Health Workers - 2018 Breast Cancer Professor Mike Dixon 2013
Electronic References, Websites	World Health Organization, Organization for the Control of Communicable Diseases.

*Fundamental Nursing:

1. Course Name:
Fundamentals of nursing
2. Course Code:
N.C.H
3. Semester / Year:
First Year / First and second Semester
4. Description Preparation Date:
14/2/2025
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
Total number of hours: 5 hours (2 theoretical + 3 practical) / total number of units: 5 units
7. Course administrator's name (mention all, if more than one name)
Name: Lec.Dr. Najat Hamza Hasan Email: inkr.njh@atu.edu.iq
8. Course Objectives

Course Objectives	**Objectives of the subject:-** **1- General objectives:** **The student able to know the general information about Nursing .** **2- Specific objective :** **History of Nursing , Nursing , Nurse , Hospital its department , health agency in Iraq .** **Vital signs , Temperature , Respiration , Blood pressure & its methods.** **Administration of Medication as general ,& storage of drugs .** **Methods of giving O2, section the recreation from chest, Arterial respiration Mouth to Mouth.** **Normal feeding & gastric Laval.** **Physical examination & Laboratory test .** **Pre-post-operative care.** **First aid & Civil defiance.** **Make practices in collection sample.** **First aid in nursing procedures in case of fractures, wounds, bleedir burns, poisoning, shock.**
9. Teaching and Learning Strategies	

Strategy	**1- Theoretical lecture and the use of modern means in presenting lectures (modern television screens for presentation and video clips)** **2- Practical lecture: Practical application of practical vocabulary to apply nursing and first aid skills using an educational doll, bandages, syringes, thermometers, pressure devices, etc.** **3- Discussion with students about the important points of the course** **4- Oral exams** **5- Short written exams**

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	The student's ability know first aid laboratories, perso protection metho and define some ba nursing terms (nursi nurse, health, hospit	First aid in laborato and Personal protect equipment Fundamental of Nurs , definition (Nursing Nurse, health, Hospita	Use PowerPoint presentation present videos	Testing
2+3	5	The student learns h to admit a patient hospital and how discharge him when recovers. He also lea how to write oral a written reports a what is the nurs process through wh care is provided to patient, which cons of four stag (evaluation, planni implementation, a evaluation).	Administration discharge of pati from hospital, pt.cha oral report, written report , Nurs process.(Assessing planning Implementation Evaluation).	Use PowerPoint presentation present videos	Testing
4+5	5	The doctor learned th role of the nurse in preparing the patient for the examination h hand and how to coll the necessary tools from the patient face face to the laborator	Physical examinati prepare the pt. to exa role of Nurse in physi examination , collect of sample ,prepare equipment .	Use PowerPoint presentation present videos	Testing

		The student learns patient's positions t are beneficial for e clinical examination treatment, how to the patient, and wha is and how much blo is taken			
6	5	The studer knowledge of patient's basic ne and care for him terms of Bed mak and personal hygie patient bathroom, c and dental hygiene, k sores: their causes a ways to prevent then	Position of patient, patient lifting and its risks.	Use PowerPoint presentation present videos	Testing
7+8	5	The student's knowledge of sterilization methods Disinfection, wou dressing, types sterilization of surg instruments, princip of dressing a removing surg sutures	Basic Needs of Pt. c of Pt. unit , bed maki personal hygie patient bath, mouth a tooth care. Bed sor care of sores, causes prevention of bed sor	Use PowerPoint presentation present videos	Testing
9+10	5	The student's ability know vital signs, def temperature and w to measure it, def fever, its signs a symptoms and how treat it. The stud also learns what pu breathing, and blo pressure are, how measure them, a what are the fact that affect them.	Method of sterilization, surgical sterilization , Medical sterilization , kind of disinfectant, Dressing the wound kind of sterilize surgical equipm ,principle of Dressing remove of stitches.	Use PowerPoint presentation present videos	Testing
1+12		The student learned how to give	Vital signs, Definition Temperature, ch	Use PowerPoint	Testing

	5	medications to patients, starting wit the definition of the medication, its types and methods of administering it Orall and through glaucom of its common types (intramuscular, intravascular, skin an subcutaneous), and compresses Cold and hot, mouth and nose drops	Temperature, Type check Temp-oral,axl Rectal definition fever , causes, signs, symptom, Nursing c of pyrexia , pu definition, fact affecting of pulse , s of taking pulse, Nurs point in check puls Respiration , definit of respiration, definit of Blood pressu Definition of diastoli systolic pressure.	presentation present videos	
13+14	5	The student learns about his nursing rol in giving intravenous fluids and blood	Drug administration define of drug Type administration medication , a Injection {I.M,I.V.,S.c,I.D,} cold hot. Compress, n eyes & ears drops.	Use PowerPoint presentation present videos	Testing
15	5	The student learns about his nursing rol in giving intravenous fluids and blood	Giving fluid & Blood intravenous infusi role of Nurse in giv intravenous infusion	Use PowerPoint presentation present videos	Testing
The second course					
1	5	The student lea about the purpose the blood transfus and the most import notes that must taken into acco during the steps blood transfusion	Role of Nurse in giv blood transfusion goal of blo transfusion , import notes in blood infusio	Use PowerPoint presentation present videos	Testing
2	5	The student learns th methods of inhaling oxygen, what its purpose is, and the observations that mu	Inhalation & oxyg method of giv oxygen, goals, nurs observations dur giving oxygen.	Use PowerPoint presentation present videos	Testing

		be taken He takes it into account when giving oxygen			
3	5	Learn how to feed patient using nasogastric tube, h to wash the stoma and what nursing c is for each of them	Nasogastric feedi nursing procedures a nursing care, gas lavage, definition, go nursing care dur gastric lavage.	Use PowerPoint presentation present videos	Testing
4	5	The student lea urinary cathet enema: purpose a nursing notes for eac	Urinary catheterizati definition, goals, nurs observations, ener definition, goals, nurs observations.	Use PowerPoint presentation present videos	Testing
5	5	The student lea about the care a nursing care of patient before and af the surgical operat and in the recov room and what are complications that ar Bleeding, wou infection, blood clo and constipation n occur after surgery	Pre & post-operat nursing care nurs care in recovery roo complications af surgery (bleedi wound contaminati embolus, constipation	Use PowerPoint presentation present videos	Testing
6	5	The student lea about the goals a general principles first aid	First aid, goals, gene principles in first aid.	Use PowerPoint presentation present videos	Testing
7	5	First aid for open and closed wounds, wour infection, what are th signs and symptoms wound infection, and methods His treatment	First aid of wour types of wounds (op close) wou contamination, si and symptoms wound infect treatment procedures	Use PowerPoint presentation present videos	Testing
8	5	The student learns h to treat bleeding of types, arterial, veno and capillary	First aid in bleedi definition, types bleeding (arter venous, capillary) f aid of all types	Use PowerPoint presentation present videos	Testing

			bleeding, Epita definition, first aid a nursing procedures.		
9	5	The student lea about the types nervous, psychologi toxic, anaphylactic, a cardiac shock	First aid of sho definition, types shock (neuroge psychiatric, to anaphylactic, cardiogenic).	Use PowerPoint presentation present videos	Testing
10	5	Learn about first aid fractures, their typ signs and sympto complications, a nursing care. For patient treated with splint	First aid in fractu definition, types fractures ,signs a symptoms, complications, nurs care for patient trea by splint.	Use PowerPoint presentation present videos	Testing
11	5	Learn about first aid burns, their definiti types, degrees, a complications	First aid of bu definition, types a degree of bu complications.	Use PowerPoint presentation present videos	Testing
12	5	First aid for poison cases, definition poison and poisoni what are the signs a symptoms of poisoni and what are the ba principles of treat poisoning.	First aid of poison a poisoning, definiti sign and sympto types of poiso general principles poisoning treatment poisoning.	Use PowerPoint presentation present videos	Testing
13	5	First aid for suffocati its signs and sympto signs and symptoms drowning, first aid fo drowning person	First aid of asphy definition, signs a symptoms of asphy drowning, definiti signs and symptoms drowning, first aid drowning person.	Use PowerPoint presentation present videos	Testing
14	5	The student learns h to provide first aid cardiac arrest a respiratory failu what is artifi respiration and types (from mouth	First aid of cardiac arr and respiration failu definition of artifi respiration, ty (mouth to mou Schafer's method).	Use PowerPoint presentation present videos	Testing

		mouth and the Schae method)			
15	5	The student lea about the signs cardiac arrest and h to massage the heart	Cardiac arrest, sig cardiac massage a nursing procedu during cardiac massag	Use PowerPoint presentation present videos	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 (curricu books, if any)	1. Methodological books: 1 - Salwa Abbas - Principles of Nursing Foundations - Ministry of Health - Health Education Foundation - 1985. 2- Helping books: Fundamentals of Nursing - Salwa Abbas - Nazira Hussein - Sarah Dinkha - Ministry of Education Higher - Authority of Technical Institutes - 1989 Ahlam Farag, Elham Amin - Basic Principles in Nursing - Ministry of Higher Education and Scientific Research - 1986
Main references (sources)	The modern references in the specialty that I relied on when writ my lectures, and I did not rely on the above sources because they are very, very old. It is as follows: 1-Miller-Rosser, K., Chapman, Y., Francis, K. (July 19, 2006): "Historical, Cultural, and Contemporary Influences on the Status Women in Nursing in Saudi Arabia." OJIN: The Online Journal of Issues in Nursing. Vol. 11, No. 3. 2- Al-Hassani, Salin TS. "Women's Contribution to Classical Islam Civilization: Science, Medicine, and Politics". Muslim 3- Kasule, O. H. (2003). Historical roots of the nursing profession Islam. Retrieved June 2004. 4-Charles P. D: Hospital Admissions Introduction, eMedicineHealt 014. - American Nurses Association: The Nursing Process, 2003. 5- Singh R: The Importance of Exercise as a Therapeutic Agent, Malays J Med Sci. 2002 Jul;9(2):7-16.
Recommended books and references (scientific journals, reports...)	Specialized books
Electronic References, Websit	Medical websites

* General anatomy:

1. Course Name:	
General Anatomy 1+ 2	
2. Course Code:	
A107	
3. Semester / Year:	
First Year / First and second Semester	
4. Description Preparation Date:	
2025 / 2 / 11	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Total number of hours: 4 hours (2 theoretical + 2 practical) / Units total number are: =: 4 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Zahra Maki Mahmood Al- Hakak Email: zahra.malhakak@atu.edu.iq	
8. Course Objectives	
Course Objectives	Course objectives: Students will be able to achieve two objectives: **1-General objectives:** At the end of the academic year, students will have the ability to identify all parts of the human body anatomically and the location of each internal organ, its relationship and position in relation to the external surface of the body. 2- **Special objectives:** The student will be able to: -Knows the function and anatomy of each part of the body. - links the functions and anatomy of all parts, organs and systems of the body and their relationship with each other. -The student will have the ability to assist the doctor in diagnosing and treating in one way or another in a simple way as necessary. He will be able to save a person's life, provide first aid, or stabilize the condition from developir until the specialist doctor arrives.
9. Teaching and Learning Strategies	
Strategy	- Education by presenting information. -Education by exchanging opinions and concepts. -Education through discussion. -Teaching with the student's participation in conducting short seminars (lectures) on the subj theory and practical. - Instilling the concept of cooperative education among students, especially the practical part of subject. - Teaching using brainstorming. - Education using scientific visits. - Education using modern technological techniques. - Education by presenting developments related to the academic subject and training on it.
10. Course Structure	

First semester					
Week	**Hours**	**Required Learning**	**Unit or subject**	**Learning method**	**Evaluation method**

		Outcomes	name		
First	4	What is anato anatomical posit surgical dissection, what are the anatom terms?	Introduction definition anatomy , surf anatomy of body , anatom position , mec plane .	Using PowerPoin illustrations scientific films skeleton + puppe models	Attendance participation lectures also and wri examinations
Second	4	Anatomical position surgical cuts , abdom regions, and what are anatomical terms.	Surface anatom planes and vert lines	Using PowerPoin illustrations scientific films skeleton + puppe models	Attendance participation lectures also and wri examinations
Third	4	Definition of cell tissue and the differe between cell tissue.What are the ty of tissues?	Tissues and c Types of c which f different types tissues, e.g. epithelial, connective muscular, nerv tissues . etc.	Using PowerPoin illustrations scientific films	Attendance participation lectures also and wri examinations
Fourth	4	Knowing what bones joints are, the types bones and their functio	Bone and join types of bone functions of bon parts of skeleton	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Fifth	4	Knowledge of the skel structure of the up limb with all its p (shoulder girdle, hume area, forearm area, p area).	Skeleton of up limb : gen anatomical appearance skeleton shoulder girdl clavicle , scap humerus , rad ulna , skeleton the hand .	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Sixth	4	Knowledge of the skel structure of the lower limb with all its parts (pelvic girdle and its composing bones, thig area, leg area, foot area	Skeleton of lo limb : gen anatomical appearance, skeleton of pelvis : hip bon Ilium , pubis ischium . fen	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations

			Leg :tibia, fib Skeleton of the f		
Seventh	4	Knowledge of the skel of thoracic cage	Trunk skeleto thorax : sternu rips .	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and written
Eighth	4	To know the descrip of the skeleton skull what it consists of.	Skull : gen appearance .	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Ninth	4	Knowledge of the skeleton skull and low jaw	Cranium , lo jaw	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Tenth	4	Knowledge of the skel vertebral column .	Vertebral colum the types vertebra of e part.	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Eleventh	4	To know what are joints and their types.	Joints : definiti types	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Twelfth	4	Knowledge the joints the upper and lo extremities and trunk	Joints of upper lower limb trunk	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Thirteenth	4	Identify the types muscles in the hur body and the importa of the muscles of the h and eyes	Muscular syste types of muscl muscles of h and face , gen information	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Fourteenth	4	Identify the muscles the upper limb connect it with verte column , thoracic c and shoulder ; also kr the muscles of humerus, forearm, palm	Muscles of up limb : lir vertebral muscl limbo thora muscles , mus of the shoulde muscles of up arm, muscles hand	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri examinations
Fifteenth	4	Knowledge the mus of the lower extren (muscles of the i region, gluteal region,	Muscles of lower limb muscles of the i region , muscle	Using PowerPoin illustrations scientific films skeleton	Attendance participation lectures also and wri

		thigh region).	the gluteal regi muscles of thigh		examinations
Second semester					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
First	4	Identify the muscles foot area.	**Muscles of leg a foot**	Giving lectu +using illustratio of puppets + mode	Examinations
Second	4	Knowledge superficial and d muscles of the trunk muscles of the abdom and back regions	**Muscles of trunk , muscle the tho (superficial deep) , muscle the abdomen muscles of back .**	Giving lectu +using illustratio of puppets + mode	Examinations
Third	4	Knowing the compone , parts of the cen nervous system understanding components of the brai	**Nervous syst :brain , cerebr , cerebellum brain stem**	Giving lectu +using illustratio of puppets + mode	Examinations
Fourth	4	Knowing the compone of the second part of central nervous sys (spinal cord)	**Spinal cord ventricles of brain**	Giving lectu +using illustratio of puppets + mode	Examinations
Fifth	4	Know the components the peripheral nerv system and its function	**Peripheral nervous syster cranial nerves numbers functions**	Giving lectu +using illustratio of puppets + mode	Examinations
Sixth	4	Definition and anato of the spinal cord	**Spinal nerves**	Giving lectu +using illustratio of puppets + mode	Examinations
Seventh	4	Knowledge the anator function of the autono nervous system	**Autonomic nervous syster parts functions**	Giving lectu +using illustratio of puppets + mode	Examinations
Eighth	4	Knowledge the parts the anatomy of digestive system	**Digestive syste mouth accessories Pharynx esophagus stomach**	Giving lectu +using illustratio of puppets + mode	Examinations
Ninth	4	Knowledge the anato of the cardiovasc system and the types blood vessels	**Cardio- vascu system, Bl vessels in gener**	Giving lectu +using illustratio of puppets + mode	Examinations
Tenth	4	To know the blood the heart	**Blood and hear**	Giving lectu +using illustratio	Examinations

				of puppets + mode	
Eleventh	4	Knowledge the anato of veins and arteries	**Veins and arte , syste circulation arteries ,thora aorta**	Giving lectu +using illustratio of puppets + mode	Examinations
Twelfth	4	To know the parts of abdominal aorta	**Abdominal ao and its branche**	Giving lectu +using illustratio of puppets + mode	Examinations
Thirteenth	4	Knowledge the anato of the veins that sup the lower extremities the abdominal area	**Veins of systemic circulation ,ve of the lower lim veins of abdomen**	Giving lectu +using illustratio of puppets + mode	Examinations
Fourteenth	4	Knowledge the anato of the veins of the hea neck and pulmonary ve and arteries	**Veins of the h and neck , appl points , veins a arteries pulmonary circulation**	Giving lectu +using illustratio of puppets + mode	Examinations
Fifteenth	4	Knowledge the anato of lymphatic respiratory systems	**Lymphatic syst and respirat system**	Giving lectu +using illustratio of puppets + mode	Examinations

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 systematic book.
Main references (sources)	References : 1-Principle of anatomy , Dr. Hani T. Al-Azawi , 4th edition , 1988. 2-Principle of anatomy , Dr. Abdul-Rahman M. Abdul-Raheim & Dr. Ali K.
Recommended books and references (scientific journals, reports...)	grant atlas anatomy
Electronic References, Websites	الموقع الرسمي للمعهد https://ikr.atu.edu.iq/

* Physiology:

1. Course Name:
Physiology
2. Course Code:
T.C.H
3. Semester / Year:
first grad/Second semester
4. Description Preparation Date:
2025/2/23
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
Total number of hours: 5 hours (2 theoretical+ 3Practical) total number units =5 units
7. Course administrator's name (mention all, if more than one name)
Name: Dr.Shukrya Hatem Alwan Email: shukrya.alwan.ikr@atu.edu.iq Name: Huda Hamza Kazim Email: huda.kadhim.ikr34@atu.edu.iq
8. Course Objectives

Course Objectives	1. Know the structure and function of each organ in the body. 2. Know clinical examinations and their relationship to the functions of organs. 3. Know the diseases that affect the various organs and tissues of the body.

9. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures using modern lecture presentation methods (modern TV screens) 2. Practical lectures: Practical application of theoretical lecture through laboratory experiments 3. Discussion with students about important course points 4. Oral exams 5. Short written exams.

10. Course Structure (First semester)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowing the struc and function of e organ in the body.	Safety precautions from the hazards of the laboratory materials, chemicals and electricity. Cells (Define – types structure of the cell) , Tiss (Define types ,structure of tissue), Muscles(Define types , structure of muscles).	Giving lectures a using mea of explanati	Exams (oral a written).
2	5	=	Blood –Functions properties	=	=
3	5	=	composition –blood plas –blood seru Erythrocyte(proprieties shapes-number –functio production a degradation of blood cell	=	=
4	5	=	Leukocyte (Types –Shap –number-functions)	=	=
5	5	=	Hemoglobin-functions –nor value- composition, Platelets(numb functions) Coagulation of blo – anticoagulan	=	=

5	5	=	Cardiovascular system heart- structure of hear function – cardio val cardiac cycle – he sounds	=	=
7	5	=	Blood vessels (arteries –vei capillary blood vessels properties –blood cy (pulmonary &systemic)	=	=
8	5	=	Blood pressure –norn value- factors effecting blood pressure	=	=
9	5	=	Blood pressure –norn value- factors effecting blood pressure	=	=
10&1	5	=	Pulmonary volume pulmonary ventilation regulation of gas exchar in blood by respiration	=	=
12&1	5	=	Urinary system – structu – functions	=	=
13	5	=	Functions of kidne composition of urine – c and stone in urine norma	=	=
14	5	=	Ear and eye (structure functions)	=	=
15	5	=	Skin (Define , structu and function)	=	=

Course structure (Second semester)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Knowing the struc and function of e organ in the body.	Digestive system – part of	Giving lectures a using mea	Exams (o and written).

				of explanati	
2	5	=	Stage of digestion (o stomach, intestine) a digestives enzymes.	=	=
3	5	=	Intestinal functions a absorption	=	=
4	5	=	Digestion system gla (salivary glands , pancrea liver) structures a functions	=	=
5	5	=	Gallbladder – structure a functions	=	=
5	5	=	Stool formation	=	=
7	5	=	Nervous system – structure – functions Central nervous system peripheral nervous syste	=	=
8	5	=	The brain and spinal cord	=	=
9	5	=	Different area in br which responsible for ser movement, hearing, sm taste, sight.	=	=
10&11	5	=	Endocrine glands (types functions)	=	=
12&13	5	=	Reproductive system (m and female) structure a functions	=	=

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	

* Medical microbiology:

Course name .1	
Medical Microbiology 1+2	
Course code .2	
M.Mic	
semester/year .3	
First grade\first semester	
Date this description was prepared .4	
5 202\2\17	
Available attendance forms .5	
Number of study hours (total) / Number of units (total) .6	
Total number of hours: 5 hours (2 theoretical + 3 practical) \ Total number units: 5 units	
Name of the course administrator (if more than one name is mentioned) .7	
Dr. Ahmed Khader Abdul Redhaahmed.ganimi@atu.edu.iq M.M. Noor Emad Yahyanoor.yahya@atu.edu.iq	
objectives Course .8	
:Topic objectives **:General objectives** **:The student will be able to get a simple general idea about** **Pathogens (bacteria, fungi, parasites, and viruses), immunity, and disease preventio** **:Specific objectives** **:The student will be able to** **□ Diagnosing some simple cases in his field work, instead of specializing, when he is specialist** **.absent** **□ .Conducting some tests in laboratories** **□ .Collection, preservation and transportation of pathogenic samples** **□ Providing advice on disease prevention and control**	**Course objective Academic**
Teaching and learning strategies .9	
Brainstorming education strategy -1 Real-time feedback education strategy -2 Teaching strategy by exchanging opinions and discussion -3	**Strategy**

Information presentation teaching strategy -4
Education through training strategy and presentation of modern developments

(theoretical)Course structure .1

Learning method	Name of unit or topic	Required learning outcomes	The hours	week
Lectures Laboratories systematic training Summer training	_1History of Microbiology, the pla of microorganisms in the living wor Branches of microbiology. Biological hazards, how to deal with them, and their signs . Warning Signs in laboratories, waste disposal from workshops a Medical laboratories, medical laboratory waste disposal _2Bacterial Morphology, bacter cell structure .	Raising The level of motivation fo learning of various kinds And also help the student to emphasize accountability . And Ensuring the quality of acade programmes Promote the philosophy of continuous follow-up and improvement	2	the first The seco
=	Bacterial requirements, growth curve	=	2	the third
=	Control of microorganisms .	=	2	Fourth
=	Respiratory pathogens .	=	2	Fifth
=	Gastrointestinal pathogens .	=	2	Sixth
=	Urinary and sexually transmitted diseases	=	2	Seventh
=	Food poisoning .	=	2	The eight
=	Hospital contamination .	=	2	Ninth
=	General characteristics of fungi .	=	2	tenth
=	Fungal diseases .	=	2	eleventh
=	Viruses ,their shapes, sizes, and some viral diseases .	=	2	the secon ten
=	introduction of parasites	=	2	thirteenth
=	Protozoa ,Entamoeba histolytica	=	2	fourteenth
=	whip ,giardia, trichinella .	=	2	Fifth ten

Course structure (practical (

Name of unit or topic	Required learning outcomes	watches	week
Tools and Instruments, Microscope, Microscope Parts, Instruments Sterilization ,incubator . 2Cultural means and agricultural methods	Raising The level of motivation for learning o various kinds And also help the student emphasize accountability And Ensuring the quality academic programmes Promote the philosophy c continuous follow-up and improvement	3	the first The seco
Sterilization	=	3	the third

	Preparation of smears from solid and liquid cultures, types of bacterial stains Practical training. Each student has to prep a swap .	=	3	Fourth
	Bacterial motility and capsule staining	=	3	Fifth
	Bacterial diagnosis	=	3	Sixth
	General Urine examination, urine culture, a sampling methods Collect them, cultivate them in special mec and test their sensitivity . Antibiotics .	=	3	Seventh
	Ear and sputum swab and methods of takin and storing these samples	=	3	The eigh
	Sterilization methods	=	3	Ninth
	Growing contaminated food and water	=	3	tenth
	Laboratory Diagnosis of skin, hair, and nai fungi Preparation of wet KOH .	=	3	eleventh
	Virus shapes, data show presentation on shapes and ways Cultivation of these viruses and viral disea .	=	3	the secon ten
	Parasites ,general stool examination and practical examination	=	3	thirteenth
	Diagnosis of Entamoeba coli and Entamoe histolytica by examination Prepare wet mount and permanent stain sli .	=	3	fourteent
	Giardia lamblia and Trichomonas	=	3	Fifth ten

Course Evaluation .2

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

Learning and teaching resources .3

There is no textbook	Required textbooks (methodology if any)
Textbooks in the field of specializatio Specialized practical books	Main references (sources)
- 1Michael J. Leboffe . (2002). Microbiology: Laboratory Theory & Application, Brief 3e 3rd Edition -2PC Trivedi, Sonali Pandey, Seema Bhadauria . 2010. TE BOOK OF MICROBIOLOGY. Aavishkar Publishers, Distributors. ISB 978-81-7910-306-7 . -3Subhash Chandra Parija . 2012. Textbook of Microbiolog and Immunology, 2nd edition . Elsevier	Recommended supporting books and references (scientific journals, reports...)
Official website of the Technica Institute)ikr.atu.edu.iq \\https (	Electronic references, websites

Course name .4
Medical Microbiology 1+2
Course code .5
M.Mic
semester/year .6
second semester - First grade
Date this description was prepared .7
5 202\2\17
Available attendance forms .8
Number of study hours (total) / Number of units (total) .9
Total number of hours: 5 hours (2 theoretical + 3 practical) \ Total number units: 5 units
Name of the course administrator (if more than one name is mentioned).10
Dr. Ahmed Khader Abdul Redhaahmed.ganimi@atu.edu.iq M.M. Noor Emad Yahyanoor.yahya@atu.edu.iq
objectives Course.11

:Topic objectives **:General objectives** **:The student will be able to get a simple general idea about** **Pathogens (bacteria, fungi, parasites, and viruses), immunity, and disease preventio** **:Specific objectives** **:The student will be able to** **□ Diagnosing some simple cases in his field work, instead of specializing, when he is specialist** **.absent** **□ .Conducting some tests in laboratories** **□ .Collection, preservation and transportation of pathogenic samples** **□ Providing advice on disease prevention and control**	**Course objective Academic**

Teaching and learning strategies.12	
Brainstorming education strategy -1 Real-time feedback education strategy -2 Teaching strategy by exchanging opinions and discussion -3 Information presentation teaching strategy -4 Education through training strategy and presentation of modern developments	**Strategy**

(theoretical)Course structure .13

	Learning method	Name of unit or topic	Required learning outcomes	The	week

			hours	
Lectures Laboratories systematic training Summer training	Blood flagellates , leishmania sporozoa, plasmodium, -2 toxoplasma	Raising The level of motivation fo learning of various kinds And also help the student to emphasize accountability . And Ensuring the quality of acade programmes Promote the philosophy of continuous follow-up and improvement	2	the first The second
=	Helimenthes, taenia	=	2	the third
=	Echinococcus granulosis	=	2	Fourth
=	Hymenolipes .	=	2	Fifth
=	Trematoda helminthes	=	2	Sixth
=	Trepanoma, Schistosomes	=	2	Seventh
=	Bacterial genetics	=	2	The eighth
=	Immunity and immune system.	=	2	Ninth
=	Antibody & antigen .	=	2	tenth
=	Antibody & antigen reactions.	=	2	eleventh
=	Hypersensitivity	=	2	the second ten
=	Autoimmune diseases	=	2	thirteenth
=	DISCUSSION OF COURSE MATERIAL	=	2	fourteenth
=	Discussionm of course material	=	2	Fifth ten

Course structure) practical (

Name of unit or topic	Required learning outcomes	wh	week
Flagellates of the blood and tissues, leishmanial 2-Blood collection by finger puncture, preparation of thin a thick blood film of malaria disease, examination of fixed slides for malaria species which are distributed in Iraq & Toxoplasma gondii	Raising The level of motivation for learning of various kinds And also help the student to emphas accountability . And Ensuring the quality of academ programmes Promote the philosophy of continuo follow-up and improvement	3	the first The second
Tapeworms: Taenia saginata an Taenia solium	=	3	the third
Intestinal nematodes: Ascaris , pinworms, Ancylostoma	=	3	Fourth

	Schistosomosis , microscopic examination of fixed slides for eggs in urine and stool	=	3	Fifth
	Echinococcus granulosus	=	3	Sixth
	Immunology and serology orga of the immune system. .	=	3	Seventh
	Methods of blood collection, preparation of serum samples.	=	3	The eighth
	Methods of vaccination.	=	3	Ninth
	Widal test and rose bengal test	=	3	tenth
	Serum inactivation, serological tests for diagnosis of syphilis	=	3	eleventh
	Agglutination reaction, pregnar test	=	3	the second ten
	Hydatid cyst agglutination test	=	3	thirteenth
	Ring test, ouchterlony test.	=	3	fourteenth
	Sensitivity test, skin test for diagnosis of the types of hypersensitivity	=	3	Fifth ten

Course Evaluation.14

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

Learning and teaching resources.15

There is no textbook	Required textbooks (methodology if any)
Textbooks in the field of specializatio Specialized practical books	Main references (sources)
- 1Michael J. Leboffe . (2002). Microbiology: Laboratory Theory & Application, Brief 3e 3rd Edition -2PC Trivedi, Sonali Pandey, Seema Bhadauria . 2010. TE BOOK OF MICROBIOLOGY. Aavishkar Publishers, Distributors. ISB 978-81-7910-306-7 . -3Subhash Chandra Parija . 2012. Textbook of Microbiolog and Immunology, 2nd edition . Elsevier	Recommended supporting books and references (scientific journals, reports...)
Official website of the Technica Institute)ikr.atu.edu.iq \\https (	Electronic references, websites

*Biostatistics:

13. Course Name:	
Biostatistics	
14. Course Code:	
Bio.St.	
15. Semester / Year:	
First grade/ First & Second semester	
16. Description Preparation Date:	
12/ 2/2025	
17. Available Attendance Forms:	
18. Number of Credit Hours (Total) / Number of Units (Total)	
Total number of hours: 2 hours (2 theoretical only) / total number of units: 2 units	
19. Course administrator's name (mention all, if more than one name)	
Manal Mossa Abdulyema manal.abdal-ema.ikr32@atu.edu.iq	
20. Course Objectives	
Course Objectives	**General Objectives: -** - At the end of the academic year, the student will be able to process and analyze statistical data and reach correct conclusions. In particular: - The student will be able to: - Dealing with statistical data. - Dealing with and Motility and Morbidity statistics. - Organizing the statistical form and health form related to daily incidents such as births, deaths and diseases.
21. Teaching and Learning Strategies	
Strategy	- Cooperative education strategy. - Brainstorming education strategy. - Education strategy by exchanging opinions and discussion. - Educational strategy by presenting information.

10. The theoretical structure of the course
First: Course structure (theoretical - first semester)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	**2**	- Raising the level of motivation for learning in its various types: internal motivation. - Creating opportunities to implement the collective planning approach to the curriculum.	Introduction to statistics and its types. - Samples. - Variables. - Classified and	• Lecture. • Systematic training. • Summer training.	• Daily exams. • Quarterly exams Final exams.

			unclassified data		
3+4	**2**	=	Representing frequency distributions for "classified data" - Graphical presentation methods.	=	=
5-7	**2**	=	- Measures of central tendency	=	=
8	**2**	=	Methods of selecting statistical samples, their meaning and reasons for choosing them.	=	=
9+10	**2**	=	Preparing a questionnaire form for medical research.	=	=
11	**2**	=	Definition of Biostatistics and its sources.	=	=
12-14	**2**	=	Life statistics: - The concept of ratio and rate - Mortality. - Morbidity.	=	=
15	**2**	=	Statistics on causes of death: (Medical certificate, cause, death, death certificate).	=	=

Course structure (Theoretical - Second semester)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	**2**	- Raising the level of motivation for learning in its various types: internal motivation. - Creating opportunities to implement the collective planning approach to the curriculum.	Research: (The purpose of the research and what are the ambitions for conducting it)	• Lecture. • Systematic & Summer training.	• Daily exams. • Quarterly exams Final exams.
3	**2**	=	Ethics of scientific	=	=

			research		
4	**2**	=	Structure of scientific research	=	=
5	**2**	=	Types of statistical studies	=	=
6+7	**2**	=	Basics of research - Data collection technology - Data collection plan -data analysis - Testing and ethical considerations	=	=
8-10	**2**	=	Preparing the questionnaire form	=	=
11	**2**	=	How to transcribe questionnaires and convert them into classified statistical data	=	=
12+13	**2**	=	How to start scientific research: (Choose the title, objectives, type of samples)	=	=
14+15	**2**	=	Some applications used in scientific research.	=	=

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	Life Statistics Manual, a methodological book / 1986
Main references (sources)	• Scientific methodological books in the field of specialization • Specialized practical books.
Recommended books and references (scientific journals, reports...)	World Health Organization Textbook of Community Medicine
Electronic References, Websites	The official website of the Technical Institute https://ikr.atu.edu.iq

* Biochemistry:

14. Course Name:	Biochemistry I
15. Course Code:	T.C.H
16. Semester / Year:	1st sem. 2024-2025
17. Description Preparation Date:	1/9/2024
18.Available Attendance Forms:	Compulsory / academic course
19.Number of Credit Hours (Total) / Number of Units (Total)	
5 units (2 theory + 3 practical) /5 units	
20. Course administrator's name (mention all, if more than one name)	
1- Lec. Dr. Aziz Hussein Jasim Email: Aziz.Jasim@alzahraa.edu.iq **2- Asst. Lec. Amani Nadhim Kadhim** Email: Amani.kadhim.ikr@atu.edu.iq	
21. Course Objectives	
Course Objectives	**• Knowledge of the basics and components of life molecules** **• Knowledge of cellular metabolism and energ extraction** **• Knowing the ways they interact within the b of a living organism**
22. Teaching and Learning Strategies	
Strategy	• **Giving detailed theoretical lectures**

	• **Use the smart board** • **Use presentation slides** • **Requiring periodic reports**
23. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to the macromolecules biochemistry	Definitions and terms; proteins, enzymes; Clinical value.	The use of references and use the smart board	Monthly written examinations and oral examinations
2	3	Amino acids	Structures of A.A (table of standard A.A abbreviationand side chain); Classification, properties, isomerism.	The use of references and use the smart board	Monthly written examinations and oral examinations
3	3	Amino acids	Chemical reactions, Zwitter ions, titration curve calculating isoelectric point values. Examples and questions. Non standards A.A: Structures, existence and clinical value.	The use of references and use the smart board	Monthly written examinations and oral examinations
4	3	Peptides	Peptide bond, resonance forms, isomers, physical propertiesand chemical reactions. Essential poly peptides in human body, structures, roles and clinical values.	The use of references and use the smart board	Monthly written examinations and oral examinations
5	3	Proteins	Structure and conformations of proteins, Primary structure,Secondary	The use of references and use the smart board	Monthly written examinations and oral examinations

			structure (4 helix, 5 sheet), tertiary structure, quaternary structure. Classification, synthesis, cellular functions (Enzymes, cellsignaling, and ligand transport, structural proteins), protein in nutrition.		
6	3	Denaturation of proteins and protein sequencing	Determining A.A composition, N-terminal A.A analysis, C-terminal A.A analysis, Edman degradation, prediction protein sequence from DNA/ RNA sequences. Methods of protein study: Protein purification, cellular localization, proteomics and bioinformatics, structure predication and simulation.	The use of references and use the smart board	Monthly written examinations and oral examinations
7	3	Carbohydrates	Chemistry and classification, biomedical importance, classification of CHO, Stereochemistry of monosaccharides,	The use of references and use the smart board	Monthly written examinations and oral examinations

			metabolism of CHO; Physiologically important monosaccharides, glycosides, disaccharides, polysaccharides.		
8	3	Lipids	Introduction, classification of lipids, fatty acids (F.A), nomenclature of F.A, saturated F.A, unsaturated F.A, physical and physiological properties of F.A, metabolism of lipids. Phospholipids,lipid peroxidation and antioxidants, separation and identification of lipids, amphipathic lipids.	The use of references and use the smart board	Monthly written examinations and oral examinations
9	3	Enzymes	Structures and mechanism, nomenclature, classification, mechanisms of catalysis, thermodynamics, specificity, lock and key model, induced fit model, transition state stabilization, dynamics and function, allosteric	The use of references and use the smart board	Monthly written examinations and oral examinations

			modulation. Biological function, cofactors, coenzymes, involvement in disease.		
10	2	Kinetics	General principles, factors effecting enzyme rates (substrateconc., pH, temperature, etc), single-substrate reaction (Michaelis-Menten kinetics), kinetic constants. Examples of kinetic questions and solutions.	The use of references and use the smart board	Monthly written examinations and oral examinations
11	1	Enzyme inhibition	Reversible inhibitors, competitive and non competitive inhibition, mixed-type inhibition, Irreversible inhibition. Inhibition kinetics and binding affinities (*ki*), questions and solutions.	The use of references and use the smart board	Monthly written examinations and oral examinations
12	1	Control of activity and uses of inactivators	multi-substrate reactions,ternary-complex mechanisms, ping-pong mechanisms, non- Michaelis-Menten kinetics, pre-steady-state	The use of references and use the smart board	Monthly written examinations and oral examinations

			kinetics, chemical mechanisms.		
13	3	Nucleic Acid	Chemical structure, nucleic acid components, nucleic acid bases, nucleotides and deoxynucleotides (Properties, base pairing, sense and antisense, super-coiling, alternative structures, quadruple structures.	The use of references and use the smart board	Monthly written examinations and oral examinations
14	2	Biological functions of DNA	Genes and genomes, transcription and translation, replication.	The use of references and use the smart board	Monthly written examinations and oral examinations
15	3	Biochemistry of extracellular and intracellular communication	Plasma membrane structure and function; Biomedical importance, membraneproteins associated with lipid bilayer, membranes protein composition, dynamic structures of membranes, a symmetric structures of membranes.	The use of references and use the smart board	Monthly written examinations and oral examinations
16	1	Artificial membranes model, the fluid mosaic model, membrane	**Coronary circulation; Hypertension; Heart failure; Angina pectoris.**	The use of references and use the smart board	Monthly written examinations and oral examinations

		selectivity, physiological functions of plasma membranes.			
17	3	Biochemistry of the endocrine system	Classification of hormones, biomedical importance, the target cell concept and hormone receptors, biochemistry of hormone action and signal transduction.	The use of references and use the smart board	Monthly written examinations and oral examinations
18	3	Special topics	Nutrition, digestion, and absorption. Biomedical importance, digestion and absorption of carbohydrates, lipids, proteins, vitamins and minerals; energy balance. Biochemistry of hemostasis and clot formation.	The use of references and use the smart board	Monthly written examinations and oral examinations

24. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student for the theoretical and practical parts, such as daily preparation, reports, daily, oral, monthly, and final written exams.

25. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Harper's Illustrated Biochemistry last Edition
Main references (sources)	Lippincott's principles biochemistry last edition

	Lehninger principles biochemistry last edition
Recommended books and references (scientific journals, reports…)	The institute library contai relevant resources
Electronic References, Websites	The electronic library of the Ministry of Higher Education Pub med.gov & NCBI
Course development plan	Accessing curricula in foreign universities and learning about modern curricula

Practical part

Week	Details
1	Laboratory Safety - Tools used in a clinical chemistry laboratory and how to use them
2	The devices used in the clinical chemistry laboratory - the centrifuge and how to use it - the scales and how to use them - the water bath and its uses
3	Methods of analysis used in clinical chemistry laboratories - methods of preparing solutions - standard solution - molar solution - percent concentration solution - and how to prepare each of them.
4	Hydrogen concentration (pH) - Methods for preparing buffer solutions - Measuring the hydrogen concentration using pH measuring papers and using a pH measuring device by measuring the pH of a number of different solutions - Measuring the pH concentration of blood and urine
5	General urine analysis, including physical analysis of urine (color - pH concentration - measurement of specific density of urine - transparency) - chemical analysis of urine (sugar in urine - albumin - ketone bodies - bilirubin - urobilonegen)
6	Blood - Drawing blood - Methods of blood collection and conditions to be followed for preserving blood samples - Preparation of blood plasma - Preparation of blood serum
7	Quantitative analysis methods - titration method - measuring the level of chloride in blood serum using the scattering method.
8	Measurement of calcium level in blood serum by scaling method

9	Chromatography method - chromatography devices - spectrophotometer device basic components of the device - how to use the device - maximum absorption curve - standard curve
10	Measurement of phosphorous level in blood serum by chromatography method
11	Measurement of iron level in blood serum by chromatography method
12	Flame illuminator - The basic components of a flame illuminator - How to use a flame illuminator
13	Using a flame retardant to measure the level of sodium and potassium in the blood serum
14	Glucose - measuring blood sugar level
15	Lipids - measure the level of cholesterol in the blood serum

References:

1- New Chemistry / Mohamed Fathy El-Hawari / Technical Education Authority

2- New Chemistry Theory / Mohamed El-Ramzi El-Omari / Technical Education Authority

3- Scientific Chemistry / Mohamed El-Ramzi El-Omari / Technical Education Authority

4- General Chemistry / Saiba Abdullah - Hanaa Salman - Maysoun Suleiman / Technical Education Authority

5- Quality Control for Pharmacy Students / Sayed Mohamed Abu Zeid / Technical Education Authority

6- Analytical Chemistry / Dr. Sajida Abdel Hamid / Technical Education Authority

7-Fundamentals of Clinical Chemistry / Norbert Tietz

8- Clinical Chemical Pathology / G.H. Gary

26.	Course Name:	Biochemistry II
27.	Course Code:	T.C.H
28.	Semester / Year:	2nd sem. 2024-2025

29. Description Preparation Date: 4/3/2025	
30.Available Attendance Forms: Compulsory / academic course	
31.Number of Credit Hours (Total) / Number of Units (Total)	
5 units (2 theory + 3 practical) /5 units	
32. Course administrator's name (mention all, if more than one name)	
1- Lec. Dr. Aziz Hussein Jasim Email: Aziz.Jasim@alzahraa.edu.iq **2- Asst. Lec. Amani Nadhim Kadhim** Email: Amani.kadhim.ikr@atu.edu.iq	
33. Course Objectives	
Course Objectives	**• Knowledge of the basics and components of life molecules** **• Knowledge of cellular metabolism and energ extraction** **• Knowing the ways they interact within the b of a living organism**
34. Teaching and Learning Strategies	
Strategy	• **Giving detailed theoretical lectures** • **Use the smart board** • **Use presentation slides** • **Requiring periodic reports**
35. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to the macromolecules biochemistry	Definitions and terms; proteins, enzymes, DNA; Clinical value.	The use of references and use the smart board	Monthly written examinations and oral examinations
2	3	Amino acids	Structures of A.A (table of standard A.A abbreviationand side chain); Classification, properties, isomerism.	The use of references and use the smart board	Monthly written examinations and oral examinations
3	3	Amino acids	Chemical reactions, Zwitter ions, titration curve calculating isoelectric point values. Examples and questions. Non standards A.A: Structures, existence and clinical value.	The use of references and use the smart board	Monthly written examinations and oral examinations
4	3	Peptides	Peptide bond, resonance forms, isomers, physical propertiesand chemical reactions. Essential poly peptides in human body, structures, roles and clinical values.	The use of references and use the smart board	Monthly written examinations and oral examinations
5	3	Proteins	Structure and conformations of proteins, Primary structure,Secondary	The use of references and use the smart board	Monthly written examinations and oral examinations

			structure (4 helix, 5 sheet), tertiary structure, quaternary structure. Classification, synthesis, cellular functions (Enzymes, cellsignaling, and ligand transport, structural proteins), protein in nutrition.		
6	3	Denaturation of proteins and protein sequencing	Determining A.A composition, N-terminal A.A analysis, C-terminal A.A analysis, Edman degradation, prediction protein sequence from DNA/ RNA sequences. Methods of protein study: Protein purification, cellular localization, proteomics and bioinformatics, structure predication and simulation.	The use of references and use the smart board	Monthly written examinations and oral examinations
7	3	Carbohydrates	Chemistry and classification, biomedical importance, classification of CHO, Stereochemistry of monosaccharides,	The use of references and use the smart board	Monthly written examinations and oral examinations

			metabolism of CHO; Physiologically important monosaccharides, glycosides, disaccharides, polysaccharides.		
8	3	Lipids	Introduction, classification of lipids, fatty acids (F.A), nomenclature of F.A, saturated F.A, unsaturated F.A, physical and physiological properties of F.A, metabolism of lipids. Phospholipids,lipid peroxidation and antioxidants, separation and identification of lipids, amphipathic lipids.	The use of references and use the smart board	Monthly written examinations and oral examinations
9	3	Enzymes	Structures and mechanism, nomenclature, classification, mechanisms of catalysis, thermodynamics, specificity, lock and key model, induced fit model, transition state stabilization, dynamics and function, allosteric	The use of references and use the smart board	Monthly written examinations and oral examinations

			modulation. Biological function, cofactors, coenzymes, involvement in disease.		
10	2	Kinetics	General principles, factors effecting enzyme rates (substrateconc., pH, temperature, etc), single-substrate reaction (Michaelis-Menten kinetics), kinetic constants. Examples of kinetic questions and solutions.	The use of references and use the smart board	Monthly written examinations and oral examinations
11	1	Enzyme inhibition	Reversible inhibitors, competitive and non competitive inhibition, mixed-type inhibition, Irreversible inhibition. Inhibition kinetics and binding affinities (*ki*), questions and solutions.	The use of references and use the smart board	Monthly written examinations and oral examinations
12	1	Control of activity and uses of inactivators	multi-substrate reactions,ternary-complex mechanisms, ping-pong mechanisms, non- Michaelis-Menten kinetics, pre-steady-state	The use of references and use the smart board	Monthly written examinations and oral examinations

			kinetics, chemical mechanisms.		
13	3	Nucleic Acid	Chemical structure, nucleic acid components, nucleic acid bases, nucleotides and deoxynucleotides (Properties, base pairing, sense and antisense, super-coiling, alternative structures, quadruple structures.	The use of references and use the smart board	Monthly written examinations and oral examinations
14	2	Biological functions of DNA	Genes and genomes, transcription and translation, replication.	The use of references and use the smart board	Monthly written examinations and oral examinations
15	3	Biochemistry of extracellular and intracellular communication	Plasma membrane structure and function; Biomedical importance, membraneproteins associated with lipid bilayer, membranes protein composition, dynamic structures of membranes, a symmetric structures of membranes.	The use of references and use the smart board	Monthly written examinations and oral examinations
16	1	Artificial membranes model, the fluid mosaic model, membrane	**Coronary circulation; Hypertension; Heart failure; Angina pectoris.**	The use of references and use the smart board	Monthly written examinations and oral examinations

		selectivity, physiological functions of plasma membranes.			
17	3	Biochemistry of the endocrine system	Classification of hormones, biomedical importance, the target cell concept and hormone receptors, biochemistry of hormone action and signal transduction.	The use of references and use the smart board	Monthly written examinations and oral examinations
18	3	Special topics	Nutrition, digestion, and absorption. Biomedical importance, digestion and absorption of carbohydrates, lipids, proteins, vitamins and minerals; energy balance. Biochemistry of hemostasis and clot formation.	The use of references and use the smart board	Monthly written examinations and oral examinations

36. Course Evaluation	
Distribution of the grade out of 100 according to the tasks assigned to the student for the theoretical and practical parts, such as daily preparation, reports, daily, oral, monthly, and final written exams.	
37. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Harper's Illustrated Biochemistry last Edition
Main references (sources)	Lippincott's principles biochemistry last edition

	Lehninger principles biochemistry last edition
Recommended books and references (scientific journals, reports…)	The institute library contai relevant resources
Electronic References, Websites	The electronic library of the Ministry of Higher Education Pub med.gov & NCBI
Course development plan	Accessing curricula in foreign universities and learning about modern curricula

Practical part:

Week	Details
1	Measurement of the level of triglycerides in the blood serum
2	Proteins - measurement of the level of total protein and albumin in the blood serum by the Bayuret method
3	Protein separation methods - Electrophoresis method - Electrophoresis device - Device components and method of use
4	Using an electrophoresis device to separate serum proteins using cellulose acetate leaves as a support medium
5	Non-protein nitrogen compounds - measurement of uric acid level in blood serum
6	Measurement of urea level in blood serum
7	Measurement of creatinine and creatinine levels in the blood serum
8	Liver function tests - measure the level of total bilirubin conjugated bilirubin unconjugated bilirubin in the blood serum
9	Enzymes - measure the level of activity of the basal phosphatase enzyme in the blood serum
10	Measurement of the level of activity of acid phosphatase in the blood serum
11	Transaminase enzymes, measuring the level of activity of the enzyme (GOT) in the blood serum
12	Measurement of the level of activity of the enzyme (GPT) in the blood serum

13	Measurement of the level of activity of the enzyme amylase in the blood serum
14	Measurement of the level of activity of the enzyme lipase in the blood serum
15	Advanced devices that are used in clinical chemistry examinations - Auto analyzer, PCR device - Visit a hospital to identify the devices and how to use them

References:

1- New Chemistry / Mohamed Fathy El-Hawari / Technical Education Authority

2- New Chemistry Theory / Mohamed El-Ramzi El-Omari / Technical Education Authority

3- Scientific Chemistry / Mohamed El-Ramzi El-Omari / Technical Education Authority

4- General Chemistry / Saiba Abdullah - Hanaa Salman - Maysoun Suleiman / Technical Education Authority

5- Quality Control for Pharmacy Students / Sayed Mohamed Abu Zeid / Technical Education Authority

6- Analytical Chemistry / Dr. Sajida Abdel Hamid / Technical Education Authority

7-Fundamentals of Clinical Chemistry / Norbert Tietz

8- Clinical Chemical Pathology / G.H. Gary

Computer applications1

computer Applications Course name .1
code Headquarters .2
C.O
annual semester/year .3
2025 Date this description was prepared .4
My presence Available attendance forms .5
/3s / Number of units (total) / per year Number of study hours (total) .6

units (1 theoretical - 2 practical) 3	
Name of the course administrator (if more than one name is mentioned) .7	
: Name: M.M. Wassan Mubdar Khalkhal Emailwasan.khilkhal.ikr15@atu.edu.iq	
objectives Course .8	
The student must be able to use a computer, familiar with its use, and .understand how to use its software	Course objectives
Teaching and learning strategies .9	
Lectures Practical application Discussions between students Daily tests or quizzes	Strategy

: Course structure **.1**

Evaluation method	Teaching method	Unit name/topic	Required learning outcomes	watches	week
Questions and Answers	Lecture	Introduction to computers: their generations - their hardware and software components (system software and application (software	Cognitive	3	the first
Questioning and practical groups	Lecture and discussion	MS-DOS Operating System : Operating System Concept - System Reference - Disks - Directories and Their Levels and Files - Internal and External Operating System Commands	Cognitive and applied	3	the second
Practical groups	Lecture and discussion	Internal operating system :commands Dir-del-time-date- cls - RD-CD-MD-Echo-Ren-copy-Vol- Ver -Path	Cognitive and applied	3	Third to twelfth
Listening	a lecture	Windows operating	Cognitive	3	thirteenth

and asking questions	Discussion and questions	system - Windows concept - its advantages - its basic requirements - operating the system	, applied		to fifteenth

Course Evaluation .1	
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.	
Learning and teaching resources .2	
Curriculum	Required textbooks (methodology if any)
-	Main references (sources)
Specialized websites	Electronic references, websites

*Human rights and democracy:

1. The rapporteur's name	
Hussein Ali Muhammad	
2. Course Code	
3. Semester/ year	
First Year / second Semester	
4. The date this description was prepared	
10/2/2025	
5. A. Attendance forms available for the first stage	
6. Number of study hours (total)/number of units (total)	
2	
7. Name of the course administrator (if more than one name is mentioned)	
Hussain Ali Mohammed hussain.muhammed@atu.edu.iq	
8. objectives Course	
1- The student learns about the principles and values of human rights 2- Defining and educating generations on democracy Respect it and stick to it. 3- Learn about public freedoms and what these freedoms are Its details	Objectives of the stu subject
9. Teaching and learning strategies	
The student learns about continuous awareness of human rights and tl	**The strategy**

.fundamental freedoms associated with them And to fight everything that aims to ignore it, harm it, or undermine its sancti and to recognize .The concept of democracy and its relationship to public freedoms	

10. Course structure

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	the week
oral test	a lecture	rights Human Definition and objectives	Community health technologies	2	1
oral test	a lecture	Human rights in ancient civilizations, especially the Mesopotamian civilization	Community health technologies	2	2
oral test	a lecture	Human rights in heavenly laws	Community health technologies	2	3
A written test	discussion	Human rights in Islam	Community health technologies	2	4
oral test	a lecture	Non-governmental organizations and human rights International) Committee of the Red Cross - Amnesty - International	Community health technologies	2	5
oral test	a lecture	Human Rights Watch Arab Human Rights - .Organizations	Community health technologies	2	6
oral test	a lecture	Human rights in Iraqi constitutions between theory and reality. - The Iraqi Constitution	Community health technologies	2	7
oral test	a lecture	The relationship between human rights and public .freedoms	Community health technologies	2	8
oral test	a lecture	Universal Declaration of Human Rights	Community health technologies	2	9
A written test	discussion	Regional charters and national .constitutions	Community health technologies	2	10

oral test	a lecture	Modern human rights: economic, social and cultural human rights and civil and political (human rights	Community health technologies	2	11
oral test	discussion	Guarantees of respect and protection of human rights at the national and .international levels	Community health technologies	2	12
oral test	a lecture	The general theory of freedoms: the origin of rights and freedoms - the project's position on declared rights and .freedoms	Community health technologies	2	13
oral test	a lecture	The role of non-governmental organizations in respecting and protecting human rights	Community health technologies	2	14
oral test	a lecture	Democracy definition and types	Community health technologies	2	15

11. Headquarters evaluation t

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
marks monthly exam 40
marks for daily and oral preparation and report writing 10
final exam score 50

12. Learning and teaching resources

Human rights and democracy	Required textbooks (methodology, if any)
Public opinion and human rights / Dr. Am Hassan Fayyad	Main references (sources)
Scientific journals, periodicals and research And specialty	Recommended supporting books and references (scientific journals, reports....)
Internet sites (YouTube and Google) and oth media Communication in the specialty	Electronic references, Internet sites

*** English:**

1. Course Name:	
English Language	
2. Course Code:	
3. Semester / Year:	
First year / Second semester	
4. Description Preparation Date:	
18/2/2025	
5. Available Attendance Forms:	
Present	
6. Number of Credit Hours (Total) / Number of Units (Total)	
2 Theoretical / Number of Total unit 4 unite	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist. Dywan Hussein Wady Diwan.ikr@atu.edu.iq	
8. Course Objectives	
Course Objectives	**General Objectives** The student will be able to know medical English in general **Special Objectives** - Define and identify the functions of Root, Suffixes and Prefixs in medical terms, - Pronounce medical terms containing root, suffixes and prefixes properly and analyze medical terms into their components - Read and write definitions of medical terms, diseases, and medical procedures - differentiate between the terms system, organ, and tissue - Paraphrase a sentence or a paragraph - Write a referral letter and prepare an oral presentation
9. Teaching and Learning Strategies	
Strategy	- Cooperative education strategy. - Brainstorming education strategy. - Educational strategy, collaborative concept planning. - Strategy education real-time feedback - Education strategy notes series. - Education strategy by exchanging opinions and discussion. - Educational strategy by presenting information.

	- Education strategy through training and presenting scientific developments.

10. The theoretical structure of the course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First & Second	2	- Raising the level of motivation for learning in its various types: internal motivation, social motivation, and achievement motivation. - Creating opportunities to implement a collective planning approach to the curriculum, and for cooperation among faculty members to identify gaps and repetitions.	- Medical terms (human body) - Root - suffixes and - prefixes.	1. Lecturer 2. Scientific Lab 3. Systematic training. 4. Summer traini	1. Daily Quick Qu 2. 2. Oral exams 3. Theoretical exa 4. Reports 5. dissuasion
Third	=	=	Spelling of medic terms	=	=
Fourth	=	=	- Pronouncing of medical terms - Pronounce exerc	=	=
Fifth	=	=	Vocabulary development (medical vacobula	=	=
Six & Seve	=	=	reading	=	=
Eighth and Ninth	=	=	Writing	=	=
Tenth and Elenth	=	=	grammar	=	=
Twelfth & Thirteenth	=	=	Oral communicati	=	=
Fourteenth	=	=	Review	=	=
Fifteenth	=	=	Final exam	=	=

The practical structure of the course

No Practical Structure Theory only

10. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily

preparation, daily oral, monthly, or written exams, reports.... etc	
11. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	English for medicine and health science By shehde and Fareh
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Internet
Electronic References, Websites	(https://ikr.atu.edu.iq)

COURSE DESCRIPTION FORMS FOR THE SECOND YEAR

* Community health

1. Course Name:
Community Health
2. Course Code:
C.H
3. Semester / Year:
Second grade/First semester
4. Description Preparation Date:
6/2/2025
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
Total number of hours: 5 hours (2 theoretical + 3 practical) / total number of units: 5 units

7. Course administrator's name (mention all, if more than one name)	
Maytham Salim AL-Nasrawii	**maytham.alnasrawii@atu.edu.iq**
8. Course Objectives	
Course Objectives	**General Goals:** The student will be able to become familiar with community health concepts and related techniques. **Special: The student will be able to:** 1. To become familiar with the components of public health and health education. 2. To know how to organize forms for pregnant women and children at the family registrar. 3. To know the importance of nutrition 4. To become familiar with health information and standards of health and disease.
9. Teaching and Learning Strategies	
Strategy	- Cooperative education strategy. - Brainstorming education strategy. - Educational strategy, collaborative concept planning. - Strategy education real-time feedback - Education strategy by exchanging opinions and discussion. - Educational strategy by presenting information. - Education strategy through training and presenting scientific developments.

10. The theoretical structure of the course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2	- Cooperative education strategy. - Brainstorming education strategy. - Educational strategy, collaborative concept planning. - Strategy education real-time feedback - Education strategy by exchanging	1- Definition of health and Diseases : - Diseases cause. - The epidemiological triad.	1. The lecture. 2.Laboratories. 3. Field visits. 4. Systematic training. 5. Summer training	• Daily exams. • Quarterly exams • Final exams. • Practical projects.

		opinions and discussion. - Educational strategy by presenting information. - Education strategy through training and presenting scientific developments.			
Second-Fourth	2	=	Community health & PHC.		
Fifth	2	=	Health education.		
Sixth	2	=	Nutrition. (Basic food components and their importance.)		
Seventh & Eighth	2	=	Environmental health:- •Environmental health goals. •air pollution. •Water pollution.		
Ninth & Tenth	2	=	• Medical waste (classification, methods of handling, and how to dispose of it) • Waste and its types (disposal of liquid and solid waste)		
Eleventh	2	=	Disabilities: A - Physical disabilities. B - The mentally disabled.		
Twelfth	2	=	Rehabilitation - Types of rehabilitation.		
Thirteenth	2	=	Controlling		

			infectious diseases (transmissible diseases).		
Fourteenth	2	=	Non-communicable diseases.		
Fifteenth	2	=	Vital statistics:- The general method of health research. - Information about births and deaths.		
The practical structure of the course					
First to third	3	- Raising the level of motivation for learning in its various types: internal motivation, social motivation, and achievement motivation. - Creating opportunities to implement a collective planning approach to the curriculum, and for cooperation among faculty members to identify gaps and repetitions. - Helping the student to ensure that decisions related to the curricula and educational environment are rational. - Helping the student to ensure accountability and ensure the quality of academic	PHC	1. The lecture. 2.Laboratories. 3. Field visits. 4. Systematic training. 5. Summer training	• Daily exams. • Quarterly exams • Final exams. • Practical projects.

		programs.			
Fourth & Fifth	**3**	=	Injections and vaccines.- National vaccination schedule in Iraq.		
Sixth	**3**	=	A visit to primary health care centers.		
Seventh	**3**	=	Discussing student reports.		
Eighth	**3**	=	School health and how to conduct initial examinations.		
Ninth	**3**	=	A visit to the Environmental Protection Center.		
Tenth	**3**	=	A visit to the Nutrition Research Center.		
Eleventh	**3**	=	Practical training at the Center for Endemic Diseases.		
Twelfth	**3**	=	A visit to the Institute for the Disabled (physically and mentally).		
Thirteenth	**3**	=	A visit to the Isolation hospital		
Fourteenth	**3**	=	Preventive measures regarding non-communicable diseases.		
Fifteenth	**3**	=	Discussing student reports.		
10. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports.... etc					
11. Learning and Teaching Resources					
Required textbooks (curricular books, if an			There is no systematic book.		

Main references (sources)	• Scientific methodological books in the field of specialization • Specialized practical books.
Recommended books and references (scientific journals, reports...)	World Health Organization Textbook of Community Medicine
Electronic References, Websites	The official website of the Technical Institute https://ikr.atu.edu.iq

* International Health:

13. Course Name:	
International Health	
14. Course Code:	
T.C.H	
15. Semester / Year:	
Second grade/second semester	
16. Description Preparation Date:	
6/2/2025	
17. Available Attendance Forms:	
18. Number of Credit Hours (Total) / Number of Units (Total)	
Total number of hours: 5 hours (2 theoretical + 3 practical) / total number of units: 5 units	
19. Course administrator's name (mention all, if more than one name)	
Name: **Maytham Salim AL-Nasrawii** Email: **maytham.alnasrawii@atu.edu.iq**	
20. Course Objectives	
Course Objectives	**General Goals:** Students will be able to gain a deeper knowledge and understanding of health-related challenges in a global perspective to develop critical thinking to formulate guidelines and policies related to international

	health.
21. Teaching and Learning Strategies	
Strategy	- Cooperative education strategy. - Brainstorming education strategy. - Educational strategy, collaborative concept planning. - Strategy education real-time feedback - Education strategy by exchanging opinions and discussion. - Educational strategy by presenting information. - Education strategy through training and presenting scientific developments.

10. The theoretical structure of the course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First & Secor	2	- Cooperative education strategy. - Brainstorming education strategy. - Educational strategy, collaborative concept planning. - Strategy education real-time feedback - Education strategy by exchanging opinions and discussion. - Educational strategy by presenting information. - Education strategy through training and presenting scientific developments.	1- International health. (The concept of international health - the emergence of international health).	1. The lecture. 2.Laboratories. 3. Field visits. 4. Systematic training. 5. Summer training	• Daily exams. • Quarterly exams • Final exams. • Practical projects.
Third	2	=	3- Global policy for international health.		
Fourth	2	=	4- Ethical issues in providing international health services.		
Fifth	2	=	5- International treaties and		

			international health diplomacy.		
Sixth	2	=	6- Global health policy frameworks: development, economics, security, human rights.		
Seventh	2	=	7- Eradication and elimination of diseases.		
Eighth	2	=	8- Definition of infectious disease and what are the factors of the epidemiological triad.		
Ninth	2	=	9- Methods of prevention against infectious diseases.		
Tenth	2	=	10- Methods of controlling infectious diseases.		
Eleventh	2	=	11- Vital statistics in determining the epidemiology of infectious diseases.		
Twelfth	2	=	12 - AIDS and hepatitis types (A) and (B)		
Thirteenth	2	=	13- Pandemic influenza disease (Corona, bird and swine flu).		
Fourteenth	2	=	14- Hemorrhagic		

			fever (Ebola hemorrhagic disease).		
Fifteenth	2	=	15- Malaria.		
The practical structure of the course					
First & Second	3	- Raising the level of motivation for learning in its various types: internal motivation, social motivation, and achievement motivation. - Creating opportunities to implement a collective planning approach to the curriculum, and for cooperation among faculty members to identify gaps and repetitions. - Helping the student to ensure that decisions related to the curricula and educational environment are rational. - Helping the student to ensure accountability and ensure the quality of academic programs.	1- Introduction to international health.	1. The lecture. 2.Laboratories. 3. Field visits. 4. Systematic training. 5. Summer training	• Daily exams. • Quarterly exams • Final exams. • Practical projects.
Third	**3**	=	3- International measures to limit the spread of diseases.		
Fourth	**3**	=	4- International health procedures for travelers and refugee camps.		
Fifth	**3**	=	5- Transmissible		

			diseases and ways to prevent them.		
Sixth & Seventh	**3**	=	6- Non-communicable diseases. (Diabetes and high blood pressure)		
Eighth	**3**	=	8- Discussing student reports.		
Ninth	**3**	=	9- Discussing student reports.		
Tenth	**3**	=	10- Meningeal disease.		
Eleventh	**3**	=	11- Anthrax.		
Twelfth	**3**	=	12- Sexually transmitted diseases (syphilis, human papillomavirus).		
Thirteenth	**3**	=	13- A visit to the fever hospital.		
Fourteenth	**3**	=	14- Discussing student reports.		
Fifteenth	**3**	=	15- Discussing student reports.		

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)	There is no systematic book.
Main references (sources)	• Scientific methodological books in the field specialization • Specialized practical books.
Recommended books and references (scientific journals, reports...)	World Health Organization Textbook of Commu Medicine
Electronic References, Websites	The official website of the Technical Institute https://ikr.atu.edu.iq

*Health inspection:

1. Course Name:
Health inspection
2. Course Code:
I.C.H
3. Semester / Year:
Second Year / First and second Semester
4. Description Preparation Date:
14/2/2025
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
Total number of hours: 6 hours (2 theoretical + 4 practical) / total number of units: 6 units
7. Course administrator's name (mention all, if more than one name)
Name: Ahmed Ali Khesbak Email : ahmed.khesbak@atu.edu.iq
8. Course Objectives

Course Objectives	**General Goals:** At the end of the academic year, the student will be able to become familiar with the programs and concept of health inspection. **Special: The student will be able to:** 1. To become familiar with the foundations, rules and requirements for the success of the inspection process. 2. To determine the health conditions and specifications that must be legally available in controlled stores
9. Teaching and Learning Strategies	
Strategy	It is one of the methods of education and training that represents realistic behavior in an artificial situation, and each individual participant in the educational activity assumes one of the roles that exist in the realistic situation, and interacts with others within the limits of the relationship of his role to their roles. Its objectives: • Providing opportunities for students to express themselves and their emotions. • Increasing students' interest in the subject of the lesson at hand, as the teacher can include new scientific material in it, or reinforce the scientific material studied.

10. The theoretical structure of the course

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2	- Raising the level of motivation for learning in its various types: internal motivation. -- Creating opportunities to implement the collective planning	The concept of health control, food system	• Lecture. • Systematic training. 4. Summer training.	• Daily exams. • Quarterly exams • Final exams.
Second-Fourth	2	=	Food safety, environmental safety	=	=
Fifth	2	=	Conditions for granting health leave, conditions that must be met by the leave holder and the workers	=	=
Sixth	2	=	General Conditions	=	=

Seventh & Eighth	2	=	Special conditions, including hotels, rest houses, public cafes, casinos, family parks, and shops selling coffee and travel tea.	=	=
Ninth & Tenth	2	=	Ovens, bakeries and pastries, food and beverage preparation and serving shops	=	=
Eleventh	2	=	Shops that prepare and sell service ice cream, and shops that sell individual home food supplies	=	=
Twelfth	2	=	Stores selling meat, dairy, eggs, and animal products (wholesale), stores selling red meat, poultry and their products	=	=
Thirteenth	2	=	Stores selling ready-made food and drinks, shops selling river and sea fish wholesale and retail, kiosks selling sherbet, juice	=	=

			and ready-made food.		
Fourteenth	2	=	Barber and beauty salons, coffee grinding and selling shops, live chicken shops	=	=
Fifteenth	2	=	Fitness house	=	=
The practical structure of the course					
First	**4**	- Raising the level of motivation for learning in its various types: internal motivation. - Creating opportunities to implement the collective planning	A visit to the Oversight Division and learning about its units and the duties of each unit	• Lecture. • Systematic training. Summer training.	• Daily exams. • Quarterly exams Final exams.
Second	**4**	=	How to keep records and other administrative matters	=	=
Third	**4**	=	Work contexts	=	=
Fourth	**4**	=	Hotels and rest houses	=	=
Fifth	**4**	=	Public cafes, casinos, family parks, shops selling coffee and travel tea	=	=
Sixth	**4**	=	Ovens, bakeries and pastries, food and beverage preparation and serving shops	=	=
Seventh	**4**	=	Shops that prepare and sell service ice cream, and shops that sell individual home food supplies	=	=

Eighth	**4**	=	Stores selling meat, dairy, eggs, and animal products (wholesale), stores selling red meat, poultry and their products	=	=
Ninth	**4**	=	Stores selling ready-made food and drinks, shops selling river and sea fish wholesale and retail, kiosks selling sherbet, juice and ready-made food.	=	=
Tenth	**4**	=	Barber and beauty salons, coffee grinding and selling shops, live chicken shops	=	=
Eleventh	**4**	=	The role of agility	=	=
Twelfth	**4**	=	Food industry laboratory	=	=
Thirteenth	**4**	=	Food processing plant	=	=
Fourteenth	**4**	=	Food appetizers factory	=	=
15	**4**	=	Sweets factory	=	=
Course structure (Theoretical - Second semester)					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
First	2	=	Snow coefficient, gypsum coefficient	=	=
Second	2	=	Juice and jam factories, mineral water and soft drinks factories	=	=
Third	2	=	Desalination and sterilization plants for drinking water	=	=

Fourth	2	=	Beauty centers	=	=
Fifth	2	=	Cosmetics and detergent laboratories	=	=
Sixth	2	=	Means of transport intended for transporting, preserving, displaying, selling and processing food materials	=	=
Seventh	2	=	Public bathrooms, swimming pools	=	=
Eighth	2	=	Organizing the work of street vendors	=	=
Ninth	2	=	Health and environmental inspection of schools	=	=
Tenth	2	=	Massacres	=	=
Eleventh	2	=	Entities supporting health oversight work	=	=
Twelfth	2	=	Sanitary landfill sites	=	=
Thirteenth	2	=	Hazard analysis and critical control points system	=	=
Fourteenth	2	=	Pull food models	=	=
Fifteenth	2	=	Work contexts	=	=
The practical structure Second semester					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
First	2	=	Al-Rashi production plant	=	=
Second	2	=	Snow factor	=	=
Third	2	=	Gypsum laboratories	=	=
Fourth	2	=	Juice and jam factories	=	=

Fifth	2	=	Mineral water and soft drinks factories	=	=
Sixth	2	=	Desalination and sterilization plants for drinking water	=	=
Seventh	2	=	Basalt water projects	=	=
Eighth	2	=	Beauty centers	=	=
Ninth	2	=	Cosmetics and detergent laboratories	=	=
Tenth	2	=	Means of transport intended for transporting, preserving, displaying, selling and processing food materials	=	=
Eleventh	2	=	Public bathrooms	=	=
Twelfth	2	=	Swimming pools	=	=
Thirteenth	2	=	Health and environmental inspection of schools	=	=
Fourteenth	2	=	Massacres	=	=
Fifteenth	2	=	Sanitary landfill sites	=	=

24. 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

25. Learning and Teaching Resources

Required textbooks (curricular books, if any)	There is no systematic book.
Main references (sources)	1- Iraqi Ministry of Health - Health Oversight Guide 2012-2013 2- Public Health Law No. 89 of 1981 and its amendments 3- Law No. 54 of 2001 (Eighth Amendment to the Pub Health Law) 4 - Food Regulation No. 29 of 1982
Recommended books and references (scientific journals, reports...)	World Health Organization Textbook of Community Medicine
Electronic References, Websites	The official website of the Technical Institute

	https://ikr.atu.edu.iq

***Medicine & Surgery:**

Course code .1
M.&.S
semester/ year .2
Second grade / second semester
Date this description was prepared .3
2025/14/2
Available attendance forms .4
My presence

Number of study hours (total) / Number of units (total) .5
Total number of hours: 6 hours (2 theoretical + 4 practical) Number of units:
Name of the course administrator (if more than one name is .6 (mentioned
: A'mil Name: Al **Dr. Adnan Abdul-Azim Kazim**dadnanaak@gmail.com **M.M. Hussein Mahaoush Mohammed**Hussein.mohammad.ikr31@atu.edu.iq

Name Of course	Teaching Language	Lesson Year	Weekly Hours			
			Theory	Practical	All	NO. Of Units
Medicine & Surgical Internal medicine and surgery	English	Second	2	4	6	6
	English Language					

Course Objective

General ; The Student Will be able to treat simple special cases ; The Student Will be able to give blood & injection

The Student Will be able to dress Wound .

The Student Will be able to measure blood pressure , pulse Temperature .

Practical + theoretical

Theoretical Content	
Week	Description Content
1	Bronchitis (M) + cholycystitis (S)
2	Pleural effusion (M)) + gall bladder stone (S)
3	Anemia (M) + spleen injury (S)

4	Leukemia (M) + pancreatitis (S) Hemorrhagic fever
5	Lymphoma (M) + hernia (S)
6	Hemophilia (M) + types of hernia (S)
7	Glomerulonephritis (M) + tracheal obstruction (S)
8	Nephrotic syndrome and renal failure (M) + lung ca. (S)
9	Rheumatoid arthritis (M) + fracture (S)
10	Gout (M) + pyelonephritis (S)
11	Hyperpitutirism (M) + renal stones (S)
12	Thyroid gland disease (M) + bladder ca. (S)
13	Addison diseases (M) + blood transfusion (S)
14	Para Thyroid gland disease (M) + hemorrhoid (S)

..

Practical points (out side the institution)	
1	Medical ward and out patient
2	Reception of patient and doing case sheet
3	Surgical ward and out patient

*Occupational health and safety:

: **Course description**

This course description provides a concise summary of the main course features and the learning outcomes expected of the student, demonstrating whether the student has made the most of the learning opportunities .available . It must be linked to the program description

Technical Institute / Karbala - University Euphrates Middle East Technology	**Educational institution**
Department of Community Health Technologies	**.2 Scientific Department / Center**
Occupational Health and Safety	**.3 Course Name/Code**
Mohammed Abdel-Baqi Abdel-Mohsen	**.4 Instructor's name**
teacher	**.5 Academic title**
Community Health Technology Department Students / Second Level (Second Academic (Year	**.6 Available attendance forms**
My season (winter)	**.7 semester/year**
(theoretical + 3 practical 2) 5	**.8 Number of study hours (total)**
2024/9/15	**.9 Date this description was prepared**

.10 Course objectives :

At the end of the first semester of the second academic year, the student will be able to:

A- To understand the concept and importance of occupational health and safety and to be familiar with the safety rules and principles that must be available in various workplaces.

B- Identify the damages and risks to which workers are exposed in various facilities and work sites.

.11 Student definition:

Graduating technical personnel working in the fields of occupational health and safety, inspection and health control, while implementing the primary health control program and health awareness campaigns.

: Course outcomes , teaching, learning and assessment methods .12
:A– Cognitive objectives • The student should be familiar with the concept of occupational health and safety. • The student should be familiar with the objectives and programmes of occupational health and safety. • The student should be aware of the various occupational hazards that affect the health of the worker.
: B – Course specific skill objectives • The student should be able to identify risks according to their type and how to deal with them. • The student should be able to know, use and read occupational hazard devices. • The student should be able to provide a film or pictures that illustrate the types of occupational hazards.
: Teaching and learning methods
Theoretical lecture: power . point presentation .Use the classroom board – .Display videos or photos – Practical lecture: power . point presentation .Use the classroom board – .Display videos or photos – .Systematic training and field visits– .Discuss with students and among students .Preparing reports and projects related to the scientific material of the lecture
: Evaluation methods
.Daily exams .Post exercises and questions .Homework assignment

C– Emotional and value–based goals:

- The student should participate in scientific discussions related to the lecture.
- The student gives a lecture within the course material.
- The student should present other activities such as reports , posters, etc.

Teaching and learning methods:

- in addition (Power Point) Using modern methods through presentation to the classroom blackboard .
- Enhance the lecture by displaying videos and images related to the material.
- Enhance the lecture through YouTube.
- Systematic training in addition to field visits.

Evaluation methods :

- Daily exams (oral or written).
- Student attendance and participation during the lesson.
- Submit reports and conduct discussions with students.
- Written midterm and final exams.

D – General and transferable skills (other skills related to employability and personal development) :

- The student should focus on the curriculum (syllabus) vocabulary.
- The student must attend and participate in all lectures related to the course.
- The student should participate in field visits and scientific trips.

13. Course structure :

week	watches	Required learning outcomes (theory)	Required learning outcomes (The process)	Teaching method	Evaluation method
the first	4	Chapter One Principles of) Occupational Health (and Safety The concept of occupational health and safety and its objectives.	A field visit to the National Center for Occupational Health and Safety to learn about its objectives And the duties of the technical departments	Presentation)power point in (addition to the classroom . board	Examinations oral and) .(written

		.therein			
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Learn about the uses of noise and vibration measuring devices	Occupational health .and safety in Iraq Occupational health and safety and its relationship to . productivity	8	**Second and third**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Learn about the uses of thermometers in the .workplace Black Club Thermometer surface barometer	Chapter Two Occupational hazards) and diseases resulting .(from them Physical (natural) -1 hazards A - Noise and .vibrations	8	**Fourth and fifth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Learn how to use relative humidity meters on the job .site A - The humidifier B- Thermohygrograph	B- Temperature, humidity and air .speed C- Lighting D - Radiation of all kinds A - Atmospheric pressure	12	**Sixth , seventh, and eighth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	How to evaluate the results of temperature, humidity, and air velocity measurements And its relationship to the effective and corrected effective temperature using the equations .Sports and graphics	And electricity	4	**Ninth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Learn how to use a light meter in work .sites	Chemical hazards -2 A- Gases b vapors	4	**tenth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Learn how to use gas and vapor measuring devices .at work sites Dreker pump -1 Measuring the -2 healthy amount of oxygen in workplaces	C- Dust Biological risk and -3 infectious diseases Psychological -4 factors mechanical hazards	12	**Eleventh, Twelfth and Thirteenth**

		Explosive gas -3 measuring device			
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Use of pump -4 devices	Chapter Three (Industrial Toxins) Introduction to Toxicology Definition of poison) How it enters the - - body Its interactions inside the body and ways of excreting it from the (body	4	**fourteenth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	biological factors measuring devices	Heavy metal poisoning (lead, (mercury, chromium	4	**fifteenth**

:Sources and references used .14	
) Encyclopedia of Occupational Health and Safety- ILO .Geneva 1990 Part Two (Occupational health for students of higher health .institutes -ENcyclopedia & Occupational health & safety ILO Volume 2 Geneva 1990 .	Main references (sources) -1
.Guide to occupational health and safety- Guide to the basic principles of occupational health - and safety in the working environment - Occupational Health and Safety - Faculty of - .Agriculture - Damietta University Occupational Health and Safety - Damascus - .University	Recommended books and -2 references …. ,scientific journals, reports) (

:Curriculum development plan .15

The curriculum will be updated based on new developments, scientific progress, .and emerging threats in the country

: **Course description**

This course description provides a concise summary of the main course features and the learning outcomes expected of the student, demonstrating whether the student has made the most of the learning opportunities .available . It must be linked to the program description

Technical Institute / Karbala - University Euphrates Middle East Technology	**Educational institution**
Department of Community Health Technologies	**16. Scientific Department / Center**
Occupational Health and Safety 2	**17. Course Name/Code**
Mohammed Abdel-Baqi Abdel-Mohsen / Nour Majed	**18. Instructor's name**
/Teacher	**19. Academic title**
Community Health Technology Department Students / Second Level (Second Academic (Year	**20. Available attendance forms**
My semester (spring semester)	**21. semester/year**
(theoretical + 3 practical 2) 5	**22. Number of study hours (total)**
2025/1/15	**23. Date this description was prepared**

24. Course objectives :

At the end of the second semester of the second academic year, the student will :be able to

A – Familiar with the occupational health and safety requirements that must be met .to prevent accidents, work injuries and various occupational diseases

B- Identifying the damages and risks to which workers are exposed in different workplaces.

C- Identifying general methods of preventing occupational hazards.

25. Student definition:

Graduating technical personnel working in the fields of occupational health and safety, inspection and health control, while implementing the primary health control program and health awareness campaigns.

26. Course outcomes , teaching, learning and assessment methods:

A- Cognitive objectives:

- The student should be aware of the various occupational hazards that affect the health of the worker.
- The student should be familiar with general methods of prevention of various occupational hazards.
- Familiarity with occupational health and safety requirements in various workplaces.

B – Course specific skill objectives:

- The student should be able to identify risks according to their type and how to deal with them.
- The student should be able to know, use and read occupational hazard devices.
- The student should be able to provide a film or pictures that illustrate the types of occupational hazards.
- The student should be able to classify personal protective equipment and how to use it.

Teaching and learning methods:

Theoretical lecture:

power . point presentation

- Use the classroom board.
- Display videos or photos.

Practical lecture:

power . point presentation

- Use the classroom board.
- Display videos or photos.
- Systematic training and field visits.

.Discuss with students and among students
.Preparing reports and projects related to the scientific material of the lecture

: Evaluation methods

.Daily exams
.Post exercises and questions
.Homework assignment

:C– Emotional and value–based goals

- The student should participate in scientific discussions related to the .lecture
- .The student gives a lecture within the course material
- The student should present other activities such as reports , posters, .etc

Teaching and learning methods:

- in addition (Power Point) Using modern methods through presentation . to the classroom blackboard
- Enhance the lecture by displaying videos and images related to the .material
- .YouTube Enhance the lecture through
- .Systematic training in addition to field visits

Evaluation methods :

- .Daily exams (oral or written)
- .Student attendance and participation during the lesson
- .Submit reports and conduct discussions with students
- .Written midterm and final exams

D – General and transferable skills (other skills related to employability and : (personal development

- .The student should focus on the curriculum (syllabus) vocabulary
- The student must attend and participate in all lectures related to the .course
- .The student should participate in field visits and scientific trips

: Course structure .27

Evaluation method	Teaching method	Required learning outcomes (The process)	Required learning outcomes (theory)	Hours	week
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Study and application of inhalable dust collector	pesticide poisoning Poisoning by organic compounds (organic solvents - hydrocarbons and their (derivatives	8	**First and second**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Study the types of filters used to collect dust samples and how to treat them in the .laboratory Study and use of the bacterial collection device Identify safety -1 and security signs and instructions .with slides Handling and -2 storing materials practically according to their geometric shapes, with a film on storing and handling .materials Handling and -3 storing materials correctly to prevent spinal and leg . injuries	Chapter Four (Work Accidents and (Injuries Definition of accident, injury, its causes and .types Handling and storing materials	12	**the third The fourth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	A- Film about occupational health services and slide show B - A film about first aid in the workplace with slides Study and use of lung function testing device Study and use of hearing efficiency testing device How to conduct lung and hearing efficiency	Safety and security signs and symptoms Obstacles and the Role of Civil Defense in Facilities - Work Injury Statistics Chapter Five (General methods of preventing (occupational hazards Medical prevention -1 methods A - Initial, periodic, special and rehabilitation examinations B - First aid services .at the workplace	16	**Fifth, sixth, seventh, eighth**

		measurements	C- Health services and Professionalism in the workplace organization and) (duties		
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Analysis of test results	Engineering -2 prevention methods A - Locks B- Replacement C- Insulation	4	**Ninth and tenth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Personal protective equipment of various types and uses	D- Ventilation E - Monitoring the work environment detecting and) measuring pollutants in the work (environment And compare it with the recommended limits to identify an occupational health .basis	4	**Eleventh and twelfth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	How to determine the suitability of protective equipment for work	And - general personal hygiene Z - Work site inspection Personal -3 surveillance equipment, its types, specifications and uses	8	**thirteenth and fourteenth**
Examinations oral and) .(written	Presentation)power point in (addition to the classroom . board	Laboratory tests for personal protective equipment	Age and occupational safety legislation Revolutionary -1 Command Council decisions regarding occupational health and safety Laws -2 Systems -3 Instructions -4	8	**fifteenth**

:Sources and references used .28	
) Encyclopedia of Occupational Health and Safety-ILO .Geneva 1990 Part Two (Occupational health for students of higher health .institutes -ENcyclopedia & Occupational health & safety ILO Volume 2 Geneva 1990 .	(Main references (sources -1

.Guide to occupational health and safety- Guide to the basic principles of occupational health - and safety in the working environment - Occupational Health and Safety - Faculty of - .Agriculture - Damietta University Occupational Health and Safety - Damascus - .University	Recommended books and -2 references …. ,scientific journals, reports) (

:Curriculum development plan .29

The curriculum will be updated based on new developments, scientific progress, .and emerging threats in the country

*Epidemiology:

24. Course Name:	
Epidemiology	
25. Course Code:	
Epi.	
26. Semester / Year:	
Second Year / First and second Semester	
27. Description Preparation Date:	
6/2/2025	
28. Available Attendance Forms:	
29. Number of Credit Hours (Total) / Number of Units (Total)	
Total number of hours: 5 hours (2 theoretical + 2 practical) / total number of units: 4 units	
30. Course administrator's name (mention all, if more than one name)	
Prof.Dr. SalimHussein Hassan Assis. Prof. Dr. Moahmmed Abdulridha Merzah	inkr.salm@atu.edu.iq mohammed.merzah@atu.edu.iq
31. Course Objectives	
Course Objectives	**General Goals:** - The student will be able to become familiar with the concepts of epidemiology and the techniques related to it. **Special: The student will be able to:** - To learn about how diseases occur and how infectious diseases are

	transmitted and controlled. - To learn how to analyze the occurrence of epidemics. - To know the pathogens. -To learn about calculating the spread of diseases and calculating the different rates of diseases and deaths.
32. Teaching and Learning Strategies	
Strategy	- Cooperative education strategy. - Brainstorming education strategy. - Education strategy by exchanging opinions and discussion. - Educational strategy by presenting information.

10. The theoretical structure of the course
First: Course structure (theoretical - first semester)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2	- - Raising the level of motivation for learning in its various types: internal motivation and social motivation. - - Creating opportunities to implement a collective planning approach to the curriculum, and for cooperation among faculty members to identify gaps and repetitions.	1- Introduction to epidemiology. - Objectives - Basics - General strategies	1. The lecture. 2.Laboratories. 3. Field visits. 4. Systematic training. 5. Summer training	• Daily exams. • Quarterly exams • Final exams. • Practical projects.
Second	**2**	=	2- General definitions used in the study of epidemiology	=	=
Third	**2**	=	3- The epidemiological triad, its importance and	=	=

			applications - Factors of disease occurrence (personality, place, time)		
Fourth	**2**	=	4- Transmissible and non-transmissible diseases	=	=
Fifth	**2**	=	5- Methods of prevention and control of communicable diseases	=	=
Sixth& Seven	**2**	=	6- General immunity - herd immunity 7- Vaccines (types - preservation - preparation)	=	=
Eighth & Nin	**2**	=	8-Epidemiological investigation and monitoring (basic steps for epidemiological monitoring) Types of epidemiological studies - Methods of investigating epidemic diseases	=	=
Tenth	**2**	=	9- Administrative division of health prevention departments in the Ministry of Health and the mechanism of work in the field of prevention. - Immediate news form for communicable diseases	=	=
Eleventh	**2**	=	10- Measles, German measles, mumps	=	=

Twelfth	**2**	=	11- Tuberculosis – polio	=	=
Thirteenth	**2**	=	12- Diphtheria, whooping cough, tetanus	=	=
Fourteenth	**2**	=	13- Viral hepatitis	=	=
Fifteenth	**2**	=	14- Typhoid fever - Malta fever.	=	=
The practical structure of the course					
First & Second	2		1- Transmissible diseases How to control it. - Methods of transmission through air, water, food and sexual contact	1. The lecture. 2.Laboratories. 3. Field visits. 4. Systematic training. 5. Summer training	• Daily exams. • Quarterly exams • Final exams. • Practical projects.
Third& Fourth	**2**	=	2- Medical insects - general characteristics - their role in transmitting diseases	=	=
Fifth	**2**	=	Discussing student reports	=	=
Sixth & Seventh	**2**	=	3- Mosquito family: Important genera (Anopheles and Culex) Its role in transmitting diseases.	=	=
Eighth	**2**	=	4- Practical training on epidemiological investigation methods	=	=
Ninth	**2**	=	5- A scientific visit to the Center for Communicable Disease Control	=	=
Tenth	**2**	=	Discussing student reports	=	=
Eleventh	**2**	=	6- Hemorrhagic fever - causes - prevention -	=	=

			methods of diagnosis - transmission		
Twelfth	**2**	=	7- Hepatitis of all types.	=	=
Thirteenth	**2**	=	A visit to the fever hospital.	=	=
Fourteenth	**2**	=	8- Malaria – causes	=	=
Fifteenth	**2**	=	Discussing student reports	=	=

Course structure (Theoretical - Second semester)

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
First	2	=	Epidemic diseases that occurred in the world, their consequences, and dealing with them	=	=
Second	2	=	Vaccination against communicable diseases (regional plan)	=	=
Third	2	=	3- Types of health prevention	=	=
Fourth	2	=	Food poisoning (types and causes)	=	=
Fifth	2	=	Meningitis	=	=
Sixth	2	=	Cholera	=	=
Seventh	2	=	Hydatied cysts	=	=
Eighth	2	=	Malaria	=	=
Ninth	2	=	Schistosomiasis	=	=
Tenth & Eleventh	2	=	Pandemic influenza - types and causes - Covid-19	=	=
Twelfth	2	=	Acquired immunodeficiency disease	=	=
Thirteenth	2	=	Hemorrhagic fever	=	=
Fourteenth	2	=	Chicken pox	=	=
Fifteenth	2	=	Rabies	=	=

The practical structure Second semester					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
First	2	=	Methods of prevention and elimination of insects and rodents	=	=
Second	2	=	Flies - diseases transmitted by flies - methods of exterminating flies	=	=
Third	2	=	Harves, lice, bed bugs - fleas and the diseases they transmit Methods of extermination - prevention	=	=
Fourth	2	=	A visit to the Environmental Protection Center	=	=
Fifth	2	=	Discussing student reports	=	=
Sixth	2	=	STD (syphilitic gonorrhea).	=	=
Seventh	2	=	Leprosy - causes - methods of transmission - prevention	=	=
Eighth	2	=	Corona disease-19	=	=
Ninth	2	=	Leishmaniasis	=	=
Tenth	2	=	Pneumonia - other respiratory diseases	=	=
Eleventh	2	=	Discussing student reports	=	=
Twelfth	2	=	A visit to the Center for Communicable Disease Control	=	=
Thirteenth	2	=	1- Account training:- - Incidence rate Prevalence rate	=	=
Fourteenth	2	=	Mortality &	=	=

			Morbidity Rate		
Fifteenth	2	=	Discussing student reports	=	=

33. 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
34. Learning and Teaching Resources

Required textbooks (curricular books, if any	There is no systematic book.
Main references (sources)	• Scientific methodological books in the field of specialization • Specialized practical books.
Recommended books and references (scientific journals, reports...)	World Health Organization Textbook of Community Medicine
Electronic References, Websites	The official website of the Technical Institute https://ikr.atu.edu.iq

*Environmental Health:

1. Course Name
Environmental Health
2. Course Code
3. Semester / Year
Second Year / First Semester
4. The history of preparation of this description
6/2/2025
5. Available Attendance Forms
6. Number of Credit Hours (Total) / Number of Units (Total)
Total Hours :(2 theoretical hours + 2 practical) / total number of units 6 unit
7. Course administrator' s name (if more than one name)
Tabarak Ali full ordeal tabarik.kamel@atu.edu.iq Sura Hussain Baket sora.iq454@gmail.com
8. Course Objectives

- 1. Providing and monitoring drinking water suitable for human consumptio - 2.Protect soil from pollution - 3.Protect the air from pollution - 4.Water protection from pollution	**Course Objectives**
9. Teaching and Learning Strategies	
- Cooperative education strategy. - Brainstorming education strategy. - Strategy for teaching feedback in real time. - Education Strategy Notes Series. - Collaborative concept planning strategy. - The strategy of education by exchanging views and discussion.	**Strategy**

10. Course Structure :

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	The week
Exams Daily . Exams Quarterly . Exams Final .	1. Lectures. 2. Visits Field. 3.Training Systematic. 4.Training Summer.	First: Environmental Health (Environmental Healt Concept/ Objectives & Strategie types of environment) Second: Components the environment and environmental pollutants.	Raising the level of motivation For learning of differe kinds: Internal motivation an motivation Social and achieveme motivation. Create opportunities t apply the collective planning curve of the curriculum, And for cooperation between the members the Commission Teaching to identify gaps and duplicates .	**2**	The first The second
=	=	air pollution	Help the student to ma sure that the decisions concerning Curriculum and educational environm Rashida . Promote the philosoph	**2**	Third and fourth

=	=	Water pollution	of follow-up and continuous improvement. Help the student to confirm Accountability and Quality Assurance Academic programs.	**2**	V and the sixth
=	=	soil pollution Waste disposal and waste Medical Waste	=	**2**	Seventh
=	=	Wastewater Treatmen Health	=	**2** **2**	Eighth and ninth tenth
=	=	Environment and Foo Transmitted diseases With food, food preservation Pest control and rodents	=	**2** **2**	Eleventh Twelfth
=	=	Radioactive contamination How to monitor and optimize environment	= =	**2** **2**	Thirteenth Fourteenth

=	=		=	**2**	Fifteenth

		Introduction to Health Environmental	-Raise the level of motivation to learn Of various kinds: motivation Internal, motivation Social, achievement motivation -Create opportunities the application curve group planning of the curriculum, and for cooperation between members of t Teaching to identify gaps and iterations. -Help the student to make sure that the decisions concerning Curriculum and educational environm Rashida . -Helping the student t Asserting accountabili and ensuring Quality academic programs.	2	The first
		Environmental polluta			Second
		Physical Analysis For water		2	Third
		Discussion of reports		2	Fourth
		Chemical Analysis For water		2	V
		Discussion of reports	=	2	Sixth and the seventh
		Bacteriological examination For water		2	Eighth
		Discussion of reports	=	2	Ninth
			=	2	

		air pollution Environmental Monitoring Physical tests Soil pollution Medical waste and methods Addressed Environmental sustainability Discussion of reports	= = = = = =	**2** **2** **2** **2** **2** **2** **2**	tenth Eleventh Twelfth Thirteenth Fourteenth Fifteenth Sixteenth

1. Course Evaluation

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

2. Learning and Teaching Resources

	Required textbooks (methodology, if any)
Methodological scientific books in the field of specialization. Specialized scientific books.	Main references (sources)
Community Health Principles Book, Research i Health Man and the Environment - written by Dr. Abdullah Al-Saeed	Recommended books and references (scientific journals, reports...)
(ikr.atu.edu.iqhttps:)	Electronic References, Websites

*Pharmacology:

Course name .38	
Pharmacology1+2	
Course code .39	
PHA	
semester/ year .40	
Second grade | Semester the first	
Date this description was prepared .41	
2 -1 2025-	
Available attendance forms.42	
My presence	
Number of study hours (total) / Number of units (total).43	
Total number of hours = 4 (2 theoretical + 2 practical) Total number of units 4	
Name of the course administrator (if more than one name is mentioned) .44	
: A'mil Name: Al A.M. Ali Abdul Latif Ghulam Muhammad ali.gmohemmed@atu.edu.iq Wahb Khadir Kazim wahb.kazem@atu.edu.iq	
objectives Course .45	
General objective **Knowledge of the basics of pharmacology -1** **Knowledge of pharmaceutical forms -2** **method of absorption and excretion of the drug from- -3 the body** **How the drug affects the body -4** **Knowing how the drug works -5** **Specific objectives** **Identify drug groups and their uses -1** **Adverse effects of the drug -2**	**Course objectives**

Methods of giving the medicine −3 **Drug dosage and methods of calculating the dosage** −4 **Drug and metal poisoning Toxicology** −5	

Teaching and learning strategies .46

Cooperative learning, brainstorming, opinions, discussion, information presentation, and training	**Strategy**

Course structure .47

First semester

week	watches	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
– First Second	4	General considerations :- Prescription, Medication during pregnancy Med. During breast – feeding , pediatric , Geriatric , Med in renal impairment , Med . in hepatic impairment, adverse drug reactions, drug interaction	General considerations :- Prescription, Medication during pregnancy Med. During breast – feeding , pediatric , Geriatric , Med in renal impairment , Med . in hepatic impairment, adverse drug reactions, drug interaction	Giving lectures and using illustrative methods	Exams Daily
Third and fourth	4	C.V. S:- Digitalis and cardiac glycosides, Diuretics, Badrenoreceptors, blocking, antiarrythmic drugs, vasodilators, Antihypertensives, sympathomimetic, Sclerosing agents.	C.V. S:- Digitalis and cardiac glycosides, Diuretics, Badrenoreceptors, blocking, antiarrythmic drugs, vasodilators, Antihypertensives, sympathomimetic, Sclerosing agents.	Giving lectures and using illustrative methods	Exams
Fifth	4	GIT Antacids, antispasmodics, drugs Heeling peptic and D. ulcer, Antidiarrhoeal, Laxatives, Rectal and colonic drugs, drug act En intestinal secretions	GIT Antacids, antispasmodics, drugs Heeling peptic and D. ulcer, Antidiarrhoeal, Laxatives, Rectal and colonic drugs, drug act En intestinal secretions	Giving lectures and using illustra	Exams

				tive metho ds		
Sixth and sevent h	4	RS Bronchodilators, corticosteraides, Allergic disorders, respiratory stimulants, Mucolytics, anti tussives and expectorant Nasal decongestants	RS Bronchodilators, corticosteraides, Allergic disorders, respiratory stimulants, Mucolytics, anti tussives and expectorant Nasal decongestants .	Giving lecture s and using illustra tive metho ds	Exams	
The eighth and ninth	4	CNS Hypnotics and axiolytics, Antipsychotics, Antidepressants, CNS stimulants, Anorectics, antiemetics, analgesics (mild, moderate, severe pain, migraine, antiepileptics, parkinsonism, drugs used in chorea, tics. Trigeminal neuralgia .	CNS Hypnotics and axiolytics, Antipsychotics, Antidepressants, CNS stimulants, Anorectics, antiemetics, analgesics (mild, moderate, sever pain, migraine, antiepileptics, parkinsonism, drugs used in chorea, tics. Trigeminal neuralgia	Giving lecture s and using illustra tive metho ds	Exams	
tenth and eleven th	4	Infections:- Antibacterial, antiviral, antifungal, antiprotozoal, antihelmenthic drugs .	Infections:- Antibacterial, antiviral, antifungal, antiprotozoal, antihelmenthic drugs .	Giving lecture s and using illustra tive metho ds	Exams	
twelft h and thirtee nth	4	Endocrine:- Drug used in diabetes, hypoglycemia, pituitary harmones, thyroid and anti thyroide drugs, corticosteroides, female sex hormones, male sex hormones and anti androgens, anabolic steroide hyperglycemia drugs, other andocrine hyper lipidemia drugs.	Endocrine:- Drug used in diabetes, hypoglycemia, pituitary harmones, thyroid and anti thyroide drugs, corticosteroides, female sex hormones, male sex hormones and anti androgens, anabolic steroide hyperglycemia drugs, other andocrine hyper lipidemia drugs.	Giving lecture s and using illustra tive metho ds	Exams	
Fourte enth and fifteen th	4	GUT Uterine stimulants, uterine relaxants, vulval and vaginal disorders, Contraceptives, UT disorders .	GUT Uterine stimulants, uterine relaxants, vulval and vaginal disorders, Contraceptives, UT disorders	Giving lecture s and using illustra	Exams	

					tive metho ds	

Course Evaluation .48
- Tests Editorial Tests – oral - Calendar electronic - Student reports

Learning and teaching resources .49	
Laurence, D.R.; Bennett, PN and Brown, MJ (1997).Clinical pharmacology. New York ; London: Churchill Livingstone. -Mycek, M.J. ; Harvey RA and Champe, PC (1997). Lippencott's Illustrated Reviews: Pharmacology.(2nd ed.). Lippincott-Raven, Philadelphia phia New York	Required textbooks (methodology (any
Karen Whalen, PharmD, BCPS, FAPhA Lippincott® Illustrated Reviews: Pharmacology Seventh EditionCopyright © 2019 Wolters Kluwer	Main references (sources)
scientific journals	Recommended supporting books and references (scientific journals, (…reports
Sites InternetGoogle And YouTube(	Electronic references, websites

Course name .50
Pharmacology 1+2
Course code .51
PHA
semester/ year .52

Second grade | Second
Date this description was prepared .53
2 −1 2025−
Available attendance forms .54
My presence
Number of study hours (total) / Number of units (total) .55
Total number of hours = 4 (2 theoretical + 2 practical) Total number of units 4
Name of the course administrator (if more than one name is mentioned) .56
: A'mil Name: Al A.M. Ali Abdul Latif Ghulam Muhammad ali.gmohemmed@atu.edu.iq Wahb Khadir Kazim wahb.kazem@atu.edu.iq
objectives Course .57

Course objectives	
General objective **Knowledge of the basics of pharmacology −6** **Knowledge of pharmaceutical forms −7** **e method of absorption and excretion of the drug from− −8** **the body** **How the drug affects the body −9** **Knowing how the drug works −10** **Specific objectives** **Identify drug groups and their uses −3** **Adverse effects of the drug −4** **Methods of giving the medicine −3** **Drug dosage and methods of calculating the dosage −4** **Drug and metal poisoning Toxicology −5**	

Teaching and learning strategies .58	
Cooperative learning, brainstorming, opinions, discussion, information presentatic and training	**Strategy**

Course structure .59
Second semester

week	watches	Required learning outcomes	Unit name/topic	road education	road Evaluation
First and second	4	Blood formation and coagulations: Iron deficiency, megaloblastic anemia, other types of anemia, anticoagulants, anti platelet, fibrinolytics, anti fibrinolytics .	Blood formation and coagulations: Iron deficiency, megaloblastic anemia, other types of anemia, anticoagulants, anti platelet, fibrinolytics, anti fibrinolytics	Giving lectures and using illustrative methods	Exams
Third and fourth		Nutritian: Vitanins, parent nutritions, Elecltrolytes, intravenous fluids,	Nutritian: Vitanins, parent nutritions, Elecltrolytes, intravenous fluids,		
Fifth and sixth	4	Muscular skeletal disorders:	Muscular skeletal disorders:	Giving lectures and using illustrative methods	Exams
Seventh and eighth	4	Chronic rheumatic diseases, Treatment of gout, myasthenia gravis, Mascles relaxants, Rubefacients, Soft tissues inflammations.	Chronic rheumatic diseases, Treatment of gout, myasthenia gravis, Mascles relaxants, Rubefacients, Soft tissues inflammations.	Giving lectures and using illustrative methods	Exams
Ninth and tenth	4	Eye: Anti infective preparations, Anti inflammatory (corticosteroids), Mydriatcs and cycloplegics, Glaucoma, other preparations.	Eye: Anti infective preparations, Anti inflammatory (corticosteroids), Mydriatcs and cycloplegics, Glaucoma, other preparations.	Giving lectures and using illustrative methods	Exams
Eleventh and twelfth	4	ENT Drugs acting on ENT Including antibiotics and anti-inflammatory.	ENT Drugs acting on ENT Including antibiotics and anti-inflammatory.	Giving lectures and using illustrative methods	Exams
thirteenth and fourteenth	4	Skin: Emollients , antipruridics , topical Corticosteroids , Eczemaow psoriasis Acne , antibacterial , disinfectants , antifugl , Antiviral , antiparasitics , melanizing and	Skin: Emollients , antipruridics , topical Corticosteroids , Eczemaow psoriasis Acne , antibacterial , disinfectants , antifugl , Antiviral , antiparasitics , melanizing and	Giving lectures and using illustrative methods	Exams

		demelanizings	**demelanizings**		
fifteenth	**4**	**Anaesthetics: General anaesthetics, preanthetics, Inhalation, local onacsthetics. Chemotherapy and immunosuppressants: Alkylatings, antimetabolites, enrymes, hormones, drug alter immune responses**	**Anaesthetics: General anaesthetics, preanthetics, Inhalation, local onacsthetics. Chemotherapy and immunosuppressants: Alkylatings, antimetabolites, enrymes, hormones, drug alter immune responses**	**Giving lectures and using illustrative methods**	**Exams**

Course Evaluation .60

- Tests Editorial

Tests – oral

- Calendar electronic

- Student reports

Learning and teaching resources .61

Laurence, D.R.; Bennett, PN and Brown, MJ (1997).Clinical pharmacology. New York; London: Churchill Livingstone. -Mycek, M.J. ; Harvey RA and Champe, PC (1997). Lippencott's Illustrated Reviews: Pharmacology.(2nd ed.). Lippincott-Raven, Philadelphia phia New York	Required textbooks (methodology (any
Karen Whalen, PharmD, BCPS, FAPhA Lippincott® Illustrated Reviews: Pharmacology Seventh EditionCopyright © 2019 Wolters Kluwer	Main references (sources)
scientific journals	Recommended supporting books and references (scientific journals, (…reports
Sites InternetGoogle and YouTube(	Electronic references, websites

*Baath crimes:

1. The rapporteur's name					
Baath crimes					
2. Course Code					
3. Semester/ year					
Second Year / First Semester					
4. The date this description was prepared					
2					
5. Available forms of attendance for the second stage					
6. Number of study hours (total)/number of units (total) Number of units 2					
7. Name of the course administrator (if more than one name is mentioned)					
Hussain Ali Mohammed hussain.muhammed@atu.edu.iq					
objectives Course .8					
Achieving international standards in education To emphasize self-respect and respect for others Provide the ideal environment as much as possible to achieve the optimal -3 .learning state					**Objectives**
9. Teaching and learning strategies					
Are qualified to delve deeply into the study, equipped with a scientific thinking styl and the ability to Academic research and investigation of scientific truth in all fields					**The strategy**
Course structure .10					
Evaluation method	**Learning method**	**Name of the unit or topic**	**Required learning outcomes**	**hours**	**the week**
oral test	a lecture	Concept Crimes And its . sections	Community health technologies	4	1
oral test	a lecture	identification the crime language And terminologically	Community health technologies	4	2
oral test	a lecture	The crimes of the Baath regime in Iraq	Community health technologies	4	3

A written test		Sections and types of crimes of the Baath regime	Community health technologies	4	4
oral test	a lecture	crimes System Resurrection according to documentation Law The court Criminal Iraqi _ ... Supreme 2005 AD	Community health technologies	4	5
oral test	a lecture	Crimes International and Species Crimes . International	Community health technologies	4	6
oral test	a lecture	Decisions Outgoing from The court Criminal The . upper one	Community health technologies	4	7
oral test	a lecture	Crimes Mental And social And its effects, And highlighted Violations the system Baathist in Iraq	Community health technologies	4	8
oral test	a lecture	Crimes Psychological and mechanisms Crimes Psychological effects Crimes Mental	Community health technologies	4	9
A written test	discussio n	Crimes Social and militarization Society and position the system Baathist from Debt	Community health technologies	4	10
oral test	a lecture	Violations Laws Iraqi photo Violations rights Human And crimes . Authority	Community health technologies	4	11
oral test	discussio n	some decisions Violations Political And the military For system	Community health technologies	4	12
oral test	a lecture	Places Prisons And detention For system Resurrection crimes Cemeteries Collective	Community health technologies	4	13
A written test	a lecture	Crimes Environmental For system Resurrection in Iraq destruction the cities And the villages Policy the earth Scorched drying Marshes .	Community health technologies	4	14

oral test	a lecture	pollution The warlike And radiological And an explosion Mines . destruction the cities And the villages Policy the earth Scorched . Scraping Orchards Palm And trees And crops	Community health technologies	4	15

11. 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

marks monthly exam 40
marks for daily and oral preparation and report writing 10
final exam score 50

12. Learning and teaching resources

The crimes of the Baath regime in Iraq	Required textbooks (methodology, if any)
Local governments / Dr. Zia's joy	Main references (sources)
Scientific journals, periodicals and research And specialty	Recommended supporting books and references (scientific journals, reports....)
Internet sites (YouTube and Google) and oth media Communication in the specialty	Electronic references, Internet sites

*Professional Ethics:

1. Course name
ethics of the medical profession
2. Course Code:
3. Semester / Year:
Second semester/second grade
4. Description Preparation Date:
6/2/2025
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
Total number of hours : 2 hours (only theoretical)/total number of unit 2 units
7. Course administrator's name (mention all, if more than one name)
Tabarak ali kamil almohana tabarik.kamel@atu.edu.iq Sura Hussain Baket sora.iq454@gmail.com
8. Course Objectives

Course Objectives	**Knowledge of basic ethics of medical Profession and qualifying the graduate for the best professional behavior to deal with his profession and compatibility with himself and his professional environment that consist of the patient,his companions and co-worker .**
9. Teaching and Learning Strategies	
Strategy	-Cooperative education strategy. - Brainstorming education strategy. - Educational strategy, collaborative concept planning. - Strategy education real-time feedback - Education strategy by exchanging opinions and discussion. - Educational strategy by presenting information. - Education strategy through training and presenting scientific developments

10. The theoretical structure of course

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

First And Second	2	-Cooperative education strategy. -Brainstorming educat strategy. -Educational strategy,collaborative concept planning. - Strategy education real-time feedback -Education strategy exchanging opinions discussion. - Educational strategy presenting information. -Education Strategy through training presenting scientific developments.	First : Professional Behavior (definition , Concept , its Practical Application, Employment Relationship. Second : The principles of ethics in the stages of cultural and Islamic developments Patient etiquette hospitals.	1.lectures. 2.visit Field . 3.methodo-Logical Training . 4.summer Training .	-Daily Exams. -Quarterly Exams. -final Exams. -practical Projects. d
third	2	=	Behavioral Trends and Tendencies (definition, Classified , Factors Affecting them.		
Fourth	2	=	Values , Customs ,and Traditions. (definition,classified, Factors affecting them).		
Fifth	2	=	Personality patterns And how to deal with them.(definition , types , their relation ….)		

Sixth	2	=	-Basic ethics of the Medical profession -characteristics of Medical workers .		
Seventh	2	=	-moral and moral Rights of patient . -moral and legal Rights of health professionals .		
Eighth	2	=	-treatment behavior with patient -keeping the secrets Of the profession . -scheduling for Necessary action .		
ninth	2	=	-how to handle Medical devices and Equipment . -daily access to Devices,tools,and Analyses. -preparing medicines For work .		
Tenth	2	=	-Mental health Conditions . -the role of mental Health in diseases.		
Eleventh	2	=	Professional Compatibility and its		

Twelfth	2	=	Relationship to work. -work risk prevention -prevention of Pollution risk . -prevention of Infection risks . -Avoid wrong Practices at work .		
thirteenth	2	=	Human , religious and Democratic dimensi of health professions.		
Fourteenth	2	=	The role of the medical association in the dissemination of health culture among members of community. -conditions of success Of the medical Associate during his Policing.		
Fifteenth	2	=	Apps in professional Behavior		

10.Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
11.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Medical Ethics Manual 2nd edition 2009 by The Wo Medical Association 'Inc.
Main references (sources)	Professional behaviour of community Health students /by prof. Dr. Tari Tariq alzubaidi .
Recommended books and references (scientific journals, reports...)	Medical conduct of doctors/ By alhakeem Raji Al-teqriti .
Electronic References, Websites	https ://ikr.atu.edu.iq the official website of the technical institute

Computer 2 Course name .10

code Course .11
c.o
annual semester/year .12
Second grade - second semester
2025 Date this description was prepared .13
My presence Available attendance forms .14
/45s / Number of units (total) / per year Number of study hours (total) .15
units (1 theoretical - 2 practical) 3
Name of the course administrator (if more than one name is mentioned) .16
: Name: M.M. Wassan Mubdar Khalkhal Emailwasan.khilkhal.ikr15@atu.edu.iq

objectives Course .17	
Course objectives	Teaching students the basic principles of the Internet, introducing them to the concept of networks, methods of electronic data transfer, solving simple technical problems related to computers, and finally teaching them the basic principles of artificial intelligence and its applications in various areas of life.

Teaching and learning strategies .18	
Strategy	Lectures Practical application Discussions between students Daily tests or quizzes

: Course structure **.30**

week	watches	Required learning outcomes	Unit name/topic	Teaching method	Evaluation method
the first	3	Cognitive	Definition of networks, their types, and the basic components of networks	Lecture	Questions and Answers
Second and third	3	Cognitive	Basic network security and understanding cyber	Lecture and	Asking questions

	discussion	threats to networks			
Case studies	Lecture and discussion	The concept of e-commerce	Cognitive	3	Fourth and fifth
Listening and asking questions	a lecture Discussion and questions	Identify and solve the most common hardware and software computer .problems	Cognitive , applied	3	Sixth, seventh, and eighth
Listening and asking questions	Lecture discussion and questions	Basic techniques and tools for diagnosing and resolving problems	Cognitive and applied	3	Ninth
Listening and asking questions	Discussion lecture	Introduction to Artificial Intelligence: Definition, History, Branches, and Technologies	Cognitive	3	tenth
Listening and asking questions	Lecture and discussion	Characteristics of artificial intelligence, its benefits, and ethical challenges	Cognitive	3	Eleventh - Thirteenth
Listening and asking questions	Lecture and discussion	)AI-based mobile technologies And the imaginary assistant (Alexa and Siri)	Cognitive	3	fourteenth
Listening and asking questions	Lecture and critique	The role of artificial intelligence in modern smartphones (adaptive learning) Simultaneous translation services(	Cognitive	3	fifteenth
Listening and asking questions	Lecture and critique	Artificial intelligence applications and tools An overview of artificial intelligence applications in various fields	Cognitive	3	sixteenth and seventeenth
Listening and asking questions	Lecture and critique	Artificial intelligence applications and tools in transportation and marketing and propaganda	Cognitive	3	eighteenth-twentieth

Listening and asking questions	Discussion and listening	Artificial intelligence applications and tools In finance, robotics and automation technology	Cognitive	3	twenty-first twenty- - fourth
Listening and asking questions	Lecture and discussion	Applications of intelligence in society: how it affects society, its role in global relations, and its impact on the .future of humanity	Cognitive	3	twenty-fifth
Listening and asking questions	Lecture and discussion	Ethical challenges of artificial intelligence	Cognitive	3	twenty-sixth
Listening and asking questions	Lecture and discussion	The future of artificial intelligence	Cognitive	3	twenty-seventh The twenty-eighth
Listening and asking questions	Lecture and discussion	The latest trends in artificial intelligence and the latest research on it	Cognitive	3	twenty-ninth Thirty

Course Evaluation .3
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
Learning and teaching resources .4

Curriculum	Required textbooks (methodology if any)
-	Main references (sources)

1-Graham Brown, David Watson "Cambrid IGCSE Information and Communication Technology"3 edition 2020 2-Al an Evans, Kendall Martian, Mary Anne Poatsy "Technology In Action Complete" 16 edition 2020 3-Ahmed Banafa "Introduction to Artificial Intelligence (AI) first addition 2024 4-Microsoft office 2019 step by step 1 st edition by Curtis Fry and Joan Lambert 5- Al-Khidr Ali Al-Khidr " Computer Basics " 2016	Recommended supporting books and references (...scientific journals, reports)
ikr.atu.edu.iq //https:	Electronic references, websites