

**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: 21/1/2025

Signature: 



Approval of the Dean

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	COM	Principles Community Health	2	3
The first stage	FNF1	Fundamentals of Nursing1	2	3
The first stage	ANA1	General Anatomy1 <sup>1</sup>	2	2
The first stage	PHY1	Physiology	2	3
The first stage	MIC1	Medical Microbiology1	2	3
The first stage	BIOS1	Biostatic1	2	
The first stage	BIOC1	Clinical Chemistry1	1	3
The first stage	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	COM	Principles Community Health2	2	3
The first stage	FNF1	Fundamentals of Nursing2	2	3
The first stage	ANA1	General Anatomy2 <sup>1</sup>	2	2
The first stage	PHY1	Physiology2	2	3
The first stage	MIC1	Medical Microbiology2	2	3
The first stage	BIOS1	Biostatic2	2	
The first stage	BIOC1	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	CH2	Community Health	2	3
The Second stage	HIN	Health Inspection	2	4
The Second stage	MS	Medicine & Surgery	2	4
The Second stage	HOS	Health &Occupational Safety	2	3
The Second stage	EPI	Epidemiology	2	2
	PHA	Pharmacology	2	2
The Second stage	Non	Environmental Health	2	2
<b>Second stage/second semester</b>				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
The Second stage	CH2	Community Health	2	3
The Second stage	HIN	Health Inspection	2	4
The Second stage	MS	Medicine & Surgery	2	4
The Second stage	HOS	Health &Occupational Safety	2	3
The Second stage	EPI	Epidemiology	2	2
The Second stage	PHA	Pharmacology	2	2
The Second stage	PRO	Proposal		2
The Second stage	PRE	Professional Ethics	2	
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

<b>Knowledge</b>	
A- Cognitive objectives	A1- Assisting in laboratory investigation of the examined samples and their conformity with health conditions and assisting in health inspection and control teams.
	A2- He has an effective role in the field of occupational health and safety and implementing primary health care programmes.
	A3- Operating and caring for used medical devices and machines used in diagnosis and treatment.
<b>Skills</b>	
Skills objectives of the programme	B1 - Implementing medical programs such as periodic vaccinations and laboratory tests.

	B2– Skills in programs to control communicable diseases and assist the doctor in diagnosis and treatment.
	B3–Practical skill in operating and caring for laboratory equipment.
<b>Ethics</b>	
Emotional and value goals.	C1– Investigation and control of transmissible diseases
	C2– Implementing the schedule of periodic vaccinations for children and pregnant mothers
	C3– Assisting in treating patients and dispensing medicine to them

### 9. Teaching and Learning Strategies

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

### 10. Evaluation methods

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

### 11. Faculty

#### Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)	Number of the teaching staff	
	General	Special		Staff	Lecturer
Professor	Microbiology	Parasitology		1	
Assistant Professor	Plant production	Biocontrol		1	

Lecturer	Medical microbiology	Immunology and genetics of parasites			1	
Lecturer	Medicine	Clinical pharmacology and therapeutics			1	
Lecturer	Medical microbiology	Genetic virus immunity			1	
Lecturer	Biology	Environment and pollution			1	
Lecturer	Biology	Zoology / physiology			1	
Lecturer	Chemistry	clinical Chemistry			1	
Assistant lecturer (2)	Community health	Community health			2	
Assistant lecturer	Biology	Biology			2	
Assistant lecturer	Medical physiology	Medical physiology			1	
Assistant lecturer	Computer science	Information systems			1	
Assistant lecturer	Medical physiology	Cardio physiology			1	
Assistant lecturer	Chemistry	Organic chemistry			1	
Assistant lecturer	Biology	Microbiology			1	
Assistant lecturer	Biology	Physiology			1	

### **Professional Development**

#### **Mentoring new faculty members**

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

#### **Professional development of faculty members**

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

## 12. Acceptance Criterion

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

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

## 13. The most important sources of information about the program

1-Methodological books

2-Supporting sources

3-General sources

4- The Internet.

## 14. Program Development Plan

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

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
The first stage	COM	Community Health (1)	Basic		√			√				√			
	FNF1	Fundamentals of Nursing & first aids	Basic	√				√				√			
The first stage	ANA1	Anatomy	Basic	√				√				√			
	PHY1	Physiology	Basic			√			√			√			
The first stage	MIC1	Microbiology	Basic		√				√				√		
	BIO1	Biostatic	Basic		√			√					√		

The first stage	BIO1	Bio chemistry	Assistant		√				√				√		
	COM1	Computer Applications (1	Assistant		√			√						√	
The first stage	HRD1	Human Rights & Democratic	General			√					√			√	
		Arabic	General				√				√				√
The Second stage	CH2	Community Health	Basic		√			√				√			
	HIN	Health Inspection	Basic		√				√				√		
The Second stage	MS	Medicine & Surgery	Basic	√				√				√			
The Second stage	HOS	Health & Occupational Safety	Basic		√				√				√		
	EPI	Epidemiology	Basic		√				√				√		
The Second stage	PHA	Pharmacology	Assistant		√				√				√		

		Environment Health	Basic	√					√			√			
The Second stage	PRO	Proposal	Basic			√				√				√	
	PRE	Professional Ethics	Assistant			√				√				√	
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

<b>1. Course Name:</b>					
Principles of community health + community health					
<b>2. Course Code:</b>					
COM1					
<b>3. Semester / Year:</b>					
First semester – second semester					
<b>4. Description Preparation Date:</b>					
12/10/2024					
<b>5. Available Attendance Forms:</b>					
Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
<b>6. Number of Credit Hours (Total) / Number of Units (Total):</b>					
75 hours per semester (2 theoretical + 3 practical), total number of units (5).					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: Dr. Inas Abbas Khairallah		Email: <a href="mailto:inas.Khairualla@atu.edu.iq">inas.Khairualla@atu.edu.iq</a>			
Name: Suzan radhi Hussein		Email: <a href="mailto:suzan.hussain.iba103@atu.edu.iq">suzan.hussain.iba103@atu.edu.iq</a>			
<b>8. Course Objectives</b>					
<b>Course Objectives</b>		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.			
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		1- Theoretical lecture method 2- Practical lecture method 3-Method of discussion and dialogue			
<b>10. Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	2	Definition of community health – What does community health include - The goal of community health	Introduction to community health	The lecture is theory and practice	Theoretical, practical and quarterly examination

(2)	2	Primary health care - Primary health care programs - Objectives and strategies Disease, its causes, factors affecting the disease (causative, host, environment)	Primary health care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Vaccines - Immunity - Vaccines of all types and methods of administering them. Passive - Active vaccine - Types - Routine vaccine	Vaccines	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4) (5)	4	Maternal and child care services	motherhood and Childhood care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Breastfeeding / its benefits for the mother and the child - artificial feeding -	Breastfeeding	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Diarrhea in children - its causes - types - how to avoid and prevent it.	Diarrhea in children	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Dehydration in children - its types, signs, and how to treat it	Dehydration in children	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	The importance of school health unit services within the primary health care center.	School health unit	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Medical waste and how to deal with it	Medical waste	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Pandemic influenza (Corona - bird flu)	Pandemic influenza	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Some transmissible diseases (tuberculosis, polio).	Some transmissible diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	- Some communicable diseases (diphtheria,	Some communicable	The lecture is theory and practice	Theoretical, practical and

		whooping cough, tetanus).	able diseases		quarterly examination
(14)	2	Vital statistics -: - The general method of health research, information on births and deaths	Vital statistics	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Measures of health and disease: measures of births and deaths	Measures of health and disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
<b>Second semester</b>					
(1)	2	The disease, its causes, and the factors affecting the occurrence of the disease, the epidemiological triad	The disease, its causes,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Health education and its procedures	Health education	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Acute respiratory infections and their control.	Acute respiratory	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Nutrition and food - the basic elements of food and how they affect the structure, growth and development of the child - diseases of malnutrition	Nutrition and food	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	The concept of school health and mental health - the emergence of school health services	School health and mental health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Objectives and importance of school health: Development of school health systems	school health:	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	School health strategies, services and duties	School health services and duties	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	School health components. - Conditions of the	School health	The lecture is theory and practice	Theoretical, practical and

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

## 11. Course Evaluation

Monthly theoretical exam 25

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

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	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:					
FNF					
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: <a href="mailto:ayed.aned@atu.edu.iq">ayed.aned@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>		<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 &amp; its methods. • Administration of Medication as general ,&amp; storage of drugs . • Methods of giving O2, section the recreation from chest, Arterial respiration Mouth to Mouth. • Normal feeding &amp; gastric Laval. • Physical examination &amp; Laboratory test . • Pre-post-operative care. • First aid &amp; 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					
<b>Strategy</b>		<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>			
10- Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>

(1)	2	First aid in laboratories and Personal protective equipment, Fundamental of Nursing, definition (Nursing, Nurse, health, Hospital.	Fundamental of Nursing	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2) (3)	4	Administration & discharge of patient from hospital, pt.chart , oral report, written of report , Nursing process.(Assessing , planning , Implementation , Evaluation	Administration & discharge of patient from hospital	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4) (5)	4	Physical examination, prepare the pt. to exam, role of Nurse in physical examination, collection of samples, prepare the equipment	Physical examination, prepare the pt	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Position of patient, patient lifting and its risks	Position of patient,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	4	Basic Needs of Pt. care of Pt. unit, bed making, personal hygiene patient bath, mouth and tooth care. Bed sores, care of sores, causes & prevention of bed sores.	Basic Needs of Pt	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9) (10)	4	Method of sterilization, surgical sterilization, Medical sterilization, kind of disinfectant Dressing the wound, kind of sterilize of surgical equipment	Method of sterilization Method of sterilization	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11) (12)	4	Vital signs, Definition of Temperature, check Temperature, Type of check Temp-oral, axillia, Rectal definition of fever, causes, signs, &	Vital signs,	The lecture is theory and practice	Theoretical, practical and quarterly examination

		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.			
(13) (14)	4	Drug administration, define of drug Type of administration of medication, and Injection, {I.M, I.V., S.c, I.D,} cold & hot. Compress, nose eyes & ears drops	Drug administration	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Giving fluid & Blood by intravenous infusion, role of Nurse in giving intravenous infusion	Giving fluid & Blood by intravenous infusion, .	The lecture is theory and practice	Theoretical, practical and quarterly examination
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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Inhalation & oxygen, method of giving oxygen, goals, nursing observations during giving oxygen	Inhalation & oxygen	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Nasogastric feeding, nursing procedures and nursing care, gastric lavage, definition, goals, nursing care during gastric lavage.	Nasogastric feeding	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Urinary catheterization, definition, goals, nursing observations, enema, definition,	Urinary catheterization,	The lecture is theory and practice	Theoretical, practical and quarterly examination

		goals, nursing observations.			
(5)	2	Pre & post-operative nursing care in recovery room, complications after surgery (bleeding, wound contamination, embolus, constipation).	Pre & post-operative nursing care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	First aid, goals, general principles in first aid	First aid	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	First aid of shock, definition, types of shock (neurogenic, psychiatric, toxic, anaphylactic, cardiogenic).	First aid of shock	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	First aid of burns, definition, types and degree of burns, complications	First aid of burns	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	First aid of poison and poisoning, definition, sign and symptoms, types of poisons,	First aid of poison and poisoning	The lecture is theory and practice	Theoretical, practical and quarterly examination

		general principles in poisoning treatment of poisoning.			
(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,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Cardiac arrest, signs, cardiac massage and nursing procedures during cardiac massage	Cardiac arrest,	The lecture is theory and practice	Theoretical, practical and quarterly examination

### 11- Course Evaluation

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

### 12- Learning and Teaching Resources

Required textbooks (curricular books, if any)	-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

<b>1- Course Name:</b>					
General Anatomy1+ General Anatomy 2					
<b>2- Course Code:</b>					
ANA					
<b>3- Semester / Year</b>					
: First semester – second semester					
<b>4- Description Preparation Date:</b>					
15/10/2024					
<b>5- Available Attendance Forms:</b>					
Form of attendance: academic + practical application + on-site training (hospitals and health centers)					
<b>6- Number of Credit Hours (Total) / Number of Units (Total)</b>					
60 hours per semester (2 theoretical + 2 practical), total number of units (4).					
<b>7- Course administrator's name (mention all, if more than one name)</b>					
Name: Dr. Duaa Hadi Hassan			Email: <a href="mailto:Duaa.hadi.iba13@atu.edu.iq">Duaa.hadi.iba13@atu.edu.iq</a>		
<b>8- Course Objectives</b>					
<b>Course Objectives</b>		<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>			
<b>9- Teaching and Learning Strategies</b>					
<b>Strategy</b>		<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>			
<b>10- Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	2	Introduction and detention of anatomy , surface anatomy of the body , anatomical position ,median plane	Introduction and detention of anatomy	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Surface anatomy , planes and vertical lines	Surface anatomy	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Tissues and cells, types of cells which	Tissues and cells	The lecture is theory and practice	Theoretical, practical and

		form different types of tissues, eg: Epithelial , connective ,muscular , nervous tissues etc			quarterly examination
(4)	2	Bones and joints :types of bone ,functions of bones ,parts of skeleton	Bones and joints	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Skeleton of upper limb :general anatomical appearance ,skeleton of shoulder girdle :clavicle ,scapula humerus ,radius ,ulna ,skeleton of hand	Skeleton of upper limb	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Skeleton of lower limb :general anatomical appearance, skeleton of pelvis :hip bone,: ilium ,pubic, ischium , femur : leg ;:tibia ,fibula .skeleton of foot	Skeleton of lower limb	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Trunk skeleton :thorax , sternum , ribs	Trunk skeleton	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Skull : general appearance	Skull	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Cranium , lower jaw	Cranium	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Vertebral column: types of vertebra of each part	Vertebral column	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Joint: definition, types	Joints	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Joints of upper and lower limb and trunk	Joints	The lecture is theory and practice	Theoretical, practical and quarterly examination

(13)	2	Muscular system: types of muscles, muscles of head and face, general information	Muscular system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Muscles of upper limb: limb vertebral muscles, limb thoracic muscles, muscles of the shoulder, muscles of upper arm, muscles of hand	Muscles of upper limb	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Muscles of the lower limb: muscles of the iliac region, muscles of the gluteal region, muscles of thigh	Muscles of the lower limb	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Muscles of leg and foot	Muscles of leg and foot	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Muscles of the trunk , muscles of thorax (superficial and deep), muscles of the abdomen , muscles of the back	Muscles of the trunk , muscles of thorax (superficial and deep), muscles of the abdomen , muscles of the back	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Nervous system: brain , cerebrum , cerebellum , brain stem	Nervous system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Spinal cord: verticals of brain	Spinal cord	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Peripheral nervous system : cranial nerves , :number and function	Peripheral nervous system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Spinal nerves	Spinal nerves	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Autonomic nervous system : parts and functions	Autonomic nervous system	The lecture is theory and practice	Theoretical, practical and quarterly examination

(8)	2	Digestive system: mouth and accessories , pharynx esophagus , stomach	Digestive system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Cardio vascular system : blood vessel in general	Cardio vascular system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Blood and heart	Blood and heart	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Veins and arteries: systemic circulation arteries thoracic aorta	Veins and arteries	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Abdominal aorta and its branches	Abdominal aorta and its branches	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Veins of the systemic circulation, veins of lower limb, veins of abdomen	Veins of the systemic circulation, veins of lower limb, veins of abdomen	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Veins of head and neck, applied points, veins and arteries, pulmonary circulation	Veins of head and neck, applied points, veins and arteries, pulmonary circulation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Lymphatic system and respiratory system	Lymphatic system and respiratory system	The lecture is theory and practice	Theoretical, practical and quarterly examination

### 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:					
PHY					
3- Semester / Year:					
First semester – second semester					
4- Description Preparation Date:					
18 /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: Thanaa Abdulmahdi Mukheef                      Email: <a href="mailto:inb.thn@atu.edu.iq">inb.thn@atu.edu.iq</a>					
8- Course Objectives					
<b>Course Objectives</b>		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			
9- Teaching and Learning Strategies					
<b>Strategy</b>		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
10- Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(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 (Define , Types , Structures of muscles)	laboratory materials	The lecture is theory and practice	Theoretical, practical and quarterly examination

(3) (4)	4	Blood –Functions – properties composition –blood plasma –blood serum- Erythrocyte (properties –shapes- number –functions) production and degradation of blood cells	Blood –Functions – properties composition	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Leukocyte (Types – Shapes –number-functions)	Leukocyte	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Hemoglobin-functions –normal value- composition Platelets(number- functions) Coagulation of blood – anticoagulant	Platelets+ Hemoglobin	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Cardiovascular system –heart- structure of heart – function – cardiac valves&cardiac cycle – heart sound	Cardiovascular system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Blood vessels (arteries –veins-capillary blood vessels) properties – blood cycle (pulmonary &systemic)	Blood vessels	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Blood pressure – normal value- factors effecting of blood pressure	Blood pressure	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Respiratory system – structure –expiration – inspiration – respiratory muscles – respiratory rate.	Respiratory system.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Pulmonary volume – pulmonary ventilation – regulation of gas exchange in blood by respiration.	Pulmonary volume	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Urinary system – structure – functions	Urinary system	The lecture is theory and practice	Theoretical, practical and quarterly examination

(13)	2	Functions of kidneys- composition of urine – cast and stone in urine normal	Functions of kidneys	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Ear and eye (structure and functions)	Ear and eye	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Skin (Define, Structures, Functions)	Skin	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Digestive system and parts of it	Digestive system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Stages of digestion (Oral, Stomach, Intestine). and digestives enzymes.	Stages of digestion	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Intestinal functions and absorption	Intestinal absorption	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Digestive system glands (salivary glands, pancreas- Liver) structure – Functions	Digestive system glands	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Gallbladder – structures and functions	Gallbladder	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Stool formation	Stool formation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	4	Nervous system – structure – functions Central nervous system –peripheral nervous system	Nervous system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	The brain and spinal cord	The brain and spinal cord	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10) (11)	4	Different area in brain which responsible for sense, movement,	area in brain	The lecture is theory and practice	Theoretical, practical and quarterly examination

		hearing, smell, taste, sight.			
(12) (13)	4	Endocrine glands (types and functions)	Endocrine glands	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14) (15)	4	Reproductive system (male and female) structure and functions	Reproductive system	The lecture is theory and practice	Theoretical, practical and quarterly examination

### 11- Course Evaluation

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

### 12- Learning and Teaching Resources

Required textbooks (curricular books, if any)	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					
: BIO					
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: <a href="mailto:sabafam6@atu.edu.iq">sabafam6@atu.edu.iq</a>					
8- Course Objectives					
<b>Course Objectives</b>		<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"> <li>• To diagnose some simple cases in his field work, instead of specialest, when specielest is absent.</li> <li>• Do some tests in the labs.</li> <li>• Collect, preserve and transport the pathgenic samples.</li> <li>• Give an advice for disease prevention and control</li> </ul>			
9- Teaching and Learning Strategies					
<b>Strategy</b>		<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	The lecture is theory and practice	Theoretical, practical and quarterly examination

		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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Bacterial requirement, growth curve	Bacterial requirement	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Controle of microorganisms	Controle of microorganisms	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Pathogenes of respiratory system	Pathogenes of respiratory system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Pathogenes of digestive system.	Pathogenes of digestive system.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Pathogenes of urinary and sexual systems	Pathogenes of urinary and sexual systems	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Food poisoning.	Food poisoning.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Contamination of hospitals .	Contamination of hospitals .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	General characters of fungi .	General characters of fungi .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Fungal diseases.	Fungal diseases.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	The viruses , shapes , sizes & some viral diseases	The viruses	The lecture is theory and practice	Theoretical, practical and quarterly examination

(13)	2	Introduction of parasites.	parasites.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Protozoa , Entamoeba histolytica	Protozoa	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Flagellates, Giardia . Trichomonase .	Flagellates	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Blood flagellates, Leishmania.	Blood flagellates, Leishmania.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Sporozoa, Plasmodium , Toxoplasma.	Sporozoa	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Helimenthes , Taenia .	Helimenthes , Taenia .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Echinococcus granulosis.	Echinococcus granulosis.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Hymenolipes nana	Hymenolipes nana	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Trematoda helminthes	Trematoda helminthes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Trepanoma ,Schistosomes	Trepanoma ,Schistosomes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Bacterial genetics	Bacterial genetics	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Immunty and immune system	Immunty	The lecture is theory and practice	Theoretical, practical and quarterly examination

(10)	2	Antibody &antigen .	Antibody &antigen .	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Antibody &antigen reactions	Antibody &antigen reactions	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Hypersensitivity	Hypersensitivity	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Autoimmune diseases	Autoimmune diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Discussion of course material	Discussion of course material	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Discussion of course material	Discussion of course material	The lecture is theory and practice	Theoretical, practical and quarterly examination

#### 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:					
BIOS					
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: <a href="mailto:sanaa.al-mansoori.iba@atu.edu.iq">sanaa.al-mansoori.iba@atu.edu.iq</a>					
8- Course Objectives					
<b>Course Objectives</b>		<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"> <li>-Dealing with statistical data.</li> <li>-Dealing with and knowing life and health statistics.</li> <li>-Organizing the statistical form and the health form related to daily incidents such as births, deaths, and diseases.</li> </ul>			
9- Teaching and Learning Strategies					
<b>Strategy</b>		<p>1- Theoretical lecture method</p> <p>2- Method of discussion and dialogue</p>			
10–Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1) (2)	4	Introduction to statistics and its types, samples, variables, classified and unclassified data.	Definition of Statistics	The lecture is theory	Monthly and quarterly exam
(3) (4)	4	Representing frequency distributions	Representing Frequency Distributions	The lecture is theory	Monthly and quarterly exam

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

		Testing and ethical considerations			
(8) (9) (10)	6	Preparing the questionnaire form	Preparing the Form	The lecture is theory	Monthly and quarterly exam
(11)	2	How to transcribe questionnaires and convert them into classified statistical data	Questionnaires and Turning them into Statistics.	The lecture is theory	Monthly and quarterly exam
(12) (13)	4	How to start scientific research (choosing the title, objectives, type of samples)	How to do scientific research	The lecture is theory	Monthly and quarterly exam
(14) (15)	4	Some applications used in scientific research.	Examples of Search Applications	The lecture is theory	Monthly and quarterly exam

#### 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

## Course Description Form

1- Course Name:	
Clinical Chemistry 1 + Clinical Chemistry 2	
2- Course Code:	
BIOC	
3- Semester / Year:	
First semester – second semester	
4- Description Preparation Date:	
20 /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 (1 theoretical + 3 practical), total number of units (4).	
7- Course administrator's name (mention all, if more than one name)	
Name: Najlaa Jawad hasani                      Email: <a href="mailto:njlaajawad66.iba@atu.edu.iq">njlaajawad66.iba@atu.edu.iq</a>	
8- Course Objectives	
<b>Course Objectives</b>	<p>Objectives of the article: general aims:</p> <ol style="list-style-type: none"> <li>1 (The student knows what clinical chemistry is, its principles and its importance in the field of medicine.</li> <li>2 (It measures the chemical components in the human body in the laboratory.</li> </ol> <p>Special goals: That the student will be able to:</p> <ol style="list-style-type: none"> <li>1 (Knows clinical chemistry.</li> <li>2 (He knows the chemical compounds present in the human body and the sources of them formation in the body.</li> <li>3 (Knows the normal ratios of chemical compounds in the blood.</li> <li>4 (Recognize the variables that can occur to these compounds in abnormal cases.</li> <li>5 (It uses the levels of these compounds in the blood serum to measure the efficiency of the Functional performance of some body organs such as the liver and kidneys.</li> <li>6 (Diagnoses various diseases in terms of changes that occur at the levels of these Compounds in blood and other body fluids.</li> <li>7 (Know the different laboratory methods that are used in clinical chemistry laboratories.</li> <li>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.</li> </ol>
9- Teaching and Learning Strategies	
<b>Strategy</b>	<ol style="list-style-type: none"> <li>1- Theoretical lecture method</li> <li>2- Practical lecture method</li> <li>3- Method of discussion and dialogue</li> </ol>

## 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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	1	-Hydrogen concentration (pH) - the importance of the hydrogen concentration in the human body - the hydrogen concentration of the blood - buffer solutions - their properties and methods of preparation	-Hydrogen concentration (pH)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	1	Analytical methods used in clinical chemistry laboratories - qualitative analysis - quantitative analysis - types of quantitative analysis	Analytical methods used in clinical chemistry laboratories	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	1	Chromatography - Types of chromatography -	Chromatography	The lecture is theory and practice	Theoretical, practical and

		Beer's law - Beer Lambert's law – Stand			quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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 proteins - the purpose of precipitation of blood proteins when conducting some clinical chemistry tests - The most important blood protein precipitators used in clinical chemistry	Blood	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	1	Electrolytes - the importance of electrolytes in the	Electrolytes	The lecture is theory and practice	Theoretical, practical and

		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			quarterly examination
(10)	1	Calcium - Metabolism - Function - Clinical Importance - Phosphorous - Metabolism - Function - Clinical Importance - Iron - Metabolism - Function - Clinical Importance	- types of electrolytes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	1	Diabetes mellitus - alternative energy - sources of its formation - ketone bodies - acidification of the blood	Diabetes mellitus	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	1	Fats - classification - lipid metabolism - lipids	Fats	The lecture is theory and practice	Theoretical, practical and

		in blood plasma - fatty acids			quarterly examination
(15)	1	Cholesterol - chemical formula - presence of cholesterol - cholesterol metabolism - cholesterol biosynthesis - function of cholesterol in the human body - clinical significance of cholesterol	Cholesterol	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	1	Triglycerides - types of triglycerides - their clinical significance	Triglycerides	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	1	Proteins - protein structure - amino acids - properties of amino acids - union of amino acids to form protein - peptide bond - Zwitter ion	Proteins	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	1	Non-protein nitrogen compounds - their types in the human body - uric acid - the biosynthesis of uric acid - the clinical importance	-protein compounds	The lecture is theory and practice	Theoretical, practical and quarterly examination

		of uric acid - urea - the biosynthesis of urea - the clinical importance of urea			
(6)	1	Creatine - Creatine biosynthesis - Clinical significance of creatine - Creatinine - Creatinine biosynthesis - Clinical significance of creatinine - Creatinine clearance test	Creatine	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	2	Liver function tests - liver - liver function - clinical signs of liver disease - bilirubin - biosynthesis and fate of bilirubin	Liver	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	1	Jaundice - types of jaundice - pigment excretion in different cases of jaundice - liver function tests importances	Jaundice	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	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 - Properties and function of each and its clinical importance	Enzymes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	1	Alkaline phosphatase and acid gosgatase - properties, functions and clinical significance of each	Types of Enzymes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	1	Amylase and lipase - properties, functions and clinical significance of each	Amylase	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	1	Vitamins - their classification - Vitamins (A - B - C - D) their respective functions - and their sources	Vitamins	The lecture is theory and practice	Theoretical, practical and quarterly examination

(14)	1	Hormones - nature of hormones - their functions - some important hormones and their functions and the gland producing each of them	Hormones	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	1	Introduction to PCR technique (Polymerase chain reaction) - definition - importance – uses	Introduction to PCR	The lecture is theory and practice	Theoretical, practical and quarterly examination

### 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 5 (Quality control for pharmacy students / Sayed Muhammad Abu Zaid / Technical Education Authority 6 (Laboratory and pharmaceutical equipment / Sayed Muhammad Abu Zaid / Technical Education Authority 7 (Analytical Chemistry / Dr. Sajida Abdel Hamid / Technical Education Authority 24 8Fundamental of clinical chemistry / Norbert Tietz) 9Clinical chemical pathology / G.H. Gary) Basic Techniques for the medical laboratory / Jean Jorgenas
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: <a href="mailto:ali.selim.iba105@atu.edu.iq">ali.selim.iba105@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>		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					
<b>Strategy</b>		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 Hardware and Software with their components; Concept of Computing, Data and Information; Connecting input/output devices, and peripherals to CPU. input/output evices, and eri herals to CPU.	Introduction to computers	The lecture is theory and practice	Theoretical, practical and quarterly examination

(2)	1	Computer Components: Computer Portions, Hardware Parts, I/O Units, Memory Types.	computer Components:	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	1	Computer Components (Cont.): Basic CPU Components, Computer Ports, Personal Computer, Personal Computer (Features and Types)	Computer Components (Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	1	Word Processing Basics; Basic Features of Word Processors, Opening and Closing of documents, Text creation and Manipulation; Formatting Text and Paragraphs, Using Templates □ or Document Creation.	Word Processing	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	1	Spread Sheet: Introduction to Spreadsheet Software,	Spread Sheet:	The lecture is theory and practice	Theoretical, practical and

		Creating and Formatting Worksheets. Sorting and Filtering Data, Using Formulas and Functions.			quarterly examination
(9)	1	Spread Sheet (Cont.): Using Formulas and Functions, Using Pivot Tables for Data Analysis, Data Validation and Error Checking, Data r-tisualization: Creating Charts and Graphs.	Spread Sheet (Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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:	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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:	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	1	Introduction to Internet and Web Browsers (Cont.): World Wide Web; Web Browsing software's, Search Engines; Understanding	Introduction to Internet and Web Browsers (Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination

		URL; Domain name; IP Address.			
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination

#### 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)	<ol style="list-style-type: none"> <li>1. Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020)</li> <li>2. Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete" ,16th Edition (2020).</li> <li>3. Ahmed Banafa, "Introduction to Artificial Intelligence (AD", 1st Edition (2024).</li> <li>4. Al-Khader Ali Al-Khader, Researcher, "Computer Basics 2016".</li> <li>5. Dr. Adel Abdel Nour, Introduction to the World of Artificial Intelligence, 2005</li> </ol>
Recommended books and references (scientific journals, reports...)	<a href="https://www.noor-book.com/">https://www.noor-book.com/</a>
Electronic References, Websites	<a href="https://www.noor-book.com">https://www.noor-book.com</a>

## 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: <a href="mailto:zaid.bermany@atu.edu.iq">zaid.bermany@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>	<ul style="list-style-type: none"> <li>a) General objectives: - To be able, at the end of the academic year, to:</li> <li>b) 1/ The student learns about the principles and values of human rights, introduces them, and educates generations to respect and adhere to them.</li> <li>c) 2/ Learn about public freedoms and what these freedoms are in their details.</li> <li>d) Special objectives:-</li> <li>e) 1/ The student learns about continuous awareness of human rights and the fundamental freedoms associated with them.</li> <li>f) 2/ He fights anything that aims to ignore it, harm it, or harm its sanctity.</li> <li>g) 3/ Learn about the concept of democracy and its relationship to public freedoms</li> </ul>				
9- Teaching and Learning Strategies					
<b>Strategy</b>	1- Theoretical lecture method 2- Method of discussion and dialogue				
10-Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	2	Human rights - their definition - their goals	Human rights - their definition - their goals	The lecture is theory	Monthly and quarterly exam

		Human rights in ancient civilizations, especially the Mesopotamian civilization			
(2)	2	Su Human rights in divine laws, with a focus on human rights in Islam	S Human rights in divine laws,	The lecture is theory	Monthly and quarterly exam
(3)	2	Non-governmental organizations and human rights (International Committee of the Red Cross - Amnesty International - Human Rights Watch - Arab Human Rights Organizations)	Non-governmental organizations and human rights	The lecture is theory	Monthly and quarterly exam
(4)	2	Human rights in the Iraqi constitutions between theory and reality. The Iraqi constitution	Buman rights in the Iraqi constitutions between theory and reality	The lecture is theory	Monthly and quarterly exam
(5)	2	The relationship between human rights and public freedoms: 1- In the Universal Declaration of Human Rights 0	The relationship between human rights and public freedoms	The lecture is theory	Monthly and quarterly exam
(6)	2	S 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	The lecture is theory	Monthly and quarterly exam
(7)	2	T Guarantees of respect and protection of human rights at the national and .international levels The role of non- – governmental organizations in respecting and protecting human rights	Guarantees of respect and protection of human rights at the national and international levels	The lecture is theory	Monthly and quarterly exam
(8)	2	For freedoms: the origin of rights and freedoms - the project's position on declared rights and freedoms - the use of the term freedoms	General theory of freedoms	The lecture is theory	Monthly and quarterly exam
(9)	2	Equality: The historical development of the concept of equality	quality: The historical development of	The lecture is theory	Monthly and quarterly exam

		The modern development of the idea of equality Gender equality 0 - Equality between individuals according to their beliefs and race 0	the concept of equality The modern development of the idea of equality		
(10)	2	Ve Democracy, definition and types	Democracy, definition and types	The lecture is theory	Monthly and quarterly exam
(11)	2	Democracy in the world -	Democracy in - the world	The lecture is theory	Monthly and quarterly exam
(12)	2	Joi The crime of genocide	The concept of annihilation	The lecture is theory	Monthly and quarterly exam
(13)	2	The concept of freedoms, classification of public freedoms Fundamental freedoms, intellectual freedoms, economic and social freedoms	MThe concept of freedoms, classification of public freedoms Fundamental freedoms, intellectual freedoms, economic and social freedoms	The lecture is theory	Monthly and quarterly exam
(14)	2	Freedom of security and feeling of reassurance - freedom to come and go	Freedom of security and feeling of reassurance - freedom to come and go	The lecture is theory	Monthly and quarterly exam
(15)	2	Freedom of education - - Freedom of the press - Freedom of assembly - Freedom of women	Freedom of - education - Freedom of the press - Freedom of assembly - Freedom of women	The lecture is theory	Monthly and quarterly exam

#### 10- Course Evaluation

Monthly theoretical exam 40

Final theoretical exam 60

#### 11- 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 Human Rights
Electronic References, Websites	Google scholar

## Course Description Form

<b>1-Course Name:</b>					
English Language					
<b>2- Course Code:</b>					
Non					
<b>3- Semester / Year:</b>					
First semester					
<b>4- Description Preparation Date:</b>					
23/10 /2024					
<b>5- Available Attendance Forms:</b>					
Form of attendance: academic					
<b>6- Number of Credit Hours (Total) / Number of Units (Total)</b>					
30 hours per semester (2 theoretical), total number of units (2).					
<b>7- Course administrator's name (mention all, if more than one name)</b>					
Name: : Inas Haider Kadhim			Email: <a href="mailto:inas.kadhim.iba@atu.edu.iq">inas.kadhim.iba@atu.edu.iq</a>		
<b>8- Course Objectives</b>					
<b>Course Objectives</b>	1-Defines prefix, suffix, root. 2. Understands the roles and functions of the grammar. 3.Measures the understanding by making oral tests. 4. Apply the rules of reading and writing the medical terms. 5. Performs the plurality of medical terms and its rules.				
<b>9- Teaching and Learning Strategies</b>					
<b>Strategy</b>	1- Theoretical lecture method 2- Method of discussion and dialogue				
<b>10- Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	2	Definition of root , suffix, t meaning of suffixes like –scopy, -logist, etc.	The meaning of Suffix	The lecture is theory	Monthly and quarterly exam
(2)	2	Knowing the meaning of th common prefix likepre- Pro-, post-	Commonly used prefix	The lecture is theory	Monthly and quarterly exam
(3)	2	Give the students all the rul that help them to read the medical Terms.	Reading medical terms	The lecture is theory	Monthly and quarterly exam
(4)	2	The students must know the process of	Pronunciation of medical terms	The lecture is theory	Monthly and quarterly exam

		pronunciation and the role of lungs, tongue, larynx			
(5)	2	Investigate the letters that have no sounds. We only write them down.	Silent letters	The lecture is theory	Monthly and quarterly exam
(6)	2	Knowing the two pronunciations of the sound As in cell, organ	Soft and hard c	The lecture is theory	Monthly and quarterly exam
(7)	2	The sound g has two pronunciations as in Biology, gastric	Soft and hard g	The lecture is theory	Monthly and quarterly exam
(8)	2	Knowing the most common vocabulary that the nurse and the patient use them.	Vocabulary development	The lecture is theory	Monthly and quarterly exam
(9)	2	The focus will be on the rules of grammar.	Focus on grammar	The lecture is theory	Monthly and quarterly exam
(10)	2	Give the students the rules how to know the singular and the plural.	Singular and plural		
(11)	2	Match, fill the blank, test on vocabulary.	Exercise on vocabulary	The lecture is theory	Monthly and quarterly exam
(12)	2	There are 12 rules of plurality, each medical term has a special rule.	Rules of plurality	The lecture is theory	Monthly and quarterly exam
(13)	2	Review, and answer all the exercise that is specific to the pronunciation.	Exercise on pronunciation	The lecture is theory	Monthly and quarterly exam
(14)	2	Use all the rules of English to write the medical terms perfectly.	Writing the medical term	The lecture is theory	Monthly and quarterly exam
(15)	2	Give the students the rules how to know the singular and the plural.	Singular and plural	The lecture is theory	Monthly and quarterly exam

### 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

<b>1-Course Name:</b>					
Arabic Language					
<b>2- Course Code:</b>					
Non					
<b>3- Semester / Year:</b>					
First semester					
<b>4- Description Preparation Date:</b>					
10/27/2024					
<b>5- Available Attendance Forms:</b>					
Form of attendance: academic					
<b>6- Number of Credit Hours (Total) / Number of Units (Total)</b>					
30 hours per semester (2 theoretical), total number of units (2).					
<b>7- Course administrator's name (mention all, if more than one name)</b>					
Name: Alaa Fleih                      Email: <a href="mailto:alaa.hasan.iba2@atu.edu.iq">alaa.hasan.iba2@atu.edu.iq</a>					
<b>8- Course Objectives</b>					
<b>Course Objectives</b>		<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>			
<b>9- Teaching and Learning Strategies</b>					
<b>Strategy</b>		<p>1- Theoretical lecture method</p> <p>2- Method of discussion and dialogue</p>			
<b>10- Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>

(1)	2	Introduction to linguistic errors Rules of the tied and long taa	Rules of the tied and long taa	The lecture is theory	Monthly and quarterly exam
(2)	2	Rules for writing the extended and shortened alif., Solar and lunar letters	the extended and shortened alif.,	The lecture is theory	Monthly and quarterly exam
(3)	2	Dad and Dhad	Dad and Dhad	The lecture is theory	Monthly and quarterly exam
(4)	2	Writing the Hamza	Writing the Hamza	The lecture is theory	Monthly and quarterly exam
(5)	2	Punctuation marks	Punctuation marks	The lecture is theory	Monthly and quarterly exam
(6)	2	Distinguishing between nouns and verbs	nouns and verbs	The lecture is theory	Monthly and quarterly exam
(7)	2	Objects	Objects	The lecture is theory	Monthly and quarterly exam
(8)	2	Rules for writing numbers	Numbers	The lecture is theory	Monthly and quarterly exam
(9) (10)	4	Applications of common linguistic errors	Applications of common linguistic errors	The lecture is theory	Monthly and quarterly exam
(11)	2	Noun and Tanween - - meanings of prepositions	Noun and Tanween	The lecture is theory	Monthly and quarterly exam
(12)	2	Formal aspects of administrative discourse	Formal aspects of administrative discourse	The lecture is theory	Monthly and quarterly exam
(13) (14)	4	The language of administrative discourse	Formal aspects of administrative discourse	The lecture is theory	Monthly and quarterly exam
(15)	2	Examples of administrative correspondence	Examples of administrative correspondence	The lecture is theory	Monthly and quarterly exam

### 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		and practice	quarterly examination
(2) (3) (4)	6	Community health , Maternal and childhood care	Community health Maternal and childhood care	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Health education	Health education	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Nutrition ,Basic food components and their importance	Nutrition	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7) (8)	4	Environmental health and its goals	Environmental health and its goals	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9) (10)	4	Medical wastes ,its classification , method of handing , how to dispose of it waste its types and disposal	Medical wastes	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	The concept of disability and the physically and mentally disabled	The concept of disability	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Rehabilitation and its type	Rehabilitation and its type	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Control of infection and transmissible diseases	Control of infection and transmissible diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Transmissible disease -	Transmissible disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Life Statistics , birth and death rate	Life Statistics , birth and death rate	The lecture is theory and practice	Theoretical, practical and quarterly examination
<b>Second semester</b>					
(1) (2)	4	The concept of international health and its emergence	International Health The concept of ) international health - the emergence of	The lecture is theory and practice	Theoretical, practical and quarterly examination

			international health		
(3)	2	Global policy of international health	Global policy of international health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Ethical issues in international health service delivery	Ethical issues in international health service delivery	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	International treaties and international health diplomacy	International treaties	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Global health policies (development, economics, security and human rights) Global health policies	Global health policies (development,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Global Health Plex (Development, Compensation, Security at Human Rights) Global Health Plex	Global health policies development	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Definition of infection disease and what are the factors of the epidemiological triad	Factors of the epidemiological Triad	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Methods of preventing infectious diseases	preventing infectious diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Methods of controlling infectious diseases	Method of controlling infectious diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Vital statistics in determining the epidemiology of infectious diseases	Vital statistics	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	AIDS and hepatitis A and B	AIDS and hepatitis A and B	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Pandemic influenza (Corona, bird and swine flu)	Pandemic influenza	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Hemorrhagic fever	Ebola hemorrhagic disease	The lecture is theory	Theoretical, practical and

				and practice	quarterly examination
(15)	2	Malaria	Malaria	The lecture is theory and practice	Theoretical, practical and quarterly examination

### 11- Course Evaluation

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

### 12- Learning and Teaching Resources

Required textbooks (curricular books, if any)	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:					
HIN					
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: <a href="mailto:inb.znb5@atu.edu.iq">inb.znb5@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>		<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					
<b>Strategy</b>		<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>			
10- Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	2	The concept of health control, foundations, rules, objectives and requirements of the inspection process	The concept of health control, foundations, rules,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	The divisions and units of the Public Health Department, their duties, and the fundamental	Public health department units		

		procedures for following up on health conditions			
(3)	2	Food system, extracts from the Public Health Law	Food system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	General conditions, conditions for granting health leave, conditions that must be met by the leave holder and the workers	Conditions for granting health leave	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Special conditions, including hotels, rest houses, public cafes, casinos, family parks, and shops selling coffee and tea.	Special conditions	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Ovens, bakeries and pastries, food and beverage preparation and serving shops	Ovens, bakeries and pastries	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Barber and beauty salons, coffee grinding and selling shops, live chicken shops	Barber and beauty salons	The lecture is theory and practice	Theoretical, practical and quarterly examination

(11)	2	The role of agility	The role of agility	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Food industry laboratory, food additives	Food industry laboratory, food additives	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Food safety (food fraud)	Food safety	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Food industry laboratory, food additives	Food industry laboratory, food additives	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Sweets factory, Al-Rashi production factory	Sweets factory	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Ice factor, gypsum factor	Ice factor, gypsum factor	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Juice and jam factories, mineral water and soft drinks factories	Juice and jam factories, mineral water and soft drinks factories	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Potable water desalination and sterilization plants with spiral membrane systems and reverse osmosis, liquefaction water projects	Potable water desalination and sterilization plants with spiral membrane systems and reverse osmosis	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Beauty centers	Beauty centers	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Cosmetics and detergent laboratories	Cosmetics and detergent laboratories	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Means of transport intended for transporting, preserving, displaying, selling and processing food materials	Means of transport intended for transporting, preserving, displaying, selling and processing food materials	The lecture is theory and practice	Theoretical, practical and quarterly examination

(7)	2	Public baths, swimming pools, public baths	Public baths, swimming pools	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Organizing the work of street vendors	Organizing the work of street vendors	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Health and environmental inspection of schools	Health and environmental inspection of schools	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Massacres	Massacres	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Entities supporting health oversight work	Entities supporting health oversight work	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Sanitary landfill sites	Sanitary landfill sites	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	HACCP system	HACCP system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Pull food models	Pull food models	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Work contexts	Work contexts	The lecture is theory and practice	Theoretical, practical and quarterly examination

### 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



(3)	2	Causes, clinical features, diagnosis, treatment, management and approach.	Typhoid (M) + face injury (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Measles, german Measles ,small pox (M) + surgical mouth (S), corona virus infections	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Infection of mouth and tongue (M) + surgical tongue (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gastritis and pepticulcer (M) + gum ulcer (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Jaundice (M) + tonsillitis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Heart failure (M)) + esophagus ca. (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9) (10)	4	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Myocardial infarction MI angina (M)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Ca. stomach , ca. intestine (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hypertension (M) + appendicitis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Congenital heart disease (M) + intestinal obstruction (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	14 Pneumonia (M) + liver abscess (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Asthma (M) + liver injury (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination

Second semester					
(1)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	1 Bronchitis (M) + cholecystitis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Pleural effusion (M) + gall bladder stone (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Anemia (M) + spleen injury (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Leukemia (M) + pancreatitis (S) ,Hemorrhagic fever	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Lymphoma (M) + hernia (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hemophilia (M) + types of hernia (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Glomerulonephritis (M) + tracheal obstruction (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Nephrotic syndrome and renal failure (M) + lung ca. (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Rheumatoid arthritis (M) + fracture (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gout (M) + pyelonephritis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Gout (M) + pyelonephritis (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Hyperpituitarism (M) + renal stones (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination

(13)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Thyroid gland disease (M) + bladder ca. (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Addison diseases (M) + blood transfusion (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Causes, clinical features, diagnosis, treatment, prevention of the disease.	Para Thyroid gland disease (M) + hemorrhoid (S)	The lecture is theory and practice	Theoretical, practical and quarterly examination

#### 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:					
HOS					
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: <a href="mailto:Shahad.mohammed.bib22@atu.edu.iq">Shahad.mohammed.bib22@atu.edu.iq</a>					
7- Course Objectives					
<b>Course Objectives</b>		<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					
<b>Strategy</b>		<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>			
9-Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination

(2)	2	Occupational health and safety in Iraq	Occupational health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Occupational health and safety and its relationship to productivity	Occupational health and safety	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Physical (natural) hazards	Physical (natural) hazards	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Noise and vibrations	Noise and vibrations	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Temperature, humidity and air velocity	Temperature, humidity and air velocity	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Lighting and radiation of all kinds	Lighting and radiation of all kinds	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8) +	4	A - Atmospheric pressure b- Electricity	A - Atmospheric pressure b- Electricity	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10) +	4	2-Chemical risks A - Gases B - Vapors C - Dust	Chemical risks	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)					
(12)	2	Biological risks, infectious diseases and psychological factors	Biological risks,	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Mechanical risks	Mechanical risks	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	Chapter Three (Industrial Poisons) Introduction to Toxicology (Definition of poison - How it enters the body - Its reactions inside the body - Methods of	(Industrial Poisons)	The lecture is theory and practice	Theoretical, practical and quarterly examination

		excretion from the body)			
(15)	2	Heavy metal poisoning (lead, mercury, chromium)	Heavy metal poisoning	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1) + (2)	4	Insecticide poisoning Organic compound poisoning (organic solvents - hydrocarbons and their derivatives)	Insecticide poisoning	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3) + (4)	4	Chapter Four (Work Accidents and Injuries) Definition of accident and injury, their causes and types	(Work Accidents and Injuries)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5) + (6)	4	Handling and storage of materials Safety and security signs and markings	Handling and storage of materials	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Obstacles and the role of civil defense in establishments - Work injury statistics Chapter Five (General methods of prevention of occupational hazards)	Obstacles and the role of civil defense in facilities	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	1- Medical prevention methods A- Initial, periodic and special examinations and rehabilitation	- Medical prevention methods	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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.	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Engineering prevention methods A- Locks B- Replacement C- Isolation	Engineering prevention methods	The lecture is theory and practice	Theoretical, practical and quarterly examination

(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)	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	G - General personal hygiene	G - General personal hygiene	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	3-Personal protective equipment, its types, specifications and uses	Personal protective equipmen	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14) + (15)	4	Chapter Six Occupational Health and Safety Legislation 1-Decisions related to occupational health and safety 2- Laws 3-Regulations 4-Instructions	Occupational Health and Safety Legislation	The lecture is theory and practice	Theoretical, practical and quarterly examination

#### 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					
: EPI					
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: <a href="mailto:inb.ebts@atu.edu.iq">inb.ebts@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>		<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					
<b>Strategy</b>		<p>1- Theoretical lecture method</p> <p>2- Practical lecture method</p> <p>3- Method of discussion and dialogue</p>			
10- Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	2	Types of Epidemiology, Objectives-Basics- General Strategies Factors controlling the infection process	Types of Epidemiology,	The lecture is theory and practice	Theoretical, practical and quarterly examination

(2)	2	General definitions used in epidemiology, disease measures, risk factor in epidemiology	General definitions used in epidemiology,		
(3)	2	Epidemiological Triad: Its Importance and Applications Factors of Disease - Occurrence (Personality-Place-Time)	triad epidemiological	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	Transmissible and non transmissible diseases -transmissible and factors that control the infection process	Transmissible diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Methods of prevention and control of Transmissible diseases	control of Transmissible diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8) + (9)	4	Epidemiological investigation and monitoring (objectives of epidemiological monitoring - basic steps of epidemiological monitoring) Types of - epidemiological studies - methods of investigating epidemic diseases	Epidemiological investigation and monitoring	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Administrative division of health prevention departments in the Ministry of Health and the mechanism of work in the field of prevention	Health prevention	The lecture is theory and practice	Theoretical, practical and quarterly examination

		- Instant news model for Transmissible diseases			
(11)	2	German - Measles measles - mumps	German - Measles measles – mumps	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	polio - Tuberculosis	Tuberculosis – polio	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	whooping - Diphtheria cough – tetanus	- Diphtheria whooping cough – tetanus	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	hepatitis Viral	hepatitis Viral	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	fever - Malta Typhoid fever	fever - Typhoid Malta fever	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	Epidemic diseases that occurred in the world, their results and how to deal with them	Epidemic diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	Vaccination against communicable diseases (regional plan)	against Vaccination communicable diseases	The lecture is theory and practice	Theoretical, practical and quarterly examination
(3)	2	Types of health protection, environmental pollution, medical waste.	prevention Health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	2	poisoning (types Food and causes )	poisoning Food	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	2	Meningitis	Meningitis	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Cholera	Cholera	The lecture is theory and practice	Theoretical, practical and quarterly examination

(7)	2	bags Water	Water bags	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	Malaria	Malaria	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	Schistosomiasis	Schistosomiasis	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	2	Acquired immunodeficiency disease	Acquired immunodeficiency disease	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	fever Hemorrhagic	Hemorrhagic fever	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	pox Chicken	Chicken pox	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Rabies	Rabies	The lecture is theory and practice	Theoretical, practical and quarterly examination

### 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: <a href="mailto:haider.abdullah.iba3@atu.edu.iq">haider.abdullah.iba3@atu.edu.iq</a>					
8- Course Objectives					
<b>Course Objectives</b>		<p>General: The student should be able to identify the most important environmental components and their sources of pollution, toxins, poisoning with metals</p> <p>Specific Learn about water, soil and air pollution in cities and how to treat pollutants</p> <p>Treatment of all industrial waste</p> <p>Ground and surface water treatment</p> <p>Identify global environmental problems and heat emission</p>			
9- Teaching and Learning Strategies					
<b>Strategy</b>		<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	Environmental health concept Objectives Types of environments	Environmental Health	The lecture is theory and practice	Theoretical, practical and quarterly examination
(2)	2	The concept and importance of environmental components Types of pollutants and bioremediation	Environment components Environmental pollutants	The lecture is theory and practice	Theoretical, practical and quarterly examination

(3) (4)	4	Air pollution concept And risks that affect human health And risks affecting the environment	air pollution	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5) (6)	4	Natural resources Unnatural sources How to reduce the dangers of air pollution	air pollution	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	What does air pollution mean Causes that lead to water pollution How can water be treated	Water pollution	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8) (9)	4	Causes of water pollution The main sources of water pollution Diseases resulting from Water pollution and how to treat it	Water pollution	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	2	Soil pollution concept Causes that lead to soil pollution Types of defects And treatment of soil pollution	Soil contamination	The lecture is theory and practice	Theoretical, practical and quarterly examination
(11)	2	Waste sources The impact of waste on the environment Waste treatment methods	Drainage of waste and waste	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	4	Sources of waste and waste The impact of waste on the environment Waste treatment	Drainage of waste and waste	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	2	Wastewater concept Main sources of wastewater The impact of wastewater on the environment Processing effect	Sewage water treatment	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	2	The effect of foods on food Diseases caused by food to humans How Reducing its harms	Environment, food, foodborne diseases Food preservation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	2	Types of insects and their impact on the environment Insect control methods What are rodents?	Insect and rodent control	The lecture is theory and practice	Theoretical, practical and quarterly examination

		How to control rodents			
<b>11- Course Evaluation</b>					
Monthly theoretical exam 25					
Monthly practical exam 15+					
Final theoretical exam 35 +Final practical exam 25+					
<b>12- Learning and Teaching Resources</b>					
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:					
PHA					
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: <a href="mailto:ali.rasheed.bib7@atu.edu.iq">ali.rasheed.bib7@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>		General: the student must know 1- Basic science of pharmacology 2- The activity of drugs 3-Absorption and excretion of drug 4- Dose and dosage form 5- Toxicology, toxins, poisoning with metals Specific: 1- Routes of drug administration. 2- Effect of drug on the body. 3- Injection routes of drug administration. 4- Toxicity with drugs and metals			
9- Teaching and Learning Strategies					
<b>Strategy</b>		1- Theoretical lecture method 2- Practical lecture method 3- Method of discussion and dialogue			
10- Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	2	Introduction and General definition of pharmacology (pharmacology, pharmacy, pharmacists, Dose, Concentration)	Introduction and General pharmacology	The lecture is theory and practice	Theoretical, practical and quarterly examination

(2) (3) (4)	6	Infection: Antibacterial, Antiviral, antifungal, antiprotozoal, antihelminthic drugs	Infection		
(5)	2	Nutrition: vitamins. parenteral nutrition, electrolyte, intravenous fluid	Nutrition	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	2	Corticosteroid drugs	Corticosteroid drugs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	2	Non-steroidal anti-inflammatory drugs	Non-steroidal anti-inflammatory drugs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8) (9)	4	Cardiovascular system drugs Digitalis and cardiac glycoside, Diuretics, Adrenoreceptors blocking	Cardiovascular system drugs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10) (11)	4	Gastrointestinal tract drugs. Antacid, Antispasmodic, Healing peptic and ulcer, Antidiarrheal, Laxative, rectal and colonic drug, intestinal section	Gastrointestinal tract drugs	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12) (13)	4	Respiratory system Bronchodilator, corticosteroids. Allergic disorders, respiratory stimulant, mucolytic, anti-tussive and expectorant, nasal decongestant	Respiratory system	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14) (15)	4	Endocrine Drug use in diabetic, hypoglycemia, pituitary hormone, thyroid and thyroid drug. female sex hormone male sex hormone and anti- androgens, anabolic steroid, hyperglycemia drug, other endocrine hyper lipid Imia drugs	Endocrine	The lecture is theory and practice	Theoretical, practical and quarterly examination
Second semester					
(1)	2	G U T Uterine stimulant, uterine relaxants, vulvar and	G U T	The lecture is theory and practice	Theoretical, practical and quarterly examination

		viginal disorder. contraceptics ut disorder			
(2) (3)	4	Muscular skeletal disorder Chronic rheumatic disease, treatment of gut, myasthenia gravis, muscle relaxant, rubefaciens. soft tissue inflammation	Muscular skeletal disorder	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4) (5)	4	Blood formation and coagulation Iron deficiency anemia, other type of anemia anticoagulant, antiplatelet, fibrin lytic and anti- fibrinolytic	Blood formation and coagulation	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6) (7)	4	Skin Emollients, antipruritic, topical corticosteroid eczema psoriasis acne antibacterial disinfectant antifungal antiviral antiparasitic melanzing and demeaning	Skin	The lecture is theory and practice	Theoretical, practical and quarterly examination
(8)	2	E N T Drug acting on E N T including antibiotic and inflammatory	E N T	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	2	EYE Anti- infective preparations, anti- inflammatory. mydriatics,cycloplegics .Glaucoma other preparation	EYE	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10) (11)	2	Chemotherapy and immunosuppressant Alkylating, antimetabolites,enzyme , hormones . alter immunosuppressant	Chemotherapy	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12) (13)	2	Anesthesia General anesthesia, local, inhalation, parenthetic	Anesthesia	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14) (15)	2	C N S Hypnotic and anxiolytic antipsychotic, antidepressants, CNS stimulants ,anorectics.	C N S	The lecture is theory and practice	Theoretical, practical and quarterly examination

		Analgesic (mild, moderate, sever pain, migraine, antiepileptic's, parkinsonism, drug use in chorea, tics, trigeminal neuralgia			
<b>11- Course Evaluation</b>					
Monthly theoretical exam 25 Monthly practical exam 15+ Final theoretical exam 35 +Final practical exam 25+					
<b>12- Learning and Teaching Resources</b>					
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

<b>1- Course Name:</b>					
professional Ethics					
<b>2- Course Code:</b>					
PRE					
<b>3- Semester / Year:</b>					
second semester					
<b>4- Description Preparation Date:</b>					
13 /10/2024					
<b>5- Available Attendance Forms: Form of attendance:</b>					
academic + on-site training (hospitals and health centers)					
<b>6- Number of Credit Hours (Total) / Number of Units (Total)</b>					
30 hours per semester (2 theoretical), total number of units (2).					
<b>7- Course administrator's name (mention all, if more than one name)</b>					
Name: Maysoon Kooshi Jasim      Email: maysoon.Husain iba3@.atu.edu.iq					
<b>8- Course Objectives</b>					
<b>Course Objectives</b>		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).			
<b>9- Teaching and Learning Strategies</b>					
<b>Strategy</b>		1- Theoretical lecture method 2- Method of discussion and dialogue			
<b>10- Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(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	The lecture is theory	Monthly and quarterly exam
(2)	2	Principles of professional etiquette in the stages of civilizational developments	Principles of professional etiquette in the stages of civilizational developments	The lecture is theory	Monthly and quarterly exam

		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,	The lecture is theory	Monthly and quarterly exam
(4)	2	He Values, customs and traditions Its definition, classification, factors affecting it, methods of its establishment	He Values, customs and traditions	The lecture is theory	Monthly and quarterly exam
(5)	2	Personality types, how to deal with them Definition of personality, its types, relationships, nature, motivations and interpretations	Personality types	The lecture is theory	Monthly and quarterly exam
(6)	2	Basic ethics of the health and medical profession 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	The lecture is theory	Monthly and quarterly exam
(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	The lecture is theory	Monthly and quarterly exam
(8)	2	Behavioral dealing .with the patient Receiving and dealing with the patient and	Behavioral dealing with the patient	The lecture is theory	Monthly and quarterly exam

		<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	The lecture is theory	Monthly and quarterly exam
(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	The lecture is theory	Monthly and quarterly exam
(11)	2	<p>Professional compatibility and its relationship to work (its concept and conditions)</p>	Professional compatibility	The lecture is theory	Monthly and quarterly exam
(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	The lecture is theory	Monthly and quarterly exam

(13)	2	The humanitarian, religious and democratic dimensions of the health and medical professions	The humanitarian,	The lecture is theory	Monthly and quarterly exam
(14)	2	The role of the medical associate in reporting and spreading health culture among members of society Factors of effective - communication between medical personnel and patients Conditions - necessary for the success of a medical member during his watch	The role of the medical associate in reporting and spreading health culture among members of society	The lecture is theory	Monthly and quarterly exam
(15)	2	- Applications in professional behavior	Applications in professional behavior	The lecture is theory	Monthly and quarterly exam

### 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: <a href="mailto:alaa.hasan.iba2@atu.edu.iq">alaa.hasan.iba2@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>		<ul style="list-style-type: none"> <li>The student gets to know the concept of crime.</li> <li>Learn about the dictatorship of the former regime</li> <li>He learns the importance of his choice</li> </ul>			
9- Teaching and Learning Strategies					
<b>Strategy</b>		1- Theoretical lecture method 2- Method of discussion and dialogue			
10- Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	2	Introduction to the concept of crimes	to the concept of crimes	The lecture is theory	Monthly and quarterly exam
(2)	2	History of crime committed by the authority	Crime history	The lecture is theory	Monthly and quarterly exam
(3)	2	Crime departments	Crime departments	The lecture is theory	Monthly and quarterly exam
(4)	2	Crime departments	Crime departments	The lecture is theory	Monthly and quarterly exam
(5)	2	Types of international crimes	International crimes	The lecture is theory	Monthly and quarterly exam
(6)	2	Types of international crimes	International crimes	The lecture is theory	Monthly and quarterly exam
(7)	2	Human rights in Roman civilization	Human rights in Roman civilization	The lecture is theory	Monthly and quarterly exam

(8)	2	Decisions issued by the Supreme Court.	Decisions issued by the Supreme Court.	The lecture is theory	Monthly and quarterly exam
(9)	2	Decisions issued by the Supreme Court.	Decisions issued by the Supreme Court.	The lecture is theory	Monthly and quarterly exam
(10)	2	Decisions issued by the Supreme Court.	Decisions issued by the Supreme Court.	The lecture is theory	Monthly and quarterly exam
(11)	2	Psychological crimes	Psychological crimes	The lecture is theory	Monthly and quarterly exam
(12)	2	Mechanisms of psychological crimes	Mechanisms of psychological crimes	The lecture is theory	Monthly and quarterly exam
(13)	2	Psychological effects of crimes	Psychological effects of crimes	The lecture is theory	Monthly and quarterly exam
(14)	2	Baath crimes against religion	Baath crimes against religion	The lecture is theory	Monthly and quarterly exam
(15)	2	Baath crimes against religion	Baath crimes against religion	The lecture is theory	Monthly and quarterly exam

### 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:					
CAI					
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: <a href="mailto:ali.selim.iba105@atu.edu.iq">ali.selim.iba105@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>		<p>The student must be able</p> <ol style="list-style-type: none"> <li>1.Utilize the computer for fundamental tasks.</li> <li>2.Identify and discuss tile hardware components of the computer system.</li> <li>3.Creating documents using a word processor and creating presentations.</li> <li>4.Conducting research on the Internet.</li> <li>5. An introduction to Artificial Intelligence</li> </ol>			
9- Teaching and Learning Strategies					
<b>Strategy</b>		<ol style="list-style-type: none"> <li>1- Board (Normal or Smart)</li> <li>2- Computers</li> <li>3- Presentation software such as PowerPoint</li> </ol>			
10- Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
(1)	1	Security and Networking: What is a network? Types of networks. Basic network components.	security and Networking:	The lecture is theory and practice	Theoretical, practical and quarterly examination

(2)	1	Security and Networking (Cont.): Network Security Basics. Understanding network threats	Security and Networking (Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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:	The lecture is theory and practice	Theoretical, practical and quarterly examination
(4)	1	Computer Troubleshooting: Identifying and solving common hardware and software problems that computer users encounter.	Computer Troubleshooting:	The lecture is theory and practice	Theoretical, practical and quarterly examination
(5)	1	Computer Troubleshooting (Cont.): Basic Troubleshooting techniques and tools for diagnosing and resolving issues.	Computer Troubleshooting (Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(6)	1	Introduction to AI: Definition of AI, History of AI, AI Techniques and Approaches.	Introduction to AI:	The lecture is theory and practice	Theoretical, practical and quarterly examination
(7)	1	Introduction to AI(Cont.): Key Characteristics of AI, Benefits of AI, Challenges and Ethical considerations.	Introduction to AI(Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(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	The lecture is theory and practice	Theoretical, practical and quarterly examination
(9)	1	The Role of AI in Modern Smartphones (Cont.):Adaptive Learning,Real-Time Translation Services.	The Role of AI in Modern Smartphones (Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(10)	1	Applications and Tools of AI: Overview of AI Applications in Various	Applications and Tools of AI:	The lecture is theory and practice	Theoretical, practical and

		Industries, Education and Healthcare.			quarterly examination
(11)	1	Applications and Tools of AI (Cont.): Transportation, Marketing and Advertising.	Applications and Tools of AI (Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(12)	1	Applications and Tools of AI(Cont.): Finance, Robotics and Automation Technologies	Applications and Tools of AI(Cont.):	The lecture is theory and practice	Theoretical, practical and quarterly examination
(13)	1	AI and Society: How AI affects social, AI and international relations, AI and the future of humanity.	AI and Society	The lecture is theory and practice	Theoretical, practical and quarterly examination
(14)	1	Ethical Challenges in AI : AI ethics, privacy and surveillance, the impact of AI on the job market.	Ethical Challenges in AI :	The lecture is theory and practice	Theoretical, practical and quarterly examination
(15)	1	The Future of AI: Future trends in AI, recent research and emerging technologies.	The Future of AI:	The lecture is theory and practice	Theoretical, practical and quarterly examination

### 11- Course Evaluation

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

### 12- Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	1. Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020) 4. Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete" ,16th Edition (2020). 5. Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", 1st Edition (2024). 4. Al-Khader Ali Al-Khader, Researcher, "Computer Basics 2016". 5. Dr. Adel Abdel Nour, Introduction to the World of Artificial Intelligence, 2005
Recommended books and references (scientific journals, reports...)	<a href="https://www.noor-book.com/">https://www.noor-book.com/</a>
Electronic References, Websites	<a href="https://www.noor-book.com">https://www.noor-book.com</a>

## 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: <a href="mailto:alaa.hasan.iba2@atu.edu.iq">alaa.hasan.iba2@atu.edu.iq</a>		
8- Course Objectives					
<b>Course Objectives</b>		<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>			
9- Teaching and Learning Strategies					
<b>Strategy</b>		<p>1- Theoretical lecture method</p> <p>2- Method of discussion and dialogue</p>			
10- Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>

(1)	2	Original diacritical marks (Dammah, Fatha, Kasrah) - Secondary diacritical marks (Hamza) - Waw, Alif, Ya	Original diacritical marks	The lecture is theory	Monthly and quarterly exam
(2)	2	Nominal Sentence (Types of Subject, Types of Predicate)	Nominal sentence	The lecture is theory	Monthly and quarterly exam
(3)	2	Inna and its sisters	An and its sisters	The lecture is theory	Monthly and quarterly exam
(4)	2	The difference between 'An' and 'Inna	The difference between (that, that)	The lecture is theory	Monthly and quarterly exam
(5)	2	The five verbs	The five verbs	The lecture is theory	Monthly and quarterly exam
(6)	2	The verb 'Kana' and its sisters	Kan and her sisters	The lecture is theory	Monthly and quarterly exam
(7)	2	Linguistic Errors	linguistic errors	The lecture is theory	Monthly and quarterly exam
(8)	2	The Dual and Its Declension	Dual and its syntax	The lecture is theory	Monthly and quarterly exam
(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	The lecture is theory	Monthly and quarterly exam
(11)	2	The poet Badr Shakir al-Sayyab."	The poet Badr Shakir al-Sayyab	The lecture is theory	Monthly and quarterly exam
(12)	2	Linguistic information (synonyms and antonyms, linguistic differences, grammatical equivalents)	Linguistic information	The lecture is theory	Monthly and quarterly exam
(13) (14)	4	Types of Plurals (Regular Masculine Plural, Regular Feminine Plural, Broken Plural)	Types of plurals	The lecture is theory	Monthly and quarterly exam
(15)	2	Grammar Engineering	Grammar Engineering	The lecture is theory	Monthly and quarterly exam

### 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