

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



Academic Program and Course Description Guide

2024

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

Academic Program Description Form

University Name: Al-Furat Al-Awsat Technical University

Faculty/Institute: Babylon Technical Institute

Scientific Department: Department of Community Health Technologies


Academic or Professional Program Name: Community Health Technical

Final Certificate Name: Technical Diploma in Community Health

Academic System: Semester system

Description Preparation Date: 8-2-2024

File Completion Date: 22/2/2024

Signature: 

Head of Department Name:

Enas Abbas Khairallah

Date: 26/2/2024

Signature: 

Scientific Associate Name:

Oras Khudair Abbas

Date: 26/2/2024


The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Khansa Azeez Obayes

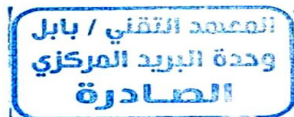
Date:

Signature: 

26/2/2024



Approval of the Dean



1. Program Vision

The Department of Community Health Technologies is a branch of medical sciences that provides experienced cadres for health care for the individual and society, in addition to education to create a healthy environment for the individual and society. Graduates of the department serve all groups and segments of society by providing primary, secondary and tertiary health care and education against pathological and environmental causes of health deterioration. Inspection and oversight to reveal the suitability of human-consumed materials, limit the development of the factors that lead to health deterioration, care for people with special disabilities and chronic diseases, and provide the necessary aid to bring them to safety. All of this is achieved by using updated learning techniques that keep pace with scientific development, the sober practical aspect, and competent teaching experiences.

2. Program Mission

The mission of the Community Health Department is to create a conscious and health-educated generation capable of containing crises and finding immediate and long-term solutions to create a safe, healthy environment, and to provide the health sectors with cadres trained to provide health care at all levels.

3. Program Objectives

The department aims to graduate technical professionals working in the fields of health, occupational safety, inspection, and public health oversight.

Assistance in implementing health monitoring programmes, health awareness campaigns and medical assistance in the countryside

Diagnostic programs implemented in health centers.

4. Program Accreditation

The program has not received accreditation

5. Other external influences

Department graduates serve the community in health institutions

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	1	2	1.35%	
College Requirements	4	10	6.7%	
Department Requirements	28	136	91.89	
Summer Training	-----	-----	-----	Interpolation
Other				

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

7. Program Description

The first stage/first semester

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
The first stage	COM	Principles Community Health	2	3
The first stage	FNF1	Fundamentals of Nursing1	2	3
The first stage	ANA1	General Anatomy1\)	2	2
The first stage	PHY1	Physiology	2	3
The first stage	MIC1	Medical Microbiology1	2	3
The first stage	BIOS1	Biostatic1	2	
The first stage	BIOC1	Clinical Chemistry1	1	3
The first stage	CA1	Computer Applications (1)	1	2
The first stage	HRD	Human Rights & Democratic	2	

First stage/second semester				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
The first stage	COM	Principles Community Health ²	2	3
The first stage	FNF1	Fundamentals of Nursing ²	2	3
The first stage	ANA1	General Anatomy ²	2	2
The first stage	PHY1	Physiology ²	2	3
The first stage	MIC1	Medical Microbiology ²	2	3
The first stage	BIOS1	Biostatic ²	2	
The first stage	BIOC1	Clinical Chemistry ²	1	3
The first stage	CA1	Computer Applications 2	1	2
The first stage		English Language	2	
Second stage/first semester				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
The Second stage	CH2	Community Health	2	3
The Second stage	HIN	Health Inspection	2	4
The Second stage	MS	Medicine & Surgery	2	4
The Second stage	HOS	Health &Occupational Safety	2	3
The Second stage	EPI	Epidemiology	2	2
	PHA	Pharmacology	2	2
The Second stage	EH	Environmental Health	2	2
Second stage/second semester				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
The Second stage	CH2	Community Health	2	3
The Second stage	HIN	Health Inspection	2	4
The Second stage	MS	Medicine & Surgery	2	4
The Second stage	HOS	Health &Occupational Safety	2	3
The Second stage	EPI	Epidemiology	2	2

The Second stage	PHA	Pharmacology	2	2
The Second stage	PRO	Proposal		2
The Second stage	PRE	Professional Ethics	2	

8. Expected learning outcomes of the program

Knowledge	
A- Cognitive objectives	A1- Assisting in laboratory investigation of the examined samples and their conformity with health conditions and assisting in health inspection and control teams.
	A2- He has an effective role in the field of occupational health and safety and implementing primary health care programmes.
	A3- Operating and caring for used medical devices and machines used in diagnosis and treatment.
Skills	
Skills objectives of the programme	B1 – Implementing medical programs such as periodic vaccinations and laboratory tests.
	B2- Skills in programs to control communicable diseases and assist the doctor in diagnosis and treatment.
	B3-Practical skill in operating and caring for laboratory equipment.
Ethics	
Emotional and value goals.	C1- Investigation and control of transmissible diseases
	C2- Implementing the schedule of periodic vaccinations for children and pregnant mothers
	C3- Assisting in treating patients and dispensing medicine to them

9. Teaching and Learning Strategies

- 1- Theoretical lecture method
- 2- Practical lecture method
- 3-Method of discussion and dialogue

10. Evaluation methods

- 1- Daily test
- 2- Monthly test
- 3- Semester test
- 4- Discussing monthly and quarterly research.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	Biology	Physiology			√	
Professor	Microbiology	Parasitology			√	
Assistant Professor	Plant production	Biocontrol			√	
Lecturer	Medical microbiology	Immunology and genetics of parasites			√	
Lecturer	Medicine	Clinical pharmacology and therapeutics			√	
Lecturer	Medical microbiology	Genetic virus immunity			√	
Lecturer	Biology	Environment and pollution			√	
Lecturer	Biology	Zoology / physiology			√	
Lecturer	Chemistry	clinical Chemistry			√	
Assistant lecturer (2)	Community health	Community health			√	
Assistant lecturer	Biology	Biology			√	

Assistant lecturer	Medical physiology	Medical physiology			√	
Assistant lecturer	Computer science	Information systems			√	
Assistant lecturer	Medical physiology	Cardio physiology			√	
Assistant lecturer	Agricultural sciences	Horticulture			√	

Professional Development

Mentoring new faculty members

New members of the department are developed by holding a training course, seminars and workshops to train them on the approved work contexts

Professional development of faculty members

Faculty members are developed through holding a training course, seminars and workshops to train them on approved work contexts.

12. Acceptance Criterion

1- According to the admission plan approved by the Ministry of Higher Education and Scientific Research and according to the annual average of graduates of the sixth scientific year.

2- Differentiation lessons (biology + chemistry lesson) for the sixth science grade.

13. The most important sources of information about the program

1-Methodological books

2-Supporting sources

3-General sources

4- The Internet.

14. Program Development Plan

One of the future plans to develop the department is to create laboratories (nursing foundations laboratory).

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
The first stage,	COM	Community Health(1)	Basic		√		√	√		√		√		√	
	FNF1	Fundamentals of Nursing & first aids	Basic	√		√		√		√		√	√		√
The first stage,	ANA1	Anatomy	Basic	√	√				√	√		√		√	√
	PHY1	Physiology	Basic	√		√			√	√		√	√		√
	MIC1	Microbiology	Basic	√	√		√		√	√	√	√		√	√

The first stage,	BI01	Biostatic	Basic	√			√		√	√	√	√	√		√
The first stage,	BI01	Bio chemistry	Assistant		√		√		√	√	√	√		√	
	COM1	Computer Applications (1	Assistant	√			√		√	√	√	√		√	
The first stage,	HRD1	Human Rights & Democratic	General		√		√		√	√	√	√		√	
The Second stage	CH2	Community Health	Basic		√			√				√			√
	HIN	Health Inspection	Basic	√			√		√	√		√	√	√	√
The Second stage	MS	Medicine & Surgery	Basic	√		√		√			√	√	√		√

The Second stage	HOS	Health & Occupational Safety	Basic	√		√			√			√	√	√	√
	EPI	Epidemiology	Basic	√					√	√	√	√			
The Second stage	PHA	Pharmacology	Assistant	√	√	√	√	√	√	√	√	√	√	√	√
		Environment Health	Basic			√		√				√	√		√
The Second stage	PRO	Proposal	Basic	√		√			√			√	√	√	√
	PRE	Professional Ethics	Assistant	√			√		√	√	√	√	√		√

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



Course Description Form

1. Course Name: Principles of community health + community health

2. Course Code: COM1

3. Semester / Year: First semester – second semester

4. Description Preparation Date: 14-2-2024

5. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)

6. Number of Credit Hours (Total) / Number of Units (Total): 5 hours (2 theoretical + 3 practical)

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

Name: Dr. Inas Abbas Khairallah

Email: inas.Khairualla@atu.edu.iq

8. Course Objectives

Course Objectives

- 1- To become familiar with the goals and strategies of the community health system.
2. Identifying the services and facilities provided in primary health care centers.
3. To know how to organize family registry forms for pregnant women and children.
4. To know the most important types of vaccines and how to deal with them.
5. To become familiar with health information and health and disease standards.

9. Teaching and Learning Strategies

Strategy

- 1- Theoretical lecture method
- 1-2- Practical lecture method
- 2-3- Method of discussion and dialogue

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Definition of community health – What does community	Introduction to	The lecture is theory and practice	Theoretical,

		health include - The goal of community health	community health		practical and quarterly examination
(2)	2	Primary health care - Primary health care programs - Objectives and strategies Disease, its causes, factors affecting the disease (causative, host, environment)	Primary health care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Vaccines - Immunity - Vaccines of all types and methods of administering them. Passive - Active vaccine - Types - Routine vaccine	Vaccines	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4) (5)	2	Maternal and child care services	motherhood and Childhood care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Breastfeeding / its benefits for the mother and the child - artificial feeding -	Breastfeeding	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Diarrhea in children - its causes - types - how to avoid and prevent it.	Diarrhea in children	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Dehydration in children - its types, signs, and how to treat it	Dehydration in children	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	The importance of school health unit services within the primary health care center.	School health unit	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Medical waste and how to deal with it	Medical waste	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Pandemic influenza (Corona - bird flu)	Pandemic influenza	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Some transmissible diseases (tuberculosis, polio).	Some transmissible diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination

(13)	2	- Some communicable diseases (diphtheria, whooping cough, tetanus).	Some communicable diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Vital statistics -: - The general method of health research, information on births and deaths	Vital statistics	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Measures of health and disease: measures of births and deaths	Measures of health and disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	The disease, its causes, and the factors affecting the occurrence of the disease, the epidemiological triad	The disease, its causes,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Health education and its procedures	Health education	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Acute respiratory infections and their control.	Acute respiratory	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Nutrition and food - the basic elements of food and how they affect the structure, growth and development of the child - diseases of malnutrition	Nutrition and food	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	The concept of school health and mental health - the emergence of school health services	School health and mental health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Objectives and importance of school health: Development of school health systems	school health:	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	School health strategies, services and duties	School health services and duties	The lecture is theory and practice	Theoretical, practical and quarterly examination

(8)	2	School health components. - Conditions of the school environment. - The importance of the school's healthy relationship with the community	School health components.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Procedures followed in inspecting the school environment. - Drinking water) General conditions - Sample collection and analysis - Sanitary facilities	Inspection of the school environment	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Initial examination procedures for new students (sight, hearing, speech, and physical examination) Physical disabilities - primary eye and dental care	Initial examination procedures for new students	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Prevention and control of communicable diseases. - Principles of prevention - Types of prevention	Prevention and control of communicable diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Some communicable diseases - mumps - measles - German measles: symptoms - prevention - treatment	Some communicable diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Some sexually transmitted diseases (AIDS - viral hepatitis type B - symptoms - prevention - treatment).	Some sexually transmitted diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Measures of health and disease - incidence rate of diseases Incidence - rate of spread of diseases	Measures of health and disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Health administration - introduction - objectives	Health administration	The lecture is theory and practice	Theoretical, practical and quarterly examination

11. Course Evaluation

Monthly theoretical exam 25

Monthly practical exam 15+

Final theoretical exam 35 +Final practical exam 25

12. Learning and Teaching Resources

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

Course Description Form

13. Course Name: Fundamentals of nursing					
14. Course Code: FNF					
15. Semester / Year: First semester – second semester					
16. Description Preparation Date: 19 /2/2024					
17. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
18. Number of Credit Hours (Total) / Number of Units (Total)					
4 hours (2 theoretical + 2 practical)					
19. Course administrator's name (mention all, if more than one name)					
Name: Ayad abbas Anied Email: ayed.aned@atu.edu.iq					
20. Course Objectives					
Course Objectives		<p>- 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 practice in collection sample. • First aid in nursing procedures in case of fractures, wounds, bleeding , burns, poisoning, shock.</p>			
21. Teaching and Learning Strategies					
Strategy		<p>1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue</p>			
22. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	First aid in laboratories and	Fundamental of Nursing	The lecture is	Theoretical, practical and

		Personal protective equipment, Fundamental of Nursing, definition (Nursing, Nurse, health, Hospital.		theory and practice	quarterly examination
(2) (3)	4	Administration & discharge of patient from hospital, pt.chart , oral report, written of report , Nursing process.(Assessing , planning , Implementation , Evaluation	Administration & discharge of patient from hospital	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4) (5)	4	Physical examination, prepare the pt. to exam, role of Nurse in physical examination, collection of samples, prepare the equipment	Physical examination, prepare the pt	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Position of patient, patient lifting and its risks	motherhood and Childhood care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	4	Basic Needs of Pt. care of Pt. unit, bed making, personal hygiene patient bath, mouth and tooth care. Bed sores, care of sores, causes & prevention of bed sores.	Basic Needs of Pt	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9) (10)	4	Method of sterilization, surgical sterilization, Medical	Method of sterilization Method of sterilization	The lecture is theory and practice	Theoretical, practical and quarterly examination

		sterilization, kind of disinfectant Dressing the wound, kind of sterilize of surgical equipment			
(11) (12)	4	Vital signs, Definition of Temperature, check Temperature, Type of check Temp-oral, axillia, Rectal definition of fever, causes, signs, & symptom, Nursing care of pyrexia, pulse, definition, factors affecting of pulse, site of taking pulse, Nursing point in check pulse, Respiration, definition of respiration, definition of Blood pressure. definition of diastolic & systolic pressure.	Vital signs,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13) (14)	4	Drug administration, define of drug Type of administration of medication, and Injection, {I.M, I.V., S.c, I.D,} cold & hot. Compress, nose eyes & ears drops	Drug administration	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	M Giving fluid & Blood by intravenous	Giving fluid & Blood by	The lecture is	Theoretical, practical and

		infusion, role of Nurse in giving intravenous infusion	intravenous infusion, .	theory and practice	quarterly examination
Second semester					
(1)	2	First aid in laboratories and Personal protective equipment, Fundamental of Nursing, definition (Nursing, Nurse, health, Hospital.	Fundamental of Nursing	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2) (3)	4	Administration & discharge of patient from hospital, pt.chart , oral report, written of report , Nursing process.(Assessing , planning , Implementation , Evaluation	Administration & discharge of patient from hospital	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4) (5)	4	Physical examination, prepare the pt. to exam, role of Nurse in physical examination, collection of samples, prepare the equipment	Physical examination, prepare the pt	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Position of patient, patient lifting and its risks	motherhood and Childhood care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	4	Basic Needs of Pt. care of Pt. unit, bed making, personal hygiene patient bath, mouth and tooth care. Bed sores, care of sores, causes &	Basic Needs of Pt	The lecture is theory and practice	Theoretical, practical and quarterly examination

		prevention of bed sores.			
(9) (10)	4	Method of sterilization, surgical sterilization, Medical sterilization, kind of disinfectant Dressing the wound, kind of sterilize of surgical equipment	Method of sterilization Method of sterilization	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11) (12)	4	Vital signs, Definition of Temperature, check Temperature, Type of check Temp-oral, axillia, Rectal definition of fever, causes, signs, & symptom, Nursing care of pyrexia, pulse, definition, factors affecting of pulse, site of taking pulse, Nursing point in check pulse, Respiration, definition of respiration, definition of Blood pressure. definition of diastolic & systolic pressure.	Vital signs,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13) (14)	4	Drug administration, define of drug Type of administration of medication, and Injection, {I.M,	Drug administration	The lecture is theory and practice	Theoretical, practical and quarterly examination

		I.V., S.c, I.D, } cold & hot. Compress, nose eyes & ears drops			
(15)	2	M Giving fluid & Blood by intravenous infusion, role of Nurse in giving intravenous infusion	Giving fluid & Blood by intravenous infusion, .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(1)	2	First aid in laboratories and Personal protective equipment, Fundamental of Nursing, definition (Nursing, Nurse, health, Hospital.	Fundamental of Nursing	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2) (3)	4	Administration & discharge of patient from hospital, pt.chart , oral report, written of report , Nursing process.(Assessing , planning , Implementation , Evaluation	Administration & discharge of patient from hospital	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4) (5)	4	Physical examination, prepare the pt. to exam, role of Nurse in physical examination, collection of samples, prepare the equipment	Physical examination, prepare the pt	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Position of patient, patient lifting and its risks	motherhood and Childhood care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	4	Basic Needs of Pt. care of Pt. unit,	Basic Needs of Pt	The lecture is	Theoretical, practical and

		bed making, personal hygiene patient bath, mouth and tooth care. Bed sores, care of sores, causes & prevention of bed sores.		theory and practice	quarterly examination
(9) (10)	4	Method of sterilization, surgical sterilization, Medical sterilization, kind of disinfectant Dressing the wound, kind of sterilize of surgical equipment	Method of sterilization Method of sterilization	The lecture is theory and practice	Theoretical, practical and quarterly examination

23. Course Evaluation

Monthly theoretical exam 25
 Monthly practical exam 15+
 Final theoretical exam 35 +Final practical exam 25

24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-Salo Abbas - Principles of Nursing Foundations - Ministry of Health - Health Education Foundation - 1
Main references (sources)	Fuerst fundamental1 of nursing phaeladelphia 1976
Recommended books and references (scientific journals, reports...)	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
Electronic References, Websites	

Course Description Form

25. Course Name: General Anatomy1+2					
26. Course Code: ANA					
27. Semester / Year: First semester – second semester					
28. Description Preparation Date:19 /2/2024					
29. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
30. Number of Credit Hours (Total) / Number of Units (Total)					
4 hours (2 theoretical + 2 practical)					
31. Course administrator's name (mention all, if more than one name)					
Name: Salina Abdel Abbas Email: dr.salina8@gmail.com					
32. Course Objectives					
Course Objectives		<p>General Goals : The students at the end of the Academic Year will have the ability to recognize all the parts of the human body anatomically .</p> <p>2- Special Goals : The students will be able to :</p> <p style="padding-left: 20px;">a- He can correlate between the functions and the anatomy of each part of the body.</p> <p style="padding-left: 20px;">b- He can assist the medical doctor in diagnosis and treatment in some way , primarily and simply as necessary</p>			
33. Teaching and Learning Strategies					
Strategy		<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>			
34. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Introduction and detention of anatomy , surface anatomy of the body , anatomical	Introduction and detention of anatomy	The lecture is theory and practice	Theoretical, practical and quarterly examination

		position ,median plane			
(2)	2	Surface anatomy , planes and vertical lines	Surface anatomy		
(3)	2	Tissues and cells ,types of cells which form different types of tissues , eg : Epithelial , connective ,muscular , nervous tissues etc	Tissues and cells	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Bones and joints :types of bone ,functions of bones ,parts of skeleton	Bones and joints	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Skeleton of upper limb :general anatomical appearance ,skeleton of shoulder girdle :clavicle ,scapula humerus ,radius ,ulna ,skeleton of hand	Skeleton of upper limb	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Skeleton of lower limb :general anatomical appearance, skeleton of pelvis :hip bone,: ilium ,pubic, ischium , femur : leg ,:tibia ,fibula .skeleton of foot	Skeleton of lower limb	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Trunk skeleton :thorax , sternum , ribs	Trunk skeleton	The lecture is theory and practice	Theoretical, practical and quarterly examination

(8)	2	Skull : general appearance	Skull	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Cranium , lower jaw	Cranium	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Vertebral column: types of vertebra of each part	Vertebral column	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Joint: definition, types	Joints	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Joints of upper and lower limb and trunk	Joints	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Muscular system: types of muscles, muscles of head and face, general information	Muscular system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Muscles of upper limb: limbo vertebral muscles, limbo thoracic muscles, muscles of the shoulder, muscles of upper arm, muscles of hand	Muscles of upper limb	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Muscles of the lower limb: muscles of the iliac region, muscles of the gluteal region, muscles of thigh	Muscles of the lower limb	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Muscles of leg and foot	Muscles of leg and foot	The lecture is	Theoretical, practical and

				theory and practice	quarterly examination
(2)	2	Muscles of the trunk , muscles of thorax (superficial and deep), muscles of the abdomen , muscles of the back	Muscles of the trunk , muscles of thorax (superficial and deep), muscles of the abdomen , muscles of the back	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Nervous system: brain , cerebrum , cerebellum , brain stem	Nervous system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Spinal cord: verticals of brain	Spinal cord	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Peripheral nervous system : cranial nerves , :number and function	Peripheral nervous system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Spinal nerves	Spinal nerves	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Autonomic nervous system : parts and functions	Autonomic nervous system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Digestive system: mouth and accessories , pharynx esophagus , stomach	Digestive system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Cardio vascular system : blood vessel in general	Cardio vascular system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Blood and heart	Blood and heart	The lecture is	Theoretical, practical and

				theory and practice	quarterly examination
(11)	2	Veins and arteries: systemic circulation arteries thoracic aorta	Veins and arteries	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Abdominal aorta and its branches	Abdominal aorta and its branches	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Veins of the systemic circulation , veins of lower limb , veins of abdomen	Veins of the systemic circulation , veins of lower limb , veins of abdomen	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Veins of head and neck , applied points, veins and arteries , pulmonary circulation	Veins of head and neck , applied points, veins and arteries , pulmonary circulation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Lymphatic system and respiratory system	Lymphatic system and respiratory system	The lecture is theory and practice	Theoretical, practical and quarterly examination

1. Course Evaluation

Monthly theoretical exam 25
 Monthly practical exam 15+
 Final theoretical exam 35 +Final practical exam 25+

2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	- Principle of anatomy , Dr. Hani T. Al-Azawi , 4 th edition , 1988. 2- Principle of anatomy , Dr. Abdul-Rahman M. Abdul- Raheim & Dr. Ali K
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

3. Course Name: Physiology					
4. Course Code: PHY					
5. Semester / Year: First semester – second semester					
6. Description Preparation Date: 19 /2/2024					
7. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
8. Number of Credit Hours (Total) / Number of Units (Total)					
4 hours (2 theoretical + 2 practical)					
9. Course administrator's name (mention all, if more than one name)					
Name: Thanaa Abdulmahdi Mukheef Email: inb.thn@atu.edu.iq					
10. Course Objectives					
Course Objectives		1-The student is able to know physiology of human body (Structure and functions) 2- The 2-student is able to done more clinical examination that Related with physiology			
11. Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
12. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1) (2)	4	Safety precautions from the hazards of laboratory materials, chemicals and electricity. Cells (Define – Types – Structures of cells) , Tissues (Define ,	laboratory materials	The lecture is theory and practice	Theoretical, practical and quarterly examination

		Types , Structures of tissues) , Muscles (Define , Types , Structures of muscles)			
(3) (4)	4	Blood –Functions – properties composition – blood plasma – blood serum- Erythrocyte (properties – shapes-number – functions) production and degradation of blood cells	Blood – Functions – properties composition	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Leukocyte (Types –Shapes –number- functions)	Leukocyte	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Hemoglobin- functions –normal value- composition Platelets(number- functions) Coagulation of blood – anticoagulant	Platelets+ Hemoglobin	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Cardiovascular system –heart- structure of heart – function – cardiac valves \ cardiac cycle – heart sound	Cardiovascular system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Blood vessels (arteries –veins- capillary blood vessels) properties –blood cycle (pulmonary & systemic)	Blood vessels	The lecture is theory and practice	Theoretical, practical and quarterly examination

(9)	2	Blood pressure – normal value- factors effecting of blood pressure	Blood pressure	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Respiratory system –structure – expiration – inspiration – respiratory muscles – respiratory rate.	Respiratory system.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Pulmonary volume – pulmonary ventilation – regulation of gas exchange in blood by respiration.	Pulmonary volume	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Urinary system – structure – functions	Urinary system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Functions of kidneys- composition of urine – cast and stone in urine normal	Functions of kidneys	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Ear and eye (structure and functions)	Ear and eye	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Skin (Define, Structures, Functions)	Skin	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Digestive system and parts of it	Digestive system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Stages of digestion (Oral, Stomach, Intestine). and digestives enzymes.	Stages of digestion	The lecture is theory and practice	Theoretical, practical and quarterly examination

(3)	2	Intestinal functions and absorption	Intestinal absorption	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Digestive system glands (salivary glands, pancreas-Liver) structure – Functions	Digestive system glands	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Gallbladder – structures and functions	Gallbladder	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Stool formation	Stool formation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	2	Nervous system – structure – functions Central nervous system – peripheral nervous system	Nervous system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	The brain and spinal cord	The brain and spinal cord	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10) (11)	2	Different area in brain which responsible for sense, movement, hearing, smell, taste, sight.	area in brain	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12) (13)	2	Endocrine glands (types and functions)	Endocrine glands	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14) (15)	2	Reproductive system (male and female) structure and functions	Reproductive system	The lecture is theory and practice	Theoretical, practical and quarterly examination
1. Course Evaluation					
Monthly theoretical exam 25					

Monthly practical exam 15+
Final theoretical exam 35 +Final practical exam 25

2. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Guyton, A. C. and Hall, J. E. 2006. Textbook of Medical Physiology. 11th Edition. Saunders, Philadelphia. USA. - Bipin Kumar. 2001. Human Physiology. Campus Book International, New Delhi
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

35. Course Name: Medical Microbiology 1					
36. Course Code: BIO					
37. Semester / Year: First semester – second semester					
38. Description Preparation Date: 19 /2/2024					
39. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
40. Number of Credit Hours (Total) / Number of Units (Total)					
4 hours (2 theoretical + 2 practical)					
41. Course administrator's name (mention all, if more than one name)					
Name: Prof.Dr. Saba Fadhil Ali Malaa Email: sabafam6@atu.edu.iq					
42. Course Objectives					
Course Objectives		General objectives : Student will be able to know a simple general idea about : Pathogenes (Bacteria, fungi, parasites and viruses), the immunity and disease prevention Special objectives : Student will be able to : <ul style="list-style-type: none"> • To diagnose some simple cases in his field work, instead of specialest, when specielest is absent. • Do some tests in the labs. • Collect, preserve and transport the pathgenic samples. • Give an advice for disease prevention and control 			
43. Teaching and Learning Strategies					
Strategy		Teaching and learning methods 1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
44. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	History of microbiology, site of microorganism in the world of the living &	History of microbiology	The lecture is	Theoretical, practical and

		the branches of microbiology. Biological hazards and how to deal with them, signs and warning signs in laboratories, Disposal of waste from workshops and medical laboratories, Disposal of medical laboratory waste.		theory and practice	quarterly examination
(2)	2	Bacterial morphology, bacterial cell structure.	Bacterial morphology	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Bacterial requirement, growth curve	Bacterial requirement	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Controle of microorganisms	Controle of microorganisms	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Pathogenes of respiratory system	Pathogenes of respiratory system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Pathogenes of digestive system.	Pathogenes of digestive system.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Pathogenes of urinary and sexual systems	Pathogenes of urinary and sexual systems	The lecture is theory	Theoretical, practical and

				and practice	quarterly examination
(8)	2	Food poisoning.	Food poisoning.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Contamination of hospitals .	Contamination of hospitals .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	General characters of fungi .	General characters of fungi .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Fungal diseases.	Fungal diseases.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	The viruses , shapes , sizes & some viral diseases	The viruses	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Introduction of parasites.	parasites.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Protozoa , Entamoeba histolytica	Protozoa	The lecture is theory and practice	Theoretical, practical and quarterly examination

(15)	2	Flagellates, Giardia . Trichomonase .	Flagellates	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Blood flagellates, Leishmania.	Blood flagellates, Leishmania.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Sporozoa, Plasmodium , Toxoplasma.	Sporozoa	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Helimenthes , Taenia .	Helimenthes , Taenia .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Echinococcus granulosis.	Echinococcus granulosis.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Hymenolipes nana	Hymenolipes nana	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Trematoda helminthes	Trematoda helminthes	The lecture is theory and practice	Theoretical, practical and quarterly examination

(7)	2	Trepanoma ,Schistosomes	Trepanoma ,Schistosomes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Bacterial genetics	Bacterial genetics	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Immunity and immune system	Immunity	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Antibody &antigen .	Antibody &antigen .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Antibody &antigen reactions	Antibody &antigen reactions	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Hypersensitivity	Hypersensitivity	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Autoimmune diseases	Autoimmune diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Discussion of course material	Discussion of course material	The lecture	Theoretical, practical

				is theory and practice	and quarterly examination
(15)	2	Discussion of course material	Discussion of course material	The lecture is theory and practice	Theoretical, practical and quarterly examination

13. Course Evaluation

Monthly theoretical exam 25
 Monthly practical exam 15+
 Final theoretical exam 35 +Final practical exam 25

14. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	- 1- Michael J. Leboffe. (2002). Microbiology: Laboratory Theory & Application, Brief 3e 3rd Edition 2- P.C. Trivedi, Sonali Pandey, Seema Bhadauria. 2010. TEXT BOOK OF MICROBIOLOGY. Aavishkar Publishers, Distributors. ISBN 978-81-7910-306-7. 3- Subhash Chandra Parija. 2012. Textbook of Microbiology and Immunology, 2 nd edition. Elsevier
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

45. Course Name: Biostatic1+2					
46. Course Code: BIOS					
47. Semester / Year: First semester – second semester					
48. Description Preparation Date: 19 /2/2024					
49. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
50. Number of Credit Hours (Total) / Number of Units (Total)					
2 hours (theoretical)					
51. Course administrator's name (mention all, if more than one name)					
Name: Qusay Abdulhamza Muttaleb					
Email: qusay.muttaleb@atu.edu.iq					
52. Course Objectives					
Course Objectives	<p>Objectives of the article- :</p> <p>At the end of the school year, the student will be able to process and analyze statistical data and reach conclusions. The correct one.</p> <p>The student will be able to: Special:</p> <ul style="list-style-type: none"> -Dealing with statistical data. -Dealing with and knowing life and health statistics. -Organizing the statistical form and the health form related to daily incidents such as births, deaths, and diseases. 				
53. Teaching and Learning Strategies					
Strategy	<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>				
54. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

(1) (2)	4	Introduction to statistics and its types, samples, variables, classified and unclassified data.	Definition of Statistics	The lecture is theory	Monthly and quarterly exam
(3) (4)	4	Representing frequency distributions "classified data" - graphical display methods (frequency histogram, frequency curve, frequency polygon)	Representing Frequency Distributions	The lecture is theory	Monthly and quarterly exam
(5) (6) (7)	6	- Measures of central tendency - Arithmetic mean. - Mediator. - The loom.	Measures of Central Tendency	The lecture is theory	Monthly and quarterly exam
(8)	2	Methods of selecting statistical samples, their meaning and reasons for choosing them.	Display Statistical Data	The lecture is theory	Monthly and quarterly exam
(9) (10)	4	Preparing a questionnaire form for health and medical research.	Questionnaire	The lecture is theory	Monthly and quarterly exam
(11)	2	Definition of health statistics and its sources.	Health Statistics	The lecture is theory	Monthly and quarterly exam

(12) (13) (14)	6	Biostatistics: - The concept of ratio and rate - Death statistics - Birth statistics	Biostatistics	The lecture is theory	Monthly and quarterly exam
(15)	2	Statistics of causes of death) medical certificate, obituary, death, death certificate	Statistics	The lecture is theory	Monthly and quarterly exam
Second semester					
(1) (2)	4	Scientific research (the purpose of the research and what are the ambitions for conducting it)	Scientific Research	The lecture is theory	Monthly and quarterly exam
(3)	2	Ethics of scientific research	Research Ethics	The lecture is theory	Monthly and quarterly exam
(4)	2	Structure of scientific research	Research Elements	The lecture is theory	Monthly and quarterly exam
(5)	2	Types of statistical studies	Types of studies	The lecture is theory	Monthly and quarterly exam
(6) (7)	4	Research basics (statistical method) -Technology with data- Data collection plan – data analysis - Testing and ethical considerations	Research Basics	The lecture is theory	Monthly and quarterly exam
(8) (9) (10)	6	Preparing the questionnaire form	Preparing the Form	The lecture is theory	Monthly and quarterly exam
(11)	2	How to transcribe questionnaires and convert them into	Questionnaires and Turning	The lecture is theory	Monthly and quarterly exam

		classified statistical data	them into Statistics.		
(12) (13)	4	How to start scientific research (choosing the title, objectives, type of samples)	How to do scientific research	The lecture is theory	Monthly and quarterly exam
(14) (15)	4	Some applications used in scientific research.	Examples of Search Applications	The lecture is theory	Monthly and quarterly exam

15. Course Evaluation

Monthly theoretical exam 40

Final theoretical exam 60

16. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Adnan Shaker Al-Rubaie - Principles of statistics and its uses in the field of public health / Ministry of Health 1
Main references (sources)	- 1- W.DIXON and F. massey _ Introduction to statistical Analysis 2- Paul G. Hoel _ Introduction to mathematical statistics.
Recommended books and references (scientific journals, reports...)	1-Banderford Hill. Fundamental in Biostatistics 1975 F. Margrette -Fundamental in Public health -2
Electronic References, Websites	

Course Description Form

55. Course Name: Clinical Chemistry1+2	
56. Course Code: BIOC	
57. Semester / Year: First semester – second semester	
58. Description Preparation Date: 19 /2/2024	
59. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)	
60. Number of Credit Hours (Total) / Number of Units (Total)	
4 hours (1 theoretical + 3 practical)	
61. Course administrator's name (mention all, if more than one name)	
Name: Najlaa Jawad hasani Email: njlaajawad66.iba@atu.edu.iq	
62. Course Objectives	
Course Objectives	<p>Objectives of the article: general aims:</p> <ol style="list-style-type: none"> 1 (The student knows what clinical chemistry is, its principles and its importance in the field of medicine. 2 (It measures the chemical components in the human body in the laboratory. <p>Special goals: That the student will be able to:</p> <ol style="list-style-type: none"> 1 (Knows clinical chemistry. 2 (He knows the chemical compounds present in the human body and the sources of them formation in the body. 3 (Knows the normal ratios of chemical compounds in the blood. 4 (Recognize the variables that can occur to these compounds in abnormal cases. 5 (It uses the levels of these compounds in the blood serum to measure the efficiency of the Functional performance of some body organs such as the liver and kidneys.

6 (Diagnoses various diseases in terms of changes that occur at the levels of these Compounds in blood and other body fluids. 7 (Know the different laboratory methods that are used in clinical chemistry laboratories. 8 (Uses devices that are used in clinical chemistry laboratories 9) Measures the levels of Chemical components important in diagnosing diseases in the blood laboratory.
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63. Teaching and Learning Strategies

Strategy	1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue
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64. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Safety standards when establishing or establishing workshops and scientific laboratories. Basic equipment to be available in laboratories . Safety precautions from the hazards of laboratory materials, chemicals and electricity. Chemical hazards and how to deal with them, Radiation hazards and how to deal with them	Safety of laboratories	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Introduction to analytical chemistry - methods of expressing solution concentrations -	Introduction to analytical chemistry	The lecture is theory and practice	Theoretical, practical and quarterly examination

		molar concentration - standard concentration - percent concentration - methods of dilution and preparation of laboratory			
(3)	2	-Hydrogen concentration (pH) - the importance of the hydrogen concentration in the human body - the hydrogen concentration of the blood - buffer solutions - their properties and methods of preparation	-Hydrogen concentration (pH)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Analytical methods used in clinical chemistry laboratories - qualitative analysis - quantitative analysis - types of quantitative analysis	Analytical methods used in clinical chemistry laboratories	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Chromatography - Types of chromatography - Beer's law - BeerLambert's law – Stand	Chromatography	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Definition of biochemistry - Definition of clinical chemistry - Body fluids and their importance in conducting clinical chemistry tests - Urine - Urine	Definition of biochemistry	The lecture is theory and practice	Theoretical, practical and quarterly examination

		<p>collection and methods of preservation - The formation of urine in the human body - Normal rate of urine excretion - Definition of excessive urine - Definition of poor urine - Definition of lack of urine</p>			
(7)	2	<p>Natural and unnatural components of urine - general urine analysis - clinical importance - urinary system stones and their types - and the reasons for their formation</p>	Urine	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	<p>Blood - blood collection - blood plasma - blood serum - the difference between plasma and serum and how to get each of them - anticoagulants - the most important types of anticoagulants used in clinical chemistry - precipitation of blood proteins - the purpose of precipitation of blood proteins when conducting some clinical chemistry tests - The most important blood</p>	Blood	The lecture is theory and practice	Theoretical, practical and quarterly examination

		protein precipitators used in clinical chemistry			
(9)	2	Electrolytes - the importance of electrolytes in the human body - types of electrolytes - sodium - its metabolism - its function its clinical importance - potassium - its metabolism - its function - its clinical importance - chloride - its metabolism - its function - its clinical importance	Electrolytes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Calcium - Metabolism - Function - Clinical Importance - Phosphorous - Metabolism - Function - Clinical Importance - Iron - Metabolism - Function - Clinical Importance	- types of electrolytes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Carbohydrate compounds - their sources - their classification - glucose sugar - glucose metabolism - glucose level in blood - factors that maintain blood glucose level - clinical significance of glucose - renal	Carbohydrate	The lecture is theory and practice	Theoretical, practical and quarterly examination

		threshold and urine glucose level			
(12)	2	Diabetes mellitus - alternative energy - sources of its formation - ketone bodies - acidification of the blood	Diabetes mellitus	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	glucose tolerance test - preparing the patient for the test - the most important glucose tolerance charts - normal chart - diabetes mellitus chart - poor storage process chart - flat chart - diabetes urine chart	glucose tolerance test	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Fats - classification - lipid metabolism - lipids in blood plasma - fatty acids	Fats	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Cholesterol - chemical formula - presence of cholesterol - cholesterol metabolism - cholesterol biosynthesis - function of cholesterol in the human body - clinical significance of cholesterol	Cholesterol	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Triglycerides - types of triglycerides - their clinical significance	Triglycerides	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Proteins - protein structure - amino	Proteins	The lecture is	Theoretical, practical and

		acids - properties of amino acids - union of amino acids to form protein - peptide bond - Zwitter ion		theory and practice	quarterly examination
(3)	2	Classification of proteins in the human body - insoluble proteins - soluble proteins - blood plasma proteins - serum proteins - functions and importance of proteins in the human body - clinical significance of total protein in serum	Classification of proteins	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Techniques used to separate different types of blood proteins - Electrophoresis of serum proteins - Factors affecting the electrophoresis process - Types of supporting media - Separation method - Methods for reading the results	separate of blood	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Non-protein nitrogen compounds - their types in the human body - uric acid - the biosynthesis of uric acid - the clinical importance of uric acid - urea - the biosynthesis of urea	-protein compounds	The lecture is theory and practice	Theoretical, practical and quarterly examination

		- the clinical importance of urea			
(6)	2	Creatine - Creatine biosynthesis - Clinical significance of creatine - Creatinine - Creatinine biosynthesis - Clinical significance of creatinine - Creatinine clearance test	Creatine	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	2	Liver function tests - liver - liver function - clinical signs of liver disease - bilirubin - biosynthesis and fate of bilirubin	Liver	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Jaundice - types of jaundice - pigment excretion in different cases of jaundice - liver function tests importances	Jaundice	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Enzymes - Functions of enzymes in the body - Classification of enzymes - Factors affecting the work of enzymes - The basic substance on which the enzyme works - How does an enzyme work - GOT & GPT enzymes - Properties and function of each and its clinical importance	Enzymes	The lecture is theory and practice	Theoretical, practical and quarterly examination

(11)	2	Alkaline phosphatase and acid phosphatase - properties, functions and clinical significance of each	Types of Enzymes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Amylase and lipase - properties, functions and clinical significance of each	Amylase	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Vitamins - their classification - Vitamins (A - B - C - D) their respective functions - and their sources	Vitamins	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Hormones - nature of hormones - their functions - some important hormones and their functions and the gland producing each of them	Hormones	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Introduction to PCR technique (Polymerase chain reaction) - definition - importance – uses	Introduction to PCR	The lecture is theory and practice	Theoretical, practical and quarterly examination

17.Course Evaluation

Monthly theoretical exam 25
 Monthly practical exam 15+
 Final theoretical exam 35 +Final practical exam 25

18.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	- Pr1) Clinical Chemistry / Muhammad Fathi Al-Hawari / Technical Education Authority 2 (Clinical Chemistry Binding / Muhammad Ramzi Al-Omari / Technical Education Authority 3 (Practical Clinical Chemistry / Muhammad Ramzi Al-Omari / Technical Education Authority

	<p>4 (General Chemistry / Saiba Abdullah - Hanaa Salman - Maysoon Suleiman / Technical Education Authority</p> <p>5 (Quality control for pharmacy students / Sayed Muhammad Abu Zaid / Technical Education Authority</p> <p>6 (Laboratory and pharmaceutical equipment / Sayed Muhammad Abu Zaid / Technical Education Authority</p> <p>7 (Analytical Chemistry / Dr. Sajida Abdel Hamid / Technical Education Authority</p> <p>24</p> <p>Fundamental of clinical chemistry / Norbert Tietz)8</p> <p>Clinical chemical pathology / G.H. Gary)9</p> <p>Basic Techniques for the medical laboratory / Jean Jorgenas</p>
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

65. Course Name: Computer Applications(1)+(2)					
66. Course Code: CAI					
67. Semester / Year: First semester – second semester					
68. Description Preparation Date: 19 /2/2024					
69. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
70. Number of Credit Hours (Total) / Number of Units (Total)					
3 hours (1 theoretical + 2 practical)					
71. Course administrator's name (mention all, if more than one name)					
Name: ALI MOHAMMED ABDUL MAJEED					
Email: ali.majed@atu.edu.iq					
72. Course Objectives					
Course Objectives		The student must be able to use a computer, be familiar with its use, and understand how to use its software			
73. Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
74. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	An introduction to computers: generations - their components: hardware and software - (system software and application programs).	Introduction to computers: its generations	The lecture is theory and practice	Theoretical, practical and quarterly examination

(2)	2	MS-DOS operating system: the concept of the operating system - system reference - disks - directories, their levels and files - internal operating system commands - and external commands (the most commonly used commands).	S MS-DOS: Operating System Concept		
(3-12)	10	Internal operating system commands: Internal commands: Dir – Del – Time – Date – Cls – RD – CD – MD – Echo – Ren – Copy – Vol – Ver – Path	Internal operating system commands	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13-15)	3	Windows operating system: The concept of the Windows system - its advantages - its basic requirements - operating the system	Windows operating system	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1-12)	12	Desktop main screen components - the concept of the icon - how to deal with mouse activities - the importance and components of the Task Bar - making use of Start to enter programs - the concept of loaded tasks - exiting the	M The concept of the window for any program and identifying its main (components	The lecture is theory and practice	Theoretical, practical and quarterly examination

		<p>system and turning off the calculator</p> <p>Shut Down.</p> <p>Take advantage of the Run option to execute programs directly, as well as switch to the MS-DOS operating system signal and deal with its commands. dealing with</p> <p>Paint is a drawing program for creating, saving, and retrieving drawings through the commands it provides.</p> <p>Working with the NotePad and WordPad notes window to write, save, retrieve, print texts, and change their printing style and format.</p> <p>Use entertainment programs such as Window media player to play movies</p> <p>Take advantage of additional Accessories programs such as the Calculator</p> <p>The concept of the window for any program and learning about its main components -</p> <p>Dealing with desktop</p>			
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		<p>icons Getting to know the components of My Computer in terms of disks - folders and files - How to deal with - Formatting floppy disks - Copying folders and files - Taking advantage of cutting and pasting and knowing the properties of disks, folders and files - Dealing with The trash can and how to delete and retrieve files through what the trash can provides in this aspect</p>			
(13-15)	3	<p>The concept of computer viruses: how to get infected - their types, treatment, and dealing with them through anti-virus programs available within the Windows operating system environment</p>	<p>Computer virus concept</p>	<p>The lecture is theory and practice</p>	<p>Theoretical, practical and quarterly examination</p>
19.Course Evaluation					
<p>Monthly theoretical exam 25 Monthly practical exam 15+ Final theoretical exam 35 +Final practical exam 25+</p>					
20.Learning and Teaching Resources					
<p>Required textbooks (curricular books, if any)</p>					

Main references (sources)	- Principle of anatomy , Dr. Hani T. Al-Azawi , 4 th edition , 1988. 2- Principle of anatomy , Dr. Abdul-Rahman M. Abdul- Raheim & Dr. Ali K
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

75. Course Name: Human Rights & Democratic	
76. Course Code: HRD	
77. Semester / Year: second semester	
78. Description Preparation Date: 19 /2/2024	
79. Available Attendance Forms: Form of attendance: academic + practical application + on-site training	
80. Number of Credit Hours (Total) / Number of Units (Total)	
2 hours (2 theoretical)	
81. Course administrator's name (mention all, if more than one name)	
Name: Dr. Zaid Khader Jassim Email: zaid.bermany@atu.edu.iq	
82. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> a) General objectives: At the end of the academic year: <ul style="list-style-type: none"> b) 1 /The student learns about the principles and values of human rights, introduces them, and educates him or her to respect and adhere to them. c) 2 /Learn about public freedoms and what these freedoms are in their details. d) Specific objectives: <ul style="list-style-type: none"> e) 1 /The student learns about continuous awareness of human rights and the fundamental freedoms associated with them. f) 2 /Fights everything that aims to ignore it, undermine it, or undermine its sanctity. g) 3 /Learn about the concept of democracy and its relationship to public freedoms.
83. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> 1- Theoretical lecture method 2- Method of discussion and dialogue
Course Structure .^ε	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Human rights - their definition - their goals Human rights in ancient civilizations, especially the Mesopotamian civilization	Human rights - their definition - their goals	The lecture is theory	Monthly and quarterly exam
(2)	2	Human rights in divine laws, with a focus on human rights in Islam	Human rights in divine laws,	The lecture is theory	Monthly and quarterly exam
(3)	2	Non-governmental organizations and human rights (International Committee of the Red Cross - Amnesty International - Human Rights Watch - Arab Human Rights Organizations)	Non-governmental organizations and human rights	The lecture is theory	Monthly and quarterly exam
(4)	2	Human rights in the Iraqi constitutions between theory and reality. The Iraqi constitution	Human rights in the Iraqi constitutions between theory and reality	The lecture is theory	Monthly and quarterly exam
(5)	2	The relationship between human rights and public freedoms: 1- In the Universal Declaration of Human Rights	The relationship between human rights and public freedoms	The lecture is theory	Monthly and quarterly exam
(6)	2	Modern human rights: economic, social and cultural human rights and civil and political human rights In regional charters and national constitutions	Modern human rights: economic, social and cultural human rights and civil and political human rights	The lecture is theory	Monthly and quarterly exam

(7)	2	T Guarantees of respect and protection of human rights at the national and international levels The role of non – governmental organizations in respecting and protecting human rights	Guarantees of respect and protection of human rights at the national and international levels	The lecture is theory	Monthly and quarterly exam
(8)	2	For freedoms: the origin of rights and freedoms - the project's position on declared rights and freedoms - the use of the term freedoms	General theory of freedoms	The lecture is theory	Monthly and quarterly exam
(9)	2	Equality: The historical development of the concept of equality The modern development of the idea of equality Gender equality 0 - Equality between individuals according to their beliefs and race 0	quality: The historical development of the concept of equality The modern development of the idea of equality	The lecture is theory	Monthly and quarterly exam
(10)	2	Ve Democracy, definition and types	Democracy, definition and types	The lecture is theory	Monthly and quarterly exam
(11)	2	Democracy in the - world	Democracy - in the world	The lecture is theory	Monthly and quarterly exam
(12)	2	Joi The crime of genocide	The concept of annihilation	The lecture is theory	Monthly and quarterly exam
(13)	2	The concept of freedoms, classification of public freedoms	MThe concept of freedoms, classification of public freedoms	The lecture is theory	Monthly and quarterly exam

		Fundamental freedoms, intellectual freedoms, economic and social freedoms	Fundamental freedoms, intellectual freedoms, economic and social freedoms		
(14)	2	Freedom of security and feeling of reassurance - freedom to come and go	Freedom of security and feeling of reassurance - freedom to come and go	The lecture is theory	Monthly and quarterly exam
(15)	2	Freedom of - education - Freedom of the press - Freedom of assembly - Freedom of women	Freedom of - education - Freedom of the press - Freedom of assembly - Freedom of women	The lecture is theory	Monthly and quarterly exam

21. Course Evaluation

Monthly theoretical exam 40
Final theoretical exam 60

22. Learning and Teaching Resources

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

Course Description Form

85. Course Name: Health Community					
86. Course Code: CH2					
87. Semester / Year: First semester – second semester					
88. Description Preparation Date: 19 /2/2024					
89. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
90. Number of Credit Hours (Total) / Number of Units (Total)					
5 hours (2 theoretical + 3 practical)					
91. Course administrator's name (mention all, if more than one name)					
Name: Aseel Hafez Jawad					
Email: aseel.abbod.iba@atu.edu.iq					
92. Course Objectives					
Course Objectives	<p>He will be able to play with the concepts of the health of society and the technologies involved in it.</p> <p>Ankhbeskh -: Antanb will be able to:</p> <ol style="list-style-type: none"> 1 .To learn about the components of counseling and counseling education. 2 .To be familiar with the method of organizing family and children’s forms in an organized manner. 3 .To emphasize the importance of nutrition • 4 .To play with advice concepts and advice standards and get carried away. 				
93. Teaching and Learning Strategies					
Strategy	<ol style="list-style-type: none"> 1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue 				
94. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

(1)	2	Details of theoretical vocabulary First semester	Single noun of the week	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Definition of health and disease , The epidemiological triad	The epidemiological triad		
(3)	2	Community health , Maternal and childhood care	Community health Maternal and childhood care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Health education	Health education	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Nutrition ,Basic food components and their importance	Nutrition	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Environmental health and its goals	Environmental health and its goals	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Medical wastes ,its classification , method of handing , how to dispose of it waste its types and disposal	Medical wastes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	The concept of disability and the physically and mentally disabled	The concept of disability	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Rehabilitation and its type	Rehabilitation and its type	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Control of infection and transmissible diseases	Control of infection and transmissible diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination

(11)	2	Transmissible - disease	Transmissible disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Life Statistics , birth and death rate	Life Statistics , birth and death rate	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Details of theoretical vocabulary First semester	Single noun of the week	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Definition of health and disease , The epidemiological triad	The epidemiological triad	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Community health , Maternal and childhood care	Community health Maternal and childhood care	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	The concept of international health and its emergence	The concept of international health and its emergence	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Ahistorical overview of international health	international health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Global policy of international health	Global policy of international health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Ethical issues in international health service delivery	Ethical issues in international health service delivery	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	International treaties and international health diplomacy	International treaties	The lecture is theory and practice	Theoretical, practical and quarterly examination

(6)	2	Global health policies development	Global health policies development	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Eradication and elimination of disease	Eradication and elimination of disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Definition of infection disease and what are the factors of the epidemiological triad	Factors of the epidemiological Triad	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Ways to prevent infection disease	Ways to prevent infection disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Method of controlling infection s diseases	Method of controlling infection s diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Statistical are vital	Statistical are vital	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	AIDS and hepatitis A and B	AIDS and hepatitis A and B	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Pandemic influenza	Pandemic influenza	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Hemorrhagic fever	Ebola hemorrhagic disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Malaria	Malaria	The lecture is theory and practice	Theoretical, practical and quarterly examination

23.Course Evaluation

Monthly theoretical exam 25
Monthly practical exam 15+

Final theoretical exam 35 +Final practical exam 25

24.Learning and Teaching Resources

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

Course Description Form

95. Course Name: Health and Occupational Safety					
96. Course Code: HOS					
97. Semester / Year: First semester – second semester					
98. Description Preparation Date: 19 /2/2024					
99. Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
100. Number of Credit Hours (Total) / Number of Units (Total)					
5 hours (2 theoretical + 3 practical)					
101. Course administrator's name (mention all, if more than one name)					
Name: Dr. Shahad saad mohammed					
Email: Shahad.mohammed.bib22@atu.edu.iq					
6 Course Objectives					
Course Objectives	<p>At the end of his humanization, Antana will be able to recognize him</p> <p>The importance of professional advice and safety.</p> <p>In particular: Antana will be able to:</p> <p>A - To recognize the harms that their livestock are exposed to in different establishments.</p> <p>B - That the conditions for professional health care and safety provided by a means of prevention in the event of accidents are concerned.</p> <p>General injuries and various occupational diseases.</p>				
7 Teaching and Learning Strategies					
Strategy	<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>				
8 Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

(1)	2	Principles of occupational health and safety	The concept of occupational health and safety and its goals	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Occupational health and safety in Iraq	Occupational health		
(3)	2	Occupational health and safety and its relationship to productivity	Production elements and production processes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Physical (natural) hazards	Its types, factors in the work environment, and diseases resulting from them	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Noise and vibrations	Noise and vibrations	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Temperature, humidity and air velocity	The basic factors that affect the individual's adaptation process to heat -The effect of temperature and humidity in the atmosphere on human health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Lighting and radiation of all kinds	Poor lighting, its types, and protecting the eye from the	The lecture is theory and practice	Theoretical, practical and quarterly examination

			danger of improper lighting Types of ionizing radiation and ionizing radiation		
(8)	2	Atmospheric pressure	Low atmospheric pressure - high atmospheric pressure - preventing the effects of high and low atmospheric pressure	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	electricity	Electricity risks - electric shock - prevention of electrical accidents	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Chemical risks	Chemical risks resulting from the presence of solid, liquid and gaseous materials	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Chemical risks	Which cause environmental pollution - sources of air pollution - atmospheric air pollutants and their risks - risks of gases and fumes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Biological risks, infectious diseases	Causes of infection with biological risks	The lecture is	Theoretical, practical and

		and psychological factors	and the most important causative diseases - psychological risks	theory and practice	quarterly examination
(13)	2	Mechanical hazards	Causes and prevention: Machines and hand tools - ladders and stairs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Industrial poisons	Introduction to toxicology (definition of poison - the way it enters the body - its interactions inside the body and ways of excreting it from the body)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Heavy metal poisoning	Lead - mercury - chromium	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Pesticide poisoning	What are insecticides used for? And its symptoms	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Poisoning with organic compounds	Organic solvents - hydrocarbons and their derivatives The most important	The lecture is theory and practice	Theoretical, practical and quarterly examination

			industries that use organic solvents with solvent properties		
(3)	2	Work accidents and injuries	Definition of accident and injury, its causes and types	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Handling and storing materials	Storage objectives - factors that must be studied for the storage process - sources of danger in warehouses - basic rules that must be provided in storage places -Methods of transporting and handling solid and liquid materials	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Signs and effects of safety and security	Slides for safety and security signs - Meanings of symbols on containers of hazardous chemicals	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Obstacles and the role of civil defense in facilities	Work injury statistics - ways to prevent occupational risks	The lecture is theory and practice	Theoretical, practical and quarterly examination

(7)	2	Medical prevention methods	Primary, periodic, special and rehabilitation examinations	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	First aid services at the work site	Health and professional services at the workplace (organization and duties)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Engineering prevention methods	Closing - replacement - isolation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Ventilation	Monitoring the work environment (detecting and measuring pollutants in the work environment and comparing them to the recommended limits to identify an occupational health basis)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	personal cleanliness Personal protective equipment	Work site inspection Its types - specifications - use	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Age and safety legislation	1-Decisions related to	The lecture is	Theoretical, practical and

			occupational health and safety 2- Laws 3- Systems 4-Instructions	theory and practice	quarterly examination
(13)	2	Study and use of inhalable dust collection devices - Study of the types of filters used to collect dust samples	Study and use of inhalable dust	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Study and use of the bacteria collection device	Sample bacteria	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Recognize the signs of safety and security by displaying slides. Study and use of a lung efficiency screening device	Recognize the signs of safety and security	The lecture is theory and practice	Theoretical, practical and quarterly examination

25.Course Evaluation

Monthly theoretical exam 25
Monthly practical exam 15+
Final theoretical exam 35 +Final practical exam 25

26.Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Occupational health and safety book 2015 Occupational Health and Safety Management Book 2009 Iraqi Labor Law No. 37 of 2015 Law No. 2 of 2018 Instructions for Vocational Training Encyclopedia of Occupational Health and Safety (ILO)

Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

9 Course Name: Medicine &Surgical					
10 Course Code: MS					
11 Semester / Year: First semester – second semester					
12 Description Preparation Date:19 /2/2024					
13 Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
14 Number of Credit Hours (Total) / Number of Units (Total)					
6 hours (2 theoretical + 4 practical)					
15 Course administrator's name (mention all, if more than one name)					
Name: Naiel abbass kadhiem					
Email: drnaiel81@gmail.com					
16 Course Objectives					
Course Objectives		General Goals : ; The Student Will be able how treat simple cases Special ; 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			
17 Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
18 Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Causes, clinical features, diagnosis, treatment.	Diphtheria (Medicine) + Head injury (Surgery)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Causes, clinical features, diagnosis, treatment,	Whooping Cough , Mumps (M) + Meningeal injury (S)		

		prevention of the disease.			
(3)	2	Causes, clinical features, diagnosis, treatment, management and approach.	Typhoid (M) + face injury (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Measles, german Measles ,small pox (M) + surgical mouth (S), corona virus infections	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Infection of mouth and tongue (M) + surgical tongue (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gastritis and pepticulcer (M) + gum ulcer (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Jaundice (M) + tonsillitis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Heart failure (M)) + esophagus ca. (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Causes, clinical features, diagnosis, treatment,	Myocardial infarction MI angina (M)	The lecture is theory and practice	Theoretical, practical and quarterly examination

		prevention of the disease.			
(10)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	angina (M)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Ca. stomach , ca. intestine (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hypertension (M) + appendicitis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Congenital heart disease (M) + intestinal obstruction (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	14 Pneumonia (M) + liver abscess (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Asthma (M) + liver injury (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Causes, clinical features, diagnosis, treatment,	1 Bronchitis (M) + cholecystitis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination

		prevention of the disease.			
(2)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Pleural effusion (M) + gall bladder stone (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Anemia (M) + spleen injury (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Leukemia (M) + pancreatitis (S), Hemorrhagic fever	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Lymphoma (M) + hernia (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hemophilia (M) + types of hernia (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Glomerulonephritis (M) + tracheal obstruction (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Nephrotic syndrome and renal failure (M) + lung ca. (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination

(9)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Rheumatoid arthritis (M) + fracture (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gout (M) + pyelonephritis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gout (M) + pyelonephritis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hyperpituitarism (M) + renal stones (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Thyroid gland disease (M) + bladder ca. (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Addison diseases (M) + blood transfusion (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Para Thyroid gland disease (M) + hemorrhoid (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination

27.Course Evaluation

Monthly theoretical exam 25
Monthly practical exam 15+
Final theoretical exam 35 +Final practical exam 25+

28. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Surgical internal medicine binding_ Dr. Fawaz Al 1- Khalti
Main references (sources)	
Recommended books and references (scientific journals, reports...)	- Principle of anatomy , Dr. Hani T. Al-Azawi , 4 th edition , 1988. 2- Principle of anatomy , Dr. Abdul-Rahman M. Abdul- Raheim & Dr. Ali K Internal Surgical Nursing - Written by Fayza Boulos
Electronic References, Websites	

Course Description Form

19 Course Name: Health Inspection					
20 Course Code: HIN					
21 Semester / Year: First semester – second semester					
22 Description Preparation Date: 19 /2/2024					
23 Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
24 Number of Credit Hours (Total) / Number of Units (Total)					
6 hours (2 theoretical + 4 practical)					
25 Course administrator's name (mention all, if more than one name)					
Name: Zainab Kareem Jawad					
Email: inb.znb5@atu.edu.iq					
26 Course Objectives					
Course Objectives	<p>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</p> <p>. 2- Special Goals : The students will be able to - To become familiar with the foundations, rules and requirements for the success of the inspection process.</p> <p>B - To determine the health conditions and specifications that must be legally available in stores</p> <p>Subject to health supervision</p>				
27 Teaching and Learning Strategies					
Strategy	<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>				
28 Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	The concept of health control, foundations, rules, objectives and	The concept of health control, foundations, rules,	The lecture is theory and practice	Theoretical, practical and quarterly examination

		requirements of the inspection process			
(2)	2	Su The divisions and units of the Public Health Department, their duties, and the fundamental procedures for following up on health conditions	Public health department units		
(3)	2	Food system, extracts from the Public Health Law	Food system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	General conditions, conditions for granting health leave, conditions that must be met by the leave holder and the workers	Conditions for granting health leave	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Special conditions, including hotels, rest houses, public cafes, casinos, family parks, and shops selling coffee and tea.	S Special conditions	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Sk Ovens, bakeries and pastries, food and beverage preparation and serving shops	S Ovens, bakeries and pastries	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	TrOvens, bakeries and pastries, food and beverage preparation and serving shops	Shops that prepare and sell ice cream services	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Stores selling meat, dairy, eggs, and animal products	Stores selling meat, dairy and eggs	The lecture is theory and practice	Theoretical, practical and quarterly examination

		(wholesale). Stores selling red meat, poultry and their products			
(9)	2	C Stores selling ready-made food and beverages, wholesale and retail river and sea fish stores, and sherbet kiosks	Stores selling ready-made food and beverages	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Barber and beauty salons, coffee grinding and selling shops, live chicken shops	Barber and beauty salons	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	The role of agility	The role of agility	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Food industry laboratory, food additives	Food industry laboratory, food additives	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Food safety (food fraud)	Food safety	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Food industry laboratory, food additives	Food industry laboratory, food additives	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Sweets factory, Al-Rashi production factory	Sweets factory	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Ice factor, gypsum factor	Ice factor, gypsum factor	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Juice and jam factories, mineral	Juice and jam factories, mineral	The lecture is	Theoretical, practical and

		water and soft drinks factories	water and soft drinks factories	theory and practice	quarterly examination
(3)	2	Potable water desalination and sterilization plants with spiral membrane systems and reverse osmosis, liquefaction water projects	Potable water desalination and sterilization plants with spiral membrane systems and reverse osmosis	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Beauty centers	Beauty centers	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Cosmetics and detergent laboratories	Cosmetics and detergent laboratories	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Means of transport intended for transporting, preserving, displaying, selling and processing food materials	Means of transport intended for transporting, preserving, displaying, selling and processing food materials	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Public baths, swimming pools, public baths	Public baths, swimming pools	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Organizing the work of street vendors	Organizing the work of street vendors	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Health and environmental inspection of schools	Health and environmental inspection of schools	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Massacres	Massacres	The lecture is theory and practice	Theoretical, practical and quarterly examination

(11)	2	Entities supporting health oversight work	Entities supporting health oversight work	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Sanitary landfill sites	Sanitary landfill sites	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	HACCP system	HACCP system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Pull food models	Pull food models	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Work contexts	Work contexts	The lecture is theory and practice	Theoretical, practical and quarterly examination

29. Course Evaluation

Monthly theoretical exam 25
 Monthly practical exam 15+
 Final theoretical exam 35 +Final practical exam 25

30. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
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 Public Health Law) 4 -Food Regulation No. 29 of 1982
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

29 Course Name: Epidemiology1+2					
30 Course Code: EPI					
31 Semester / Year: First semester – second semester					
32 Description Preparation Date:19 /2/2024					
33 Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
34 Number of Credit Hours (Total) / Number of Units (Total)					
4 hours (2 theoretical + 2 practical)					
35 Course administrator's name (mention all, if more than one name)					
Name: Ibtisam Mohammed Hussein					
Email: inb.ebts@atu.edu.iq					
36 Course Objectives					
Course Objectives		<p>General Goals : The student will be able to understand the concept of epidemiology and its techniques</p> <p>He will be able to learn about how diseases occur and how infectious diseases are transmitted and controlled</p> <p>To learn how to analyze the occurrence of epidemics</p> <p>To identify the pathogens</p> <p>To learn about calculating the spread of diseases and calculating the different rates of diseases and deaths</p>			
37 Teaching and Learning Strategies					
Strategy		<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>			
38 Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Types of epidemiology, basics - objectives - general strategies ,	.Epidemiology	The lecture is theory	Theoretical, practical and quarterly examination

		factors that control the infection process		and practice	
(2)	2	General definitions used in the study of epidemiology, disease measures, risk factors in epidemiology	Terms used in epidemiology		
(3)	2	The epidemiological triad, its importance and applications disease Factors of-occurrence (personality, place, time)	epidemiological triad	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Transmissible and non -transmissible diseases and factors that control the infection process	Transmissible diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	of Methods prevention and control of communicable diseases	infectious diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	immunity General - herd immunity and the factors that determine immunity levels in the human body	Immunity	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	types -) Vaccines methods - giving them, preserving them, administering (them	Vaccines	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Epidemiological investigation and monitoring (objectives of epidemiological	Epidemiological monitoring	The lecture is theory and practice	Theoretical, practical and quarterly examination

		monitoring - basic steps for epidemiological (monitoring Types of epidemiological studies			
(9)	2	of Methods investigating epidemic diseases	Epidemiological investigation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Administrative division of health prevention departments in the Ministry of Health mechanism and the of work in the field of prevention news form Instant - for communicable diseases	Health prevention	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	German - Measles measles - mumps	- Measles German measles - mumps	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	polio - Tuberculosis	Tuberculosis - polio	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	- Diphtheria whooping cough - tetanus	- Diphtheria whooping cough - tetanus	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	hepatitis Viral	hepatitis Viral	The lecture is theory and practice	Theoretical, practical and quarterly examination

(15)	2	fever - Typhoid Malta fever	fever - Typhoid Malta fever	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	diseases that occurred in the their ,world consequences, and dealing with them	diseases Epidemic	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	(Regional plan)	Vaccination against communicable diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	of health Types prevention, environmental pollution, medical . waste	prevention Health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	poisoning Food (types and causes)	poisoning Food	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	meningitis Cerebral	Cerebral meningitis	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Cholera	Cholera	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	bags Water	Water bags	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Malaria	Malaria	The lecture is theory	Theoretical, practical and

				and practice	quarterly examination
(9)	2	Schistosomiasis	Schistosomiasis	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Pandemic influenza (types and causes)	Pandemic influenza	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Covid - 19 - (factors that led to emergence of the new viruses belonging to the (coronavirus family	-Covid ¹⁹ -	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Acquired immunodeficiency disease	Acquired immunodeficiency disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	fever Hemorrhagic	Hemorrhagic fever	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	pox Chicken	Chicken pox	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Rabies	rabies	The lecture is theory and practice	Theoretical, practical and quarterly examination
31.Course Evaluation					
Monthly theoretical exam 25 Monthly practical exam 15+ Final theoretical exam 35 +Final practical exam 25					
32.Learning and Teaching Resources					

Required textbooks (curricular books, if any)	Community Health Guide / Dr. Amjad Niazi 1986
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

39 Course Name: Pharmacology					
40 Course Code: PHA					
41 Semester / Year: First semester – second semester					
42 Description Preparation Date: 19 /2/2024					
43 Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
44 Number of Credit Hours (Total) / Number of Units (Total)					
4 hours (2 theoretical + 2 practical)					
45 Course administrator's name (mention all, if more than one name)					
Name: Ali Kareem Hameed					
Email: ali.rasheed.bib7@atu.edu.iq					
46 Course Objectives					
Course Objectives		General: the student must know 1- Basic science of pharmacology 2- The activity of drugs 3- Absorption and excretion of drug 4- Dose and dosage form 5- Toxicology, toxins, poisoning with metals Specific: 1- Routes of drug administration. 2- Effect of drug on the body. 3- Injection routes of drug administration. 4- Toxicity with drugs and metals			
47 Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
48 Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

(1)	2	Introduction and General definition of pharmacology (pharmacology, pharmacy, pharmacists, Dose, Concentration)	Introduction and General pharmacology	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2) (3) (4)	6	Infection: Antibacterial, Antiviral, antifungal, antiprotozoal, Anthelmintic drugs	Infection		
(5)	2	Nutrition: vitamins. parenteral nutrition, electrolyte, intravenous fluid	Nutrition	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Corticosteroid drugs	Corticosteroid drugs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Non-steroidal anti-inflammatory drugs	Non-steroidal anti-inflammatory drugs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8) (9)	4	Cardiovascular system drugs Digitalis and cardiac glycoside, Diuretics, Adrenoreceptors blocking	Cardiovascular system drugs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10) (11)	4	Gastrointestinal tract drugs. Antacid, Antispasmodic, Healing peptic and ulcer, Antidiarrheal, Laxative, rectal and colonic drug, intestinal section	Gastrointestinal tract drugs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12) (13)	4	Respiratory system Bronchodilator, corticosteroids. Allergic disorders, respiratory	Respiratory system	The lecture is theory and practice	Theoretical, practical and quarterly examination

		stimulant, mucolytic, anti-tussive and expectorant, nasal decongestant			
(14) (15)	4	Endocrine Drug use in diabetic, hypoglycemia, pituitary hormone, thyroid and thyroid drug. female sex hormone male sex hormone and anti-androgens, anabolic steroid, hyperglycemia drug, other endocrine hyper lipid Imia drugs	Endocrine	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	G U T Uterine stimulant, uterine relaxants, vulvar and vaginal disorder. contraceptics ut disorder	G U T	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2) (3)	4	Muscular skeletal disorder Chronic rheumatic disease, treatment of gut, myasthenia gravis, muscle relaxant, rubefacients. soft tissue inflammation	Muscular skeletal disorder	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4) (5)	4	Blood formation and coagulation Iron deficiency anemia, other type of anemia anticoagulant, antiplatelet, fibrin lytic and anti-fibrinolytic	Blood formation and coagulation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6) (7)	4	Skin Emollients, antipruritic, topical corticosteroid eczema psoriasis acne	Skin	The lecture is theory	Theoretical, practical and

		antibacterial disinfectant antifungal antiviral antiparasitic melanizing and demeaning		and practice	quarterly examination
(8)	2	E N T Drug acting on E NT including antibiotic and inflammatory	E N T	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	EYE Anti- infective preparations, anti- inflammatory. mydriatics,cycloplegics .Glaucoma other preparation	EYE	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10) (11)	2	Chemotherapy and immunosuppressant Alkylating, antimetabolites,enzyme , hormones . alter immunosuppressant	Chemotherapy	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12) (13)	2	Anesthesia General anesthesia, local, inhalation, parenthetic	Anesthesia	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14) (15)	2	C N S Hypnotic and anxiolytic antipsychotic, antidepressants, CNS stimulants ,anorectics. Analgesic (mild, moderate, sever pain, migraine, antiepileptic's, parkinsonism, drug use in chorea, tics, trigeminal neuralgia	C N S	The lecture is theory and practice	Theoretical, practical and quarterly examination

33.Course Evaluation

Monthly theoretical exam 25

Monthly practical exam 15+
Final theoretical exam 35 +Final practical exam 25+

34. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Mycek, M .J. ; Harvey R.A. and Champe , P.C. (1997).Lippencott's Illustrated Reviews: Pharmacology.(2nd ed.). Lippincott-Raven, Philadel phia New York . -Laurence, D.R. ; Bennett , P.N. and Brown, M.J.(1997).Clinical pharmacology. New York ; London : Churchill Livingstone.
Electronic References, Websites	

Course Description Form

49 Course Name: professional Ethics					
50 Course Code: PRE					
51 Semester / Year: second semester					
52 Description Preparation Date:19 /2/2024					
53 Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
54 Number of Credit Hours (Total) / Number of Units (Total)					
2 hours (2 theoretical)					
55 Course administrator's name (mention all, if more than one name)					
Name: Maysoon Kooshi Jasim					
Email: maysoon.Husain iba3@ .atu.edu.iq					
56 Course Objectives					
Course Objectives	General Goals : Identify the basic etiquette of professional behavior for workers in medical specialties. 2- Special Goals : Qualifying the graduate on professional behavior in dealing with his profession to achieve compatibility with his professional self (the patient, his companions, workers in the health field, and medical equipment).				
Teaching and Learning Strategies					
Strategy	1- Theoretical lecture method 2- Method of discussion and dialogue				
58 Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Professional conduct Its definition - its concept, its practical applications, the relationship between workers and their bosses -	Professional conduct Its definition - its concept	The lecture is theory	Monthly and quarterly exam

		the components of human behavior			
(2)	2	Principles of professional etiquette in the stages of civilizational developments Principles of - professional ethics in Arab and Islamic .civilization I practice dealing - with patients in hospitals from ancient times until now	Principles of professional etiquette in the stages of civilizational developments	The lecture is theory	Monthly and quarterly exam
(3)	2	Behavioral trends and tendencies, their classification, factors influencing them, and ways of developing them	Behavioral trends and tendencies,	The lecture is theory	Monthly and quarterly exam
(4)	2	He Values, customs and traditions Its definition, classification, factors affecting it, methods of its ,establishment	He Values, customs and traditions	The lecture is theory	Monthly and quarterly exam
(5)	2	Personality types, how to deal with them Definition of personality, its types, relationships, nature, motivations and interpretations	Personality types	The lecture is theory	Monthly and quarterly exam
(6)	2	Basic ethics of the health and medical profession	Basic ethics of the health and	The lecture is theory	Monthly and quarterly exam

		<p>Characteristics and characteristics of health workers, appearance, behavior and commitment</p> <p>Characteristics of - a successful medical associate</p> <p>Some undesirable - practices in the medical field</p>	<p>medical profession</p>		
(7)	2	<p>The legal and moral rights of the patient</p> <p>Legal and moral rights of workers in health and medical professions</p>	<p>The legal and moral rights of the patient</p>	<p>The lecture is theory</p>	<p>Monthly and quarterly exam</p>
(8)	2	<p>Behavioral dealing .with the patient</p> <p>Receiving and dealing with the patient and maintaining professional secrets</p> <p>Determine appointments for required .procedures</p> <p>Maintaining the - patient's needs</p>	<p>Behavioral dealing with the patient</p>	<p>The lecture is theory</p>	<p>Monthly and quarterly exam</p>
(9)	2	<p>Behavioral handling of medical devices and equipment</p> <p>Daily access to - devices, tools and solutions</p> <p>Requirements, - preparing them for daily work,</p>	<p>Behavioral handling of medical devices and equipment</p>	<p>The lecture is theory</p>	<p>Monthly and quarterly exam</p>

		sustaining them, maintaining them and preserving .them Preparing the - necessary medications to work and disposing of them .properly			
(10)	2	Conditions for the embodiment of .mental health Definition of the - factors affecting it The role of - mental health in .diseases	conditions for the embodiment of mental health	The lecture is theory	Monthly and quarterly exam
(11)	2	Professional compatibility and its relationship to work (its concept and conditions)	Professional compatibility	The lecture is theory	Monthly and quarterly exam
(12)	2	Occupational safety Preventing work - risks and .accidents Preventing the - risks of bacterial, toxic and radioactive contamination Preventing the - risk of infection from infectious and communicable .diseases Avoid wrong - practices in the .field of work	Occupational safety	The lecture is theory	Monthly and quarterly exam
(13)	2	The humanitarian, religious and democratic	The humanitarian,	The lecture is theory	Monthly and quarterly exam

		dimensions of the health and medical professions			
(14)	2	The role of the medical associate in reporting and spreading health culture among members of .society Factors of - effective communication between medical personnel and patients Conditions - necessary for the success of a medical member during his watch	The role of the medical associate in reporting and spreading health culture among members of society	The lecture is theory	Monthly and quarterly exam
(15)	2	- Applications in professional behavior	Applications in professional behavior	The lecture is theory	Monthly and quarterly exam

35.Course Evaluation

Monthly theoretical exam 40
Final theoretical exam 60

36. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Professional Behavior - Written by Dr. Adnan Shaker - Dr. Hana Ahmed Tawfiq - Dr. Abdullah Jassim
Main references (sources)	The Islamic Constitution for the Medical Profession - Kuwait Document - 1981 for the First World Conference - Islamic Medicine in Kuwait Forensic medicine and professional ethics - written by Dr. Dhia Al-Moussawi 1986 A handbook on the professional behavior of doctors A handbook on the professional behavior of doctors - issued by the Iraqi Medical Syndicate 1977
Recommended books and references (scientific journals, reports...)	Professional Behavior for Doctors - Written by Dr. Raji Abbas Al-Tikriti 1970
Electronic References, Websites	

Course Description Form

69 Course Name: Environment Health					
60 Course Code: EH					
61 Semester / Year: First semester –					
62 Description Preparation Date: 19 /2/2024					
63 Available Attendance Forms: Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
64 Number of Credit Hours (Total) / Number of Units (Total)					
4 hours (2 theoretical + 2 practical)					
65 Course administrator's name (mention all, if more than one name)					
Name: Haider farhan Abdullah					
Email: haider.abdullah.iba3@atu.edu.iq					
66 Course Objectives					
Course Objectives	<p>General: The student should be able to identify the most important environmental components and their sources of pollution, toxins, poisoning with metals</p> <p>Specific Learn about water, soil and air pollution in cities and how to treat pollutants</p> <p>Treatment of all industrial waste</p> <p>Ground and surface water treatment</p> <p>Identify global environmental problems and heat emission</p>				
67 Teaching and Learning Strategies					
Strategy	<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>				
68 Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Environmental health concept Objectives Types of environments	Environmental Health	The lecture is theory and practice	Theoretical, practical and quarterly examination

(2)	2	The concept and importance of environmental components Types of pollutants and bioremediation	Environment components Environmental pollutants	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3) (4)	4	Air pollution concept And risks that affect human health And risks affecting the environment	air pollution	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5) (6)	4	Natural resources Unnatural sources How to reduce the dangers of air pollution	air pollution	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	What does air pollution mean Causes that lead to water pollution How can water be treated	Water pollution	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8) (9)	4	Causes of water pollution The main sources of water pollution Diseases resulting from Water pollution and how to treat it	Water pollution	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Soil pollution concept Causes that lead to soil pollution Types of defects And treatment of soil pollution	Soil contamination	The lecture is theory and practice	Theoretical, practical and quarterly examination

(11)	2	Waste sources The impact of waste on the environment Waste treatment methods	Drainage of waste and waste	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	4	Sources of waste and waste The impact of waste on the environment Waste treatment	Drainage of waste and waste	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Wastewater concept Main sources of wastewater The impact of wastewater on the environment Processing effect	Sewage water treatment	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	The effect of foods on food Diseases caused by food to humans How Reducing its harms	Environment, food, foodborne diseases Food preservation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Types of insects and their impact on the environment Insect control methods What are rodents? How to control rodents	Insect and rodent control	The lecture is theory and practice	Theoretical, practical and quarterly examination

37. Course Evaluation

Monthly theoretical exam 25
 Monthly practical exam 15+
 Final theoretical exam 35 +Final practical exam 25+

38. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	