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

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: Technical institute in Al-Diwaniyah

Scientific Department: Community Health Technologies

Academic or Professional Program Name: Diploma

Final Certificate Name: Diploma in Community Health Technologies

Academic System: Courses

Description Preparation Date:

File Completion Date: 2025/10/14

Signature:
Head of Department Name:
Assist.Prof.Dr. Masar Jabbar Jari
Date:

Signature:
Scientific Associate Name:
Prof.. khudhair Majeed Allawi
Date:

The file is checked by:
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department: Assist.lac. Adnan Hammid Yassin
Date:
Signature:

Approval of the Dean
Prof. Dr. Zaki Mohammed Abbas

١. Program Vision

Providing graduates with the knowledge and experience necessary to be leaders in community and public health, and to have a positive impact at the global and local levels.

٢. Program Mission

Achieving excellence in teaching and learning in the field of community health through the development and implementation of robust educational programs and research activities, leading to enhanced health care services and access to all members of the community.

٣. Program Objectives

1- The department aims to graduate technical personnel in environmental health, occupational safety, inspection, health control, health survey, implementation of primary health care programs, carrying out health awareness campaigns, and operating and caring for special devices.
2. Preparing students to become community leaders in competence and professionalism in the field of community health.
3. Emphasizing the importance of health education in the educational and professional aspects to increase individual, family and community awareness towards achieving self-care.
4. Cooperating with public and private organizations in meeting the health needs of the community

٤. Program Accreditation

Does the program have program accreditation? And from which agency? / No

The accreditation has been submitted to the Council of Medical Specialties, according to the standards of the National Council for the accreditation of programs and institutes of the health and medical technologies for the academic year (2022- 2023) . / rejected .

٥. Other external influences

According to the need of the labor market (the need of the Department of Health), the opinion of the labor market regarding the school curricula is taken

٦. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	6	14	17.6 %	

College Requirements				
Department Requirements	28	126	82.3%	
Summer Training		270 h.		
Other				

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

٧. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
First	ATU11011101	Principles of Community Health	2	3
	ATU11011102	Fundamentals of Nursing 1	2	3
	ATU11011105	General Anatomy 1	2	2
	ATU11011103	Physiology 1	2	3
	ATU11011104	Medical Microbiology 1	2	3
	ATU11011107	Biostatic 1	2	-
	ATU11011106	Clinical Chemistry 1	1	3
	ATU11011108	Computer Applications 1	١	2
	ATU11011109	Human Rights and Democracy	2	-
	ATU11011201	Community Health	2	3
	ATU11011202	Fundamentals of Nursing 2	2	2
	ATU11011205	General Anatomy 2	2	2
	ATU11011203	Physiology 2	2	3
	ATU11011204	Medical Microbiology 2	2	2
	ATU11011207	Biostatic 2	2	-
	ATU11011206	Clinical Chemistry 2	1	3
	ATU11011208	English Language	2	-
	ATU11011209	Arabic Language	2	-
Second	ATU11012101	Health Inspection 1	2	4
	ATU11012102	Medicine & Surgery 1	2	4
	ATU11012104	Health & Occupational Safety 1	2	3
	ATU11012105	Epidemiology 1	2	2
	ATU11012106	Environmental Health	2	2
	ATU11012107	Pharmacology 1	2	2
	ATU11012١٠٨	Crimes of the Baath Regime in Iraq	٢	-
	ATU11012109	Computer applications 2	1	2
	ATU11012203	International Health	2	3
	ATU11012201	Health Inspection 2	2	4
	ATU11012202	Medicine & Surgery 2	2	4
	ATU11012204	Health &Occupational Safety2	2	3
	ATU11012205	Epidemiology 2	2	2
	ATU11012206	Pharmacology 2	2	2
	ATU11012208	Arabic Language	2	-
	ATU11012207	Professional Ethics	2	-
	ATU11012209	Graduation research project	-	2

٨. Expected learning outcomes of the program

Knowledge

A1- The student's knowledge of participating in health inspection and control teams and assisting in the laboratory investigation of the samples that were examined and matching them with medical conditions.
A1- Assisting the doctor in diagnostic, nursing and therapeutic procedures
A3- Operating and taking care of the devices and machines used in diagnosis and treatment.
A4- The graduate works within the health survey teams and health awareness campaigns.

Skills

B1 - Enabling the student to implement primary health care.
B2 - Enabling the student to work in teams of special surveys with infectious diseases and how to control them.
B3 - Enabling the student to participate in the field of occupational safety and health.
B4 - Enabling the student to participate in the field of scientific materials and the expertise he gained in the field of primary health care programs , the general rules of occupational health and safety , preventive measures to reduce and control diseases , and conduct the laboratory tests necessary for diagnosis .

Ethics

١- Implementation of the general rules in the procedures of the occupational and safety prevention, Inspection and health control in various fields of work.
٢- Implementation of Health care procedures (Maternity and Childcare, School Health, Vaccines programs)
٣- Implementation of Prevention producers (Primary prevention, Secondary prevention, Tertiary prevention) to reduce the spread of diseases in community.
٤- Practical Implementation for various Laboratory tests for early detection of disease, and enabling the student to learn and participate in special surveys, teams on communicable diseases and how to control them, and health awareness campaigns

٩. Teaching and Learning Strategies

1. Theoretical lectures and the use of modern scientific methods in lectures presentation (data show)
2. Practical application of theoretical vocabulary.
3. Practical training in hospitals and primary health centers

١٠. Evaluation methods

1-Theoretical exam with papers
2- Oral questions and discussion of medical cases
3- Practical exam in the laboratory
4- Displaying models and films in (data show) and answering them by the student

١١. Faculty

Faculty Members

Academic Rank	Specialization	Special Requirements/Skills (if applicable)	Number of the teaching staff

	General	Special			Staff	Lecturer
Assist prof. Dr. Massar Jabar Jeri	Veterinary Medicine	Physiology			✓	
Lecturer Dr. Raghda Saad Mahommed	Microbiology	immunology			✓	
Assist prof. Afrah Abdel Wahed	Veterinary Medicine	physiology			✓	
Lecturer Dr. Athraa abul Ameer Abudlrab	Biology	Microbiology			✓	
Lecturer Dr. Ahmed Hamza Najem	Chemical Science	Organic Chemistry			✓	
Lecturer Dr. Rami Salim Owaid	Veterinary Medicine	Common disease			✓	
Lecturer Dr. Humam Hatem Kareem	Law	Law			✓	
Lecturer Malath Ismail Yousif	Biology	Ecology			✓	
Lecturer Hussein Mahdi Kareem	Biology	Physiology			✓	
Lecturer Mohammed ghattar daiek	Law	Law			✓	
Lecturer Anaam M. Abdel-hassan	Community health	Community health			✓	
Lecturer Ghadeer Ibrahem Maki	Computer	Computer			✓	
Assist lecturer Azhar Aziz Bahidh	Veterinary Medicine	Parasitology			✓	
Assist lecturer Adnan Hameed Yaseen	Arabic Language	Arabic Language			✓	
Assist lecturer Mayser Ilan Aljubouri Abaas	mathematics	Numerical integration			✓	
Assist lecturer Roaa Abid Jaythoom	Biology	Microbiology			✓	
Assist lecturer Aymen Rashad Ayyal	Chemical Science	Organic Chemistry			✓	
Assist lecturer Hanan Ahmed Taher	Community health	Community health			✓	
Assist lecturer Ali Adel Abdul Hussein	Biology	Biology			✓	
Assist lecturer Zahraa Fahmi Zammakh	Biology	Biology			✓	
Assist lecturer Ibtisam Muhsin Abbass	Computer	Computer			✓	
Assist lecturer Zaid Fouad Hashim	English	English			✓	

Professional Development
Mentoring new faculty members
His continuous enrollment in continuing education courses to develop his experience and skills Change the workplace from time to time so that his work does not become routine and he acquires new skills in a new job Invite some relevant professional institutions and coordinate student training (methodological training) and discuss training curricula and rely on daily evaluation Updating the curriculum and continuous coordination with specialists in order to achieve the required level of study to benefit from its capabilities in this field.
Professional development of faculty members
Holding training courses within the institution and urging teachers to participate in training courses outside the institution. Holding workshops, scientific seminars and training courses aimed at providing teaching staff with the knowledge and experience necessary to keep pace with developments in the educational process. Encouraging scientific research.

١٢. Acceptance Criterion
According to the central acceptance plan

١٣. The most important sources of information about the program
- Ministry of Higher Education and Scientific Research website. - AL- Furat AL- Awsat Technical University website. - Orders and assignments within the institute. - Scientific methodological books in the field of specialization. - Specialized practical books - Websites of reputable and recognized international institutes and universities.

١٤. Program Development Plan
- The department aims to develop levels of student interaction and guidance, provide advice, university, professional and development services activities, and interact with practitioners and professionals as well as employers. - Students gain the necessary experience in what the field of work requires through summer training programs, visits, scientific trips, and graduation research projects. - Holding development courses for graduates

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
First	ATU11011101	Principles of Community Health	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011102	Fundamentals of Nursing 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011105	General Anatomy 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011103	Physiology 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011104	Medical Microbiology 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011107	Biostatic 1	Basic												
	ATU11011106	Clinical Chemistry 1	Assist	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011108	Computer Applications 1	Assist												
	ATU11011209	English Language	General												
	ATU11011201	Community Health	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011202	Fundamentals of Nursing 2	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011205	General Anatomy 2	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011203	Physiology 2	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011204	Medical Microbiology 2	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011207	Biostatic 2	Basic												
	ATU11011206	Clinical Chemistry 2	Assist	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11011109	Human Rights and Democracy	General												
Second `	ATU11012103	Community Health	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012101	Health Inspection 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012102	Medicine & Surgery 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012104	Health &Occupational Safety 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012105	Epidemiology 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012106	Environmental Health	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012107	Pharmacology 1	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012108	Baath crimes	Assist												
	ATU11011109	Computer Applications 2	Assist												
	ATU11012203	International Health	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012201	Health Inspection 2	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012202	Medicine & Surgery 2	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012204	Health &Occupational Safety2	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012205	Epidemiology 2	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012206	Pharmacology 2	Assist	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012208	Arabic Language	Basic	•	•	•	•	•	•	•	•	•	•	•	•
	ATU11012207	Professional Ethics	Assist												
	ATU11012208	Arabic Language	General												
	ATU11011209	Graduation Project	Assist	•	•	•	•	•	•	•	•	•	•	•	•

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

First Semester

First Year

Course Description Form

١. Course Name:
Principles of Community Health
٢. Course Code:
ATU11011101
٣. Semester / Year:
Semester first / 1st year
٤. Description Preparation Date:
18/10/2025
٥. Available Attendance Forms:
Direct
٦. Number of Credit Hours (Total) / Number of Units (Total)
5 * 15 = 75 hours / 5 units
٧. Course administrator's name (mention all, if more than one name)
Assi. Lec. Anaam M. Abdel-hassan Email : abdel-hassan.dw@atu.edu.iq
٨. Course Objectives

Course Objectives	•To know the goals and strategies of the community health system. •Learn about the services and duties provided in primary health care centers •To know how to organize the family registry forms for pregnant women and children •To know the most important types of vaccines and ways to deal with them •To know health information and measures of health and illness

٩. Teaching and Learning Strategies

Strategy	1. Theoretical lectures and the use of modern scientific methods in presentin lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

١٠. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Definition of community health and its objectives	Introduction to community health - Definition of community health - What does community health include - The goal of community health.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
2	5	Primary health care, its programs and goals	Primary health care primary health care programs - goals and strategies	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases

					Practical exam in the laboratory
3	5	Vaccines Immunity Vaccines, their types and methods of administration National vaccination schedule in Iraq	Vaccines Immunity Vaccines, their types and methods of administration National vaccination schedule in Iraq	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
4 &5	5	Maternal and child care services	Maternal and child care services	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
6	5	Lactation and its types	Breastfeeding/its benefits for the mother and child - artificial feeding - and its disadvantages	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
7	5	Diarrhea in children	Diarrhea in children - its causes - types - how to avoid and prevent it	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
8	5	Dehydration in children and its types	Dehydration in children - its types, signs, and how to avoid it	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

9	5	The importance of school health unit services within the health care center	The importance of school health unit services within the health care center	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
10	5	Medical waste and how to deal with it	Medical waste and how to deal with it	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
11	5	Pandemic influenza (Coronavirus -bird flu)	Pandemic influenza (Coronavirus - bird flu)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
12	5	Knowledge of some communicable diseases	Some communicable diseases (tuberculosis, paralysis)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
13	5	Knowledge of some communicable diseases	Some transmissible diseases (diphtheria, whooping cough, tetanus).	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
14	5	Health and life statistics - sources of information collection	Health and life statistics The general method of health research	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion

			- Births and deaths information		of medical cases Practical exam in the laboratory
15	5	Measures of health and disease: measures of births and deaths	Measures of health and disease: measures of births and deaths	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

١١. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
١٢. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Principles of community health/Nazira Hussein
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	WWW.MEDSCAPE.COM

Course Description Form

١٣. Course Name:
Fundamentals of Nursing 1
١٤. Course Code:
ATU11011102
١٥. Semester / Year:
Semester first / 1st year
١٦. Description Preparation Date:
18/10/2025

١٧. Available Attendance Forms:
Direct
١٨. Number of Credit Hours (Total) / Number of Units (Total)
5 * 15 = 75 hours / 5 units
١٩. Course administrator's name (mention all, if more than one name)
Assit. Lec. Ali Adel Abdul Hussein Email: : ali.hussein@atu.edu.iq
٢٠. Course Objectives

Course Objectives	• Knowledge of nursing property • Knowledge of vital signs, how to measure them, and laboratory tests • Methods of administering and storing medications • First aid

٢١. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٢٢. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	First aid in laboratories and Personal protective equipment, Fundamental of Nursing, definition (Nursing , Nurse, health, Hospital	First aid in laboratories and Personal protective equipment, Fundamental of Nursing , definition (Nursing , Nurse, health, Hospital	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
2&3	5	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, pt. Chart , oral report, written of report , Nursing process.(Assessing , planning , Implementation , Evaluation .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
4&5	5	Physical examination	Physical examination, prepare the pt. to exam, role of Nurse in physical examination , collection of sample ,prepare the equipment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
6	5	Position of patient, patient lifting and its risks	Position of patient, patient lifting and its risks.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases

					Practical exam in the laboratory
7&8	5	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. care of Pt. unit , bed making , personal hygiene patient bath, mouth and tooth care. Bed sores, care of sores, causes & prevention of bed sores	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
9&10	5	Method of sterilization, surgical sterilization	Method of sterilization, surgical sterilization , Medical sterilization , kind of disinfectant،	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
11&12	5	Vital signs	Vital signs, Definition of Temperature, check Temperature, Type of ،check Temp-oral,axllia Rectal definition of fever , causes, signs, & symptom, Nursing care of pyrexia , pulse, definition, factors affecting of pulse , site of taking pulse, Nursing point in check ، pulse Respiration , definition of respiration, definition of Blood pressure. definition of diastolic & systolic pressure.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
13&14	5	Drug administration	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	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
15	5	Giving fluid & Blood by intravenous infusion	Giving fluid & Blood by intravenous infusion, role of Nurse in giving intravenous infusion, Role of Nurse in giving blood transfusion the goal of blood transfusion , important notes in blood infusion.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

٢٣. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
٢٤. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Principles of practical nursing foundations/Nazira Hussein of nursing Philadelphia
Main references (sources)	Salwa Abbas - Principles of Nursing Foundations - Ministry of Health - Health Education Foundation 1995. -Fuerst fundamenta1
Recommended books and references (scientific journals, reports...)	Ahlam Farag, Elham Amin - Basic Principles in Nursing - Ministry of Higher Education and Scientific Research - 2986
Electronic References, Websites	

Course Description Form

٢٥. Course Name:
General Anatomy 1
٢٦. Course Code:
ATU11011105
٢٧. Semester / Year:
Semester first / 1st year
٢٨. Description Preparation Date:
18/10/2025
٢٩. Available Attendance Forms:
Direct
٣٠. Number of Credit Hours (Total) / Number of Units (Total)
4 * 15 = 60 hours / 4 units
٣١. Course administrator's name (mention all, if more than one name)
Assist. Lec. : Azhar Aziz Bahidh Email: Azhar.bahidh@atu.edu.iq

٣٢. Course Objectives	
Course Objectives	•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 . •Special Goals : The students will be able to : •He can correlate between the functions and the anatomy of each part of the body. •He can assist the medical doctor in diagnosis and treatment in some way , primarily and simply as necessary .

٣٣. Teaching and Learning Strategies	
Strategy	• Delivering lectures using modern presentation methods, such as using the anaton atlas 3D program • Direct questions, transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics

٣٤. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Introduction and definition of anatomy	Introduction and definition of anatomy, surface anatomy of the body, anatomical position, median plane.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
2	4	Surface anatomy	Surface anatomy : planes and vertical lines	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
3	4	Tissues and cells : Types of cells	Tissues and cells : Types of cells which form different types of tissues , e.g. : epithelial, connective , muscular, nervous tissues . etc.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
4	4	:Bone and joints types of bones, functions, parts of skeleton	Bone and joints : types of bones , functions of bones , parts of skeleton	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
5	4	Skeleton of upper limb	Skeleton of upper limb : general anatomical appearance , skeleton	Giving a lecture and using explanations	Theoretical exam with papers

			of shoulder girdle : clavicle , scapula, humerus , radius, ulna , skeleton of the hand		Oral questions and discussion of medical cases Practical exam in the laboratory
6	4	Skeleton of lower limb	Skeleton of lower limb : general anatomical appearance, skeleton of the pelvis : hip bones : Ilium , pubis , ischium . femur. Leg :tibia, fibula. Skeleton of the fo	Giving a lecture and using explanations	Theoretical exam with pape Oral questions and discussi of medical cases Practical exam in the laboratory
7	4	Trunk skeleton	Trunk skeleton : thorax : sternum , rips	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
8	4	Skull : general appearance	Skull general appearance	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases 4Practical exam in the laboratory
9	4	Cranium , lower jaw	Cranium , lower jaw	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
10	4	Vertebral column : the types of vertebra of each part.	Vertebral column : the types of vertebra of each part.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
11	4	Joints : definition , types	Joints : definition , types	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
12	4	Joints of upper and lower limb and trunk	Joints of upper and lower limb and trunk	Giving a lecture and	Theoretical exam with papers

				using explanations	Oral questions and discussion of medical cases Practical exam in the laboratory
13	4	Muscular system : types of muscles , muscles of head and face , general information	Muscular system : types of muscles , muscles of head and face , general information	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
14	4	Muscles of upper limb : limbo vertebral muscles , limbo thoracic muscles , muscles of the shoulder , muscles of upper arm, muscles of hand	Muscles of upper limb : limbo vertebral muscles , limbo thoracic muscles , muscles of the shoulder , muscles of upper arm, muscles of hand	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
15	4	Muscles of the lower limb : muscles of the iliac region , muscles of the gluteal region , muscles of thigh	Muscles of the lower limb : muscles of the iliac region , muscles of the gluteal region , muscles of thigh	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

٣٥. Course Evaluation

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

٣٦. Learning and Teaching Resources

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

Course Description Form

٣٧. Course Name:	
Physiology 1	
٣٨. Course Code:	
ATU11011103	
٣٩. Semester / Year:	
Semester first / 1st year	
٤٠. Description Preparation Date:	
18/10/2025	
٤١. Available Attendance Forms:	
Direct	
٤٢. Number of Credit Hours (Total) / Number of Units (Total)	
5 * 15 = 75 hours / 5 units	
٤٣. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Afrah Abdel Wahed Email: Dw.afrh@atu.edu.iq	
٤٤. Course Objectives	
Course Objectives	- The student is able to know physiology of human body(Structure and functions) - The student is able to done more clinical examination thatRelated with physiology
٤٥. Teaching and Learning Strategies	
Strategy	• Direct questions • Transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics
٤٦. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1&2	5	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(	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(	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
3&4	5	Blood –Functions – properties composition –blood plasma –blood serum- Erythrocyte(proprieties –shapes-number – functions) production and degradation of blood cells	Blood –Functions – properties composition –blood plasma –blood serum- Erythrocyte(proprieties –shapes-number – functions) production and degradation of blood cells	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
5	5	Leukocyte (Types – Shapes –number- functions(	Leukocyte (Types – Shapes –number- functions(	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
6	5	Hemoglobin-functions –normal value- composition Platelets(number- functions) Coagulation of blood – anticoagulant	Hemoglobin-functions –normal value- composition Platelets(number- functions) Coagulation of blood – anticoagulant	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
7	5	Cardiovascular system –heart- structure of heart – function – cardiac valves- cardiac cycle – heart sounds	Cardiovascular system –heart- structure of heart – function – cardiac valves- cardiac cycle – heart sounds	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
8	5	Blood vessels (arteries –veins-capillary blood vessels) properties – blood cycle (pulmonary &systemic	Blood vessels (arteries - veins-capillary blood vessels) properties – blood cycle (pulmonary &systemic	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

9	5	Blood pressure –normal value- factors effecting of blood pressure	Blood pressure – normal value- factors effecting of blood pressure	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
10	5	Respiratory system – structure –expiration – inspiration – respiratory muscles – respiratory rate.	Respiratory system – structure –expiration – inspiration – respiratory muscles – respiratory rate.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
11	5	Pulmonary volume – pulmonary ventilation – regulation of gas exchange in blood by respiration.	Pulmonary volume – pulmonary ventilation – regulation of gas exchange in blood by respiration.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
12	5	Urinary system – structure – functions	Urinary system – structure – functions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
13	5	Functions of kidneys- composition of urine – cast and stone in urine normal	Functions of kidneys- composition of urine – cast and stone in urine normal	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
14	5	Ear and eye (structure and functions(	Ear and eye (structure and functions(	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
15	5	Skin (Define , Structures , Functions)s	Skin (Define , Structures , Functions)s	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

٤٧. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
٤٨. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	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
Electronic References, Websites	

Course Description Form

٤٩. Course Name:	
Medical Microbiology 1	
٥٠. Course Code:	
ATU11011104	
٥١. Semester / Year:	
Semester first / 1st year	
٥٢. Description Preparation Date:	
18/10/2025	
٥٣. Available Attendance Forms:	
Direct	
٥٤. Number of Credit Hours (Total) / Number of Units (Total)	
5 * 15 = 60 hours / 5 units	
٥٥. Course administrator's name (mention all, if more than one name)	
Lec. Dr. Athraa abul Ameer Abudlrab Email: athraa.abdulrab@atu.edu.iq	
٥٦. Course Objectives	
Course Objectives	• General objectives: • Student will be able to know a simple general idea about: • Pathogens (Bacteria, fungi, parasites and viruses), the immunity and disease prevention • Special objectives: • Student will be able to: • To diagnose some simple cases in his field work, instead of specialist, when specialist is absent. • Do some tests in the labs. • Collect, preserve and transport the pathogenic samples. • Give an advice for disease prevention and control
٥٧. Teaching and Learning Strategies	
Strategy	• Direct questions • Transferring the reality of the lecture from the theoretical to the practical Distributing students into groups to discuss specific topics

٥٨. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	5	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 warning signs in laboratories, Disposal of waste from workshops and medical laboratories, Disposal of medical laboratory waste.	History of microbiology،	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
2	5	Bacterial morphology, bacterial cell structure.	Bacterial morphology, bacterial cell structure.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
3	5	Bacterial requirement, growth curve	Bacterial requirement, growth curve	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
4	5	Controle of microorganisms	Controle of microorganisms	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
5	5	Pathogens of respiratory system.	Pathogens of respiratory system.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
6	5	Pathogens of digestive system.	Pathogens of digestive system.	Giving a lecture and using explanations	Theoretical exam wit papers Oral questions and discussion of medic cases Practical exam in the laboratory

7	5	Pathogens of urinary and sexual systems	Pathogens of urinary and sexual systems	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
8	5	Food poisoning	Food poisoning	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
9	5	Contamination of hospitals	Contamination of hospitals	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
10	5	General characters of fungi	General characters of fungi	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
11	5	Fungi disease	Fungi disease	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
12	5	the viruses , shapes , sizes & some viral diseases	The viruses , shapes , sizes & some viral diseases	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
13	5	Introduction of parasites.	Introduction of parasites.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

14	5	Protozoa , Entamoeba histolytica	Protozoa , Entamoeba histolytica	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
15	5	Flagellates, Giardia . Trichomonas	Flagellates, Giardia . Trichomonas	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

٥٩. Course Evaluation

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

٦٠. Learning and Teaching Resources

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

Course Description Form

٦١. Course Name:	
Biostatic 1	
٦٢. Course Code:	
ATU11011107	
٦٣. Semester / Year:	
Semester first / 1st year	
٦٤. Description Preparation Date:	
18/10/2025	
٦٥. Available Attendance Forms:	
Direct	
٦٦. Number of Credit Hours (Total) / Number of Units (Total)	
2 * 15 = 30 hours / 2 units	
٦٧. Course administrator's name (mention all, if more than one name)	
Assist Lec. Mayser ilan aljubouri Abaas Email: mayser..dw@atu.edu.iq	
٦٨. Course Objectives	
Course Objectives	• Dealing with statistical data • Dealing with and knowing statistical and health metrics • Organizing the statistical form and health form related to daily incidents such as births, deaths, and diseases
٦٩. Teaching and Learning Strategies	
Strategy	• Direct questions • Transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics

٧٠. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
٢&١	2	Introduction to statistics and its types • Samples • Variables • Classified and unclassified data.	Introduction to statistics and its types • Samples • Variables • Classified and unclassified data.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussions
٤&٣	2	Representing frequency distributions for "classified data" - Graphical display methods (histogram, histogram, histogram, polygon)	Representing frequency distributions for "classified data" - Graphical display methods (histogram, histogram, histogram, polygon)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussions

٧&٦&٥	2	Measures of central tendency - arithmetic mean - median - mode	Measures of central tendency - arithmetic mean - median - mode	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussions
٨	2	Methods of selecting statistical samples “its meaning and methods of selection”	Methods of selecting statistical samples “its meaning and methods of selection”	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussions
١٠&٩	2	Preparing the questionnaire form for health and medical research	Preparing the questionnaire form for health and medical research	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussions
١١	2	Definition of health statistics and confiscation	Definition of health statistics and confiscation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussions
&١٢ ١٤&١٣	2	Life statistics: - The concept of ratio and rate - Death statistics - Birth statistics	Life statistics: - The concept of ratio and rate - Death statistics - Birth statistics	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussions
١٥	2	Statistics of causes of death (medical certificate, cause, death, death certificate)	Statistics of causes of death (medical certificate, cause, death, death certificate)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussions

٧١. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
٧٢. 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 1981
Main references (sources)	Banderford Hill. Fundamental in Biostatistics 1975 F. Margrette -Fundamental in Public health
Recommended books and references (scientific journals, reports...)	W.DIXON and F. massey _ Introduction to statistical Analysis Paul G. Hoel _ Introduction to mathematical statistics.
Electronic References, Websites	

Course Description Form

٧٣. Course Name:

Clinical Chemistry 1	
٧٤. Course Code:	
ATU11011106	
٧٥. Semester / Year:	
Semester first / 1st year	
٧٦. Description Preparation Date:	
18/10/2025	
٧٧. Available Attendance Forms:	
Direct	
٧٨. Number of Credit Hours (Total) / Number of Units (Total)	
4 * 15 = 60 hours / 4 units	
٧٩. Course administrator's name (mention all, if more than one name)	
Lecturer Dr. Ahmed Hamza Najam Email: dw.ahmed.h@atu.edu.iq	
٨٠. Course Objectives	
Course Objectives	1) The student knows what clinical chemistry is, its principles and its importance in the field of medicine. 2) It measures the chemical components in the human body in the laboratory.
٨١. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٨٢. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	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 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.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
2	4	Introduction to analytical chemistry - methods of expressing solution concentrations - molar concentration - standard concentration - percent concentration - methods of dilution and preparation of laboratory .solutions	Introduction to analytical chemistry - methods of expressing solution concentrations - molar concentration - standard concentration - percent concentration - methods of dilution and preparation of laboratory solutions.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

3	4	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 importance of the hydrogen concentration in the human body - the hydrogen concentration of the blood - buffer solutions - their properties and methods of preparation.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
4	4	Analytical methods used in clinical chemistry laboratories - qualitative analysis - quantitative analysis - types of quantitative analysis	Analytical methods used in clinical chemistry laboratories - qualitative analysis - quantitative analysis - types of quantitative analysis	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
5	4	Chromatography - Types of chromatography - Beer's law - Beer-Lambert's law - Standard solution	Chromatography - Types of chromatography - Beer's law - Beer-Lambert's law - Standard solution	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
6	4	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 - 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	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
7	4	Natural and unnatural components of urine - general urine analysis - clinical importance - urinary system stones and their types - and the reasons for their formation	Natural and unnatural components of urine - general urine analysis - clinical importance - urinary system stones and their types - and the reasons for their formation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

8	4	Blood vessels (arteries – veins-capillary blood vessels) properties –blood cycle (pulmonary &systemic	Blood vessels (arteries – veins-capillary blood vessels) properties – blood cycle (pulmonary &systemic	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
9	4	Blood pressure –normal value- factors effecting of blood pressure	Blood pressure –normal value- factors effecting of blood pressure	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
10	4	Respiratory system – structure –expiration – inspiration – respiratory muscles – respiratory rate.	Respiratory system – structure –expiration – inspiration – respiratory muscles – respiratory rate.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
11	4	Pulmonary volume – pulmonary ventilation – regulation of gas exchange in blood by respiration.	Pulmonary volume – pulmonary ventilation – regulation of gas exchange in blood by respiration	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
12	4	Urinary system – structure – functions	Urinary system – structure – functions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
13	4	Functions of kidneys- composition of urine – cast and stone in urine normal	Functions of kidneys- composition of urine – cast and stone in urine normal	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory
14	4	Ear and eye (structure and functions(	Ear and eye (structure and functions(	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

15	4	Skin (Define , Structures , Functions)	Skin (Define , Structures , Functions)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and discussion of medical cases Practical exam in the laboratory

٨٣. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
٨٤. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Clinical Chemistry/Mohamed Fathi Al-Hawari/Technical Education Authority General Chemistry / Saeeba Abdullah - Hanaa Salman - Maysoon Suleiman / Technical Education Authority
Main references (sources)	Clinical chemistry binding/Mohamed Ramzi Al-Omari/Technical Education Authority
Recommended books and references (scientific journals, reports...)	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.
Electronic References, Websites	

Course Description Form

٨٥. Course Name:
Arabic Language
٨٦. Course Code:
ATU11011108
٨٧. Semester / Year:

Semester first / 1st year
٨٨. Description Preparation Date:
18/10/2025
٨٩. Available Attendance Forms:
Direct
٩٠. Number of Credit Hours (Total) / Number of Units (Total)
2 * 15 = 30 hours / 2 units
٩١. Course administrator's name (mention all, if more than one name)
Assist. Lec. Adnan Hameed Yassen Email: adnan.yaseen.idi1@atu.edu.iq
٩٢. Course Objectives

Course Objectives	• The student must be able to deal with a computer, be familiar with its use, and understand how to use its software.

٩٣. Teaching and Learning Strategies	
Strategy	• Delivering lectures using modern presentation methods • Direct questions, transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics

٩٤. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to linguistic errors	Introduction to linguistic errors	Lecture + Examples	Oral test / oral questions
2	2	Writing the letter Alif, grammar, solar and lunar letters	Rules for writing the long and short alif, and solar and lunar letters.	Lecture + Practical Training	Written exercises
3	2	The letters ض and ظ	The letters ض and ظ	Lecture + Discussion	oral test
4	2	Writing the hamza	Writing the hamza	Lecture + Writing Practice	Short written tests
5	2	punctuation marks	punctuation marks	Lecture + Exercises	Homework
6	2	Nouns and verbs, and the difference between them	Nouns and verbs, and the difference between them	Lecture + discussion	Test
7	2	Objects	Objects	Lecture + Analysis	Short quiz with short answers
8	2	Numbers	Numbers	Lecture + Practical Training	Written exercises
9	2	Applications of common linguistic errors	Applications of common linguistic errors	Practical training	Report
10	2	Applications of common linguistic errors	Applications of common linguistic errors	Practical training	Presentation

11	2	Nouns and Tanween: Meanings of Prepositions	Nouns and Tanween: Meanings of Prepositions	Lecture + Practical Training	Written test/exercise
12	2	Formal aspects of administrative discourse	Formal aspects of administrative discourse	Lecture + Case Study	Written assignment
13	2	Administrative discourse language	Administrative discourse language	Lecture + Case Study	Oral Test
14	2	Administrative discourse language	Administrative discourse language	Lecture + Discussion	Test
15	2	Examples of administrative correspondence	Examples of administrative correspondence	Lecture + Writing Practice	Final written exam

٩٥. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
٩٦. Learning and Teaching Resources	
Required textbooks (methodology, if applicable)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	

Course Description Form

٩٧. Course Name:
Human rights and democracy
٩٨. Course Code:
ATU11011109
٩٩. Semester / Year:
Semester first / 1st year
١٠٠. Description Preparation Date:
18/10/2025
١٠١. Available Attendance Forms:
Direct
١٠٢. Number of Credit Hours (Total) / Number of Units (Total)
2 * 15 = 30 hours / 2 units

١٠٣. Course administrator's name (mention all, if more than one name)	
Lec. Mohammed ghtar daiek	Email:mohammed.gdaiek.idi7@atu.edu.iq

١٠٤. Course Objectives	
Course Objectives	• The student learns about human principles, values, and rights, introduces them, and educates generations to respect and adhere to them. • Learn about general freedoms and what these freedoms are in their details

١٠٥. Teaching and Learning Strategies	
Strategy	Delivering theoretical lectures, direct questions,

١٠٦.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	**2**	Human rights - their definition - their goals	Human rights - their definition - their goals	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
2	**2**	Human rights in divine laws, with a focus on human rights in Islam	Human rights in divine laws, with a focus on human rights in Islam	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
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 (International Committee of the Red Cross - Amnesty International - Human Rights Watch - Arab Human Rights Organizations).	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
4	**2**	Human rights in the Iraqi constitutions between theory and reality - The Iraqi Constitution	Human rights in the Iraqi constitutions between theory and reality - The Iraqi Constitution	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
5	**2**	The relationship between human rights and public freedoms: • In the Universal Declaration of Human Rights • In regional charters and national constitutions	The relationship between human rights and public freedoms: • In the Universal Declaration of Human Rights • In regional charters and national constitutions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
6	**2**	Modern human rights: Economic, social, cultural, civil and political human rights	Modern human rights: Economic, social, cultural, civil and political human rights	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
7	**2**	Guarantees of respect and protection of human rights at the national and international levels.	Guarantees of respect and protection of human rights at the national and international levels.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

		The role of non-governmental organizations in respecting and protecting human rights	The role of non-governmental organizations in respecting and protecting human rights		
8	**2**	The general theory of freedoms: the origin of rights and freedoms - the project's position on declared rights and freedoms - the use of the term freedoms	The general theory of freedoms: the origin of rights and freedoms - the project's position on declared rights and freedoms - the use of the term freedoms	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
9	**2**	Equality: the historical development of the concept of equality: -The modern development of the idea of equality -Gender equality - equality between individuals according to their beliefs and race	Equality: the historical development of the concept of equality: -The modern development of the idea of equality -Gender equality - equality between individuals according to their beliefs and race	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
10	**2**	Democracy - its definition - its types	Democracy - its definition - its types	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
11	**2**	Democratic systems in the world	Democratic systems in the world	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
12	**2**	The crime of genocide	The crime of genocide	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
13	**2**	The concept of freedoms and the preservation of public freedoms: -Fundamental freedoms, intellectual freedoms, economic and social freedoms	The concept of freedoms and the preservation of public freedoms: -Fundamental freedoms, intellectual freedoms, economic and social freedoms	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
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	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
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	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

١٠٧. Course Evaluation

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

١٠٨. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Academic skills
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Second Semester – First Year

Course Description Form

١٠٩. Course Name:	
Community Health	
١١٠. Course Code:	
ATU11011201	
١١١. Semester / Year:	
Semester second / 1st year	
١١٢. Description Preparation Date:	
18/10/2025	
١١٣. Available Attendance Forms:	
Direct	
١١٤. Number of Credit Hours (Total) / Number of Units (Total)	
5 * 15 = 75 hours / 5 units	
١١٥. Course administrator's name (mention all, if more than one name)	
Lec. Anaam M. Abdel-hassan Email: abdel-hassan.dw@atu.edu.iq	
١١٦. Course Objectives	
Course Objectives	•To know the goals and strategies of the community health system. •Learn about the services and duties provided in primary health care centers •To know how to organize the family registry forms for pregnant women and children •To know the most important types of vaccines and ways to deal with them •To know health information and measures of health and illness
١١٧. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

١١٨.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	The disease, its causes, factors that affect the disease (causative, host, environment).	The disease, its causes, and factors affecting the occurrence of the disease (the epidemiological triad)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	5	Health education and its procedures	Health education and its procedures	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	5	Acute respiratory infections and their control	Acute respiratory infections and their control	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

					Practical exam in the laboratory
4	5	Nutrition and food - the basic elements of lunch and how they affect the structure, growth and development of the child - diseases of malnutrition	Nutrition and food - the basic elements of lunch and how they affect the structure, growth and development of the child - diseases of malnutrition	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	5	The concept of school health and mental health - the emergence of school health services	School health - services - goals - programs	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	5	Objectives and importance of school health - development of school health systems	Objectives and importance of school health - development of school health systems	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	5	School health strategies, services and duties	School health strategies, services and duties	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	5	Components of health, school health - conditions of the school environment - the importance of a healthy school relationship with society	Components of health, school health - conditions of the school environment - the importance of a healthy school relationship with society	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	5	Nutrition and food - the basic elements of food and how they affect the structure, growth and development of the child - diseases of malnutrition	Procedures followed in inspecting the school environment - drinking water (general conditions - drawing and analyzing models) - sanitary facilities	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	5	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 (sight, hearing, speech, and physical examination (physical disabilities)) -Primary eye and dental care)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

11	5	Prevention and control of communicable diseases. -Principles of prevention - types of prevention	Prevention and control of communicable diseases. -Principles of prevention - types of prevention	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	5	Some communicable diseases (mumps - measles - German measles)	Some communicable diseases (mumps - measles - German measles)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	5	Some sexually transmitted diseases (AIDS - viral hepatitis type B) - symptoms - prevention - treatment	Some sexually transmitted diseases (AIDS - viral hepatitis type B) - symptoms - prevention - treatment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	5	Health and disease measures - disease incidence rate - disease spread rate	Health and disease measures - disease incidence rate - disease spread rate	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	5	Health administration introduction and objectives	Objectives of health administration	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

١١٩. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
١٢٠. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Principles of community health/Nazira Hussein
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	WWW.MEDSCAPE.COM

Course Description Form

١٢١. Course Name:
Fundamentals of Nursing 2
١٢٢. Course Code:
ATU11011202
١٢٣. Semester / Year:
Semester second / 1st year

١٢٤. Description Preparation Date:
18/10/2025
١٢٥. Available Attendance Forms:
Direct
١٢٦. Number of Credit Hours (Total) / Number of Units (Total)
5 * 15 = 75 hours / 5 units
١٢٧. Course administrator's name (mention all, if more than one name)
Assist. Lec. Ali Adel Abdul Hussein Email: : ali.hussein@atu.edu.iq
١٢٨. Course Objectives

Course Objectives	• Knowledge of nursing property • Knowledge of vital signs, how to measure them, and laboratory tests • Methods of administering and storing medications • First aid

١٢٩. Teaching and Learning Strategies

Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

١٣٠.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	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 goal of blood transfusion , important notes in blood infusion .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	5	Inhalation & oxygen, method of giving oxygen, goals, nursing observations during giving oxygen .	Inhalation & oxygen, method of giving oxygen, goals, nursing observations during giving oxygen .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	5	Nasogastric feeding, nursing procedures and nursing care, gastric lavage, definition, goals, nursing care during gastric lavage	Nasogastric feeding, nursing procedures and nursing care, gastric lavage, definition, goals, nursing care during gastric lavage	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	5	Urinary catheterization, definition, goals, nursing observations, enema, definition, goals, nursing observations.	. Urinary catheterization, definition, goals, nursing observations, enema, definition, goals, nursing observations.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	5	Pre & post-operative nursing care nursing care in recovery room,	Pre & post-operative nursing care nursing care in	Giving a lecture and	Theoretical exam with papers Oral questions and

		complications after surgery (bleeding, wound contamination, embolus, constipation	recovery room, complications after surgery (bleeding, wound contamination, embolus, constipation	using explanations	Practical exam in the laboratory
6	5	First aid, goals, general principles in first aid.	‹ First aid, goals, general principles in first aid.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	5	First aid of wounds, types of wounds (open, close) wounds contamination, signs and symptoms of wound infection treatment procedures .	First aid of wounds, types of wounds (open, close) wounds contamination, signs and symptoms of wound infection treatment procedures. .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	5	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, definition, types of bleeding (arterial, venous capillary) first aid of all types of bleeding, Epitasis, definition, first aid and nursing procedures ..	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	5	First aid of shock, definition, types of shock (neurogenic, psychiatric, toxic, anaphylactic, cardiogenic.(	First aid of shock, definition, types of shock (neurogenic, psychiatric, toxic, anaphylactic, cardiogenic. .(	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	5	First aid in fractures, definition, types of fractures, signs and symptoms, complications, nursing care for patient treated by splint .	First aid in fractures, definition, types of fractures, signs and symptoms, complications, nursing care for patient treated by splint.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	5	First aid of burns, definition, types and degree of burns, complications .	First aid of burns, definition, types and degree of burns, complications .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	5	. First aid of poison and poisoning, definition, sign and symptoms, types of poisons, general	First aid of poison and poisoning, definition, sign and symptoms, types of poisons, general	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

		principles in poisoning treatment of poisoning.	principles in poisoning treatment of poisoning. .		
13	5	. 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, definition, signs and symptoms of asphyxia, drowning, definition, signs and symptoms of drowning, first aid for drowning person .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	5	First aid of cardiac arrest and respiration failure, definition of artificial respiration, types (mouth to mouth, Schafer's method .(	First aid of cardiac arrest and respiration failure, definition of artificial respiration, types (mouth to mouth, Schafer's method. .(	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	5	Cardiac arrest, signs, cardiac massage and nursing procedures during cardiac massage	Cardiac arrest, signs, cardiac massage and nursing procedures during cardiac massage.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

١٣١. Course Evaluation

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

١٣٢. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Principles of practical nursing foundations/Nazira Hussein of nursing phaeladelphia
Main references (sources)	Salwa Abbas - Principles of Nursing Foundations - Ministry of Health - Health Education Foundation 1995. -Fuerst fundamenta1
Recommended books and references (scientific journals, reports...)	Ahlam Farag, Elham Amin - Basic Principles in Nursing - Ministry of Higher Education and Scientific Research - 2986
Electronic References, Websites	

Course Description Form

١٣٣.	Course Name:
General Anatomy 2	
١٣٤.	Course Code:
ATU11011205	
١٣٥.	Semester / Year:
Semester second / 1st year	
١٣٦.	Description Preparation Date:
18/10/2025	
١٣٧.	Available Attendance Forms:
Direct	
١٣٨.	Number of Credit Hours (Total) / Number of Units (Total)
4 * 15 = 60 hours / 4 units	
١٣٩.	Course administrator's name (mention all, if more than one name)
Assist. Lec. Azhar Aziz Bahidh	Email: Azhar.bahidh@atu.edu.iq
١٤٠.	Course Objectives

Course Objectives	•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 . •Special Goals : The students will be able to : •He can correlate between the functions and the anatomy of each part of the body. •He can assist the medical doctor in diagnosis and treatment in some way , primarily and simply as necessary .

١٤١. Teaching and Learning Strategies

Strategy	• Delivering lectures using modern presentation methods, such as using the anatomy atlas 3D program • Direct questions, transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics

١٤٢.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Muscles of leg and foot	Muscles of leg and foot	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	4	Muscles of the trunk	Muscles of the trunk , muscles of the thorax (superficial and deep) , muscles of the abdomen , muscles of the back .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	4	Nervous system :brain , cerebrum , cerebellum ,	Nervous system :brain , cerebrum , cerebellum , brain stem	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	4	Spinal cord , ventricles of the brain	Spinal cord ventricles of the brain	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	4	Peripheral nervous system , cranial nerves numbers and functions	Peripheral nervous system , cranial nerves and numbers functions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	4	Spinal nerves	**Spinal nerves**	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

7	4	Autonomic nervous system , parts and functions	Autonomic nervous system , parts and functions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	4	Digestive system	Digestive system : mouth and accessories Pharynx oesophagus , stomach	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	4	Cardio- vascular system, Blood vessels in general	Cardio- vascular system, Blood vessels in general	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	4	Blood and heart	Blood and heart	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	4	Veins and arteries , systemic circulation arteries , thoracic aorta	Veins and arteries , systemic circulation arteries , thoracic aorta	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	4	Abdominal aorta and its branches	Abdominal aorta and its branches	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	4	Veins of the systemic circulation , veins of the lower limb , veins of the abdomen	Veins of the systemic circulation , veins of the lower limb , veins of the abdomen	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	4	Veins of the head and neck , applied points , veins and arteries , pulmonary circulation	Veins of the head and neck , applied points , veins and arteries , pulmonary circulation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	4	Lymphatic system and respiratory system	Lymphatic system and respiratory system	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

١٤٣. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc					
١٤٤. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			Principle of anatomy , Dr. Hani T. Al-Azawi , 4th edition , 1988.		
Main references (sources)			Principle of anatomy , Dr. Abdul-Rahman M. Abdul- Raheim & Dr. Ali K.		
Recommended books and references (scientific journals, reports...)			Basic anatomy		
Electronic References, Websites			WWW.MEDSCAPE.COM		

Course Description Form

١٤٥. Course Name:	
Physiology 2	
١٤٦. Course Code:	
ATU11011203	
١٤٧. Semester / Year:	
Semester second / 1st year	
١٤٨. Description Preparation Date:	
18/10/2025	
١٤٩. Available Attendance Forms:	
Direct	
١٥٠. Number of Credit Hours (Total) / Number of Units (Total)	
5 * 15 = 75 hours / 5 units	
١٥١. Course administrator's name (mention all, if more than one name)	
Assist. Prof. Afrah Abdel Wahed Email: Dw.afrh@atu.edu.iq	
١٥٢. Course Objectives	
Course Objectives	١- The student is able to know physiology of human body (Structure and functions) ٢- The student is able to done more clinical examination that Related with physiology
١٥٣. Teaching and Learning Strategies	
Strategy	• Direct questions • Transferring the reality of the lecture from the theoretical to the practic • Distributing students into groups to discuss specific topics

١٥٤.Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	5	Digestive system – Parts of it.	Digestive system – Parts of it.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	5	Stages of digestion (Oral , Stomach , Intestine). and digestives enzymes.	Stages of digestion (Oral , Stomach , Intestine). and digestives enzymes.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	5	Intestinal functions and absorption.	Intestinal functions and absorption.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	5	Digestive system glands (salivary glands , pancreas- Liver) structure -Functions. .	Digestive system glands (salivary glands , pancreas- Liver) structure - Functions. .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	5	Gallbladder – structures and functions	Gallbladder – structures and functions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	5	Stool formation	Stool formation	Giving a lecture and using explanations	Theoretical exam wit papers Oral questions and Practical exam in the laboratory
7&8	5	Nervous system – structure – functions Central nervous system – peripheral nervous system	Nervous system – structure – functions Central nervous system –peripheral nervous system	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	5	The brain and spinal cord	The brain and spinal cord	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10&11	5	Different area in brain which responsible for sense, movement,	Different area in brain which responsible for sense, movement,	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

		hearing, smell, taste ,sight. . .	hearing, smell, taste ,sight. . .		Practical exam in the laboratory
12&13	5	Endocrine glands (types and functions(	Endocrine glands (types and functions(	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14&1	5	Reproductive system (male and female) structure and functions	Reproductive system (male and female) structure and functions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

١٥٥. Course Evaluation

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

١٥٦. Learning and Teaching Resources

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

Course Description Form

١٥٧. Course Name:	
Medical Microbiology 2	
١٥٨. Course Code:	
ATU11011204	
١٥٩. Semester / Year:	
Semester second / 1st year	
١٦٠. Description Preparation Date:	
18/10/2025	
١٦١. Available Attendance Forms:	
Direct	
١٦٢. Number of Credit Hours (Total) / Number of Units (Total)	
5 * 15 = 75 hours / 4 units	
١٦٣. Course administrator's name (mention all, if more than one name)	
Lec. Dr. Athraa abul Ameer Abudlrab Email: athraa.abdulrab@atu.edu.iq	
١٦٤. Course Objectives	
Course Objectives	• General objectives : • Student will be able to know a simple general idea about : • Pathogenes (Bacteria, fungi, parasites and viruses), the immunity and disease prevention • Special objectives : • Student will be able to : • To diagnose some simple cases in his field work, instead of specialest, when specielest is absent. • Do some tests in the labs. • Collect, preserve and transport the pathgenic samples. • Give an advice for disease prevention and control
١٦٥. Teaching and Learning Strategies	
Strategy	• Direct questions o Transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics
١٦٦.Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Blood flagellates, Leishmania	Blood flagellates, Leishmania	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	5	Sporozoa, Plasmodium , Toxoplasma	Sporozoa, Plasmodium , Toxoplasma	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	5	Helimenthes , Taenia.	Helimenthes , Taenia.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	5	Echinococcus granulosis	Echinococcus granulosis	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	5	. Hymenolipes nana	. Hymenolipes nana	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	5	. Trematoda helminthes.	. Trematoda helminthes.	Giving a lecture and using explanations	Theoretical exam with pap Oral questions and Practical exam in the laboratory
7	5	Trepanoma ,Schistosomes	Trepanoma ,Schistosomes	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	5	Bacterial genetics	Bacterial genetics	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	5	Immunty and immune system	Immunty and immune system	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

10	5	Antibody &antigen	Antibody &antigen	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	5	Antibody &antigen reactions.	Antibody &antigen reactions.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	5	Hypersensitivity .	Hypersensitivity.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	5	. Autoimmune diseases	. Autoimmune diseases	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	5	Discussion of course material	Discussion of course material	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	5	Discussion of course material	Discussion of course material	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

١٦٧. Course Evaluation

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

١٦٨. Learning and Teaching Resources

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

Course Description Form

١٦٩. Course Name:	
Biostatic 2	
١٧٠. Course Code:	
ATU11011207	
١٧١. Semester / Year:	
Semester second / 1st year	
١٧٢. Description Preparation Date:	
18/10/2025	
١٧٣. Available Attendance Forms:	
Direct	
١٧٤. Number of Credit Hours (Total) / Number of Units (Total)	
2 * 15 = 30 hours / 2 units	
١٧٥. Course administrator's name (mention all, if more than one name)	
Assist. Lec. Mayser ilan Abaas Email: mayser.aljubouri.dw@atu.edu.iq	
١٧٦. Course Objectives	
Course Objectives	• Dealing with statistical data • Dealing with and knowing statistical and health metrics • Organizing the statistical form and health form related to daily incidents such as births, deaths, and diseases
١٧٧. Teaching and Learning Strategies	
Strategy	• Direct questions • Transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics

١٧٨.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
٢&١	2	Scientific research (the purpose of the research and what are the ambitions regarding procedures)	Scientific research (the purpose of the research and what are the ambitions regarding procedures)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
٣	2	Ethics of scientific research	Ethics of scientific research	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
٤	2	Structure of scientific research	Structure of scientific research	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
5	2	Types of statistical studies	Types of statistical studies	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
٧&٦	2	Basics of research (statistical method) -Data collection technology	Basics of research (statistical method) -Data collection technology	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

		-Data collection plan -data analysis -Testing and ethical considerations	-Data collection plan -data analysis -Testing and ethical considerations		
8&9&10	2	Preparing a questionnaire form	Preparing a questionnaire form	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
11	2	How to transcribe questionnaires and convert them into classified statistical data	How to transcribe questionnaires and convert them into classified statistical data	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
١٣&١٢	2	How to start scientific research (choosing the title, objectives, type of samples)	How to start scientific research (choosing the title, objectives, type of samples)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
14&15	2	Some applications used in scientific research	Some applications used in scientific research	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

١٧٩. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
١٨٠. 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 1981
Main references (sources)	Banderford Hill. Fundamental in Biostatistics 1975 F. Margrette -Fundamental in Public health
Recommended books and references (scientific journals, reports...)	W.DIXON and F. massey _ Introduction to statistical Analysis Paul G. Hoel _ Introduction to mathematical statistics.
Electronic References, Websites	

Course Description Form

١٨١.	Course Name:
Clinical Chemistry 2	
١٨٢.	Course Code:
ATU11011206	
١٨٣.	Semester / Year:

Semester second / 1st year
١٨٤. Description Preparation Date:
18/10/2025
١٨٥. Available Attendance Forms:
Direct
١٨٦. Number of Credit Hours (Total) / Number of Units (Total)
4*15= 60 hours / 4 units
١٨٧. Course administrator's name (mention all, if more than one name)
Lecturer Dr. Ahmed Hamza Najam Email: : dw.ahmed.h@atu.edu.iq
١٨٨. Course Objectives

Course Objectives	1) The student knows what clinical chemistry is, its principles and its importance in the field of medicine. 2) It measures the chemical components in the human body in the laboratory.

١٨٩. Teaching and Learning Strategies

Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

١٩٠.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Triglycerides - types of triglycerides - their clinical significance.	Triglycerides - types of triglycerides - their clinical significance.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	4	Proteins - protein structure - amino acids - properties of amino acids - union of amino acids to form protein - peptide bond - Zwitter ion.	Proteins - protein structure - amino acids - properties of amino acids - union of amino acids to form protein - peptide bond - Zwitter ion.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	4	. 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	. 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	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

		significance of total protein in serum			
4	4	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	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	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	4	Non-protein nitrogen compounds - their types in the human body - uric acid - the biosynthesis of uric acid - the clinical importance of uric acid - urea - the biosynthesis of urea - the clinical importance of urea	Non-protein nitrogen compounds - their types in the human body - uric acid - the biosynthesis of uric acid - the clinical importance of uric acid - urea - the biosynthesis of urea - the clinical importance of urea	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	4	Creatine - Creatine biosynthesis - Clinical significance of creatine - Creatinine - Creatinine biosynthesis - Clinical significance of creatinine - Creatinine clearance test	Creatine - Creatine biosynthesis - Clinical significance of creatine - Creatinine - Creatinine biosynthesis - Clinical significance of creatinine - Creatinine clearance test	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7&8	4	Liver function tests - liver - liver function - clinical signs of liver disease - bilirubin - biosynthesis and fate of bilirubin	Liver function tests - liver - liver function - clinical signs of liver disease - bilirubin - biosynthesis and fate of bilirubin	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	4	Jaundice - types of jaundice - pigment excretion in different cases of jaundice - liver function tests	Jaundice - types of jaundice - pigment excretion in different cases of jaundice - liver function tests	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

10	4	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 - 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	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	4	Alkaline phosphatase and acid gosgatase - properties, functions and clinical significance of each	Alkaline phosphatase and acid gosgatase - properties, functions and clinical significance of each	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	4	Amylase and lipase - properties, functions and clinical significance of each	Amylase and lipase - properties, functions and clinical significance of each	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	4	Vitamins - their classification - Vitamins (A - B - C - D) their respective functions - and their sources	Vitamins - their classification - Vitamins (A - B - C - D) their respective functions - and their sources	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	4	Hormones - nature of hormones - their functions - some important hormones and their functions and the gland producing each of them	Hormones - nature of hormones - their functions - some important hormones and their functions and the gland producing each of them	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	4	Introduction to PCR technique (Polymerase chain reaction) -	Introduction to PCR technique (Polymerase chain reaction) - definition - importance - uses	Giving a lecture and using explanations	Theoretical exam with papers

		definition - importance - uses			Oral questions and Practical exam in the laboratory

١٩١. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
١٩٢. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Clinical Chemistry/Mohamed Fathi Al-Hawari/Technical Education Authority General Chemistry / Saeeba Abdullah - Hanaa Salman - Maysoon Suleiman / Technical Education Authority
Main references (sources)	Clinical chemistry binding/Mohamed Ramzi Al-Omari/Technical Education Authority
Recommended books and references (scientific journals, reports...)	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.
Electronic References, Websites	

Course Description Form

١٩٣. Course Name:
English Language

١٩٤.	Course Code:
ATU11011208	
١٩٥.	Semester / Year:
Semester second/ 1st year	
١٩٦.	Description Preparation Date:
18/10/2025	
١٩٧.	Available Attendance Forms:
Direct	
١٩٨.	Number of Credit Hours (Total) / Number of Units (Total)
2* 13= 30 hours / 2 units	
١٩٩.	Course administrator's name (mention all, if more than one name)
Assist. Lec. Zaid fouad hashim	Email: zaid.hashim@atu.edu.iq
٢٠٠.	Course Objectives
Course Objectives	• Student will be able to accept English Language as florigen Language
٢٠١.	Teaching and Learning Strategies
Strategy	• Delivering lectures using modern presentation methods • Distributing students into groups to discuss specific topics

٢٠٢.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Medical terminology Language of medicine Medical terms	Chapter One : Medical terminology Language of medicine Medical terms Spelling of medical terms Pronunciation of medical	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
2	2	Focus on reading Vocabulary development Focus on grammar Oral skill	Chapter One : Focus on reading Vocabulary development Focus on grammar Oral skill	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
3	2	writing Pronunciation exercise	Chapter One : Focus on writing Pronunciation exercise Review exercises Self-assessment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
4	2	Suffixes Medical terms	Chapter Two : Suffixes Medical terms Suffixes Focus on reading	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
5	2	Vocabulary development	Chapter Two : Vocabulary development Focus on grammar Case report Oral communication skills	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
6	2	Pronunciation of medical terms	Chapter Two : Focus on writing Pronunciation of medical terms Review exercises Self-assessment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

7	**2**	Prefixes Medical terms	Chapter Three : Prefixes Medical terms Prefixes Focus on reading.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
8	**2**	Oral communication skills	Chapter Three : Vocabulary development Focus on grammar Oral communication skills Focus on writing	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
9	**2**	Pronunciation of medical terms	Chapter Three : Pronunciation of medical terms Review exercises Self-assessment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
10	**2**	Body structure Principal	Chapter Four : Body structure Body structure Principal body systems Planes of the body Orientation and directional terms	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
11	**2**	Body positions	Chapter Four : Body positions Body cavities Focus on reading Vocabulary development Focus on grammar	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
12	**2**	Oral communication skills	Chapter Four : Oral communication skills Focus on writing Review exercises Self-assessment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
13	**2**	Body systems Body	Chapter Five : Body systems Body systems Focus on reading Vocabulary development	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
14	**2**	grammar Oral communication skills Focus on writing	Chapter Five : Focus on grammar Oral communication skills Focus on writing	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
15	**2**	grammar Oral communication skills Focus on writing	Chapter Five : Pronunciation of medical terms Review exercises Self-assessment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

٢٠٣. Course Evaluation

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

٢٠٤. Learning and Teaching Resources

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

١. Course Name:
Computer Applications 1
٢. Course Code:
ATU11012109
٣. Semester / Year:
Semester Second / 1st year
٤. Description Preparation Date:
2024/ 10/18
٥. Available Attendance Forms:
Direct
٦. Number of Credit Hours (Total) / Number of Units (Total)
3 * 15 = 45 hours / 2 units
٧. Course administrator's name (mention all, if more than one name)
Lec. Ghadeer Ibrahem Maki Email: ghdeer.maki.idi@atu.edu.iq
٨. Course Objectives

Course Objectives	• The student must be able to deal with a computer, be familiar with its use, and understand how to use its software.

٩. Teaching and Learning Strategies

Strategy	• Delivering lectures using modern presentation methods • Direct questions, transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics

١٠. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
1	3		Introduction to Computer: Hardware and software concepts and components; Concept of computing, data and information; Applications of Information Electronics and Communication Technology (IECT); Interfacing of input and output devices and peripherals to the CPU	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	3		Computer Components: Computer Parts, Hardware Parts, Input/Output Modules, Memory Types, Basic CPU Components, Computer Ports, Personal Computer, Personal Computer (Features and Types)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	3	Computer Parts, Hardware Parts	Computer Components, Computer Parts, Hardware Parts, Input/Output Modules, Memory Types, Basic CPU Components, Computer Ports, Personal Computer, Personal Computer (Features and Types)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	3	Operating system Basics of common operating systems	Operating System and Graphical User Interface: GUI Operating system Basics of common operating systems , the user interface , using mouse techniques	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	3	using mouse technique	Operating System and Graphical User Interface: GUI Operating system Basics of common	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

			operating systems , the user interface , using mouse techniques		Practical exam in the laboratory
6	3	Word processing basics	Word processing : Word processing basics ; Basic features of word processors , opeining and closing documents , text creation and manipulation ; formatting text and paragraphs, using Templets for documents creation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	3	creating and managing tables	Word processing (Cont.) creating and managing tables , utilizing styles and themes , spell check and grammer tools , using Headers and footers.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	3	Introduction to Spreadsheet software	Speed sheet : Introduction to Spreadsheet software ,creating and formatting worksheets , sorting and filtering Data , using formulas and functions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	3	Spread a Sheet (Cont.): using formulas and function ,	Spread a Sheet (Cont.): using formulas and function , using Pivot Tables for Data Analysis , Data Visualization : creating Charts and Graphs	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	3	Presentation software	Presentation software : introduction to presentation software , Overview of popular presentation tools , creating a new presentation , using templets and themes , inserting and formatting text and images , transition and animation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	3	Using speaker Notes and times , Advanced Features	Presentation software(Cont.): Using speaker Notes and times , Advanced Features : Hyperlinks and Action Buttons , troubleshooting common Presentation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

			Issues , Future Trends in Presentation Technology.		
12	3	Computer networks Basic	Introduction to Internet and Web Browsers (Cont.) : Computer networks Basic ; LAN , WAN , Concept of internet and its Applications ; connecting to Internet .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	3		Introduction to Internet and Web Browsers (Cont.): World wide Web ; Web Browsing software search Engines ; understanding URL ; Domain name ; IP Address.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	3	: Basics of Electronics mail	Communication and Emails : Basics of Electronics mail , Getting an email account ; sending and receiving emails , Accessing sent emails ; Using Emails ; Documents collaboration .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	3	Definition of Cloud computing and its concept , Cloud	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 , Google meet .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

١١. Course Evaluation

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

١٢. Learning and Teaching Resources

Required textbooks (curricular books, if any)	- الخضر علي الخضر بحاث ، (اساسيات الحاسوب) ٢٠١٦ - الدكتور عادل عبد النور ، مدخل الى عالم الذكاء الاصطناعي " ٢٠٠٥" -
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

First Semester

Second Year

Course Description Form

٢٠٥.	Course Name:
Pharmacology 1	
٢٠٦.	Course Code:
ATU11012107	
٢٠٧.	Semester / Year:
Semester first / 2nd year	
٢٠٨.	Description Preparation Date:
18/10/2025	
٢٠٩.	Available Attendance Forms:
Direct	
٢١٠.	Number of Credit Hours (Total) / Number of Units (Total)
4 * 15 = 60 hours / 4 units	
٢١١.	Course administrator's name (mention all, if more than one name)
Lec. Dr. Raghda Saad Mohammed	Email: raghda.mohammed@atu.edu.iq
٢١٢.	Course Objectives
Course Objectives	• Basic science of pharmacology • The activity of drugs • Absorption and excretion of drug Dose and dosage form • Toxicology, toxins, poisoning with metals.
٢١٣.	Teaching and Learning Strategies
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٢١٤.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	4	Introduction and General definition of pharmacology	Introduction and General definition of pharmacology (Pharmacology, Pharmacy, Pharmacist, Dose Concentration)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2,3 & 4	4	Infections&drugs	Infections: - Antibacterial, antiviral, antifungal, 4ntiprotozoal, antihelmenthic drugs	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٥	4	Nutritian: Electrolytes, intravenous fluids	Nutritian: Vitanins parantreal Electrolytes, intravenous fluids nutritions,	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

					Practical exam in the laboratory
٦	4	Corticosteroids drugs	Corticosteroids drugs	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٧	4	Non-Steroidal anti-inflammatory drugs	Non-Steroidal anti-inflammatory drugs	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٤ 9	4	Cardiovascular system drugs Digitalis and cardiac glycosides, Diuretics, Badrenoreceptors, blocking,	Cardiovascular system drugs Digitalis and cardiac glycosides, Diuretics, Badrenoreceptors, blocking,	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
& 11	4	Gastrointestinal tract drugs	Gastrointestinal tract drugs Antacids, antispasmodics , drugs , Heeling peptic and D. ulcer , Antidiarrhoeal, Laxatives, Rectal and colonic drugs, drug act , intestinal secretions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
& 13	4	Respiratory system Bronchodilators , corticosteraides , Allergic disorders, respiratory stimulants,Mucolytics , anti tussives and expectorant, Nasal decongestants	Respiratory system Bronchodilators , corticosteraides , Allergic disorders, respiratory stimulants,Mucolytics , anti tussives and expectorant, Nasal decongestants	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
& 15	4	Endocrine:- Drug used in diabetes Hyperglycemia drugs,	Endocrine:- Drug used in diabetes , hypoglycemia , Pituitary harmones , thyroide and anti thyroide drugs , 2 orticosteroids , female sex hormones , male sex hormone and anti androgens , anabolic steroide Hyperglycemia drugs, otherandocrine hyper lipidemia drugs.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٢١٥. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
٢١٦. Learning and Teaching Resources	
Required textbooks (curricular books, if ar	Mycek, M .J. ; Harvey R.A. and Champe , P.C. (1997).Lippencott's Ilustrated Reviews: Pharmacology.(2nd ed.). Lippincott-Raven, Philadel phia New York .
Main references (sources)	Laurence, D.R. ; Bennett , P.N. and Brown, M.J.(1997).Clinical pharmacology. New York ; London : Churchill Livingston
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

٢١٧.	Course Name:
Medicine & Surgery 1	
٢١٨.	Course Code:
ATU11012102	
٢١٩.	Semester / Year:
Semester first /2nd year	

٢٢٠.	Description Preparation Date:
18/10/2025	
٢٢١.	Available Attendance Forms:
Direct	
٢٢٢.	Number of Credit Hours (Total) / Number of Units (Total)
6 * 15 = 90 hours / 6 units	
٢٢٣.	Course administrator's name (mention all, if more than one name)
٢٢٤.	
Lec. Dr. Rami S. Owaid	Email: rami.owaid@atu.edu.iq
٢٢٥.	Course Objectives
Course Objectives	• General ; The Student Will be able how treat simple cases • Special ; The Student Will be able to give blood & injection • The Student Will be able to dress Wound . • The Student Will be able to measure blood pressure , pulse ,Temperature .
٢٢٦.	Teaching and Learning Strategies
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٢٢٧.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	6	Diphtheria (Medicine) + Head injury (Surgery)	Diphtheria (Medicine) + Head injury (Surgery)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٢	6	Whooping Cough , Mumps (M) + Meningeal injury (S)	Whooping Cough , Mumps (M) + Meningeal injury (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٣	6	Typhoid (M) + face injury (S)	Typhoid (M) + face injury (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٤	6	Measles, German Measles ,small pox (M) + surgical mouth (S), corona virus infections	Measles, German Measles ,small pox (M) + surgical mouth (S), corona virus infections	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٥	6	Infection of mouth and tongue (M) + surgical tongue (S)	Infection of mouth and tongue (M) + surgical tongue (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٦	6	Gastritis and peptic ulcer (M) + gum ulcer (S)	Gastritis and peptic ulce (M) + gum ulcer (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

					Practical exam in the laboratory
7	6	Jaundice (M) + tonsillitis (S)	Jaundice (M) + tonsillitis (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	6	Heart failure (M)) + esophagus ca. (S)	Heart failure (M)) + esophagus ca. (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9 & 10	6	Myocardial infarction and angina (M)	Myocardial infarction and angina (M)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١١	6	Ca. stomach , ca. intestine (S)	Ca. stomach , ca. intestine (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٢	6	Hypertension (M) + appendicitis (S)	Hypertension (M) + appendicitis (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٣	6	Congenital heart disease (M) + intestinal obstruction (S)	Congenital heart disease (M) + intestinal obstruction (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٤	6	14 Pneumonia (M) + liver abscess (S)	14 Pneumonia (M) + liver abscess (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٥	6	Asthma (M) + liver injury (S	Asthma (M) + liver injury (S	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٢٢٨. Course Evaluation

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

٢٢٩. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Surgical internal medicine specialist Dr. Fawaz Al-Khalidi 1- Davidsons by Davidson 2- Harrison text book of medicine by Harrison 3-Clinical methods by Hatschison 2- Internal Surgical Nursing - Written by Fayza Boulos.

	1- General surgery by;Baily and love
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

٢٣٠. Course Name:
Community Health
٢٣١. Course Code:
ATU11012103
٢٣٢. Semester / Year:
Semester first / 2nd year
٢٣٣. Description Preparation Date:
18/10/2025
٢٣٤. Available Attendance Forms:
Direct
٢٣٥. Number of Credit Hours (Total) / Number of Units (Total)
5 * 15 = 75 hours / 5 units
٢٣٦. Course administrator's name (mention all, if more than one name)
Lec. Anaam Mohammed Abdel Al-Hassan

Email: abdel-hassan.dw@atu.edu.iq	
٢٣٧. Course Objectives	
Course Objectiv	• The student will be able to learn about community health concepts and related techniques. • Special: The student will be able to: 1. To learn about the components of public health and health education. 2. To know how to organize forms for pregnant women and children at the family registrar. 3. To know the importance of nutrition 4. To become familiar with health information and standards of health and disease.
٢٣٨. Teaching and Learning Strategies	
Strategy	• 1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٢٣٩.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	Definition of health and disease: - Pathological causes. - The epidemiological triad	Definition of health and disease: - Pathological causes. - The epidemiological triad	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2,3&4	5	- community Health 3- Maternal and childhood care	- community Health 3- Maternal and childhood care	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	5	4- Health education	4- Health education	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	5	5- Nutrition	5- Nutrition	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7&8	5	6- Environmental health: Objectives of environmental health - air pollution - Water pollution	6- Environmental health: Objectives of environmental health - air pollution - Water pollution	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9&10	5	7- Medical waste (classification, methods of handling, and method of disposal). 8- Waste and its types	7- Medical waste (classification, methods of handling, and method of disposal). 8- Waste and its types	Giving a lecture and using explanations	Theoretical exam wi papers Oral questions and Practical exam in the laboratory

		- Disposal of liquid and solid waste	- Disposal of liquid and solid waste		
11	5	9- The concept of disability A - People with physical disabilities B - The mentally disabled	9- The concept of disability A - People with physical disabilities B - The mentally disabled	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	5	10- Rehabilitation: - Meaning of rehabilitation - Types of rehabilitation	10- Rehabilitation: - Meaning of rehabilitation - Types of rehabilitation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	5	11- Control of infectious diseases (communicable diseases)	11- Control of infectious diseases (communicable diseases)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	5	12- Non-communicable diseases	12- Non-communicable diseases	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	5	13 - Vital statistics - The general method of health research. Births and deaths information	13 - Vital statistics - The general method of health research. Births and deaths information	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٢٤٠. Course Evaluation

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

٢٤١. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1- Ministry of Health - Health Oversight Guide 2012-2013 2- Public Health Law No. 89 of 1981 3- Law No. 54 of 2001 (Eighth Amendment to the Public Health Law) 4- Food Regulation No. 29 of 1982
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

٢٤٢.	Course Name:
Health &Occupational Safety 1	
٢٤٣.	Course Code:
ATU11012104	
٢٤٤.	Semester / Year:
Semester first /2nd year	
٢٤٥.	Description Preparation Date:
18/10/2025	
٢٤٦.	Available Attendance Forms:
Direct	
٢٤٧.	Number of Credit Hours (Total) / Number of Units (Total)
5* 15 = 75 hours / 5 units	
٢٤٨.	Course administrator's name (mention all, if more than one name)
Lec. Dr. Ahmed Hamza Najam	Email: dw.ahmed.h@atu.etu.iq
٢٤٩.	Course Objectives
Course Objectiv	• At the end of the academic year, the student will be able to get acquainted with • the public • Special health inspection programs and concepts -:- The student will be able to: • A - To become familiar with the foundations, rules and requirements for the success of the inspection process • B - To determine the health conditions and specifications that must be legally available in stores • Subject to health supervision
٢٥٠.	Teaching and Learning Strategies

Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٢٥١.Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
١	5	Chapter One (Principles of Occupational Health and Safety) The concept of occupational health and safety and its goals	Chapter One (Principles of Occupational Health and Safety) The concept of occupational health and safety and its goals	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٢	5	Occupational health and safety in Iraq	Occupational health and safety in Iraq	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٣	5	Occupational health and safety and its relationship to productivity	Occupational health and safety and its relationship to productivity	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	5	Physical hazards (natural)	Physical hazards (natural)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	5	Noise and vibrations	Noise and vibrations	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	5	Temperature, humidity, and air speed	Temperature, humidity, and air speed	Giving a lecture and using explanations	Theoretical exam wi papers Oral questions and Practical exam in the laboratory
7	5	Lighting, radiation and its types	Lighting, radiation and its types	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8&9	5	Air pressure and electricity	Air pressure and electricity	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

10&11	5	Chemical hazards Gases Vapors And dust	Chemical hazards Gases Vapors And dust	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	5	Biological hazard and infectious diseases Psychological factors	Biological hazard and infectious diseases Psychological factors	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	5	Mechanical hazards	Mechanical hazards	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	5	Chapter Three (Industrial Toxins) Introduction to toxicology (definition of poison - the way it enters the body, its interactions inside the body, and ways of excreting it from the body)	Chapter Three (Industrial Toxins) Introduction to toxicology (definition of poison - the way it enters the body, its interactions inside the body, and ways of excreting it from the body)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	5	Heavy metal poisoning (lead, mercury, chromium)	Heavy metal poisoning (lead, mercury, chromium)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٢٥٢. Course Evaluation

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

٢٥٣. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Encyclopedia of Occupational Health and Safety (ILO), Geneva 1990, Part Two Iraqi Labor Law No. 37 of 2015
Recommended books and references (scientific journals, reports...)	Occupational health and safety book 2015 Occupational Safety and Health Administration book 2009
Electronic References, Websites	

Course Description Form

٢٥٤. Course Name:	
Epidemiology 1	
٢٥٥. Course Code:	
ATU11012105	
٢٥٦. Semester / Year:	
Semester first / 2nd year	
٢٥٧. Description Preparation Date:	
18/10/2025	
٢٥٨. Available Attendance Forms:	
Direct	
٢٥٩. Number of Credit Hours (Total) / Number of Units (Total)	
4 * 15 = 60 hours / 4 units	
٢٦٠.Course administrator's name (mention all, if more than one name)	
Assist. Lec. Roaa Abid Jaythoom Email: Roaa.jaythoom@atu.edu.iq	
٢٦١. Course Objectives	
Course Objectives	• The student will be able to become familiar with the concepts of epidemiology and the techniques related to it. • The student will be able to: • Private:- • .1. To learn about how diseases occur and how infectious diseases are transmitted and controlled. .2. To learn how to analyze the occurrence of epidemics. • .3. To know the pathogens • 4. To learn about calculating the spread of diseases and calculating the different rates of diseases and deaths
٢٦٢. Teaching and Learning Strategies	
Strategy	1- Theoretical lectures and the use of modern scientific methods in presenting lecture (data show) 2- Practical application of theoretical vocabulary 3- Practical training in hospitals
٢٦٣.Course Structure	

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

1	4	- Types of epidemiology, Factors that control the infection process	Introduction to epidemiology. - Types of epidemiology, goals - basics - general strategies Factors that control the infection process	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	4	Study of epidemiology, measures of disease, factor Risk in epidemiology	General definitions used in the study of epidemiology, measures of disease, factor Risk in epidemiology	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	4	The epidemiological triad has its importance and applications	The epidemiological triad has its importance and applications Factors of disease occurrence (personality - place - time).	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	4	Transmissible and non-transmissible diseases and the factors that control the infection process	Transmissible and non-transmissible diseases and the factors that control the infection process	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	4	Methods of prevention and control of communicable diseases	Methods of prevention and control of communicable diseases	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6&7	4	General immunity - herd immunity and the factors that determine immunity levels in human body Vaccines (types - preservation - preparation).	General immunity - herd immunity and the factors that determine immunity levels in human body Vaccines (types - preservation - preparation).	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8&9	4	basic steps of epidemiological monitoring	Epidemiological investigation and monitoring (basic steps of epidemiological monitoring) Types of epidemiological studies - Methods of investigating epidemic diseases	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	4	The administrative division of health prevention departments in the Ministry of Health and the mechanism of work in field of prevention	The administrative division of health prevention departments in the Ministry of Health and the mechanism of work in field of prevention	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

			- Immediate news form for communicable diseases		
11	4	Measles - German measles - mumps	Measles - German measles - mumps	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	4	Tuberculosis - polio	Tuberculosis - polio	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	4	Diphtheria - whooping cough - tetanus	Diphtheria - whooping cough - tetanus	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	4	Hepatitis	Hepatitis	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	4	Typhoid fever - Malta fever	Typhoid fever - Malta fever	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٢٦٤. Course Evaluation

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

٢٦٥. Learning and Teaching Resources

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

Course Description Form

٢٦٦. Course Name:	
Environmental health	
٢٦٧. Course Code:	
ATU11012106	
٢٦٨. Semester / Year:	
Semester first / 2nd year	
٢٦٩. Description Preparation Date:	
18/10/2025	
٢٧٠. Available Attendance Forms:	
Direct	
٢٧١. Number of Credit Hours (Total) / Number of Units (Total)	
4 * 15 = 60 hours / 4 units	
٢٧٢. Course administrator's name (mention all, if more than one name)	
Lec.Malath Ismaeel Yousif	Email : malath.yousif.idi435@atu.edu.iq
٢٧٣. Course Objectives	
Course Objective	• The student will be able to identify the most important interfacial components and their sources of contamination. • Specific objective: The student will be able to: 1- Learn about water, soil and air pollution in cities and the method of treating pollutants. 2 - Treating all industrial waste. 3- Treatment of ground and surface water. 4- Identify global environmental problems and heat emissions.
٢٧٤. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary Practical training in hospitals

٢٧٥.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Environmental health and environmental types	1- Environmental health (The concept of environmental health - goals and strategies - types of environment).	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	4	2 - Components of the environment 3- Environmental pollutants	2 - Components of the environment 3- Environmental pollutants	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3&4	4	air pollution	air pollution	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

5&6	4	Water pollution	Water pollution	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	4	Soil contamination	Soil contamination	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8&9	4	Drainage of waste and waste	Drainage of waste and waste	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	4	Medical waste	Medical waste	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	4	Sewage water treatment	Sewage water treatment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	4	Environment and Food Foodborne diseases Food preservation	Environment and Food Foodborne diseases Food preservation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	4	Control of insects and rodents	Control of insects and rodents	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	4	Radioactive pollution	Radioactive pollution	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٥	4	how to improve the environment	how to improve the environment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٢٧٦. Course Evaluation

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

٢٧٧. Learning and Teaching Resources

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

Course Description Form

٢٧٨.	Course Name:
Health Inspection 1	
٢٧٩.	Course Code:
ATU11012101	
٢٨٠.	Semester / Year:
Semester first / 2nd year	
٢٨١.	Description Preparation Date:
18/10/2025	
٢٨٢.	Available Attendance Forms:

Direct
٢٨٣. Number of Credit Hours (Total) / Number of Units (Total)
6 * 15 = 90 hours / 4 units
٢٨٤. Course administrator's name (mention all, if more than one name)
Assist. Lec. Aymen Rashad Ayyal Email: ayman.ayal.idi14@atu.edu.iq
٢٨٥. Course Objectives

Course Objectiv	• Objectives of the course: - At the end of the academic year, the student will be able to recognize •the public • Special health inspection programs and concepts -:- The student will be able to: • A - To become familiar with the foundations, rules and requirements for the success of the inspection process • B - To determine the health conditions and specifications that must be legally available in stores • Subject to health supervision
٢٨٦. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٢٨٧.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	6	The concept of health control, foundations, rules, objectives and requirements of the health inspection process	The concept of health control, foundations, rules, objectives and requirements of the health inspection process	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	6	The divisions and units of the Public Health Department and their duties, and the basic procedures for following up on health conditions	The divisions and units of the Public Health Department and their duties, and the basic procedures for following up on health conditions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	6	Food system, extracts from the Public Health Law	Food system, extracts from the Public Health Law	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	6	General conditions, conditions for granting health leave, conditions that must be met by the leave holder and the workers	General conditions, conditions for granting health leave, conditions that must be met by the leave holder and the workers	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	6	Special conditions, including hotels, rest houses, public cafes, casinos, family parks, and	Special conditions, including hotels, rest houses, public cafes, casinos, family parks,	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

		shops selling coffee and travel tea.	and shops selling coffee and travel tea.		
6	6	Ovens, bakeries and pastries, food and beverage preparation and serving shops	Ovens, bakeries and pastries, food and beverage preparation and serving shops	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	6	Shops that prepare and sell service ice cream, and shops that sell individual home food supplies	Shops that prepare and sell service ice cream, and shops that sell individual home food supplies	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	6	Stores selling meat, dairy, eggs, and animal products (wholesale), stores selling red meat, poultry and their products.	Stores selling meat, dairy, eggs, and animal products (wholesale), stores selling red meat, poultry and their products.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	6	Stores selling ready-made food and drinks, stores selling wholesale and individual river and sea fish, sherbet, juice and ready-made food.	Stores selling ready-made food and drinks, stores selling wholesale and individual river and sea fish, sherbet, juice and ready-made food.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	6	Barber and beauty salons, coffee grinding and selling shops, live chicken shops	Barber and beauty salons, coffee grinding and selling shops, live chicken shops	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	6	The role of fitness	The role of fitness	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	6	Food industry laboratory, food additives	Food industry laboratory, food additives	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	6	Food safety (food fraud)	Food safety (food fraud)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	6	Food supplies factory, food appetizers factory	Food supplies factory, food appetizers factory	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	6	Sweets factory, Al-Rashi production factory	Sweets factory, Al-Rashi production factory	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

					Practical exam in the laboratory

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

٢٨٩. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	1- The Iraqi Ministry of Health - Health Oversight Guide 2012-2013 2- Public Health Law No. 89 of 1981 and its amendments 3- Law No. 54 of 2001 (Eighth Amendment to the Public Health Law) 4- Food Regulation No. 29 of 1982
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

١٣. Course Name:
Crimes of the Baath Regime in Iraq
١٤. Course Code:
ATU11012108
١٥. Semester / Year:
Semester first / 2nd year
١٦. Description Preparation Date:
18/10/2025
١٧. Available Attendance Forms:
Direct
١٨. Number of Credit Hours (Total) / Number of Units (Total)
٢ * 15 = ٣٠ hours / ٢ units
١٩. Course administrator's name (mention all, if more than one name)
Lec. Dr. Humam Hatem Kareem Email: hammam.karim@atu.edu.iq
٢٠. Course Objectives

Course Objectives	• The student will be able to identify the most prominent crimes committed by the former regime.

٢١. Teaching and Learning Strategies	
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show)

٢٢. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	٢	The concept of crimes and their types	First - Definition of crime in language and terminology Second - Types of crimes Third - Types of international crimes	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
2	٢	Decisions issued by the Supreme Criminal Court	The most prominent crimes considered by the Iraqi Supreme Criminal Court	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
3	٢	Psychological and social crimes, their effects and the most prominent violations of the Baathist regime in Iraq	First - Psychological crimes Second - Mechanisms of psychological crimes Third - Effects of psychological crimes	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
4	٢	Social crimes	First - Militarization of Society Second - The Baathist Regime's Position on Religion	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
5	٢	Violations of Iraqi laws	Pictures of human rights violations and crimes of power	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
6	٢	Some decisions of the political and military violations of the Baath regime	Baath regime prisons and detention centers	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
7	٢	Environmental crimes of the Baath regime in Iraq	War and radioactive pollution of the Baath regime in Iraq 1-Basra 2-Halabja	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
8	٢	Destruction of cities and villages (scorched earth policy)	First - Bombing cities and villages Second - Bombing holy shrines, mosques and Husayniyat Third - Battle of Jasim River Fourth - Burning oil wells	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
9	٢	Drying the marshes	Effects of draining marshes	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

10	٢	Destruction of palm groves, trees and crops	The effects of the destruction of palm groves, trees and crops	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
11	٢	Mass grave crimes	First - Definition of mass graves Second - The events of 1963 and their relationship to mass graves	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
12	٢	Events from 1979-2003 and their relation to mass graves	١- The events of the Iran-Iraq war and their relationship to mass graves ٢- The events of 1983 and their relationship to mass graves ٣- The events of 1987-1988 and their relationship to mass graves ٤ -The events of the 1991 popular uprising and their relationship to mass graves	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
13	٢	Chronological classification of genocide graves in Iraq for the period 1963-2003	1- Genocide graves dating back to the events of 1963 2- Genocide graves committed by the defunct Baath regime during the period 1979-2003	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
14	٢	Genocide graves related to the Iran-Iraq war	Barzani Kurds Genocide Graves	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
15	٢	Genocide graves of the victims of the Anfal massacre	Genocide graves of the victims of the 1991 Shaaban uprising	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

٢٣. Course Evaluation

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

٢٤. Learning and Teaching Resources

Required textbooks (curricular books, if any)	The curriculum of the crimes of the defunct Baath Party 2023/ Ministry of Higher Education and Scientific Research
Main references (sources)	
Recommended books and references (scientific journals, reports...)	

Electronic References, Websites	

٢٥. Course Name:					
Computer Applications 2					
٢٦. Course Code:					
ATU11012109					
٢٧. Semester / Year:					
Semester Second / ٢nd year					
٢٨. Description Preparation Date:					
18/10/2025					
٢٩. Available Attendance Forms:					
Direct					
٣٠. Number of Credit Hours (Total) / Number of Units (Total)					
3 * 15 = 45 hours / 2 units					
٣١. Course administrator's name (mention all, if more than one name)					
Lec. Ghdeer Ibrahem Maki Email: ghdeer.maki.idi@atu.edu.iq					
٣٢. Course Objectives					
Course Objectives	• The student must be able to deal with a computer, be familiar with its use, and understand how to use its software.				
٣٣. Teaching and Learning Strategies					
Strategy	• Delivering lectures using modern presentation methods • Direct questions, transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics				
٣٤. Course Structure					
Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**

1	3		Introduction to Computer: Hardware and software concepts and components; Concept of computing, data and information; Applications of Information Electronics and Communication Technology (IECT); Interfacing of input and output devices and peripherals to the CPU	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	3		Computer Components: Computer Parts, Hardware Parts, Input/Output Modules, Memory Types, Basic CPU Components, Computer Ports, Personal Computer, Personal Computer (Features and Types)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	3	Computer Parts, Hardware Parts	Computer Components, Computer Parts, Hardware Parts, Input/Output Modules, Memory Types, Basic CPU Components, Computer Ports, Personal Computer, Personal Computer (Features and Types)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	3	Operating system Basics of common operating systems	Operating System and Graphical User Interface: GUI Operating system Basics of common operating systems , the user interface , using mouse techniques	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	3	using mouse technique	Operating System and Graphical User Interface: GUI Operating system Basics of common operating systems , the user interface , using mouse techniques	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	3	Word processing basics	Word processing : Word processing basics ; Basic features of word processors , opeining and closing documents ,	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

			text creation and manipulation ; formatting text and paragraphs, using Templets for documents creation		
7	3	creating and managing tables	Word processing (Cont.) creating and managing tables , utilizing styles and themes , spell check and grammer tools , using Headers and footers.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	3	Introduction to Spreadsheet software	Speed sheet : Introduction to Spreadsheet software ,creating and formatting worksheets , sorting and filtering Data , using formulas and functions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	3	Spread aSheet (Cont.): using formulas and function ,	Spread aSheet (Cont.): using formulas and function , using Pivot Tables for Data Analysis , Data Visualization : creating Charts and Graphs	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	3	Presentation software	Presentation software : introduction to presentation software , Overview of popular presentation tools , creating a new presentation , using templets and themes , inserting and formatting text and images , transition and animation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	3	Using speaker Notes and times , Advanced Features	Presentation software(Cont.): Using speaker Notes and times , Advanced Features : Hyperlinks and Action Buttons , troubleshooting common Presentation Issues , Future Trends in Presentation Technology.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	3	Computer networks Basic	Introduction to Internet and Web Browsers (Cont.) : Computer networks Basic ; LAN , WAN , Concept of internet and its	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

			Applications ; connecting to Internet .		
13	3		Introduction to Internet and Web Browsers (Cont.): World wide Web ; Web Browsing software search Engines ; understanding URL ; Domain name ; IP Address.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	3	: Basics of Electronics mail	Communication and Emails : Basics of Electronics mail , Getting an email account ; sending and receiving emails , Accessing sent emails ; Using Emails ; Documents collaboration .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	3	Definition of Cloud computing and its concept , Cloud	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 , Google meet .	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٣٥. Course Evaluation

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

٣٦. Learning and Teaching Resources

Required textbooks (curricular books, if any)	- الخضر علي الخضر بحاث ، (اساسيات الحاسوب) ٢٠١٦ - الدكتور عادل عبد النور ، مدخل الى عالم الذكاء الاصطناعي " ٢٠٠٥" -
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Second Semester

Second year

Course Description Form

٣٧.	Course Name:
Pharmacology 2	
٣٨.	Course Code:
ATU11012206	
٣٩.	Semester / Year:
Semester second / 2nd year	
٤٠.	Description Preparation Date:
18/10/2025	
٤١.	Available Attendance Forms:
Direct	
٤٢.	Number of Credit Hours (Total) / Number of Units (Total)
4* 15 = 60 hours / 4 units	
٤٣.	Course administrator's name (mention all, if more than one name)
Lec. Dr. Raghda Saad Mohammed Email: raghda.mohammed@atu.edu.iq	
٤٤.	Course Objectives
Course Objectives	Basic science of pharmacology The activity of drugs Absorption and excretion of drug Dose and dosage form Toxicology, toxins, poisoning with metals.
٤٥.	Teaching and Learning Strategies
Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٤٦. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	4	G.U.T. Uterine stimulants , uterine relaxants , Vulval and viginal disorders, Contraceptives, U.T. disorders ,	G.U.T. Uterine stimulants , uterine relaxants , Vulval and viginal disorders, Contraceptives, U.T. disorders ,	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2 & 3	4	Musculo skeletal disorders , Chronic rheumatic diseases , Treatment of gout	Musculo skeletal disorders , Chronic rheumatic diseases Treatment of gout , ، myasthenia grvis, Mascles relaxants, Rubefacients , Soft tissues inflammations.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4 & 5	4	Blood formation and coagulations drug	Blood formation and coagulations :- Iron deficiency anaemia megalobl astic anaemia , other types of anaemia anticoagulants , anti platelet , fibrinolytics anti fibrinolytics.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

6& 7	4	Emollients , antipruridics , topical Corticosteroids , Eczemaow psoriasis Acne , antibacterial ,	Skin: Emollients , antipruridics , topical Corticosteroids , Eczemaow psoriasis Acne , antibacterial , disinfectants , antifugl , Antiviral , antiparasitics , melanizing and demelanizings	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٨	4	Drugs acting on E.N.T	E.N.T. Drugs acting on E.N.T. Including antibiotics and anti inflamatory.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	4	Anti infective preparations, Anti inflammatory Eye drug	Eye: Anti infective preparations, Anti inflammatory (corticosteroids) , Mydriatcs and cycloplegics , Glaucoma, other preparations.	Giving a lecture and using explanations	Theoretical exam wi papers Oral questions and Practical exam in th laboratory
10 & 11	4	Chemo therapy and immunosuppressant:	Chemo therapy and immunosuppressant: Alkylatings , antimetabolites , enrymes , Hormones , drug alter immuneresponses.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12& 13	4	Anaesthetics: General anesthetics, preanthetics , Inhalation , local anesthetics.	Anaesthetics: General anesthetics, preanthetics , Inhalation , local anesthetics.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14 & 15	4	C.N.S. Hypnotics and axiolytics , Antipsychotics, Antidepressants , CNS stimulants ,	C.N.S. Hypnotics and axiolytics , Antipsychotics, Antidepressants , CNS stimulants ,Anorectics , antiemetics , analgesics (mild, moderate, sever pain , migraine , antiepileptics , parkinsonism, drugs used in chorea , tics. Trigeminal neuralgia	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٤٧. Course Evaluation

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

٤٨. Learning and Teaching Resources

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

Course Description Form

٤٩.	Course Name:
Medicine & Surgery 2	
٥٠.	Course Code:
ATU11012202	
٥١.	Semester / Year:

Semester second /2nd year
٥٢. Description Preparation Date:
18/10/2025
٥٣. Available Attendance Forms:
Direct
٥٤. Number of Credit Hours (Total) / Number of Units (Total)
6 * 15 = 90 hours / 6 units
٥٥. Course administrator's name (mention all, if more than one name)
Lec. Dr. Rami S. Owaid Email: rami.owaid@atu.edu.iq
٥٦. Course Objectives

Course Objectives	• General ; The Student Will be able how treat simple cases • Special ; The Student Will be able to give blood & injection • The Student Will be able to dress Wound . • The Student Will be able to measure blood pressure , pulse ,Temperature.

٥٧. Teaching and Learning Strategies

Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectu (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٥٨. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
١	6	Bronchitis (M) + cholycystitis (S)	Bronchitis (M) + cholycystitis (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٢	6	Pleural effusion (M)) + gall bladder stone (S)	Pleural effusion (M)) + gall bladder stone (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٣	6	Anemia (M) + spleen injury (S)	Anemia (M) + spleen injury (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٤	6	Leukemia (M) + pancreatitis (S) ,Hemorrhagic fever	Leukemia (M) + pancreatitis (S) ,Hemorrhagic fever	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٥	6	Lymphoma (M) + hernia (S)	Lymphoma (M) + hernia (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
٦	6	Hemophilia (M) + types of hernia (S)	Hemophilia (M) + types of hernia (S)	Giving a lecture and	Theoretical exam with papers Oral questions and

				using explanations	Practical exam in the laboratory
7	6	Glomerulonephritis (M) + tracheal obstruction (S)	Glomerulonephritis (M) + tracheal obstruction (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	6	Nephrotic syndrome and renal failure (M) + lung ca. (S)	Nephrotic syndrome and renal failure (M) + lung ca. (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9 & 10	6	Rheumatoid arthritis (M) + fracture (S)	Rheumatoid arthritis (M) + fracture (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١١	6	Gout (M) + pyelonephritis (S)	Gout (M) + pyelonephritis (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٢	6	Hyperpitutirism (M) + renal stones (S)	Hyperpitutirism (M) + renal stones (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٣	6	Thyroid gland disease (M) + bladder ca. (S)	Thyroid gland disease (M) + bladder ca. (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٤	6	Addison diseases (M) + blood transfusion (S)	Addison diseases (M) + blood transfusion (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
١٥	6	Para Thyroid gland disease (M) + hemorrhoid (S)	Para Thyroid gland disease (M) + hemorrhoid (S)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٥٩. Course Evaluation

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

٦٠. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Surgical internal medicine specialist Dr. Fawaz Al-Khalidi 1- Davidsons by Davidson 2- Harrison text book of medicine by Harrison 3-Clinical methods by Hatschison 2- Internal Surgical Nursing - Written by Fayza Boulos. 1- General surgery by;Baily and love

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

Course Description Form

٦١. Course Name:
International Health
٦٢. Course Code:
ATU11012203
٦٣. Semester / Year:
Semester first / 2nd year
٦٤. Description Preparation Date:
18/10/2025
٦٥. Available Attendance Forms:
Direct
٦٦. Number of Credit Hours (Total) / Number of Units (Total)
5 * 15 = 75 hours / 5 units
٦٧. Course administrator's name (mention all, if more than one name)
Lec. Anaam Mohammed Abdel Al-Hassan Email: abdel-hassan.dw@atu.edu.iq

٦٨.	Course Objectives
Course Objectives	• Learn about major global health challenges, programs and policies around infectious diseases. • Special -: The student will be able to:- 1- Identify the huge diversity of diseases in the world and the determinants of health and disease. 2- To analyze current and emerging global health priorities, including emerging infectious diseases, poverty, conflicts and emergencies, health inequalities, health system reforms, and major global initiatives for disease prevention and health promotion. 3- Identify international measures to limit the spread of epidemic diseases.

٦٩.	Teaching and Learning Strategies
Strategy	• 1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٧٠. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1&2	5	The concept of international health - the emergence of international health	1-International Health. The concept of international health - the emergence of international health	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	5	Global Policy for International Health.	Global Policy for International Health.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	5	Ethical issues in international health service delivery.	Ethical issues in international health service delivery.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	5	International treaties and international health diplomacy.	International treaties and international health diplomacy.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	5	Global health policy frameworks: development, economics, security, human rights.	Global health policy frameworks: development, economics, security, human rights.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	5	Eradication and elimination of diseases.	Eradication and elimination of diseases.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	5	Definition of infectious disease and what are the factors of	Definition of infectious disease and what are the factors of	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

		the epidemiological triad.	the epidemiological triad.		Practical exam in the laboratory
9	5	Methods of prevention of infectious diseases	Methods of prevention of infectious diseases	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	5	Methods of controlling infectious diseases.	Methods of controlling infectious diseases.	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	5	Vital statistics in determining the epidemiology of infectious diseases	Vital statistics in determining the epidemiology of infectious diseases	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	5	AIDS and hepatitis types A and B	AIDS and hepatitis types A and B	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	5	Pandemic influenza disease (Corona, bird and swine flu).	Pandemic influenza disease (Corona, bird and swine flu).	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	5	Hemorrhagic fever Ebola hemorrhagic disease	Hemorrhagic fever Ebola hemorrhagic disease	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	5	Malaria	Malaria	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٧١. Course Evaluation

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

٧٢. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1- Ministry of Health - Health Oversight Guide 2012-2013 2- Public Health Law No. 89 of 1981 3- Law No. 54 of 2001 (Eighth Amendment to the Public Health Law) 4- Food Regulation No. 29 of 1982
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

٧٣. Course Name:	
Health & Occupational Safety 2	
٧٤. Course Code:	
ATU11012204	
٧٥. Semester / Year:	
Semester second /2nd year	
٧٦. Description Preparation Date:	
18/10/2025	
٧٧. Available Attendance Forms:	
Direct	
٧٨. Number of Credit Hours (Total) / Number of Units (Total)	
5 * 15 = 75 hours / 5 units	
٧٩. Course administrator's name (mention all, if more than one name)	
Lec. Dr. Ahmed Hamza Najam Email: dw.ahmed.h@atu.etu.iq	
٨٠. Course Objectives	
Course Objectives	• At the end of the academic year, the student will be able to get acquainted with • the public • Special health inspection programs and concepts -:- The student will be able to: • A - To become familiar with the foundations, rules and requirements for the success of the inspection process • B - To determine the health conditions and specifications that must be legally available in stores • Subject to health supervision
٨١. Teaching and Learning Strategies	

Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

٨٢. Course Structure

Week	**Hours**	**Required Learning Outcomes**	**Unit or subject name**	**Learning method**	**Evaluation method**
١&2	5	Insecticide poisoning Poisoning by organic compounds	Insecticide poisoning Poisoning by organic compounds (organic solvents - hydrocarbons and their derivatives)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3&4	5	Work accidents and injuries) Definition of accident and injury, its causes and types	Chapter Four (Work accidents and injuries) Definition of accident and injury, its causes and types	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5&6	5	Handling and storing materials Signs and effects of safety and security	Handling and storing materials Signs and effects of safety and security	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	5	Obstacles and the role of civil defense in facilities - casualty statistics the job Chapter Five (General methods of prevention from occupational hazards)	Obstacles and the role of civil defense in facilities - casualty statistics the job Chapter Five (General methods of prevention from occupational hazards)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	5	1- Medical prevention methods A - Primary, periodic, special and rehabilitation examinations	1- Medical prevention methods A - Primary, periodic, special and rehabilitation examinations	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	5	B - First aid services at the work site C - Health and professional services at the work site (regulation And duties	B - First aid services at the work site C - Health and professional services at the work site (regulation And duties	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

10	5	Engineering prevention methods A - Locks B - Replacement C - Isolation	Engineering prevention methods A - Locks B - Replacement C - Isolation	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	5	D - Ventilation E - Monitoring the work environment (detecting and measuring pollutants in the work environment and comparing them to the recommended limits to identify an occupational health basis	D - Ventilation E - Monitoring the work environment (detecting and measuring pollutants in the work environment and comparing them to the recommended limits to identify an occupational health basis	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	5	F - General personal hygiene G - Inspection of work sites	F - General personal hygiene G - Inspection of work sites	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	5	3 - Personal protective equipment, its types, specifications and uses	3 - Personal protective equipment, its types, specifications and uses	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14&1	5	Chapter Six Age and occupational safety legislation 1- Decisions related to occupational health and safety 2- Laws 3- Systems 4 instructions	Chapter Six Age and occupational safety legislation 1- Decisions related to occupational health and safety 2- Laws 3- Systems 4 instructions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٨٣. Course Evaluation

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

٨٤. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	Encyclopedia of Occupational Health and Safety (ILO), Geneva 1990, Part Two Iraqi Labor Law No. 37 of 2015
Recommended books and references (scientific journals, reports...)	Occupational health and safety book 2015 Occupational Safety and Health Administration book 2009
Electronic References, Websites	

Course Description Form

٨٥. Course Name:	
Epidemiology 2	
٨٦. Course Code:	
ATU11012205	
٨٧. Semester / Year:	
Semester second / 2nd year	
٨٨. Description Preparation Date:	
18/10/2025	
٨٩. Available Attendance Forms:	
Direct	
٩٠. Number of Credit Hours (Total) / Number of Units (Total)	
4 * 15 = 60 hours / 4 units	
٩١. Course administrator's name (mention all, if more than one name)	
Assist. Lec. Roaa Abid Jaythoom Email: Roaa.jaythoom@atu.edu.iq	
٩٢. Course Objectives	
Course Objectives	• The student will be able to become familiar with the concepts of epidemiology and the techniques related to it. • The student will be able to: • Private:- • .1. To learn about how diseases occur and how infectious diseases are transmitted and controlled. .2. To learn how to analyze the occurrence of epidemics. • .3. To know the pathogens • 4. To learn about calculating the spread of diseases and calculating the different rates of diseases and deaths
٩٣. Teaching and Learning Strategies	
Strategy	1- Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2- Practical application of theoretical vocabulary 3- Practical training in hospitals

٩٤. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Epidemic diseases that occurred in the world,	Epidemic diseases that occurred in the world,	Giving a lecture and	Theoretical exam with papers

		their consequences, and dealing with them	their consequences, and dealing with them	using explanations	Oral questions and Practical exam in the laboratory
2	4	Vaccination against communicable diseases (regional plan)	Vaccination against communicable diseases (regional plan)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	4	Types of health prevention, environmental pollution, medical waste	Types of health prevention, environmental pollution, medical waste	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
4	4	Food poisoning (types and causes)	Food poisoning (types and causes)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	4	Encephalomyelitis	Encephalomyelitis	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	4	Cholera	Cholera	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	4	Water bags	Water bags	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	4	Malaria	Malaria	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	4	Schistosoma	Schistosoma	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10&11	4	Pandemic influenza - types and causes - Covid-19 (factors that led to the emergence of new viruses belonging to the coronavirus family).	Pandemic influenza - types and causes - Covid-19 (factors that led to the emergence of new viruses belonging to the coronavirus family).	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	4	Acquired immunodeficiency disease	Acquired immunodeficiency disease	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

					Practical exam in the laboratory
13	4	Hemorrhagic fever	Hemorrhagic fever	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	4	Chicken pox	Chicken pox	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
15	4	rabies	rabies	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

٩٥. Course Evaluation

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

٩٦. Learning and Teaching Resources

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

Course Description Form

٩٧. Course Name:	
Professional Ethics	
٩٨. Course Code:	
ATU11012207	
٩٩. Semester / Year:	
Semester second / 2nd year	
١٠٠. Description Preparation Date:	
18/10/2025	
١٠١. Available Attendance Forms:	
Direct	
١٠٢. Number of Credit Hours (Total) / Number of Units (Total)	
2 * 15 = 30 hours / 2 units	
١٠٣. Course administrator's name (mention all, if more than one name)	
Lec. Dr. Humam Hatam Kareem Email: hammam.karim@atu.edu.iq	
١٠٤. Course Objectives	
Course Objectives	• Identify the basic etiquette of professional behavior for workers in medical specialties • Private:- • Qualifying the graduate on professional behavior in dealing with his profession and achieving compatibility with himself and his professional environment • (The patient, his companions, health workers, and medical equipment)
١٠٥. Teaching and Learning Strategies	
Strategy	Theoretical lectures and the use of modern scientific methods in presenting lectures (data show)

١٠٦.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Definition of professional behavior and its practical applications	Professional behaviour - Its definition - its concept - its practical applications - the relationship between employees and their bosses - Elements of human behavior	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
2	2	Principles of professional ethics in the stages of cultural and Islamic developments. - Etiquette for dealing with patients in hospitals	Principles of professional ethics in the stages of cultural and Islamic developments. - Etiquette for dealing with patients in hospitals	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
3	2	Behavioral trends and tendencies Its definition, classification, factors	Behavioral trends and tendencies Its definition, classification, factors affecting it, and	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

		affecting it, and methods of its establishment	methods of its establishment		
4	2	Values, customs and traditions Its definition, classification, factors affecting it, and methods of its establishment	Values, customs and traditions Its definition, classification, factors affecting it, and methods of its establishment	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
5	2	Personality types, how to deal with them Definition of personality - its types - its relationships - its nature - its motivations - its explanations	Personality types, how to deal with them Definition of personality - its types - its relationships - its nature - its motivations - its explanations	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
6	2	Basic ethics for 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 for 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	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
7	2	The moral and legal rights of the patient - Moral and legal rights of workers in health and medical professions	The moral and legal rights of the patient - Moral and legal rights of workers in health and medical professions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
8	2	Behavioral dealing with the patient Receiving and dealing with the patient - and maintaining professional secrets Determine appointments for required procedures Maintaining the patient's needs	Behavioral dealing with the patient Receiving and dealing with the patient - and maintaining professional secrets Determine appointments for required procedures Maintaining the patient's needs	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
9	2	Behavioral handling of medical devices and equipment. Daily access to devices, tools and solutions - Requirements, preparing it for daily work, sustaining it, maintaining it and preserving it on her.	Behavioral handling of medical devices and equipment. Daily access to devices, tools and solutions - Requirements, preparing it for daily work, sustaining it,	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

		- Preparing the necessary medications for work and disposing of them properly	maintaining it and preserving it on her. - Preparing the necessary medications for work and disposing of them properly		
10	2	Conditions for the embodiment of mental health - Definition - Factors influencing it Role Mental health in diseases	Conditions for the embodiment of mental health - Definition - Factors influencing it Role Mental health in diseases	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
11	2	Professional compatibility and its relationship to work (its concept and conditions)	Professional compatibility and its relationship to work (its concept and conditions)	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
12	2	Occupational safety - Prevention of work risks and accidents Preventing the risks of bacterial, toxic and radioactive contamination - Preventing the risk of infection with infectious and communicable diseases - Avoid wrong practices in the field of work	Occupational safety - Prevention of work risks and accidents Preventing the risks of bacterial, toxic and radioactive contamination - Preventing the risk of infection with infectious and communicable diseases - Avoid wrong practices in the field of work	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
13	2	The humanitarian, religious and democratic dimensions of the health and medical professions	The humanitarian, religious and democratic dimensions of the health and medical professions	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
14	2	The role of the medical associate in informing and spreading health culture among members of society. Factors for effective communication between medical associates and patients Conditions necessary for the success of a medical member during his watch	The role of the medical associate in informing and spreading health culture among members of society. Factors for effective communication between medical associates and patients Conditions necessary for the success of a medical member during his watch	Giving a lecture and using explanations	Theoretical exam with papers Oral questions
١٥	2	Applications in professional behavior	Applications in professional behavior	Giving a lecture and using explanations	Theoretical exam with papers Oral questions

١٠٧. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
١٠٨. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1- Methodological books / Professional behavior - written by Dr. Adnan Shaker - Dr. Hanaa Ahmed reconcile - Dr. Abdullah Jassim
Main references (sources)	Professional Behavior of Doctors - Written by Dr. Raji Abbas Al-Tikriti
Recommended books and references (scientific journals, reports...)	Forensic Medicine and Professional Ethics - Writt by Dr. Dhia Al-Musawi 1986 A handbook on the professional behavior of doctors -5- A handbook the professional behavior of doctors - published b the Iraqi Medical Syndicate -
Electronic References, Websites	

Course Description Form

١٠٩.	Course Name:
Health Inspection 2	
١١٠.	Course Code:

١١١. Semester / Year:
Semester second / 2nd year
١١٢. Description Preparation Date:
18/10/2025
١١٣. Available Attendance Forms:
Direct
١١٤. Number of Credit Hours (Total) / Number of Units (Total)
6 * 15 = 90 hours / 4 units
١١٥. Course administrator's name (mention all, if more than one name)
Assist. Lec. Aymen Rashad Ayyal Email: ayman.ayal.idi14@atu.edu.iq
١١٦. Course Objectives

Course Objectives	• Objectives of the course: - At the end of the academic year, the student will be able to recognize •the public • Special health inspection programs and concepts -:- The student will be able to: • A - To become familiar with the foundations, rules and requirements for the success of the inspection process • B - To determine the health conditions and specifications that must be legally available in stores • Subject to health supervision

١١٧. Teaching and Learning Strategies

Strategy	1. Theoretical lectures and the use of modern scientific methods in presenting lectures (data show) 2. Practical application of theoretical vocabulary 3. Practical training in hospitals

١١٨.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	6	Ice and gypsum factor specifications	Ice and gypsum factories	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
2	6	Juice, jam and mineral water factory conditions	Juice factories, mineral and carbonated water	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
3	6	Awareness about drinking water plants and drinking water projects	Desalination and sterilization plants for drinking water and waste water projects	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

4	6	Specifications of beauty centers	Beauty centers	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
5	6	Explanation of cosmetics and detergents laboratories	Cosmetics laboratories and detergent laboratories	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
6	6	Conditions for means of transportation and preservation of materials Food	Means of transportation and preservation of materials Food	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
7	6	Conditions for public showers and swimming pools	Public showers and swimming pools	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
8	6	How to organize the work of street vendors	Organizing the work of street vendors	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
9	6	Conducting health and environmental inspections of schools	Health and environmental inspection of schools	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
10	6	Specifications of massacres	The massacres	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
11	6	Functions of bodies supporting health oversight work	Entities supporting health oversight work	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
12	6	Characteristics of sanitary landfill sites	Sanitary dumping sites	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
13	6	Critical control conditions and risk analysis	Hazard analysis and critical control points system	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory
14	6	How to pull food models	Pull food models	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and

					Practical exam in the laboratory
15	6	Explain business contexts	Business contexts	Giving a lecture and using explanations	Theoretical exam with papers Oral questions and Practical exam in the laboratory

١١٩. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
١٢٠. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	1- The Iraqi Ministry of Health - Health Oversight Guide 2012-2013 2- Public Health Law No. 89 of 1981 and its amendments 3- Law No. 54 of 2001 (Eighth Amendment to the Public Health Law) 4- Food Regulation No. 29 of 1982
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

٢٩٠. Course Name:
Arabic Language
٢٩١. Course Code:
ATU11011108
٢٩٢. Semester / Year:
Semester Second / 2nd year
٢٩٣. Description Preparation Date:
18/10/2025
٢٩٤. Available Attendance Forms:
Direct
٢٩٥. Number of Credit Hours (Total) / Number of Units (Total)

2 * 15 = 30 hours / 2 units	
٢٩٦. Course administrator's name (mention all, if more than one name)	
Assist. Lec. Adnan Hameed Yassen Email: adnan.yaseen.idi1@atu.edu.iq	
٢٩٧. Course Objectives	
Course Objectives	• The student must be able to deal with a computer, be familiar with its use, and understand how to use its software.
٢٩٨. Teaching and Learning Strategies	
Strategy	• Delivering lectures using modern presentation methods • Direct questions, transferring the reality of the lecture from the theoretical to the practical • Distributing students into groups to discuss specific topics

٢٩٩.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introduction to linguistic errors	Introduction to linguistic errors	Lecture + Examples	Oral test / oral questions
2	2	Writing the letter Alif, grammar, solar and lunar letters	Rules for writing the long and short alif, and solar and lunar letters.	Lecture + Practical Training	Written exercises
3	2	The letters ض and ظ	The letters ض and ظ	Lecture + Discussion	oral test
4	2	Writing the hamza	Writing the hamza	Lecture + Writing Practice	Short written tests
5	2	punctuation marks	punctuation marks	Lecture + Exercises	Homework
6	2	Nouns and verbs, and the difference between them	Nouns and verbs, and the difference between them	Lecture + discussion	Test
7	2	Objects	Objects	Lecture + Analysis	Short quiz with short answers
8	2	Numbers	Numbers	Lecture + Practical Training	Written exercises
9	2	Applications of common linguistic errors	Applications of common linguistic errors	Practical training	Report
10	2	Applications of common linguistic errors	Applications of common linguistic errors	Practical training	Presentation
11	2	Nouns and Tanween: Meanings of Prepositions	Nouns and Tanween: Meanings of Prepositions	Lecture + Practical Training	Written test/exercise
12	2	Formal aspects of administrative discourse	Formal aspects of administrative discourse	Lecture + Case Study	Written assignment

13	2	Administrative discourse language	Administrative discourse language	Lecture + Case Study	Oral Test
14	2	Administrative discourse language	Administrative discourse language	Lecture + Discussion	Test
15	2	Examples of administrative correspondence	Examples of administrative correspondence	Lecture + Writing Practice	Final written exam

٣٠٠. Course Evaluation

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

٣٠١. Learning and Teaching Resources

Required textbooks (methodology, if applicable)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	