

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



Academic Program and Course Description Guide

2024-2025

Introduction:

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

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

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

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

Concepts and terminology:

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

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

Program Vision: 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: Community Health Technologies Department

Academic or Professional Program Name: Community Health Technologies

Final Certificate Name: Technical Diploma in Community Health

Academic System: Semester system

Description Preparation Date: 11/10/2024

File Completion Date: 30/11/2024

Signature: 

Head of Department Name:

Dr. Enas Abbas Khairallah

Date: 29/11/2025

Signature: 

Scientific Associate Name:

Assi. Prof. Dr. Oras Khudhayer Obayes

Date: 29/11/2025

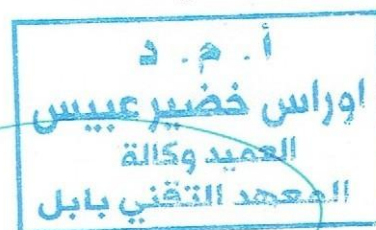
The file is checked by: Assi. Prof. Khansaa Azeez obayes

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 21/11/2025

Signature: 



Approval of the Dean

29/11/2025
Assi. Prof. Dr. Oras Khudhayer Obayes

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 the community in addition to education to create a healthy environment for the individual and the community. The graduates of the department serve all categories and segments of society by providing primary, secondary and tertiary health care and education against the causes of pathological and environmental health deterioration, inspection and control to detect the suitability of human-consumed materials and limit the development of pathological factors for health deterioration, care for people with special disabilities and chronic diseases and provide the necessary assistance to reach them to safety. All of this is achieved by using modern learning techniques that keep pace with scientific development, the solid practical aspect and efficient teaching experiences.

2. Program Mission

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

3. Program Objectives

- 1- Graduating an aware generation capable of managing and avoiding crises and understanding the health needs of its community.
- 2- Using advanced scientific methods in research, study and work in the health sectors, such as using GPS systems and Google Forms and exploiting social media to collect the necessary information to evaluate the health reality and avoid health crises before they occur, in addition to field investigation.
- 3- Paying special attention to the aspect of mental health, maternal and child health, and people with special needs.
- 4- Working on developing programs aimed at health control of human-consumed materials and raw materials used in the manufacture of medicines and human, animal, and plant foods.
- 5- Enhancing the spirit of cooperation and trust to work as field detection, education, awareness, and research teams to come up with the fruits of formulating the idea of finding solutions to the problems that plague Iraqi, Arab, and international society.
- 6-Assist the physician in diagnosing diagnosis and therapeutic nursing while implementing health programs.

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	2	4	2,81%	
College Requirements	5	10	7,04%	
Department Requirements	29	128	90,14%	
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	Non	Principles Community Health	2	3
The first stage	Non	Fundamentals of Nursing1	2	3
The first stage	Non	General Anatomy1 ¹	2	2
The first stage	Non	Physiology	2	3
The first stage	Non	Medical Microbiology1	2	3
The first stage	Non	Biostatic1	2	
The first stage	Non	Clinical Chemistry1	1	3
The first stage	Non	Computer and Artificial Intelligence	1	2
The first stage	Non	Human Rights & Democratic	2	
The first stage	Non	Arabic language	2	
First stage/second semester				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
The first stage	Non	Principles Community Health2	2	3
The first stage	Non	Fundamentals of Nursing2	2	3
The first stage	Non	General Anatomy2 ¹	2	2
The first stage	Non	Physiology2	2	3
The first stage	Non	Medical Microbiology2	2	3
The first stage	Non	Biostatic2	2	
The first stage	Non	Clinical Chemistry2	1	3
The first stage	Non	English Language	2	
Second stage/first semester				

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
The Second stage	Non	Community Health	2	3
The Second stage	Non	Health Inspection	2	4
The Second stage	Non	Medicine & Surgery	2	4
The Second stage	Non	Health &Occupational Safety	2	3
The Second stage	Non	Epidemiology	2	2
The Second stage	Non	Pharmacology	2	2
The Second stage	Non	Environmental Health	2	2
Second stage/second semester				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
The Second stage	Non	Community Health	2	3
The Second stage	Non	Health Inspection	2	4
The Second stage	Non	Medicine & Surgery	2	4
The Second stage	Non	Health &Occupational Safety	2	3
The Second stage	Non	Epidemiology	2	2
The Second stage	Non	Pharmacology	2	2
The Second stage	Non	Proposal		2
The Second stage	Non	Professional Ethics	2	
The Second stage	Non	Baath crimes	2	
The Second stage	Non	Computer and Artificial Intelligence	1	2
The Second stage	Non	Arabic language	2	

8. Expected learning outcomes of the program

Knowledge	
A- Cognitive objectives	A1- Enabling graduates to understand pathogenic organisms, types of diseases, their causes, diagnosis methods, and treatment methods.
	A2- Enabling graduates to understand primary health care programs, such as maternal care, child care, and maternal care. Enabling graduates to understand the components and parts of the body and how to care for them, as well as citizens' rights to health and a comfortable life.
	A3- Enabling graduates to understand data recording, storage, and handling, in addition to some basic Arabic and English grammar rules.

	A4– Enabling graduates to understand the health requirements for licensed shops and laboratories, as well as the health requirements for occupational safety, environmental health, and the special health requirements for maintaining it.
Skills	
Skills objectives of the programme	B1– Enabling graduates to operate and maintain laboratory equipment, as well as the machines used in diagnosis and treatment.
	B2– Enabling graduates to participate in health inspection and control teams, conduct laboratory investigations to ensure samples meet good health standards, and implement occupational health and safety requirements.
	B3– Enabling graduates to contribute to vaccination campaigns, participate in campaigns to monitor communicable, contagious, and infectious diseases, and record and store patient data.
	B4– Enabling graduates to assist physicians in diagnostic, therapeutic, and nursing procedures in hospitals and clinics.
Ethics	
Emotional and value goals.	A1– Enabling graduates to learn professional values and ethics.
	A2– Enabling graduates to analyze problems facing employees and develop appropriate solutions.
	A3– Enabling graduates to assist in treating patients and dispensing medication.
	A4– Evaluating proposed solutions, selecting the best ones, and enabling graduates to practice the English language

9. Teaching and Learning Strategies

1– Theoretical lecture method (the instructor explains the subject using a –\ screen to display the lecture in addition to some explanatory videos, drawings and pictures)

- 2- Practical lecture method (the instructor and the laboratory technical staff explain the method of conducting the examination and analysis and the method of using the devices through direct practical application in front of the students, and then the students directly carry out this with the instructor and the laboratory technical staff, while explaining the correct procedure for the work)
- 3- Discussion and Dialogue Method
- 4- Weekly Reports
- 5- Summer Training

10. Evaluation methods

- 1- Daily exam.
- 2- Monthly exam.
- 3- Semester exam.
- 4- Weekly, monthly, and semester research discussion.
- 5- Student daily attendance and interaction in the classroom.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
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	Chemistry	Organic chemistry			√	
Assistant lecturer	Biology	Microbiology			√	
Assistant lecturer	Biology	Physiology			√	

Professional Development

Mentoring new faculty members

New members of the department are developed through teaching methods courses, a teaching competency test, and training courses, seminars and workshops to train them on approved work contexts.

Professional development of faculty members

Faculty members are developed through training courses, seminars and workshops to train them in approved work contexts.

12. Acceptance Criterion

– According to the admission plan approved by the Ministry of Higher Education and Scientific Research and based on the annual average of science-based secondary school graduates, and based on the student's desire for admission.

2- Reliance on a medical examination, as the result of the examination must indicate fitness for study.

13. The most important sources of information about the program

- Textbooks.
- 2- Scientific research.
- 3- Books and brochures on community health.
- 4- The Internet.

14. Program Development Plan

1. Faculty members should continuously update their lectures.
2. Faculty members should participate in conferences, seminars, and courses.
3. Faculty members should publish their research in reputable international journals.
4. Curricula should be updated to suit the job market.

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		Community Health (1)	Basic	√	√					√				√	√
		Fundamentals of Nursing & first aids	Basic		√			√			√			√	
The first stage		Anatomy	Basic		√						√				
		Physiology	Basic	√				√			√			√	
The first stage		Microbiology	Basic	√				√						√	
		Biostatic	Basic							√					√
The first stage		Bio chemistry	Assistant		√			√					√		

		Computer Applications (1)	Assistant	√						√					√
The first stage		Human Rights & Democratic	General		√							√			
		Arabic	General			√						√			
The Second stage		Community Health	Basic	√	√					√				√	√
		Health Inspection	Basic				√		√					√	√
The Second stage		Medicine & Surgery	Basic	√	√			√			√				√
The Second stage		Health & Occupational Safety	Basic		√				√				√		
		Epidemiology	Basic		√				√				√		
The Second stage		Pharmacology	Assistant		√				√				√		
		Environment Health	Basic	√					√			√			
The Second stage		Proposal	Basic			√				√				√	

	PRE	Professional Ethics	Assistant			√				√				√	
The Second stage		Baath crimes	General			√				√				√	
	COM1	Computer Applications (1	Assistant			√				√				√	
The Second stage		Arabic	General			√				√		√			

- 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:					
Non					
3. Semester / Year:					
First semester – second semester					
4. Description Preparation Date:					
12/10/2024					
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):					
75 hours per semester (2 theoretical + 3 practical), total number of units (5).					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Inas Abbas Khairallah		Email: inas.Khairualla@atu.edu.iq			
Name: Suzan radhi Hussein		Email: suzan.hussain.iba103@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 2- Practical lecture method 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 health include - The goal of community health	Introduction to community health	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Vaccines - Immunity - Vaccines of all types and methods of administering them. Passive - Active vaccine - Types - Routine vaccine	Vaccines	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4) (5)	4	Maternal and child care services	motherhood and Childhood care	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Breastfeeding / its benefits for the mother and the child - artificial feeding -	Breastfeeding	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Diarrhea in children - its causes - types - how to avoid and prevent it.	Diarrhea in children	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Dehydration in children - its types, signs, and how to treat it	Dehydration in children	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	The importance of school health unit services within the primary health care center.	School health unit	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	Medical waste and how to deal with it	Medical waste	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	Pandemic influenza (Corona - bird flu)	Pandemic influenza	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(12)	2	Some transmissible diseases (tuberculosis, polio).	Some transmissible diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	- Some communicable diseases (diphtheria, whooping cough, tetanus).	Some communicable diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Vital statistics :- The general method of health research, information on births and deaths	Vital statistics	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Measures of health and disease: measures of births and deaths	Measures of health and disease	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

Second semester

(1)	2	The disease, its causes, and the factors affecting the occurrence of the disease, the epidemiological triad	The disease, its causes,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	Health education and its procedures	Health education	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Acute respiratory infections and their control.	Acute respiratory	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	The concept of school health and mental health - the emergence of school health services	School health and mental health	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(6)	2	Objectives and importance of school health: Development of school health systems	school health:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	School health strategies, services and duties	School health services and duties	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	School health components. - Conditions of the school environment. - The importance of the school's healthy relationship with the community	School health components.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Procedures followed in inspecting the school environment. - Drinking water) General conditions - Sample collection and analysis - Sanitary facilities	Inspection of the school environment	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	Prevention and control of communicable diseases. - Principles of prevention - Types of prevention	Prevention and control of communicable diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Some communicable diseases - mumps - measles - German measles: symptoms - prevention - treatment	Some communicable diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Some sexually transmitted diseases (AIDS - viral hepatitis type B - symptoms - prevention - treatment).	Some sexually transmitted diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(14)	2	Measures of health and disease - incidence rate of diseases Incidence - rate of spread of diseases	Measures of health and disease	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Health administration - introduction – objectives	Health administration	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	Principles of Community Health by Nazira Hussein
Main references (sources)	Non
Recommended books and references (scientific journals, reports...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:					
Fundamentals of nursing1+ Fundamentals of nursing2					
2- Course Code:					
Non					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
15 /10/2024					
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)					
75 hours per semester (2 theoretical + 3 practical), total number of units (5).					
7- Course administrator's name (mention all, if more than one name)					
Name: Ayad abbas Anied			Email: ayed.aned@atu.edu.iq		
8- Course Objectives					
Course Objectives		<p>General objectives: The student able to know the general information about Nursing .</p> <p>2- Specific objective : • History of Nursing , Nursing , Nurse , Hospital its department , health agency in Iraq . • Vital signs , Temperature , Respiration , Blood pressure & its methods. • Administration of Medication as general ,& storage of drugs . • Methods of giving O2, section the recreation from chest, Arterial respiration Mouth to Mouth. • Normal feeding & gastric Laval. • Physical examination & Laboratory test . • Pre-post-operative care. • First aid & Civil defiance. • Make practices in collection sample. • First aid in nursing procedures in case of fractures, wounds, bleeding , burns, poisoning, shock.</p>			
9- 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>			
10- Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

(1)	2	First aid in laboratories and Personal protective equipment, Fundamental of Nursing, definition (Nursing, Nurse, health, Hospital.	Fundamental of Nursing	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Position of patient, patient lifting and its risks	Position of patient,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11) (12)	4	Vital signs, Definition of Temperature, check Temperature, Type of check Temp-oral, axillia, Rectal	Vital signs,	Theoretical and practical lectures	Theoretical, practical, semester exam, attendance and reports

		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.		Discussion and dialogue method	
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Giving fluid & Blood by intravenous infusion, role of Nurse in giving intravenous infusion	Giving fluid & Blood by intravenous infusion, .	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
Second semester					
(1)	2	Role of Nurse in giving blood transfusion the goal of blood transfusion , important notes in blood infusion .	Role of Nurse in giving blood transfusion	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	Inhalation & oxygen, method of giving oxygen, goals, nursing observations during giving oxygen	Inhalation & oxygen	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Nasogastric feeding, nursing procedures and nursing care, gastric lavage, definition, goals, nursing care during gastric lavage.	Nasogastric feeding	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(4)	2	Urinary catheterization, definition, goals, nursing observations, enema, definition, goals, nursing observations.	Urinary catheterization,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Pre & post-operative nursing care in recovery room, complications after surgery (bleeding, wound contamination, embolus, constipation).	Pre & post-operative nursing care	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	First aid, goals, general principles in first aid	First aid	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	First aid of wounds, types of wounds (open, close) wounds contamination, signs and symptoms of wound infection treatment procedures	First aid of wounds	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	First aid in bleeding, definition, types of bleeding (arterial, venous, capillary) first aid of all types of bleeding, Epitasis, definition, first aid and nursing procedures	First aid in bleeding,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	First aid of shock, definition, types of shock (neurogenic, psychiatric, toxic, anaphylactic, cardiogenic).	First aid of shock	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	First aid in fractures, definition, types of fractures, signs and symptoms, complications, nursing care for patient treated by splint.	First aid in fractures,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(11)	2	First aid of burns, definition, types and degree of burns, complications	First aid of burns	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	First aid of poison and poisoning, definition, sign and symptoms, types of poisons, general principles in poisoning treatment of poisoning.	First aid of poison and poisoning	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	First aid of asphyxia, definition, signs and symptoms of asphyxia, drowning, definition, signs and symptoms of drowning, first aid for drowning person.	First aid of asphyxia,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	First aid of cardiac arrest and respiration failure, definition of artificial respiration, types (mouth to mouth, Schafer's method)	First aid of cardiac arrest	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Cardiac arrest, signs, cardiac massage and nursing procedures during cardiac massage	Cardiac arrest,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	-Salo Abbas - Principles of Nursing Foundations - Ministry of Health - Health Education Foundation – 1
Main references (sources)	Fuerst fundamental 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	Google scholar

Course Description Form

1- Course Name:					
General Anatomy1+ General Anatomy 2					
2- Course Code:					
Non					
3- Semester / Year					
: First semester – second semester					
4- Description Preparation Date:					
15/10/2024					
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)					
60 hours per semester (2 theoretical + 2 practical), total number of units (4).					
7- Course administrator's name (mention all, if more than one name)					
Name: Dr. Duaa Hadi Hassan			Email: Duaa.hadi.iba13@atu.edu.iq		
8- 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>a- He can correlate between the functions and the anatomy of each part of the body. b- He can assist the medical doctor in diagnosis and treatment in some way , primarily and simply as necessary</p>			
9- 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>			
10- 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 position ,median plane	Introduction and detention of anatomy	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	Surface anatomy , planes and vertical lines	Surface anatomy	Theoretical and practical lectures	Theoretical, practical, semester exam, attendance and reports

				Discussion and dialogue method	
(3)	2	Tissues and cells, types of cells which form different types of tissues, eg: Epithelial , connective ,muscular , nervous tissues etc	Tissues and cells	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Bones and joints :types of bone ,functions of bones ,parts of skeleton	Bones and joints	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Skeleton of upper limb :general anatomical appearance ,skeleton of shoulder girde :clavicle ,scapula humerus ,radius ,ulna ,skeleton of hand	Skeleton of upper limb	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Trunk skeleton :thorax , sternum , ribs	Trunk skeleton	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Skull : general appearance	Skull	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Cranium , lower jaw	Cranium	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(10)	2	Vertebral column: types of vertebra of each part	Vertebral column	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	Joint: definition, types	Joints	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Joints of upper and lower limb and trunk	Joints	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Muscular system: types of muscles, muscles of head and face, general information	Muscular system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

Second semester

(1)	2	Muscles of leg and foot	Muscles of leg and foot	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

			the abdomen , muscles of the back		
(3)	2	Nervous system: brain , cerebrum , cerebellum , brain stem	Nervous system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Spinal cord: verticals of brain	Spinal cord	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Peripheral nervous system : cranial nerves , :number and function	Peripheral nervous system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Spinal nerves	Spinal nerves	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Autonomic nervous system : parts and functions	Autonomic nervous system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Digestive system: mouth and accessories , pharynx esophagus , stomach	Digestive system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Cardio vascular system : blood vessel in general	Cardio vascular system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	Blood and heart	Blood and heart	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(11)	2	Veins and arteries: systemic circulation arteries thoracic aorta	Veins and arteries	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Abdominal aorta and its branches	Abdominal aorta and its branches	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Lymphatic system and respiratory system	Lymphatic system and respiratory system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	Non
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...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:					
Physiology1+ Physiology2					
2- Course Code:					
Non					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
5-					
18 /10/2024					
6- Available Attendance Forms:					
Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
7- Number of Credit Hours (Total) / Number of Units (Total)					
75 hours per semester (2 theoretical + 3 practical), total number of units (5).					
8- Course administrator's name (mention all, if more than one name)					
Name: Thanaa Abdulmahdi Mukheef Email: inb.thn@atu.edu.iq					
9- 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			
10- Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
11- 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 , Types , Structures of tissues) , Muscles	laboratory materials	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

		(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Leukocyte (Types – Shapes –number-functions)	Leukocyte	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Hemoglobin-functions –normal value- composition Platelets(number- functions) Coagulation of blood – anticoagulant	Platelets+ Hemoglobin	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Cardiovascular system –heart- structure of heart – function – cardiac valves cardiac cycle – heart sound	Cardiovascular system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Blood vessels (arteries –veins-capillary blood vessels) properties – blood cycle (pulmonary & systemic)	Blood vessels	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Blood pressure – normal value- factors effecting of blood pressure	Blood pressure	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	Respiratory system – structure –expiration – inspiration – respiratory muscles – respiratory rate.	Respiratory system.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(11)	2	Pulmonary volume – pulmonary ventilation – regulation of gas exchange in blood by respiration.	Pulmonary volume	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Urinary system – structure – functions	Urinary system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Functions of kidneys- composition of urine – cast and stone in urine normal	Functions of kidneys	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Ear and eye (structure and functions)	Ear and eye	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Skin (Define, Structures, Functions)	Skin	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
Second semester					
(1)	2	Digestive system and parts of it	Digestive system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	Stages of digestion (Oral, Stomach, Intestine). and digestives enzymes.	Stages of digestion	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Intestinal functions and absorption	Intestinal absorption	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(4)	2	Digestive system glands (salivary glands, pancreas-Liver) structure – Functions	Digestive system glands	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Gallbladder – structures and functions	Gallbladder	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Stool formation	Stool formation	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7) (8)	4	Nervous system – structure – functions Central nervous system – peripheral nervous system	Nervous system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	The brain and spinal cord	The brain and spinal cord	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10) (11)	4	Different area in brain which responsible for sense, movement, hearing, smell, taste, sight.	area in brain	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12) (13)	4	Endocrine glands (types and functions)	Endocrine glands	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14) (15)	4	Reproductive system (male and female) structure and functions	Reproductive system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
12- Course Evaluation					

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

13- Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
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...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:					
Medical Microbiology 1+Medical Microbiology 2					
2- Course Code					
Non					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
12 /10/2024					
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)					
75 hours per semester (2 theoretical + 3 practical), total number of units (5).					
7- Course administrator's name (mention all, if more than one name)					
Name: Prof.Dr. Saba Fadhil Ali Malaa			Email: sabafam6@atu.edu.iq		
8- Course Objectives					
Course Objectives		<p>General objectives : Student will be able to know a simple general idea about : Pathogenes (Bacteria, fungi, parasites and viruses), the immunity and disease prevention</p> <p>Special objectives : Student will be able to :</p> <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 			
9- 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>			
10–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 & the branches of microbiology. Biological hazards and how to deal with them, signs and	History of microbiology	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

		warning signs in laboratories, Disposal of waste from workshops and medical laboratories, Disposal of medical laboratory waste.			
(2)	2	Bacterial morphology ,bacterial cell structure.	Bacterial morphology	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Bacterial requirement, growth curve	Bacterial requirement	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Controle of microorganisms	Controle of microorganisms	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Pathogenes of respiratory system	Pathogenes of respiratory system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Pathogenes of digestive system.	Pathogenes of digestive system.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Pathogenes of urinary and sexual systems	Pathogenes of urinary and sexual systems	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Food poisoning.	Food poisoning.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Contamination of hospitals .	Contamination of hospitals .	Theoretical and practical lectures	Theoretical, practical, semester

				Discussion and dialogue method	exam, attendance and reports
(10)	2	General characters of fungi .	General characters of fungi .	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	Fungal diseases.	Fungal diseases.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	The viruses , shapes , sizes & some viral diseases	The viruses	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Introduction of parasites.	parasites.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Protozoa , Entamoeba histolytica	Protozoa	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Flagellates, Giardia . Trichomonase .	Flagellates	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
Second semester					
(1)	2	Blood flagellates, Leishmania.	Blood flagellates, Leishmania.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	Sporozoa, Plasmodium , Toxoplasma.	Sporozoa	Theoretical and practical lectures	Theoretical, practical, semester exam,

				Discussion and dialogue method	attendance and reports
(3)	2	Helimenthos , Taenia .	Helimenthos , Taenia .	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Echinococcus granulosus.	Echinococcus granulosus.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Hymenolipes nana	Hymenolipes nana	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Trematoda helminthes	Trematoda helminthes	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Trepanoma ,Schistosomes	Trepanoma ,Schistosomes	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Bacterial genetics	Bacterial genetics	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Immunity and immune system	Immunity	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	Antibody &antigen .	Antibody &antigen .	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(11)	2	Antibody &antigen reactions	Antibody &antigen reactions	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Hypersensitivity	Hypersensitivity	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Autoimmune diseases	Autoimmune diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Discussion of course material	Discussion of course material	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Discussion of course material	Discussion of course material	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

10- Course Evaluation

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

11- Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
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...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name					
Biostatic1 + Biostatic2					
2- Course Code:					
Non					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
18/10/2024					
5- Available Attendance Forms:					
Form of attendance: academic + on-site training (hospitals and health centers)					
6- Number of Credit Hours (Total) / Number of Units (Total)					
30 hours per semester (2 theoretical), total number of units (2).					
7- Course administrator's name (mention all, if more than one name)					
Name: Sanaa Kamel Abis Email: sanaa.al-mansoori.iba@atu.edu.iq					
8- 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.</p> <p>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. 			
9- Teaching and Learning Strategies					
Strategy		<p>1- Theoretical lecture method</p> <p>2- Method of discussion and dialogue</p>			
10–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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

(3) (4)	4	Representing frequency distributions "classified data" - graphical display methods (frequency histogram, frequency curve, frequency polygon)	Representing Frequency Distributions	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(5) (6) (7)	6	- Measures of central tendency - Arithmetic mean. - Mediator. - The loom.	Measures of Central Tendency	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(8)	2	Methods of selecting statistical samples, their meaning and reasons for choosing them.	Display Statistical Data	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(9) (10)	4	Preparing a questionnaire form for health and medical research.	Questionnaire	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(11)	2	Definition of health statistics and its sources.	Health Statistics	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(12) (13) (14)	6	Biostatistics: - The concept of ratio and rate - Death statistics - Birth statistics	Biostatistics	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(15)	2	Statistics of causes of death) medical certificate, obituary, death, death certificate	Statistics	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
Second semester					
(1) (2)	4	Scientific research (the purpose of the research and what are the ambitions for conducting it)	Scientific Research	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(3)	2	Ethics of scientific research	Research Ethics	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(4)	2	Structure of scientific research	Research Elements	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

(5)	2	Types of statistical studies	Types of studies	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(6) (7)	4	Research basics (statistical method) -Technology with data- Data collection plan – data analysis - Testing and ethical considerations	Research Basics	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(8) (9) (10)	6	Preparing the questionnaire form	Preparing the Form	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(11)	2	How to transcribe questionnaires and convert them into classified statistical data	Questionnaires and Turning them into Statistics.	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(12) (13)	4	How to start scientific research (choosing the title, objectives, type of samples)	How to do scientific research	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(14) (15)	4	Some applications used in scientific research.	Examples of Search Applications	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

10- Course Evaluation

Monthly theoretical exam 40

Final theoretical exam 60

11- 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	Google scholar

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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9- Teaching and Learning Strategies

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

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	1	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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	1	Introduction to analytical chemistry - methods of expressing solution concentrations - molar concentration - standard concentration - percent concentration - methods of dilution and preparation of laboratory	Introduction to analytical chemistry	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	1	-Hydrogen concentration (pH) - the importance of the hydrogen concentration in the human body - the hydrogen concentration of the blood - buffer solutions - their	-Hydrogen concentration (pH)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

		properties and methods of preparation			
(4)	1	Analytical methods used in clinical chemistry laboratories - qualitative analysis - quantitative analysis - types of quantitative analysis	Analytical methods used in clinical chemistry laboratories	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	1	Chromatography - Types of chromatography - Beer's law - BeerLambert's law – Stand	Chromatography	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	1	Definition of biochemistry - Definition of clinical chemistry - Body fluids and their importance in conducting clinical chemistry tests - Urine - Urine 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	Definition of biochemistry	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	1	Natural and unnatural components of urine - general urine analysis - clinical importance - urinary system stones and their types - and the reasons for their formation	Urine	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	1	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	Blood	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

		proteins - the purpose of precipitation of blood proteins when conducting some clinical chemistry tests - The most important blood protein precipitators used in clinical chemistry			
(9)	1	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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	1	Calcium - Metabolism - Function - Clinical Importance - Phosphorous - Metabolism - Function - Clinical Importance - Iron - Metabolism - Function - Clinical Importance	- types of electrolytes	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	1	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 threshold and urine glucose level	Carbohydrate	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	1	Diabetes mellitus - alternative energy - sources of its formation - ketone bodies - acidification of the blood	Diabetes mellitus	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(13)	1	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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	1	Fats - classification - lipid metabolism - lipids in blood plasma - fatty acids	Fats	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	1	Cholesterol - chemical formula - presence of cholesterol - cholesterol metabolism - cholesterol biosynthesis - function of cholesterol in the human body - clinical significance of cholesterol	Cholesterol	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
Second semester					
(1)	1	Triglycerides - types of triglycerides - their clinical significance	Triglycerides	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	1	Proteins - protein structure - amino acids - properties of amino acids - union of amino acids to form protein - peptide bond - Zwitter ion	Proteins	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	1	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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(4)	1	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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	1	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 - the clinical importance of urea	-protein compounds	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	1	Creatine - Creatine biosynthesis - Clinical significance of creatine - Creatinine - Creatinine biosynthesis - Clinical significance of creatinine - Creatinine clearance test	Creatine	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7) (8)	2	Liver function tests - liver - liver function - clinical signs of liver disease - bilirubin - biosynthesis and fate of bilirubin	Liver	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	1	Jaundice - types of jaundice - pigment excretion in different cases of jaundice - liver function tests importances	Jaundice	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	1	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 -	Enzymes	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

		Properties and function of each and its clinical importance			
(11)	1	Alkaline phosphatase and acid phosphatase - properties, functions and clinical significance of each	Types of Enzymes	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	1	Amylase and lipase - properties, functions and clinical significance of each	Amylase	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	1	Vitamins - their classification - Vitamins (A - B - C - D) their respective functions - and their sources	Vitamins	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	1	Hormones - nature of hormones - their functions - some important hormones and their functions and the gland producing each of them	Hormones	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	1	Introduction to PCR technique (Polymerase chain reaction) - definition - importance - uses	Introduction to PCR	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

10- Course Evaluation

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

11- Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	1- 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 4 (General Chemistry / Saiba Abdullah - Hanaa Salman - Maysoon Suleiman / Technical Education Authority

	<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>8Fundamental of clinical chemistry / Norbert Tietz)</p> <p>9Clinical chemical pathology / G.H. Gary)</p> <p>Basic Techniques for the medical laboratory / Jean Jorgenas</p>
Recommended books and references (scientific journals, reports...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:					
Computer Science and Artificial Intelligence					
2- Course Code:					
Non					
3- Semester / Year					
First semester					
4- Description Preparation Date:					
21 /10/2024					
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)					
45hours per semester (1 theoretical + 2 practical), total number of units (2).					
7- Course administrator's name (mention all, if more than one name)					
Name: Ali Samer			Email: ali.selim.iba105@atu.edu.iq		
8- Course Objectives					
Course Objectives		Students successfully completing this course will be able to: 1.Utilize the computer for fundamental tasks. 2.Identify and discuss tile hardware components of the computer system. 3.Creating documents using a word processor and creating presentations. 4.Conducting research on the Internet. 5.An introduction to Artificial Intelligence			
9- Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
10–Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	1	Introduction to Computer: Concepts of	Introduction to computers	Theoretical and	Theoretical, practical,

		Hardware and Software with their components; Concept of Computing, Data and Information; Connecting input/output devices, and peripherals to CPU. input/output devices, and peripherals to CPU.		practical lectures Discussion and dialogue method	semester exam, attendance and reports
(2)	1	Computer Components: Computer Portions, Hardware Parts, I/O Units, Memory Types.	computer Components:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	1	Computer Components (Cont.): Basic CPU Components, Computer Ports, Personal Computer, Personal Computer (Features and Types)	Computer Components (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	1	Operating System and Graphical User Interface GUI: Operating System; Basics of Common Operating Systems; The User Interface, Using "Mouse" Techniques.	Operating System and Graphical User Interface GUI	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	1	Operating System and Graphical User Interface GUI(Cont.): Use of Common Icons, Status Bar, Using Menu and Menu-selection, Concept of Folders and Directories, Opening and closing of different Windows; Creating Short cuts.	Operating System and Graphical User Interface GUI(Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	1	Word Processing Basics; Basic Features of Word Processors, Opening and Closing of documents, Text creation and Manipulation; Formatting Text and	Word Processing	Theoretical and practical lectures Discussion and	Theoretical, practical, semester exam, attendance and reports

		Paragraphs, Using Templates □ or Document Creation.		dialogue method	
(7)	1	Word Processing (Cont.): Creating and Managing Tables, Utilizing Styles and Themes, Spell Check and Grammar Tools, Using Headers and Footers.	Word Processing (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	1	Spread Sheet: Introduction to Spreadsheet Software, Creating and Formatting Worksheets. Sorting and Filtering Data, Using Formulas and Functions.	Spread Sheet:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	1	Spread Sheet (Cont.): Using Formulas and Functions, Using Pivot Tables for Data Analysis, Data Validation and Error Checking, Data r-tisualization: Creatingq Charts and Graphs.	Spread Sheet (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	1	Presentation Software: Introduction to Presentation Software, Overview of Popular Presentation Tools, creating a New Presentation, Using Templates and -hemes, Inserting and Formatting Text and Images, Transition and Animation Effects.	Presentation Software:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	1	Presentation Software (Cont.): Using Speaker Notes and Timers, , Advanced Features: Hyperlinks and Action Buttons, Troubleshooting Com-mon Presentation Issues, Future Trends in Presentation Technology.	Presentation Software (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(12)	1	Introduction to Internet and Web Browsers: Computer networks Basic; LAN, WAN; Concept of Internet and its Applications; connecting to internet.	Introduction to Internet and Web Browsers:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	1	Introduction to Internet and Web Browsers (Cont.): World Wide Web; Web Browsing software's, Search Engines; Understanding URL; Domain name; IP Address.	Introduction to Internet and Web Browsers (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	1	Communications and Emails: Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration.	Communications and Emails	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	1	introduction to Cloud Computing and Services: Definition of Cloud Computing and its concept, Cloud-Based Office Suites (Office 365 and Google Workspace), Google Docs, Google Sheets, Google Drive, Gooqle Meet.	introduction to Cloud Computing and Services	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

10- Course Evaluation

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

11- Learning and Teaching Resources

Required textbooks
(curricular books, if any)

Non

Main references (sources)

1. Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020)
2. Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete" ,16th Edition (2020).

	<p>3. Ahmed Banafa, "Introduction to Artificial Intelligence (AD", 1st Edition (2024).</p> <p>4. Al-Khader Ali Al-Khader, Researcher, "Computer Basics 2016".</p> <p>5. Dr. Adel Abdel Nour, Introduction to the World of Artificial Intelligence, 2005</p>
Recommended books and references (scientific journals, reports...)	https://www.noor-book.com/
Electronic References, Websites	https://www.noor-book.com

Course Description Form

1- Course Name:	
Human Rights & Democratic	
2- Course Code:	
Non	
3- Semester / Year:	
First semester	
4- Description Preparation Date:	
23 /10/2024	
5- Available Attendance Forms:	
From: academic	
6- Number of Credit Hours (Total) / Number of Units (Total)	
30 hours per semester (2 theoretical), total number of units (2).	
7- Course administrator's name (mention all, if more than one name)	
Name: Dr. Zaid Khader Jassim Email: zaid.bermany@atu.edu.iq	
8- Course Objectives	
Course Objectives	<ul style="list-style-type: none"> a) General objectives: - To be able, at the end of the academic year, to: b) 1/ The student learns about the principles and values of human rights, introduces them, and educates generations to respect and adhere to them. c) 2/ Learn about public freedoms and what these freedoms are in their details. d) Special objectives:- e) 1/ The student learns about continuous awareness of human rights and the fundamental freedoms associated with them. f) 2/ He fights anything that aims to ignore it, harm it, or harm its sanctity. g) 3/ Learn about the concept of democracy and its relationship to public freedoms
9- Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> 1- Theoretical lecture method 2- Method of discussion and dialogue

10–Course Structure

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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(2)	2	Human rights in divine laws, with a focus on human rights in Islam	Human rights in divine laws,	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(5)	2	The relationship between human rights and public freedoms: 1- In the Universal Declaration of Human Rights 0	The relationship between human rights and public freedoms	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(6)	2	Modern human rights: economic, social and cultural human rights and civil and political human rights 0 In regional charters -2 and national constitutions	Modern human rights: economic, social and cultural human rights and civil and political human rights	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(7)	2	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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

(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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(10)	2	Ve Democracy, definition and types	Democracy, definition and types	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(11)	2	Democracy in the world -	Democracy in - the world	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(12)	2	Joi The crime of genocide	The concept of annihilation	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(13)	2	The concept of freedoms, classification of public freedoms Fundamental freedoms, intellectual freedoms, economic and social freedoms	MThe concept of freedoms, classification of public freedoms Fundamental freedoms, intellectual freedoms, economic and social freedoms	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(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 -	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Definition of root , suffix, t meaning of suffixes like –scopy, -logist, etc.	The meaning of Suffix	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(2)	2	Knowing the meaning of th common prefix likepre- Pro-, post-	Commonly used prefix	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(3)	2	Give the students all the rul that help them to read the medical Terms.	Reading medical terms	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(4)	2	The students must know the process of pronunciation and the role of lungs, tongue, larynx	Pronunciation of medical terms	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(5)	2	Investigate the letters that have no sounds. We only write them down.	Silent letters	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(6)	2	Knowing the two pronunciations of the sound As in cell, organ	Soft and hard c	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(7)	2	The sound g has two pronunciations as in Biology, gastric	Soft and hard g	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(8)	2	Knowing the most common vocabulary that the nurse and the patient use them.	Vocabulary development	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(9)	2	The focus will be on the rules of grammar.	Focus on grammar	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(10)	2	Give the students the rules how to know the singular and the plural.	Singular and plural	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(11)	2	Match, fill the blank, test on vocabulary.	Exercise on vocabulary	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

(12)	2	There are 12 rules of plurality, each medical term has a special rule.	Rules of plurality	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(13)	2	Review, and answer all the exercise that is specific to the pronunciation.	Exercise on pronunciation	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(14)	2	Use all the rules of English to write the medical terms perfectly.	Writing the medical term	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(15)	2	Give the students the rules how to know the singular and the plural.	Singular and plural	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

11- Course Evaluation

Monthly practical exam 40
Final theoretical exam 60

12- Learning and Teaching Resources

Required textbooks (curricular books, if any)	English for medicine and health sciences by Shehdeh farah and inaaam hamada
Main references (sources)	Non
Recommended books and references (scientific journals, reports...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1-Course Name:
Arabic Language
2- Course Code:
Non
3- Semester / Year:
First semester
4- Description Preparation Date:
10/27/2024
5- Available Attendance Forms:
Form of attendance: academic
6- Number of Credit Hours (Total) / Number of Units (Total)
30 hours per semester (2 theoretical), total number of units (2).
7- Course administrator's name (mention all, if more than one name)
Name: Alaa Fleih Email: alaa.hasan.iba2@atu.edu.iq

8- Course Objectives

Course Objectives	<p>1- The student must avoid grammatical, spelling, and linguistic errors in writing and administrative correspondence.</p> <p>2- The student must be able to receive the correct ideas and correct meanings by controlling the language in which he communicates.</p> <p>3- The student must be able to convey the meaning he wants to convey to the recipient in a clear and understandable manner.</p> <p>4- Developing the student's literary taste so that he can understand the aesthetic aspects of speech styles, meanings, and images.</p> <p>5- Developing the student's ability and skills in dictation and writing</p> <p>6- Helping the student understand complex structures and ambiguous methods and enabling him to think accurately.</p> <p>7- Enabling the student to write the assigned research in correct language and free of linguistic errors</p>
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9- Teaching and Learning Strategies

Strategy	<p>1- Theoretical lecture method</p> <p>2- Method of discussion and dialogue</p>
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10- Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Introduction to linguistic errors Rules of the tied and long taa	Rules of the tied and long taa	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(2)	2	Rules for writing the extended and shortened alif., Solar and lunar letters	the extended and shortened alif.,	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(3)	2	Dad and Dhad	Dad and Dhad	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(4)	2	Writing the Hamza	Writing the Hamza	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(5)	2	Punctuation marks	Punctuation marks	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

(6)	2	Distinguishing between nouns and verbs	nouns and verbs	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(7)	2	Objects	Objects	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(8)	2	Rules for writing numbers	Numbers	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(9) (10)	4	Applications of common linguistic errors	Applications of common linguistic errors	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(11)	2	Noun and Tanween - - meanings of prepositions	Noun and Tanween	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(12)	2	Formal aspects of administrative discourse	Formal aspects of administrative discourse	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(13) (14)	4	The language of administrative discourse	Formal aspects of administrative discourse	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(15)	2	Examples of administrative correspondence	Examples of administrative correspondence	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

11- Course Evaluation

Monthly theoretical exam 40
Final theoretical exam 60

12- Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	Non
Recommended books and references (scientific journals, reports...)	General Arabic language For technical universities Numbers D. Safaa Kazem Makki D. Lama Muhammad Younis
Electronic References, Websites	Google scholar

		The epidemiological triad		practical lectures Discussion and dialogue method	exam, attendance and reports
(2) (3) (4)	6	Community health , Maternal and childhood care	Community health Maternal and childhood care	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Health education	Health education	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Nutrition ,Basic food components and their importance	Nutrition	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7) (8)	4	Environmental health and its goals	Environmental health and its goals	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9) (10)	4	Medical wastes ,its classification , method of handing , how to dispose of it waste its types and disposal	Medical wastes	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	The concept of disability and the physically and mentally disabled	The concept of disability	Theoretical and practical lectures	Theoretical, practical, semester exam,

				Discussion and dialogue method	attendance and reports
(12)	2	Rehabilitation and its type	Rehabilitation and its type	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Control of infection and transmissible diseases	Control of infection and transmissible diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Transmissible disease -	Transmissible disease	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Life Statistics , birth and death rate	Life Statistics , birth and death rate	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
Second semester					
(1) (2)	4	The concept of international health and its emergence	International Health The concept of international health - the emergence of international health	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Global policy of international health	Global policy of international health	Theoretical and practical lectures Discussion and	Theoretical, practical, semester exam, attendance and reports

				dialogue method	
(4)	2	Ethical issues in international health service delivery	Ethical issues in international health service delivery	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	International treaties and international health diplomacy	International treaties	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Global health policies (development, economics, security and human rights) Global health policies	Global health policies (development,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Global Health Plex (Development, Compensation, Security at Human Rights) Global Health Plex	Global health policies development	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Definition of infection disease and what are the factors of the epidemiological triad	Factors of the epidemiological Triad	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Methods of preventing infectious diseases	preventing infectious diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(10)	2	Methods of controlling infectious diseases	Method of controlling infectious diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	Vital statistics in determining the epidemiology of infectious diseases	Vital statistics	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	AIDS and hepatitis A and B	AIDS and hepatitis A and B	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Pandemic influenza (Corona, bird and swine flu)	Pandemic influenza	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Hemorrhagic fever	Ebola hemorrhagic disease	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Malaria	Malaria	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	Non
Main references (sources)	EducationalBag Prepared by M. Maytham Salem Atiyah
Recommended books and references (scientific journals, reports...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:					
Health Inspection					
2- Course Code:					
Non					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
12 /10/2024					
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)					
90 hours per semester (2 theoretical + 4 practical), total number of units (6).					
7- Course administrator's name (mention all, if more than one name)					
Name: Zainab Kareem Jawad			Email: inb.znb5@atu.edu.iq		
8- 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>			
9- 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>			
10- 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 requirements of the inspection process	The concept of health control, foundations, rules,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	The divisions and units of the Public Health Department, their duties, and the	Public health department units	Theoretical and practical lectures	Theoretical, practical, semester exam,

		fundamental procedures for following up on health conditions		Discussion and dialogue method	attendance and reports
(3)	2	Food system, extracts from the Public Health Law	Food system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Special conditions, including hotels, rest houses, public cafes, casinos, family parks, and shops selling coffee and tea.	Special conditions	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Ovens, bakeries and pastries, food and beverage preparation and serving shops	Ovens, bakeries and pastries	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Shops that prepare and sell service ice cream, and shops that sell individual home food supplies	Shops that prepare and sell ice cream services	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Stores selling meat, dairy, eggs, and animal products (wholesale). Stores selling red meat, poultry and their products	Stores selling meat, dairy and eggs	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Stores selling ready-made food and beverages, shops selling wholesale and individual river and marine fish, kiosks selling sherbet, juice and ready-made foods.	Stores selling ready-made food and beverages	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(10)	2	Barber and beauty salons, coffee grinding and selling shops, live chicken shops	Barber and beauty salons	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	The role of agility	The role of agility	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Food industry laboratory, food additives	Food industry laboratory, food additives	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Food safety (food fraud)	Food safety	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Food industry laboratory, food additives	Food industry laboratory, food additives	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Sweets factory, Al-Rashi production factory	Sweets factory	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
Second semester					
(1)	2	Ice factor, gypsum factor	Ice factor, gypsum factor	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	Juice and jam factories, mineral water and soft drinks factories	Juice and jam factories, mineral water and soft drinks factories	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Beauty centers	Beauty centers	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Cosmetics and detergent laboratories	Cosmetics and detergent laboratories	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Public baths, swimming pools, public baths	Public baths, swimming pools	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Organizing the work of street vendors	Organizing the work of street vendors	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Health and environmental inspection of schools	Health and environmental inspection of schools	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	Massacres	Massacres	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(11)	2	Entities supporting health oversight work	Entities supporting health oversight work	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Sanitary landfill sites	Sanitary landfill sites	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	HACCP system	HACCP system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Pull food models	Pull food models	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Work contexts	Work contexts	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	Non
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...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:					
Medicine & Surgical					
2- Course Code:					
Non					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
26 /10/2024					
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)					
90 hours per semester (2 theoretical + 4 practical), total number of units (6).					
7- Course administrator's name (mention all, if more than one name)					
Name: Naiel abbass kadiem			Email: drnaiel81@gmail.com		
8- Course Objectives					
Course Objectives		General Goals : ; The Student Will be able how treat simple cases Special ; 1- The Student Will be able to give blood & injection 2-The Student Will be able to dress Wound . 3-The Student Will be able to measure blood pressure , pulse ,Temperature			
9- Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
10- 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)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(2)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Whooping Cough , Mumps (M) + Meningeal injury (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Causes, clinical features, diagnosis, treatment, management and approach.	Typhoid (M) + face injury (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Measles, german Measles ,small pox (M) + surgical mouth (S), corona virus infections	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Infection of mouth and tongue (M) + surgical tongue (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gastritis and pepticulcer (M) + gum ulcer (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Jaundice (M) + tonsillitis (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Causes, clinical features, diagnosis,	Heart failure (M)) + esophagus ca. (S)	Theoretical and	Theoretical, practical, semester

		treatment, prevention of the disease.		practical lectures Discussion and dialogue method	exam, attendance and reports
(9) (10)	4	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Myocardial infarction MI angina (M)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Ca. stomach , ca. intestine (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hypertension (M) + appendicitis (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Congenital heart disease (M) + intestinal obstruction (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	14 Pneumonia (M) + liver abscess (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Asthma (M) + liver injury (S)	Theoretical and practical lectures	Theoretical, practical, semester exam,

				Discussion and dialogue method	attendance and reports
Second semester					
(1)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	1 Bronchitis (M) + cholecystitis (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Pleural effusion (M) + gall bladder stone (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Anemia (M) + spleen injury (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Leukemia (M) + pancreatitis (S) ,Hemorrhagic fever	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Lymphoma (M) + hernia (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hemophilia (M) + types of hernia (S)	Theoretical and practical lectures Discussion and	Theoretical, practical, semester exam, attendance and reports

				dialogue method	
(7)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Glomerulonephritis (M) + tracheal obstruction (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Nephrotic syndrome and renal failure (M) + lung ca. (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Rheumatoid arthritis (M) + fracture (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gout (M) + pyelonephritis (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gout (M) + pyelonephritis (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hyperpituitarism (M) + renal stones (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(13)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Thyroid gland disease (M) + bladder ca. (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Addison diseases (M) + blood transfusion (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Para Thyroid gland disease (M) + hemorrhoid (S)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	Surgical internal medicine binding_ Dr. Fawaz Al 1-Khalti
Main references (sources)	Non
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	Google scholar

Course Description Form

1- Course Name:					
Health and Occupational Safety					
2- Course Code:					
Non					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
24 /10/2024					
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)					
75 hours per semester (2 theoretical + 3 practical), total number of units (5).					
101.Course administrator's name (mention all, if more than one name)					
Name: Dr. Shahad saad mohammed Email: Shahad.mohammed.bib22@atu.edu.iq					
7- Course Objectives					
Course Objectives		<p>General objectives: - At the end of the academic year, the student will be able to identify the importance of occupational health and safety.</p> <p>Specific objectives: - The student will be able to:</p> <p>A - Identify the damages that workers in various establishments are exposed to.</p> <p>B - Be familiar with the occupational health and safety conditions that must be met to prevent accidents, work injuries and various occupational diseases.</p>			
8-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>			
9-Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Part One (Principles of Occupational Health and Safety) The concept of occupational health and safety and its objectives	The concept of occupational health and safety and its goals	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(2)	2	Occupational health and safety in Iraq	Occupational health	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Occupational health and safety and its relationship to productivity	Occupational health and safety	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Physical (natural) hazards	Physical (natural) hazards	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Noise and vibrations	Noise and vibrations	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Temperature, humidity and air velocity	Temperature, humidity and air velocity	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Lighting and radiation of all kinds	Lighting and radiation of all kinds	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8) + (9)	4	A - Atmospheric pressure b- Electricity	A - Atmospheric pressure b- Electricity	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10) + (11)	4	2-Chemical risks A - Gases B - Vapors C - Dust	Chemical risks	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Biological risks, infectious diseases	Biological risks,	Theoretical and practical lectures	Theoretical, practical, semester exam,

		and psychological factors		Discussion and dialogue method	attendance and reports
(13)	2	Mechanical risks	Mechanical risks	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	Chapter Three (Industrial Poisons) Introduction to Toxicology (Definition of poison - How it enters the body - Its reactions inside the body - Methods of excretion from the body)	(Industrial Poisons)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Heavy metal poisoning (lead, mercury, chromium)	Heavy metal poisoning	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
Second semester					
(1) + (2)	4	Insecticide poisoning Organic compound poisoning (organic solvents - hydrocarbons and their derivatives)	Insecticide poisoning	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3) + (4)	4	Chapter Four (Work Accidents and Injuries) Definition of accident and injury, their causes and types	(Work Accidents and Injuries)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5) + (6)	4	Handling and storage of materials Safety and security signs and markings	Handling and storage of materials	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Obstacles and the role of civil defense in establishments - Work injury statistics Chapter Five (General methods of prevention)	Obstacles and the role of civil defense in facilities	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

		of occupational hazards)			
(8)	2	1- Medical prevention methods A- Initial, periodic and special examinations and rehabilitation	- Medical prevention methods	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	B - First aid services at the workplace. C - Health and occupational services at the workplace (organization and duties)	First aid services at the workplace.	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	Engineering prevention methods A- Locks B- Replacement C- Isolation	Engineering prevention methods	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	D - Ventilation E - Monitoring the work environment) Detecting and measuring pollutants in the work environment and comparing them with the recommended limits to identify an occupational health basis	D - Ventilation E - Monitoring the work environment)	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	G - General personal hygiene	G - General personal hygiene	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	3-Personal protective equipment, its types, specifications and uses	Personal protective equipmen	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14) + (15)	4	Chapter Six Occupational Health and Safety Legislation 1- Decisions related to occupational health and safety 2- Laws	Occupational Health and Safety Legislation	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

		3-Regulations 4-Instructions			
10- Course Evaluation					
Monthly theoretical exam 25 Monthly practical exam 15+ Final theoretical exam 35 +Final practical exam 25					
11- Learning and Teaching Resources					
Required textbooks (curricular books, if any)		Non			
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...)		Non			
Electronic References, Websites		Google scholar			

Course Description Form

1- Course Name :					
: Epidemiology1					
2- Course Code					
Non					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
11 /10/2024					
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)					
60hours per semester (2 theoretical + 2 practical), total number of units (4).					
7- Course administrator's name (mention all, if more than one name)					
Name: Ibtisam Mohammed Hussein			Email: inb.ebts@atu.edu.iq		
8- 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>			
9- 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>			
10- Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Types of Epidemiology, Objectives-Basics- General Strategies Factors controlling the infection process	Types of Epidemiology,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(2)	2	General definitions used in epidemiology, disease measures, risk factor in epidemiology	General definitions used in epidemiology,	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Epidemiological Triad: Its Importance and Applications Factors of Disease - Occurrence (Personality-Place-Time)	triad epidemiological	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	Transmissible and non diseases -transmissible and factors that control the infection process	Transmissible diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Methods of prevention and control of Transmissible diseases	control of Transmissible diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6) + (7)	4	General immunity - herd immunity and factors that determine immunity levels in the human body (vaccines) their types - their preservation - their blue	Immunity and Vaccines	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8) + (9)	4	Epidemiological investigation and monitoring (objectives of epidemiological monitoring - basic steps of epidemiological monitoring) Types of - epidemiological studies - methods of	Epidemiological investigation and monitoring	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

		investigating epidemic diseases			
(10)	2	Administrative division of health prevention departments in the Ministry of Health and the mechanism of work in the field of prevention - Instant news model for Transmissible diseases	Health prevention	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	German - Measles measles - mumps	German - Measles measles – mumps	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	polio - Tuberculosis	Tuberculosis – polio	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	whooping - Diphtheria cough – tetanus	- Diphtheria whooping cough – tetanus	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	hepatitis Viral	hepatitis Viral	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	fever - Malta Typhoid fever	fever - Typhoid Malta fever	Theoretical and practical lectures	Theoretical, practical, semester exam,

				Discussion and dialogue method	attendance and reports
Second semester					
(1)	2	Epidemic diseases that occurred in the world, their results and how to deal with them	Epidemic diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	2	Vaccination against communicable diseases (regional plan)	against Vaccination communicable diseases	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	Types of health protection, environmental pollution, medical waste.	prevention Health	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	2	poisoning (types Food and causes)	poisoning Food	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Meningitis	Meningitis	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Cholera	Cholera	Theoretical and practical lectures Discussion and	Theoretical, practical, semester exam, attendance and reports

				dialogue method	
(7)	2	bags Water	Water bags	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	2	Malaria	Malaria	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	Schistosomiasis	Schistosomiasis	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10) + (11)	4	Pandemic Influenza (Types and Causes) - COVID-19 (Factors Leading to the Emergence of New Viruses Belonging to the Corona Family)	influenza - Pandemic -COVID-19	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	2	Acquired immunodeficiency disease	Acquired immunodeficiency disease	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	fever Hemorrhagic	Hemorrhagic fever	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(14)	2	pox Chicken	Chicken pox	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	2	Rabies	Rabies	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	Community Health Guide / Dr. Amjad Niazi 1986
Main references (sources)	Non
Recommended books and references (scientific journals, reports...)	Non
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:					
Environment Health					
2- Course Code:					
Non					
3- Semester / Year: -					
First semester					
4- Description Preparation Date:					
15 /10/2024					
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)					
60hours per semester (2 theoretical + 2 practical), total number of units (4).					
7- Course administrator's name (mention all, if more than one name)					
Name: Haider farhan Abdullah Email: haider.abdullah.iba3@atu.edu.iq					
8- Course Objectives					
Course Objectives		General: The student should be able to identify the most important environmental components and their sources of pollution, toxins, poisoning with metals Specific Learn about water, soil and air pollution in cities and how to treat pollutants Treatment of all industrial waste Ground and surface water treatment Identify global environmental problems and heat emission			
9- Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
10- 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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(2)	2	The concept and importance of environmental components Types of pollutants and bioremediation	Environment components Environmental pollutants	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3) (4)	4	Air pollution concept And risks that affect human health And risks affecting the environment	air pollution	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5) (6)	4	Natural resources Unnatural sources How to reduce the dangers of air pollution	air pollution	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	What does air pollution mean Causes that lead to water pollution How can water be treated	Water pollution	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	2	Soil pollution concept Causes that lead to soil pollution Types of defects And treatment of soil pollution	Soil contamination	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(11)	2	Waste sources The impact of waste on the environment	Drainage of waste and waste	Theoretical and	Theoretical, practical, semester

		Waste treatment methods		practical lectures Discussion and dialogue method	exam, attendance and reports
(12)	4	Sources of waste and waste The impact of waste on the environment Waste treatment	Drainage of waste and waste	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	2	Wastewater concept Main sources of wastewater The impact of wastewater on the environment Processing effect	Sewage water treatment	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	2	The effect of foods on food Diseases caused by food to humans How Reducing its harms	Environment, food, foodborne diseases Food preservation	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	Non
Main references (sources)	Non

Recommended books and references (scientific journals, reports...)	Scientific Journals, Periodicals, and Research Related to Environment and Health
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:					
Pharmacology					
2- Course Code:					
Non					
3- Semester / Year					
: First semester – second semester					
4- Description Preparation Date:					
19 /10/2024					
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)					
60hours per semester (2 theoretical + 2practical), total number of units (4).					
7- Course administrator's name (mention all, if more than one name)					
Name: Ali Kareem Hameed			Email: ali.rasheed.bib7@atu.edu.iq		
8- Course Objectives					
Course Objectives		<p>General: the student must know</p> <ol style="list-style-type: none"> 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 <p>Specific:</p> <ol style="list-style-type: none"> 1- Routes of drug administration. 2- Effect of drug on the body. 3- Injection routes of drug administration. 4- Toxicity with drugs and metals 			
9- 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 			
10- 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	Theoretical and practical lectures Discussion and	Theoretical, practical, semester exam, attendance and reports

				dialogue method	
(2) (3) (4)	6	Infection: Antibacterial, Antiviral, antifungal, antiprotozoal, antihelmenthic drugs	Infection	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(5)	2	Nutrition: vitamins. parenteral nutrition, electrolyte, intravenous fluid	Nutrition	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	2	Corticosteroid drugs	Corticosteroid drugs	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	2	Non-steroidal anti-inflammatory drugs	Non-steroidal anti-inflammatory drugs	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8) (9)	4	Cardiovascular system drugs Digitalis and cardiac glycoside, Diuretics, Badrenoreceptors blocking	Cardiovascular system drugs	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10) (11)	4	Gastrointestinal tract drugs. Antacid, Antispasmodic, Heeling peptic and ulcer, Antidiarrheal, Laxative, rectal and colonic drug, intestinal section	Gastrointestinal tract drugs	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

(12) (13)	4	Respiratory system Bronchodilator, corticosteroids. Allergic disorders, respiratory stimulant, mucolytic, anti- tussive and expectorant, nasal decongestant	Respiratory system	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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, otherandocrine hyper lipid Imia drugs	Endocrine	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
Second semester					
(1)	2	G U T Uterine stimulant, uterine relaxants, vulvar and viginal disorder. contraceptics ut disorder	G U T	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2) (3)	4	Muscular skeletal disorder Chronic rheumatic disease, treatment of gut, myasthenia gravis, muscle relaxant, rubefaciens. soft tissue inflammation	Muscular skeletal disorder	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6) (7)	4	Skin Emollients, antipruritic, topical corticosteroid eczema psoriasis acne antibacterial disinfectant antifungal antiviral	Skin	Theoretical and practical lectures Discussion and	Theoretical, practical, semester exam, attendance and reports

		antiparasitic melanzing and demeaning		dialogue method	
(8)	2	E N T Drug acting on E NT including antibiotic and inflammatory	E N T	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	2	EYE Anti- infective preparations, anti-inflammatory. mydriatics, cycloplegics .Glaucoma other preparation	EYE	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10) (11)	2	Chemotherapy and immunosuppressant Alkylating, antimetabolites, enzyme, hormones . alter immunosuppressant	Chemotherapy	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12) (13)	2	Anesthesia General anesthesia, local, inhalation, parenteric	Anesthesia	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(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	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports

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)	Non
Main references (sources)	Non
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	Google scholar

Course Description Form

1- Course Name:					
professional Ethics					
2- Course Code:					
Non					
3- Semester / Year:					
second semester					
4- Description Preparation Date:					
13 /10/2024					
5- Available Attendance Forms: Form of attendance:					
academic + on-site training (hospitals and health centers)					
6- Number of Credit Hours (Total) / Number of Units (Total)					
30 hours per semester (2 theoretical), total number of units (2).					
7- Course administrator's name (mention all, if more than one name)					
Name: Maysoon Kooshi Jasim Email: maysoon.Husain iba3@.atu.edu.iq					
8- 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).			
9- Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Method of discussion and dialogue			
10- 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 - the components of human behavior	Professional conduct Its definition - its concept	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(2)	2	Principles of professional etiquette in the stages of civilizational developments	Principles of professional etiquette in the stages of civilizational developments	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

		Principles of - professional ethics in Arab and Islamic .civilization I practice dealing - with patients in hospitals from ancient times until now			
(3)	2	Behavioral trends and tendencies, their classification, factors influencing them, and ways of developing them	Behavioral trends and tendencies,	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(4)	2	He Values, customs and traditions Its definition, classification, factors affecting it, methods of its establishment	He Values, customs and traditions	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(5)	2	Personality types, how to deal with them Definition of personality, its types, relationships, nature, motivations and interpretations	Personality types	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(6)	2	Basic ethics of the health and medical profession Characteristics and characteristics of health workers, appearance, behavior and commitment Characteristics of a - successful medical associate Some undesirable - practices in the medical field	Basic ethics of the health and medical profession	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(7)	2	The legal and moral rights of the patient Legal and moral rights of workers in health and medical professions	The legal and moral rights of the patient	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(8)	2	Behavioral dealing .with the patient Receiving and dealing with the patient and	Behavioral dealing with the patient	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

		<p>maintaining professional secrets</p> <p>Determine appointments for .required procedures</p> <p>Maintaining the - patient's needs</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, sustaining them, maintaining them and preserving .them</p> <p>Preparing the - necessary medications to work and disposing .of them properly</p>	Behavioral handling of medical devices and equipment	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(10)	2	<p>Conditions for the embodiment of mental .health</p> <p>Definition of the - factors affecting it</p> <p>The role of mental - .health in diseases</p>	conditions for the embodiment of mental health	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(11)	2	<p>Professional compatibility and its relationship to work (its concept and conditions)</p>	Professional compatibility	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(12)	2	<p>Occupational safety</p> <p>Preventing work - .risks and accidents</p> <p>Preventing the risks - of bacterial, toxic and radioactive contamination</p> <p>Preventing the risk - of infection from infectious and communicable .diseases</p> <p>Avoid wrong - practices in the field .of work</p>	Occupational safety	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

(13)	2	The humanitarian, religious and democratic dimensions of the health and medical professions	The humanitarian,	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(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	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(15)	2	- Applications in professional behavior	Applications in professional behavior	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

11- Course Evaluation

Monthly theoretical exam 40
Final theoretical exam 60

12- 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	Google scholar

Course Description Form

1- Course Name:					
The crimes of the Baath regime in Iraq					
2- Course Code:					
Non					
3- Semester / Year					
: second semester					
4- Description Preparation Date:					
15 /10/2024					
5- Available Attendance Forms: Form of attendance:					
academic					
6- Number of Credit Hours (Total) / Number of Units (Total)					
30 hours per semester (2 theoretical), total number of units (2).					
7- Course administrator's name (mention all, if more than one name)					
Name: Alaa Fleih			Email: alaa.hasan.iba2@atu.edu.iq		
8- Course Objectives					
Course Objectives		<ul style="list-style-type: none"> The student gets to know the concept of crime. Learn about the dictatorship of the former regime He learns the importance of his choice 			
9- Teaching and Learning Strategies					
Strategy		1- Theoretical lecture method 2- Method of discussion and dialogue			
10- Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Introduction to the concept of crimes	to the concept of crimes	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(2)	2	History of crime committed by the authority	Crime history	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(3)	2	Crime departments	Crime departments	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(4)	2	Crime departments	Crime departments	Theoretical exam, semester,	Theoretical exam, semester, reports and attendance

				reports and attendance	
(5)	2	Types of international crimes	International crimes	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(6)	2	Types of international crimes	International crimes	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(7)	2	Human rights in Roman civilization	Human rights in Roman civilization	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(8)	2	Decisions issued by the Supreme Court.	Decisions issued by the Supreme Court.	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(9)	2	Decisions issued by the Supreme Court.	Decisions issued by the Supreme Court.	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(10)	2	Decisions issued by the Supreme Court.	Decisions issued by the Supreme Court.	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(11)	2	Psychological crimes	Psychological crimes	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(12)	2	Mechanisms of psychological crimes	Mechanisms of psychological crimes	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(13)	2	Psychological effects of crimes	Psychological effects of crimes	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(14)	2	Baath crimes against religion	Baath crimes against religion	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(15)	2	Baath crimes against religion	Baath crimes against religion	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

11- Course Evaluation

Monthly theoretical exam 40

Final theoretical exam 60	
12- Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Non
Main references (sources)	Non
Recommended books and references (scientific journals, reports...)	Scientific journals, periodicals and research in the field of Baath crimes
Electronic References, Websites	Google scholar

Course Description Form

1- Course Name:
Computer Applications2
2- Course Code:
Non
3- Semester / Year
Second semester
4- Description Preparation Date:
21 /10/2024
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)
30 hours per semester (1 theoretical + 1 practical), total number of units (2).

7- Course administrator's name (mention all, if more than one name)					
Name: Ali Samer			Email: ali.selim.iba105@atu.edu.iq		
8- Course Objectives					
Course Objectives		<p>The student must be able</p> <ol style="list-style-type: none"> 1.Utilize the computer for fundamental tasks. 2.Identify and discuss tile hardware components of the computer system. 3.Creating documents using a word processor and creating presentations. 4.Conducting research on the Internet. 5. An introduction to Artificial Intelligence 			
9- Teaching and Learning Strategies					
Strategy		<ol style="list-style-type: none"> 1- Board (Normal or Smart) 2- Computers 3- Presentation software such as PowerPoint 			
10- Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	1	Security and Networking: What is a network? Types of networks. Basic network components.	security and Networking:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(2)	1	Security and Networking (Cont.): Network Security Basics. Understanding network threats	Security and Networking (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(3)	2	E-commerce: Concepts of Electronic banking services this include online banking: ATM and debit card services, Phone banking, SMS banking, electronic alert, Mobile banking	E-commerce:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(4)	1	Computer Troubleshooting: Identifying and solving	Computer Troubleshooting:	Theoretical and	Theoretical, practical, semester

		common hardware and software problems that computer users encounter.		practical lectures Discussion and dialogue method	exam, attendance and reports
(5)	1	Computer Troubleshooting (Cont.): Basic Troubleshooting techniques and tools for diagnosing and resolving issues.	Computer Troubleshooting (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(6)	1	Introduction to AI: Definition of AI, History of AI, AI Techniques and Approaches.	Introduction to AI:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(7)	1	Introduction to AI(Cont.): Key Characteristics of AI, Benefits of AI, Challenges and Ethical considerations.	Introduction to AI(Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(8)	1	The Role of AI in Modern Smartphones: AI-Driven Mobile Technologies, Virtual Assistants (Siri, Google Assistant, Alexa).	The Role of AI in Modern Smartphones	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(9)	1	The Role of AI in Modern Smartphones (Cont.): Adaptive Learning, Real-Time Translation Services.	The Role of AI in Modern Smartphones (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(10)	1	Applications and Tools of AI: Overview of AI Applications in Various Industries, Education and Healthcare.	Applications and Tools of AI:	Theoretical and practical lectures	Theoretical, practical, semester exam,

				Discussion and dialogue method	attendance and reports
(11)	1	Applications and Tools of AI (Cont.): Transportation, Marketing and Advertising.	Applications and Tools of AI (Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(12)	1	Applications and Tools of AI(Cont.): Finance, Robotics and Automation Technologies	Applications and Tools of AI(Cont.):	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(13)	1	AI and Society: How AI affects social, AI and international relations, AI and the future of humanity.	AI and Society	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(14)	1	Ethical Challenges in AI : AI ethics, privacy and surveillance, the impact of AI on the job market.	Ethical Challenges in AI :	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
(15)	1	The Future of AI: Future trends in AI, recent research and emerging technologies.	The Future of AI:	Theoretical and practical lectures Discussion and dialogue method	Theoretical, practical, semester exam, attendance and reports
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)	Non
Main references (sources)	<p>1. Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020)</p> <p>4. Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete" ,16th Edition (2020).</p> <p>5. Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", 1st Edition (2024).</p> <p>4. Al-Khader Ali Al-Khader, Researcher, "Computer Basics 2016".</p> <p>5. Dr. Adel Abdel Nour, Introduction to the World of Artificial Intelligence, 2005</p>
Recommended books and references (scientific journals, reports...)	https://www.noor-book.com/
Electronic References, Websites	https://www.noor-book.com

Course Description Form

1- Course Name:	Arabic Language
2- Course Code:	Non
3- Semester / Year:	Second semester
4- Description Preparation Date:	14/11/2024
5- Available Attendance Forms:	Form of attendance: academic
6- Number of Credit Hours (Total) / Number of Units (Total)	30 hours per semester (2 theoretical), total number of units (2).
7- Course administrator's name (mention all, if more than one name)	Name: Alaa Fleih Email: alaa.hasan.iba2@atu.edu.iq

8- Course Objectives

Course Objectives	<p>1- The student must avoid grammatical, spelling, and linguistic errors in writing and administrative correspondence.</p> <p>2- The student must be able to receive the correct ideas and correct meanings by controlling the language in which he communicates.</p> <p>3- The student must be able to convey the meaning he wants to convey to the recipient in a clear and understandable manner.</p> <p>4- Developing the student's literary taste so that he can understand the aesthetic aspects of speech styles, meanings, and images.</p> <p>5- Developing the student's ability and skills in dictation and writing</p> <p>6- Helping the student understand complex structures and ambiguous methods and enabling him to think accurately.</p> <p>7- Enabling the student to write the assigned research in correct language and free of linguistic errors</p>
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9- Teaching and Learning Strategies

Strategy	<p>1- Theoretical lecture method</p> <p>2- Method of discussion and dialogue</p>
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10- Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
(1)	2	Original diacritical marks (Dammah, Fatha, Kasrah) - Secondary diacritical marks (Hamza) - Waw, Alif, Ya	Original diacritical marks	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(2)	2	Nominal Sentence (Types of Subject, Types of Predicate)	Nominal sentence	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(3)	2	Inna and its sisters	An and its sisters	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(4)	2	The difference between 'An' and 'Inna	The difference between (that, that)	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(5)	2	The five verbs	The five verbs	Theoretical exam, semester,	Theoretical exam, semester, reports and attendance

				reports and attendance	
(6)	2	The verb 'Kana' and its sisters	Kan and her sisters	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(7)	2	Linguistic Errors	linguistic errors	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(8)	2	The Dual and Its Declension	Dual and its syntax	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(9) (10)	4	Quranic Expression (Grammatically in terms of sentence and text structure, Rhetorically in terms of artistic impact, Refer to the source: 'Quranic Expression' by Dr. Fadel Al-Samarrai)	Quranic expression	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(11)	2	The poet Badr Shakir al-Sayyab."	The poet Badr Shakir al-Sayyab	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(12)	2	Linguistic information (synonyms and antonyms, linguistic differences, grammatical equivalents)	Linguistic information	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(13) (14)	4	Types of Plurals (Regular Masculine Plural, Regular Feminine Plural, Broken Plural)	Types of plurals	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance
(15)	2	Grammar Engineering	Grammar Engineering	Theoretical exam, semester, reports and attendance	Theoretical exam, semester, reports and attendance

11- Course Evaluation

Monthly theoretical exam 40

Final theoretical exam 60

12- Learning and Teaching Resources

Required textbooks (curricular books, if any)

Non

Main references (sources)

Non

Recommended books and references (scientific journals, reports...)

General Arabic language
For technical universities
Numbers
D. Safaa Kazem Makki

	D. Lama Muhammad Younis
Electronic References, Websites	Google scholar