

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



# **Academic Program and Course Description Guide**

**2024**

## **Introduction:**

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

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

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

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

## **Concepts and terminology:**

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

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

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

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

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

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

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

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

## Academic Program Description Form

University Name: Al-Furat Al-Awsat Technical University.

The college/Institute: Technical/Kufa

Scientific department: Department of Health Community  
Technologies

Name of the academic or professional program: diploma

Name of the final certificate: Technical Diploma

School system: courses(quarterly)

Date the description was prepared: 14 / 3/2024

File filling date: 14 / 3 /2024

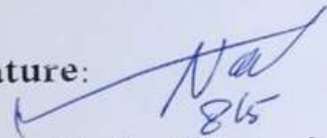
signature:



Name of head department:

Dr. Rana Ahmed Najem

signature:



Name of scientific assistant:

Assist. Prof. Nadia Abdul hadi

date:

Check the file by :

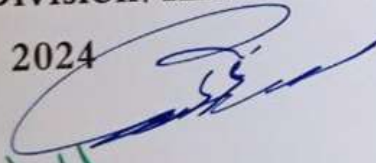
Division of Quality Assurance and University Performance

Name of the director of the Quality Assurance and University

Performance Division: Khulood Mudhaffer Abd Ali

the date 16 / 3 / 2024

the signature



Authentication of the Dean

## **1. Program Vision**

An ambitious picture for the future of the academic program to be an advanced, inspiring, motivating, realistic and applicable program

## **2. 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.

## **3. 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
- 5– Enabling the student to work within survey teams on communicable diseases and how to control them

## **4. Program Accreditation**

Program accreditation has been applied for

### 5. Other external influences

Using modern visual teaching aids

### 6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements				
College Requirements				
Department Requirements	<b>18</b>	<b>63</b>		
Summer Training		<b>2</b>		
Other				

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

### 7. Program Description

Level/Year	Course or Module Code	Course or Module Title	Credit rating
<b>First year</b>		<b>Community Health(1)</b>	<b>10</b>
		<b>Fundamentals of Nursing &amp; first aids</b>	<b>6</b>
		<b>Anatomy</b>	<b>6</b>
		<b>Physiology</b>	<b>8</b>
		<b>Microbiology</b>	<b>10</b>
		<b>Biostatic</b>	<b>6</b>
		<b>Bio chemistry</b>	<b>8</b>

		<b>Computer Applications (1)</b>	<b>6</b>
		<b>Human Rights &amp; Democratic</b>	<b>4</b>

Level/Year	Course or Module Code	Course or Module Title	Credit rating
<b>Second year</b>		<b>Community Health (2)</b>	<b>10</b>
		<b>Health Inspection</b>	<b>10</b>
		<b>Medicine &amp; Surgery</b>	<b>12</b>
		<b>Health &amp;Occupational Safety</b>	<b>8</b>
		<b>Epidemiology</b>	<b>6</b>
		<b>proposal</b>	<b>4</b>
		<b>Pharmacology</b>	<b>8</b>
		<b>Professional Ethics</b>	<b>2</b>
		<b>Computer Applications (2)</b>	<b>6</b>

<b>8. Expected learning outcomes of the program</b>	
<b>Knowledge</b>	
Lear Teaching leadership skills, the value and quality of commitment, ethical behavior and respect for others – Qualifying the student to participate in health inspection and control teams and assist in laboratory investigation of the examined samples and their conformity with health conditions.ning Outcomes 1	The ability to know the work of supervisory committees on markets  Enabling students to learn and participate in survey teams on communicable diseases and how to control them, and health awareness campaigns.
<b>Skills</b>	
Effective influence in society and the labor market through training and development	Be able to work on advanced medical devices and vaccines. Be able to perform administrative and technical work Enabling the student to operate and care for the medical equipment used and the machines used in diagnosis and treatment



programs related to specialization and at various levels.

### **Ethics**

Opening up to society in the medical fields and activating relations with the private sector in the field of pathological analyses, training and technical qualification

## **9. Teaching and Learning Strategies**

1. Graduating qualified personnel to carry out the various sections of community health work
2. Completing the largest number of applied scientific research in cooperation with relevant ministries and departments.
3. Ensuring continuous cooperation between the department and development sectors in the fields of medical consultation.

## **10. Evaluation methods**

As for the student's evaluation in the educational program, it depends entirely on oral and written examinations, noting that the passing grade is (50%) according to the following mechanism:

- 1- The grade for semester subjects is divided into two parts (40% undergraduate and 60% final). The division between practical and theoretical is shown in the table below:
- 2- 1- Study subjects of a (theoretical + practical) nature
- 3- First semester
- 4- Final grade 100% Final exam Annual pursuit First semester grade Study subject T

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<b>11. Faculty</b>						
<b>Faculty Members</b>						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
A. P. Dr	4				4	
L. Dr.	2				2	
A .L.	3				3	

<b>Professional Development</b>
<b>Mentoring new faculty members</b>
Achieve excellence in teaching and learning in community health through the development and implementation of robust educational programs and research activities, leading to enhanced healthcare services and access to all levels of students
<b>Professional development of faculty members</b>
The department adopts the dissemination of scientific and technical knowledge in the field of civil technologies to graduate national cadres at the level of education capable of absorbing modern technologies and supporting the process of scientific and technical development to keep pace with global developments and to meet the following: – 1. Openness to the community in the medical fields and activating relations with the private sector in the field of community health technologies, training and technical rehabilitation. 2. Focusing on scientific research between academics in the department and medical staff to solve problems and related to medical solutions and develop their production. 3. Graduating qualified cadres to carry out the implementation of the profession of community health technician in all health

sectors. 4. Completion of the largest number of applied scientific research in cooperation with the relevant ministries and departments.

**12. Acceptance Criterion**

Middle School Certificate / Scientific Branch / Competitive Average

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

Information network, books, brochures and publications

**14. Program Development Plan**

The objectives of the educational program are reviewed periodically every year to develop them with the developments in places where samples of work sites are visited by some teachers to observe developments and prepare the necessary recommendations for the department to reconsider the educational objectives of the academic program and make the necessary changes for that according to the developments and indicators in the study prepared by the Committee to visit work sites, taking into account not to deviate from the vision of the department.

**Program Skills Outline**

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A 1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
/First	Community Health	Basic	Basic	/	/	/	/	/	/	/	/	/	/	/	/
	Principles General Anatomy	Basic	Basic	/	/	/	/	/	/	/	/	/	/	/	/
	Computer Applications	Assistance	Assistance	/	/	/	/	/	/	/	/	/	/	/	/
	Clinical Chemistry	Assistance	Assistance												
Second	Inspection and Control	Basic	Basic												
	Ethics	Assistance	Assistance												
	Environmental Health	Assistance	Assistance												

	<b>Epidemics</b>	<b>Basic</b>	<b>Basic</b>												
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- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

## Course Description Form

1. Course Name: Health inspection and control	
2. Course Code:	
3. Semester / Year: First and second semester \2 <sup>nd</sup>	
4. Description Preparation Date: 15\3\2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total) 120\	
7. Course administrator's name (mention all, if more than one name)	
Name: Zahraa Kareem Taiban	
Email: <a href="mailto:zahraa.saad@atu.edu.iq">zahraa.saad@atu.edu.iq</a>	
8. Course Objectives	
<b>Course Objectives</b>	<p><b>General goals:</b></p> <p>At the end of the academic year, the student will be able to become familiar with the programs and concepts of health inspection</p> <p><b>Student will be able to</b></p> <p><b>Specific Objectives: The student will be able to</b></p> <p><b>A–become familiar with the foundations, rules and requirements for the success of the inspection process</b></p> <p><b>B– determine the health conditions and specifications that must legally available in stores and subject to health supervision</b></p>
9. Teaching and Learning Strategies	
<b>Strategy</b>	<p>Cooperative education strategy</p> <p>Teaching strategy brain storming</p> <p>Education strategy real-time feedback</p> <p>.Education strategy notes series</p> <p>.Education strategy by exchanging opinions and discussion</p> <p>.Education strategy by presenting information</p>

-Education strategy through training and presenting scientific developments

### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Getting to know the units of Oversight Division, the work of each unit, and the duties assigned to it	A visit to Oversight Division And get to know the units And the duties of each unit	Theoretical explanation of the laws and conducting field visits. Showing videos about some of the sites under study and discussing whether conditions are met or not	Daily, written examinations, reports, discussions
2	4	Learn how to keep records and most important administrative procedures	How to keep records And other administrative matters	=	
3	4	Enabling the student to understand the contexts of field administrative work	Work contexts	=	
4	4	Learn about the most important laws and conditions It must be available in hotels and rest houses	Hotels and rest houses	=	
5	4	Learn about the most important laws and conditions It must be available in public cafés, casinos, family parks, and stores selling coffee and travel tea	Public cafés and casinos Family parks, shops Selling coffee and travel tea	=	
6	4	Learn about the most important laws and conditions It must be available in ovens, bakeries, pastries, and shops that prepare, prepare, and serve food and beverages	Ovens, bakeries and pastries, Preparation and serving shops Food and drinks	=	
7	4	Learn about the most important laws and conditions It must be available in shops that prepare and sell service ice cream and shops that sell individual food supplies	Shops that prepare and sell service cream, and shops that sell individual home food supplies	=	
8	4	Learn about the most important laws and conditions It must be available in stores that sell meat, dairy, eggs, and animals	Meat and dairy stores Eggs and products Animals (wholesale), stores	=	

		products (in bulk) and stores of meat, poultry and their products,	selling red meat, poultry and their products		
9	4	Learn about the most important laws and conditions It must be available in stores selling ready-made food and beverages, stores selling wholesale individual river and marine fish, kiosks selling sherbet, juice, and ready-made foods	Stores selling ready-made food, drinks, shops selling wholesale individual river and marine fish, kiosks selling sherbet, juice and ready-made foods.	=	
10	4	Learn about the most important laws and conditions It must be available in barber and beauty salons, coffee grinding and selling shops, and live chicken shops	Barber and beauty salons, coffee grinding and selling shops, live chicken shops	=	
11	4	Identify the most important laws and conditions that must be met in fitness centers	Identify the most important laws and conditions that must be met in fitness centers And apply it through conducting a field visit to the site	=	
12	4	Learn about the most important laws and conditions It must be available in the food industry laboratory	Learn about most important laws and conditions It must be available in the food industry laboratory applied conducting a field visit to the site	=	
13	4	Learn about the most important laws and conditions These must be available in the food processing plant	Food processing plant	=	
14	4	Learn about the most important laws and conditions It must be available in the food appetizers factory	Food appetizers factory	=	
15	4	Learn about the most important laws and conditions Must be available in confectionery factory	Sweets factory	=	



16	4	Learn about the most important laws and conditions It must be available in the Al-Ra production plant and applied conducting a field visit to the site	Al-Rashi product plant	=	
17	4	Learn about the most important laws and conditions Must be available in ice factories	Snow factor	=	
18	4	Learn about the most important laws and conditions Must be available in chips factories	chips laboratories	=	
19	4	Learn about the most important laws and conditions It must be available in juice and j factories and applied by conducting a field visit to the site	Juice and j factories	=	
20	4	Learn about the most important laws and conditions It must be available in mineral water and soft drinks factories and applied by conducting a field visit to the site	Mineral water and soft drinks factories	=	
21	4	Learn about the most important laws and conditions It must be available in factories desalination and sterilization drinking water using a special membrane system and reverse osmosis	Water desalination and sterilization plants Drinking with a membrane system Helicity and reverse osmosis	=	
22	4	Learn about the most important laws and conditions What must be available liquefaction water projects and how to test liquefaction water	Basalt water projects	=	
23	4	Learn about the most important laws and conditions It must be available in cosmetics and detergent laboratories and applied through a field visit to the site	Beauty centers	=	
24	4	Learn about the most important laws and conditions It must be available in cosmetics and detergent laboratories and applied through a field visit to the site	Cosmetics laboratories Cosmetics and detergents factories	=	
25	4	Learn about the most important laws and conditions It must be available in the means of transport designed to transport preserve, display, sell and prepare foodstuffs	Means of transport intended for transport Preserve, display and sell	=	

			And food processing		
26	4	Learn about the most important laws and conditions Must be available in public bathrooms And apply it through conducting field visit to the site	Public bathrooms	=	
27	4	Learn about the most important laws and conditions Must be available in swimming pools And apply it through conducting field visit to the site	Swimming pools	=	
28	4	Learn about the most important laws and conditions Health and environmental standards that must be available in schools and implemented through conducting a field visit to the site	Health environmental inspection On schools	=	
29	4	Learn about the most important laws and conditions Must be available in slaughterhouses And apply it through conducting field visit to the site	Massacres	=	
30	4	Learn about the most important laws and conditions These must be available in sanitary landfill sites and applied through conducting a field visit to the site	Sanitary landfill sites	=	

## 11. Course Evaluation

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

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1- وزارة الصحة العراقية- دليل الرقابة الصحية 2012-2013 2- قانون الصحة العامة رقم 89 لسنة 1981 وتعديلاته 3- قانون رقم 54 لسنة 2001 (التعديل الثامن لقانون الصحة العامة) 4- نظم الأغذية رقم 29 لسنة 1982
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

1. Course Name:	
Biostatic 1 - Biostatic 2	
2. Course Code:	
3. Semester / Year:	
First and second semester / First stage – 2023 / 2024	
4. Description Preparation Date:	
4 / 3 / 2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total) :	
30 Hour at first semester with 4 unit 30 Hour at second semester with 4 unit	
7. Course administrator's name (mention all, if more than one name)	
Abdel Nasser Ahmed El-Sayed Ali <a href="mailto:nasserabdell66@gmail.com">nasserabdell66@gmail.com</a>	
8. Course Objectives	
Course Objectives	<p><b>General goals:</b>  <b>Processing and analyzing statistical data, reaching correct conclusions and preparing statistical forms.</b></p> <p><b>Special goal:</b>  Acquaintance:</p> <ul style="list-style-type: none"> <li>- Dealing with statistical data.</li> <li>- Dealing and knowledge of life and health statistical measures.</li> <li>- Organizing the statistical form and the health form related to daily accidents such as births, deaths and diseases.</li> <li>- Identify the types of health and medical research</li> <li>- Organizing questionnaires and how to deal with them</li> </ul>
9. Teaching and Learning Strategies	
Strategy	<p>Cooperative education strategy.  Teaching strategy brainstorming.  Education strategy collaborative concept planning.  Education strategy real time feedback  Education strategy notes series.  Education strategy by exchanging opinions and discussion.  Education strategy by presenting information.  Education strategy through training and presenting scientific developments</p>
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Learn about the statistical process from identifying the original population, how samples are selected, and how to collect data from the selected sample	Introduction to Statistics	Theoretical explanation supported by presentation Power Point	Daily, written and final exams
2	2	How to prepare the questionnaire form (unclassified data) Explanation of statistical data display methods	=	=	=
3	2	Explain how to build descriptive tables	=	=	=
4	2	Explain how to build frequency distribution tables	=	=	=
5	2	Explain graphical presentation	=	=	=
6	2	How to display tables of frequency distributions graphically (histogram - frequency polygon - frequency curve)	=	=	=
7	2	How to calculate measures of central tendency (arithmetic mean)	=	=	=
8	2	How to calculate measures of central tendency (median - mode)	=	=	=
9	2	An explanation of the concept of Biostatistics and how to calculate the ratio and rate	Biostatistics	=	=
10	2	Mortality statistics and how to calculate different mortality rates in order to improve the health situation	=	=	=
11	2	Fertility statistics and the calculation of different birth rates in order to improve the health status	=	=	=
12	2	Disease statistics and the method of calculating the rates of different diseases in order to work to improve the health situation	=	=	=
13	2	Training on how to build life tables	=	=	=
14	2	Learn about health statistics, its sources and the fields it treats	Health Statistics	=	=
15	2	Clarification of Causes of Death Statistics – Health Institutions Statistics	=	=	=
<b>Second Semester</b>					
1	2	Explain the purpose of scientific research and what are the ambitions of conducting it	Scientific research	=	=
2	2	Explanation of the ambitions of conducting scientific research	=	=	=
3	2	Explanation of the ethics of scientific research	=	=	=
4	2	Explanation of the structure of scientific research	=	=	=
5	2	The student's knowledge of the types of statistical studies	=	=	=
6	2	Training the student on data collection technology and data collection plan	=	=	=

7	2	Train the student in data analysis as well as testing and ethical considerations	=	=	=
8	2	Training on the preparation of the questionnaire form	=	=	=
9	2	Continue to train the student to prepare the questionnaire form	=	=	=
10	2	Continue to train the student to prepare the questionnaire form	=	=	=
11	2	Training the student on how to empty questionnaires and convert them into classified data	=	=	=
12	2	Training the student on how to start scientific research and how to choose the title, objectives and type of samples.	=	=	=
13	2	Continue to train the student on how to initiate scientific research and how to choose the title, objectives and type of samples	=	=	=
14		The student's knowledge of some of the applications used in scientific research	=	=	=
15		Continuing the student's knowledge of some of the applications used in scientific research	=	=	=

### 11. Course Evaluation

Distribution of the score out of 100 according to the tasks assigned to the student such as daily, monthly and written exams (Med and final)

### 12. Learning and Teaching Resources

1- Biostatistics - Dr. Abdul Khaliq Abdul Jabbar Al-Naqib - Technical Education Authority	
2- Introduction to Statistics - Dr. Khasha Mahmoud Al-Rawi - University of Mosul	
3 - Statistics in Social Sciences - Dr. Mohamed Awad Abdel Salam - Alexandria University	
4- Introduction to Health and Life Statistics - Dr. Adnan Shukri Al-Rubaie - Ministry of Health	
5- Introducing population statistics – Norma Mc Arthur .	
6- W. Dixon and F. Massey – Introduction to statistical Analysis .	
7- Banderrfort Hill, Fundament in biostistics .	

13. Course Name: Occupational Health & Safety

14. Course Code:

15. Semester / Year: First and Second Semester – Phase II – 2023–2024

16. Description Preparation Date:10/3/2024	
17.Available Attendance Forms:	
18.Number of Credit Hours (Total) / Number of Units (Total):5 unit/60	
19. Course administrator's name (mention all, if more than one name)	
Name: Thikra Ali Harb Email: thikra.harb.iku@atu.edu.iq	
20. Course Objectives	
Course Objectives	<p><b>General:</b> – At the end of the academic year, the student will be able to recognize the importance of occupational health and safety.</p> <p><b>Own:</b> – The student will be able to:</p> <p><b>A– To identify the damages suffered by workers in various facilities.</b></p> <p><b>B – To be familiar with the occupational health and safety conditions that must be met for the prevention of accidents</b></p> <p><b>Work injuries and various occupational diseases.....</b></p> <ul style="list-style-type: none"> <li>• .....</li> <li>• .....</li> </ul>
21. Teaching and Learning Strategies	
Strategy	<p>Cooperative education strategy.</p> <p>Brainstorming education strategy.</p> <p>Education strategy collaborative concept planning.</p> <p>Real-time feedback education strategy</p> <p>Education Strategy Notes Series.</p> <p>The strategy of education by exchanging views and discussing.</p> <p>Education strategy by presenting information.</p> <p>Education strategy by training and presentation of scientific developments.</p>
22. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
first	2	Enable students to understand The concept of safety and health Professionalism and history and safety responsibilities	Identify concept occupational health and safety and history.	Theoretical explanation supported practical and how to display videos.	Daily exams with assignments and reports
second and third	2	Identify occupational health and safety in Iraq and its relationship to productivity and how to increase the rate of profits and avoid injuries	Occupational health and safety in Iraq and relationship to productivity	=	=
From the fourth To the eleven	2	Understand the types of risks in different work environments and how to deal With her and ways to avoid them.	Types of risks to workers in different work environments )Physical hazards Chemical hazards Mechanical hazards	=	=
Second and thirteen	2	To recognize the types of Risks to workers in different work environments (biological hazards Electrical hazards Risks of roofing scaffolding - - - And the stairs will enable the student to know	Biological hazards Mechanical hazards	=	=

		the necessary health programs To protect resources Humanity is a disease resulting from the nature of work and its material climate.			
Fourteen	2	Students get to know each other knowingly Toxins (definition of poison - the way it enters the body and its interactions inside the body and how to excrete it outside the body)	Industrial poisons	=	=
Fifteen	2	To compare risks and methods Exposure and mechanism of action These toxins inside the body And how to prevent them	Poisoning with heavy metals such as lead, mercury and chromium	=	=
Sixteen and the seventeen	2	Pesticide poisoning Poisoning with organic compounds	To distinguish the student between different types of poisons	=	=
Eighteen and nineteen	2	Understand the types of risks in different work environments and how to deal with it and ways to avoid it.	Work accidents and injuries Definition of accident and injury and its types	=	=
20th Twenty-one	2	To know the environmental problems that the	Handling and storage of materials	=	=



		worker is exposed to and how Applying principles Occupational safety and health work	Security and safety signs		
Twenty-two	2	To analyze the environmental problems to which the worker is exposed and how Applying principles Occupational Safety and Health While working	Statistics of Work Injuries	=	=
Twenty-third	2	Clarification of primary examinations Periodic, special and rehabilitation	Medical prevention methods	=	=
Twenty-four	2	First aid application and a first aid kit	First aid service at work sites	=	=
Twenty-five	2	Explain engineering prevention methods and avoid engineering hazards such as wearing protective clothing and other	engineering prevention methods	=	=
Twenty-six	2	To analyze the environmental problems to which the worker is exposed and how Applying principles Occupational safety and health during work.	Ventilation and monitoring of the working environment	=	=

Twenty-seven	2	Students learn about the importance of inspection tours and how to provide tips	General person hygiene Inspection of Workplaces	=	=
Twenty-eighth	2	Students distinguish between protective equipment with an indication of the type of work and the best means of protection	Personal protective equipment - types - specifications - use	=	=
Twenty-nine and thirty	2	Explain the types of risks in different work environments and how to deal With her and ways to avoid her	Age and occupational safety legislation	=	=

### 23. 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

### 24. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Methodological book (Occupational Safety and Health Administration Book 2009)
Main references (sources)	Encyclopedia of Occupational Health and Safety Geneva 1990
Recommended books and references (scientific journals, reports...)	Occupational Health and Safety Book 2015
Electronic References, Websites	Google

25. Course Name: Theoretical environmental health

26. Course Code:

27. Semester / Year: First semester\ 2 <sup>nd</sup>	
28. Description Preparation Date: 5\3\2024	
29. Available Attendance Forms:	
30. Number of Credit Hours (Total) / Number of Units (Total) 30\ 4	
31. Course administrator's name (mention all, if more than one name)	
Name: Hiba Ridha Hussein Email: hiba.hussein.iku@atu.edu.iq	
32. Course Objectives	
<b>Course Objectives</b>	<u>Objectives of the course:</u> The student will be able to identify the most important environmental components and their sources of pollution <u>Specific Objective:</u> 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 their emissions.
33. Teaching and Learning Strategies	
<b>Strategy</b>	Cooperative education strategy . Teaching strategy brainstorming. Education strategy collaborative concept planning. Education strategy real-time feedback Education strategy notes series. Education strategy by exchanging opinions and discussion. Education strategy by presenting information. Education strategy through training and presenting scientific developments

34. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Introducing the student to the concept of health. The environment, and what are the health goals of the environment. Enabling the student to know the most important things. Strategies needed to reach a healthy environment. The ability to distinguish between species in different environments.	1- Environmental health (health concept, environment, goals, strategies, types of environment)	Theoretical explanation supported by videos	Daily exams, Oral and written Reports, discussions
2	2	The student should know the most important components of the environment. To be able to distinguish between environmental components. Ability to identify environmental pollutants.	2- Components of environment 3- Environmental pollutants	=	=
3	2	Identify the most important sources of air pollution. The student acquires basic concepts about methods for treating air pollution.	4- Air pollution	=	=
4	2	=	air pollution	=	=
5	2	Identify the most important sources of water pollution. The student acquires basic concepts.	5- Water pollution	=	=

		About methods treating water pollution			
6	2	=	Water pollution	=	=
7	2	Identify the most important sources of pollution in the soil. The student acquires basic concepts on methods of treating soil pollution	6- Soil pollution	=	=
8	2	The student knows methods of drainage of waste and waste. Learn how to drain waste and waste	7- Waste drainage and waste	=	=
9	2	=	Drainage of waste and waste	=	=
10	2	The student's knowledge of types of waste and requester. The student should be able to deal with medical waste and how to get rid of them	8- Medical waste	=	=
11	2	Learn about the most important treatment methods for sewage. Explain how to treat wastewater	9- Wastewater treatment and Healthy	=	=

12	2	Understanding relationship between environment and food Knowledge of foodborne diseases Learn how to preserve food	10- Environment food: foodborne diseases, Food preservation	=	=
13	2	Knowledge of the most important types of insects And rodents Teach them how to control insects Teach them how to control rodents	11- Pest control And rodents	=	=
14	2	Identify radioactive contamination And its sources Providing students with the necessary knowledge and skills on how to rid of radioactive contamination Providing students with the knowledge and skills necessary to prevent radioactive contamination	12-Radioactive contamination	=	=
15	2	Explain how to monitor the environment  Providing students with the knowledge and skills necessary to improve environment	13- How to monitor and improve the environment	=	=

### 35. 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

### 36. Learning and Teaching Resources

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

1. Course Name: Professional ethics	
2. Course Code:	
3. Semester / Year: Second semester \2 <sup>nd</sup>	
4. Description Preparation Date:5\3\2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total): 30\2	
7. Course administrator's name (mention all, if more than one name)	
Name: Hiba Ridha Hussein Email: hiba.hussein.iku@atu.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	<u>Objectives of the article:</u> Identify the basic etiquette of professional behavior for employees In medical specialties <u>Special objectives:</u> Qualifying the graduate on professional behavior dealing with his profession And achieving harmony with himself and professional environment (the patient and his companions, health workers and medical devices)
9. Teaching and Learning Strategies	
<b>Strategy</b>	Cooperative education strategy Teaching strategy brainstorming. Education strategy real-time feedback Education strategy notes series. Education strategy by exchanging opinions and discussion.

Education strategy by presenting information.  
Education strategy through training and presenting scientific developments

### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	The student's knowledge of the concept of behavior Professional. Explain the most important elements of professional behavior	- Professional behavior - Elements of human behavior	Supported theoretical explanation With examples and methods Clarification	Exams Daily, oral and written reports, discussions
2	2	Understanding the principles of professional ethics in stages Civilizational and Islamic developments Explain how to deal with the patient In hospitals	Principles of professional ethics in stages Civilizational developments And Islamic Etiquette for dealing with the patient In hospitals	=	=
3	2	Understand the meaning of trends inclinations and enable the student to Differentiate between them	-Behavioral trends and tendencies	=	=
4	2	Understand what is meant by values and customs Traditions and the distinction between them	Values, customs and traditions	=	=
5	2	Identify personality types And the general features and characteristics of each Personality and how to deal with it	Personality types, how to deal with it	=	=



6	2	Providing students with the necessary knowledge about Basic ethics of the health profession And medical	Basic ethics of the profession Health and medical	=	=
7	2	The student is familiar with the moral and legal rights of the patient and employees In the health and medical professions	Moral and legal rights For the patient - Moral and legal rights For workers in health professions And medical	=	=
8	2	Understanding the student and giving him experience necessary to deal with the patient	Behavioral dealing with the patient	=	=
9	2	Empowering students with methods And the behaviors needed to deal with Medical devices and equipment	Behavioral dealing with Medical devices and equipment	=	=
10	2	The student knows the most important conditions Necessary to embody mental health	Conditions for the embodiment of mental health	=	=
11	2	Clarifying the concept of professional compatibility And understand its concept and conditions	Professional compatibility and its relationship to work (its concept and conditions)	=	=
12	2	Introducing the student to the concept of occupational safety Its importance and how to achieve occupational safety for health workers	Occupational safety	=	=
13	2	The student's knowledge of the human dimension and religious health professions	Human and religious dimensions and democracy for the health professions And medical	=	=

14	2	Clarifying the role of the medical affiliate in spreading health culture. The student acquires basic concepts On the factors of effective communication with patients. Identify the most important necessary conditions For success while on the lookout.	- The role of the medical associate in Reporting and disseminating health culture Among community members - Factors for effective communication between medical associates and patients - Conditions necessary for success The medical member during his guard duty	=	=
15	2	Identify the most important applications of professional behavior	Applications in professional behavior	=	=

### 11. Course Evaluation

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

### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	السلوك المهني- تأليف د. عدنان شاكر – د. هناء أحمد توفيق د. عبد الله جاسم
Main references (sources)	1-الدستور الاسلامي للمهنة الطبية – وثيقة الكويت – 1981 للمم العالمي الأول – الطب الاسلامي في الكويت 2-الطب القضائي وآداب المهنة- تأليف د. ضياء الموسوي – 86 كتيب عن السلوك المهني للأطباء 3-كتيب عن السلوك المهني للأطباء – اصدار نقابة الأطباء العراقيين 1977
Recommended books and references (scientific journals, reports...)	السلوك المهني للأطباء – تأليف: د. راجي عباس التكريتي، 1970
Electronic References, Websites	

37. Course Name: Computer Applications

38. Course Code:

39. Semester / Year: first and second semester / 1<sup>st</sup> stage

40. Description Preparation Date: 5/3/2024

41. Available Attendance Forms:	
42. Number of Credit Hours (Total) / Number of Units (Total): 60/6	
43. Course administrator's name (mention all, if more than one name)	
Name: Ebtihal Aziz Mustafa Email: <a href="mailto:ebtihal.aziz.iku@atu.edu.iq">ebtihal.aziz.iku@atu.edu.iq</a>	
44. Course Objectives	
<b>Course Objectives</b>	<p><b>General goals:</b></p> <p>The goal of this course is to enable students to acquire practical skills and the ability to deal with a computer. The course includes introducing students to the hardware and software components of a computer, the types of computers and their generations, as well as the types of operating systems, including the MS-DOS operating system, and learning how to write programming commands for the system. The students also learned about the Windows operating system, its versions and advantages, how to operate the computer, how to deal with mouse buttons, using the keyboard, learning about desktop components and icons, dealing with windows, creating files and documents, and shutdown the computer, also learn about the concept of computer viruses and how to avoid infection by using anti-virus programs available within the Windows operating system environment.</p> <p><b>Special goal:</b> The student acquires knowledge in using computers and its software.</p>
45. Teaching and Learning Strategies	
<b>Strategy</b>	<p>Cooperative education strategy.</p> <p>Teaching strategy brainstorming.</p> <p>Education strategy collaborative concept planning.</p> <p>Education strategy real time feedback</p> <p>Education strategy notes series.</p> <p>Education strategy by exchanging opinions and discussion.</p> <p>Education strategy by presenting information.</p> <p>Education strategy through training and presenting scientific developments</p>
46. Course Structure	

Week	Hours (Theoretical 1 + Practical 2)	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1.	3	Computer Fundamentals Computer Concept, Computer Features Hardware Computer Components Software Computer Components	Computer Fundamentals and Components	Theoretical explanation supported by presentation and practical application	Daily examinations, oral and written discussions
2.	3	Types of computers and their classification in terms of working method, size and type of data And the development of computer generations	Computer Fundamentals and Components	=	=
3.	3	Fields of computer use and computer components manufacturing	Computer Fundamentals and Components	=	=
4.	3	MS-DOS Operating System: The concept of the Operating System - the system index - disk directories and their levels - and system files Internal Operating System Commands And External Operating System Commands	MS-DOS Operating System	=	=
5.	3	Internal operating system commands: Time - Date - Cls - Help - Exit	MS-DOS Operating System	=	=
6.	3	Internal operating system commands: RD - CD - MD	MS-DOS Operating System	=	=
7.	3	Internal operating system commands: Vol - Ver - Path - Dir	MS-DOS Operating System	=	=
8.	3	Internal operating system commands: Echo - Ren - Copy - Del	MS-DOS Operating System	=	=
9.	3	Windows Operating System: Windows Operating System Concept	Windows Operating System	=	=

		Its advantages or basic requirements for operating the system Know the type and version of Windows How to operate a computer			
10.	3	Desktop home screen components, Getting to know the Task Bar The concept of Icon, File, Folder, and Program Exit the system and Shut Down the computer	Windows Operating System Desktop Home Screen Components	=	=
11.	3	Start menu components How to deal with mouse and keyboard activities	Windows Operating System Desktop Home Screen Components	=	=
12.	3	Dealing with main desktop icons such as My Computer - My Documents - Recycle Bin, Control Panel, Network The importance and components of the Task Bar	Windows Operating System Desktop Home Screen Components	=	=
13.	3	The concept of the window and the program and identifying its main components of the window Identify the components of the My Computer window in terms of disks, folders, and files	Windows Operating System Desktop Home Screen Components	=	=
14.	3	Manage the desktop right Click menu Display desktop icons and automatic arrangement of icons Show and hide desktop icons And sort desktop icons Personalize your desktop Change desktop wallpaper Show the main icons of the desktop	Windows Operating System  Desktop right Click menu	=	=
15.	3	Create folders and files Use the rename feature Make use of copy, cut and paste files or folders	Windows Operating System	=	=

		Know the properties of files and folders and the file type (extension) of each file Delete files and folders Dealing with the Recycle Bin, how to permanently delete folders, and recover deleted folders	Desktop right Click menu		
16.	3	Manage the taskbar's right-click menu Lock and unlock the taskbar Move the taskbar up, left, right, and Click Auto-hide the taskbar and use small icons for the taskbar icons	Windows Operating System  Taskbar right Click menu	=	=
17.	3	Knowing the parts of a window and performing operations on windows such as moving or moving the window How to search for files and folders Use the Task Manager to cancel a task or program	Windows Operating System  Taskbar right Click menu	=	=
18.	3	Arrange open windows on the taskbar using specials (cascade, side-by-side and stack windows) Pin and unpin programs to the taskbar	Windows Operating System  Taskbar right Click menu	=	=
19.	3	Use the Control Panel Standard control panel view in Categories view <i>Learn about the parts of the control panel: -</i> 1) <b>System and Security:</b> Action Center Windows Firewall Windows Update System Power Options Backup 2) <b>Network and Internet:</b> Network Options, Home Group Sharing Center, and Internet Options.	Windows Operating System  Control Panel	=	=
20.	3	<i>Learn about the parts of the control panel: -</i>	Windows Operating System	=	=

		<p>3) Learn about the use of <b>user accounts</b> such as Change the name and picture of the account, create and remove a password, create an account and remove the account, as well as change the account type to a standard or administrator account</p> <p>4) <b>Appearance and personal-ization</b>, such as changing the taskbar properties and file explorer options</p>	Control Panel		
21.	3	<p><i>Learn about the parts of the control panel</i></p> <p>5) <b>Devices and sounds</b> - such as the mouse, changing the action of the mouse buttons, changing the appearance of the mouse pointer, changing the action of the mouse pointer</p> <p>6) <b>Clock &amp; Zone</b>: Set date and time and change time zone and language</p>	<p>Windows Operating System</p> <p>Control Panel</p>	=	=
22.	3	<p><i>Learn about the parts of the control panel</i></p> <p>7) <b>Software</b>: Know how to uninstall software</p> <p>8) <b>Ease of Access</b>: Ease of Access Speech Recognition Center</p>	<p>Windows Operating System</p> <p>Control Panel</p>	=	=
23.	3	<p><b>Accessories</b> It contains a group of programs that are useful to the user and are easy to use, such as:</p> <p>1) <b>Snipping tool</b>: Know how to open a tool, use the screenshot feature, and save the snippet</p> <p>2) <b>Painter</b>: Use it to create and save drawings through the commands it provides.</p>	<p>Windows Operating System</p> <p>Accessories</p>	=	=

24.	3	Accessories 3) <b>Run</b> is used to open a program, folder, document, or website. 4) <b>Calculator</b> is used to perform simple calculations	Windows Operating System  Accessories	=	=
25.	3	Accessories 5) <b>Notepad</b> is a basic text editing program that you can use to create documents. 6) <b>WordPad</b> is a text editing program that you can use to create and edit documents.	Windows Operating System  Accessories	=	=
26.	3	Accessories 7) <b>Sticky Notes</b> : Used to write a to-do list or to write notes 8) <b>Magnify</b> is used to make things on the screen easier to see	Windows Operating System  Accessories	=	=
27.	3	Accessories 9) <b>Keyboard on screen</b> displays 'on-screen keyboard' 10) <b>Recorder</b> is used to record audio and save it as an audio file on the computer. Learn how to get <b>help</b> and its different methods	Windows Operating System  Accessories	=	=
28.	3	Computer virus concept Viruses: How to get infected with viruses and the damage resulting from computer viruses Characteristics of computer viruses Components of computer viruses Methods of transmission of computer viruses	Computer Virus	=	=
29.	3	Types of viruses in terms of methods of spread Computer Antivirus Software	Computer Virus	=	=



		Install antivirus or antivirus software			
30.	3	Malware: Malware The most important steps necessary to protect against hacking and viruses	Computer Virus	=	=

#### 47. 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

#### 48. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Computer basics and office applications, Part One
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Coursera Udemy LinkedIn Learning

**Ministry of Higher Education & Scientific Research.**

**Foundation of Technical Education**

**Specializations : Medical.**

**Department: Community Health.**

Class	Hours/ week			
	Theory	Practical	Total	Total units
First	2	3	5	10

<b>Subject name</b>	<b>Language</b>	<b>Methodical Systemic book</b>
<b>Microbiology</b>	<b>Engilish</b>	<b>Medical Microbiology</b> <b>By:</b> <b>Dr. M. Al-Samak</b>

## **Objectives of the subject :**

### **General objectives :**

Student will be able to know a simple general idea about :

Pathogenic micro organisms, parasitic organisms, parasitic insects and immunity

### **Special objectives :**

Student will be able to :

- Do diagnosis for some simple cases in his field work, instead of specialest, when specielest is absent.
- Do some tests in the accidental cases.
- Collect, preserve and transport the pathgenic samples.

## **Theoretical vocabulary**

<b>Week</b>	<b>Details</b>

1	History of microbiology, site of microorganism in the world of the living & branches of microbiology.
2	Bacterial morphology, bacterial cell structure.
3	Bacterial requirement, growth curve
4	Controle of microorganisms.
5	Septic respiratory system .
6	Septic digestive system.
7	Food poisoning.
8	Contamination of hospitals .
9	General characters of fungi .
10	Fungal diseases.
11	The viruses , shapes , sizes & some viral diseases.
12	Introduction of parasites.
13	Protozoa , Entamoeba histolytica.
14	Flagellates, giardia . trichomonase .
15	Blood flagellates, leishmania.
16	Sporozoa, plasmodium , toxoplasma.
17	Helimenthes , taenia .
18	Echinococcus granulosis.
19	Hymenolipes nana
20	Trematoda helminthes .
21	Trepanoma ,schistosomes
22	Immune system , organs of immune systems.
23	Antibody &antigen .

24	Antibody & antigen reactions .
25	Hypersensitivity .
26	Autoimmune diseases.
27	Discuss the report of bacteria .
28	Discuss the report of parasite .
29	Discuss the report of fungi & viruses.
30	Discuss the report of immunity.

<b>Singulars of the practical subjects</b>	
<b>week</b>	<b>Details of the singulars</b>
1	Tools and instruments, microscope, parts of the microscope, instruments of sterilization, incubator.
2	Smear preparation from solid & liquid culture, types of bacterial staining & practical exa. For each student to prepare smear
3	Shape of bacteria .& types of culture media according to their function & solidity
4	type of bacterial cultivation& description of bacterial colonies  & practical exa.
5	General urine examination and urine culture, methods of collection of the samples, their

	cultivation in special media and sensitivity test of antibiotics.
6	Ear swab, sputum, methods of taking these samples, preservation, cultivation .
7	Methods of sterilization.
8	Cultivation of contaminated food and contaminated water in the cultural media .
9	Laboratory diagnosis of the fungi for skin scraping, hair and nail, by KOH wet mount preparation.
10	Shapes of viruses, data show presentation about shapes, methods of cultivation of these viruses and viral diseases.
11	Parasites, general stool examination and identification of non parasitic findings.& practical exa.
12	Diagnosis Entamoeba coli and Entamoeba histolytica by examination of wet mount preparation and permanent stained slides.
13	Giardia lamblia& trichomonase
14	Flagellates of the blood & tissues, leishmania
15	Blood collection by finger puncture, preparation of thin and thick blood film of malaria disease, examination of fixed slides for malaria species which are distributed in Iraq.& toxoplasma gondii
16	Tape worms : Taenia saginata and Taenia solium.
17	Intestinal nematodes: Ascaris, pin worms, Ancylostoma.

18	Schistosomosis, microscopic examination of fixed slides for eggs in urine and stool .
19	Echinococcus granulosus
20	Immunology and serology organs of the immune system.
21	Methods of blood clection, preparation of serum sample,
22	methods of vaccination,
23	Widal test and rose bengal test.
24	Serum inactivation, serological tests for diagnosis of syphilis.
25	Agglutination reaction, pregnancy test.
26	Hydatid cyst agglutination test.
27	Ring test, ouchterlony test.
28&29&30	Sensitivity test, skin test for diagnosis of the types of hyper sensitivity.

**Ministry of Higher Education and Scientific Research**

**Technical Education Institute**

**Specialty : Medical**

**Department : Community Health**

Subject	Teaching Language	Academic Year	Weekly Hours			
			Theory	practical	summation	Units No.
Anatomy تشريح	English	1 <sup>st</sup> Class	1	2	3	6

**Goals : The students can be able to understand :**

- 1- **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 .
- 2- **Special Goals :** The students will be able to :
  - a- He can correlate between the functions and the anatomy of each part of the body.
  - b- He can assist the medical doctor in diagnosis and treatment in some way , primarily and simply as necessary .

<b>Theoretical Items</b>	
<b>Week</b>	<b>Details of Items</b>
1 <sup>st</sup>	Introduction and definition of anatomy , surface anatomy of the body , anatomical position , median plane .
2 <sup>nd</sup>	Surface anatomy : planes and vertical lines
3 <sup>rd</sup>	Tissues and cells : Types of cells which form different types of tissues , e.g. : epithelial, connective , muscular, nervous tissues . etc.
4 <sup>th</sup>	Bone and joints : types of bones , functions of bones , parts of skeleton
5 <sup>th</sup>	Skeleton of upper limb : general anatomical appearance , skeleton of shoulder girdle : clavicle , scapula, humerus , radius, ulna , skeleton of the hand .
6 <sup>th</sup>	Skeleton of lower limb : general anatomical appearance, skeleton of the pelvis : hip bones : Ilium , pubis , ischium . femur. Leg :tibia, fibula. Skeleton of the foot
7 <sup>th</sup>	Trunk skeleton : thorax : sternum , ribs .
8 <sup>th</sup>	Skull : general appearance .
9 <sup>th</sup>	Cranium , lower jaw
10 <sup>th</sup>	Vertebral column : the types of vertebra of each part.

11 <sup>th</sup>	Joints : definition , types
12 <sup>th</sup>	Joints of upper and lower limb and trunk
13 <sup>th</sup>	Muscular system : types of muscles , muscles of head and face , general information
14 <sup>th</sup>	Muscles of upper limb : limbo vertebral muscles , limbo thoracic muscles , muscles of the shoulder , muscles of upper arm, muscles of hand
15 <sup>th</sup>	Muscles of the lower limb : muscles of the iliac region , muscles of the gluteal region , muscles of thigh
16 <sup>th</sup>	Muscles of leg and foot
17 <sup>th</sup>	Muscles of the trunk , muscles of the thorax (superficial and deep ) , muscles of the abdomen , muscles of the back .
18 <sup>th</sup>	Nervous system :brain , cerebrum , cerebellum , brain stem
19 <sup>th</sup>	Spinal cord , ventricles of the brain
20 <sup>th</sup>	Peripheral nervous system , cranial nerves : numbers and functions
21 <sup>st</sup>	Spinal nerves
22 <sup>nd</sup>	Autonomic nervous system , parts and functions
23 <sup>rd</sup>	Digestive system : mouth and accessories , Pharynx , oesophagus , stomach
24 <sup>th</sup>	Cardio- vascular system, Blood vessels in general
25 <sup>th</sup>	Blood and heart
26 <sup>th</sup>	Veins and arteries , systemic circulation arteries , thoracic aorta
27 <sup>th</sup>	Abdominal aorta and its branches



28 <sup>th</sup>	Veins of the systemic circulation , veins of the lower limb , veins of the abdomen
29 <sup>th</sup>	Veins of the head and neck , applied points , veins and arteries , pulmonary circulation
30 <sup>th</sup>	Lymphatic system and respiratory system

### Vocabulary Pragmatic:

Practical Items	
Week	Details of Items
1 <sup>st</sup>	anatomical position , median plane , direction and practical position , type anatomical study.
2 <sup>nd</sup>	Surface anatomy : planes and vertical lines , Surface anatomy of the abdomen
3 <sup>rd</sup>	Studying Tissues and cells by charts
4 <sup>th</sup>	Studying Bone and joints by models
5 <sup>th</sup>	Studying Skeleton of upper limb and all its parts by skeleton sample
6 <sup>th</sup>	Studying Skeleton of lower limb and all its parts by skeleton sample
7 <sup>th</sup>	Studying Trunk skeleton : thorax : sternum , ribs .
8 <sup>th</sup> & 9 <sup>th</sup>	Studying the general appearance of the Skull , and lower jaw
10 <sup>th</sup>	Studying Vertebral column : the types of vertebra of each part.
11 <sup>th</sup> & 12 <sup>th</sup>	Types of Joints , joints of upper and lower limb and trunk
13 <sup>th</sup> & 14 <sup>th</sup>	Muscular system : types of muscles , general information
15 <sup>th</sup>	Studying Muscles of the head
16 <sup>th</sup>	Muscles of upper and lower limb

17 <sup>th</sup>	Studying Muscles of the trunk , muscles of the thorax (superficial and deep muscles of the abdomen , muscles of the back using posters
18 <sup>th</sup>	Studying Nervous system :brain , cerebrum , cerebellum , brain stem using models
19 <sup>th</sup>	Spinal cord , ventricles of the brain
20 <sup>th</sup> & 21 <sup>st</sup>	Peripheral nervous system , cranial nerves : numbers and functions and Spinal nerves using charts
22 <sup>nd</sup>	Autonomic nervous system , parts and functions
23 <sup>rd</sup>	Studying Digestive system : mouth and accessories , Pharynx , oesophagus and stomach
24 <sup>th</sup>	Cardio- vascular system, Blood vessels in general using models and charts and overhead for blood slides
25 <sup>th</sup>	Blood and heart
26 <sup>th</sup> & 27 <sup>th</sup>	Veins and arteries , systemic circulation arteries , thoracic aorta and Abdominal aorta and its branches
28 <sup>th</sup> & 29 <sup>th</sup>	Veins of the systemic circulation , veins of the lower limb , veins of the abdomen , Veins of the head and neck , applied points , veins and arteries , pulmonary circulation using models and charts
30 <sup>th</sup>	Lymphatic system and respiratory system using models and charts

**References :**

- 1- Principle of anatomy , Dr. Hani T. Al-Azawi , 4<sup>th</sup> edition , 1988.
- 2- Principle of anatomy , Dr. Abdul-Rahman M. Abdul- Raheim & Dr. Ali K.

<b>week</b>	<b>Theoretical topics</b>	<b>Practical topics</b>
1	Biochemistry / cell	Laboratory glass wear
2	Blood , urine , urinary deposit	Titration of potassium permanganate Vs oxalic acid
3	electrolytes	Measuring serum coliseum level
4	carbohydrate	measuring serum chloride level
5	Types of carbohydrate , glycolysis	Spectrophotometer
6	Carbohydrate metabolism	Absorption curve
7	Protein (classification )	Standard curve
8	Properties of protein	quiz
9	lipid	Measuring serum glucose
10	Classification of lipid	Quiz
11	Carbohydrates	Unknown solution, Quiz
12	Proteins, types, normal value in body	Unknown solution, Quiz
13	Cholesterol	Measuring serum protein (albumin )
14	enzymes	Measuring serum protein (globulin )
15	Hydrolytic enzymes	
16	GPT & GOT	Quiz
17	Hormones	Measuring serum amylase
18	Adrenal hormones	Measuring serum ALP
19	Pancreatic hormones	quiz
20	Pituitary gland hormones	Measuring serum ACP
21	Vitamins	Measuring serum GOT
22	Types of vitamins	Measuring serum GPT
23	Hormones, types, normal values	Unknown solution, Quiz
24	Kidney function tests, urea, normal values	Measuring urea, Quiz
25	Kidney function test	Kidney function test ( urea )
26	Creatinine	Creatinine

27	Creatinine clearance	Liver function test
28	Liver function test	bilirubin
30. 29		

Ministry of higher education and scientific research

Technical education council

Community health department

Subject	Year of the study	Hours in week			
		Theory	Practice	Total	Units
Biochemistry كيمياء حياتية	First Year	1	3	4	8

**The project** : the students can be able to :

**General aims** : the students can be able to identify at the end of the year , the basic components of the blood , urine and measure the different components of the human body in normal cases and in cases of increment and decrement of these components

**Special aims** : the student can be able to :

- 1 . preparing some solutions which he may need in his lab after graduation
- 2 . how to collect a biological samples ( blood and urine )

Ministry of higher education & scientific research

Technical Education Council

Community health department

Subject	Year of the study	Hours in week			
		Theory	Practice	Total	Units
	First Year				

Fundamentals of nursing & first aid أساسيات التمريض وأسعافات أولية		1	2	3	6
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**Objectives of the subject:-**

**1- General objectives:**

The student able to know the general information about Nursing .

**2- Specific objective :**

- History of Nursing , Nursing , Nurse , Hospital its department , health agency in Iraq .
- Vital signs , Temperature , Respiration , Blood pressure & its methods.
- Administration of Medication as general ,& storage of drugs .
- Methods of giving O2, section the recreation from chest, Arterial respiration Mouth to Mouth.
- Normal feeding & gastric Laval.
- Physical examination & Laboratory test .
- Pre-post operative care.
- First aid & Civil defiance.
- Make practices in collection sample.
- First aid in nursing procedures in case of fractures, wounds, bleeding , burns, poisoning, shock.

<b>Weeks</b>	<b>Theory Topics</b>
First week	Fundamental of Nursing , definition (Nursing , Nurse, health, Hospital.
Second & third We.	Administration & discharge of patient from hospital, pt.chart , oral report, written of report , Nursing process.(Assessing , planning , Implementation , Evaluation ).
4,5 <sup>th</sup> weeks	Physical examination, prepare the pt. to exam, role of Nurse in physical examination , collection of sample ,prepare the equipment .
6.week	Position of patient, patient lifting and its risks.
7.8 week	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.
9.10	Method of sterilization, surgical sterilization , Medical sterilization , kind of disinfectant,  Dressing the wound , kind of sterilize of surgical equipment ,principle of Dressing & remove of stitches.
11, 12	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.

13,14	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.
15,16	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 .
17	Inhalation & oxygen, method of giving oxygen, goals, nursing observations during giving oxygen.
18	Nasogastric feeding, nursing procedures and nursing care, gastric lavage, definition, goals, nursing care during gastric lavage.
19	Urinary catheterization, definition, goals, nursing observations, enema, definition, goals, nursing observations.
20	Pre & post operative nursing care nursing care in recovery room, complications after surgery (bleeding, wound contamination, embolus, constipation).
21	First aid, goals, general principles in first aid.
22	First aid of wounds, types of wounds (open, close) wounds contamination, signs and symptoms of wound infection treatment procedures.
23	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.
24	First aid of shock, definition, types of shock (neurogenic, psychiatric, toxic, anaphylactic, cardiogenic).

25	First aid in fractures, definition, types of fractures ,signs and symptoms, complications, nursing care for patient treated by splint.
26	First aid of burns, definition, types and degree of burns, complications.
27	First aid of poison and poisoning, definition, sign and symptoms, types of poisons, general principles in poisoning treatment of poisoning.
28	First aid of asphyxia, definition, signs and symptoms of asphyxia, drowning, definition, signs and symptoms of drowning, first aid for drowning person.
29	First aid of cardiac arrest and respiration failure, definition of artificial respiration, types (mouth to mouth, Schafer's method).
30	Cardiac arrest, signs, cardiac massage and nursing procedures during cardiac massage.

**Vocabulary Pragmatic:**

Weeks	Practicle Topics
First week	Nursing process, collecting data, diagnosis, Nursing intervention , planning, &evaluating of Nursing process.
Second & third We.	Prepare of pt. chart, report information in pt. chart , making reports of pt. discharge of pt.
4,5 <sup>th</sup> weeks	Prepare the equipment of physical examination prepare the pt.to physical exam. Collect the sample of urine , sputum , feces.
6.week	Body mechanism, patient lifting.
7	Patient bath, types of baths and nursing managements, mouth and tooth nursing care.



8	Nursing care of bed ulcers and preventive methods.
9	Sterilization of surgical equipments, uses of disinfectants.
10	wounds dressing, tools used for wounds dressing, types of dressings, wounds sterilization, removing of stitches.
11	Measuring body temp. preparing tools for body temp. measurement (orally, axillary, rectally) recording temp. in patients chart, nursing care for patient with pyrexia, measuring respiration and recording the average in patient chart.
12	Taking pulse, sites of taking pulse, recording the result in patient chart, taking blood pressure and recording the result in patient chart.
13	Methods of drug administration, giving drugs orally, drug storage.
14	Drug administration by injection (IM,IV,ID, SC), nose, eyes, ears drops.
15	IV infusion, tools and equipments preparation.
16	Blood transfusion, nursing observations during blood transfusion.
17	giving oxygen, methods of giving oxygen (nasal catheter, mask, tent) nursing observations during giving oxygen .
18	Nasogastric feeding, nursing procedures and nursing care, gastric lavage, definition, goals, nursing care during gastric lavage.
19	urinary catheterization and enema (preparing equipments and nursing procedures.

20	Pre and postoperative nursing care, preparing equipments and nursing care for unconscious patient in the recovery room.
21	first aid, equipments and tools preparation.
22	First aid of wounds, nursing procedures in different types of wounds.
23	First aid of bleeding, nursing procedures for the treatment of arterial, venous, capillary bleeding and treatment of epistaxis.
24	First aid of shock, nursing procedures and nursing care.
25	First aid of fractures, nursing procedures and nursing care of fractures.
26	First aid of burns, nursing procedures and nursing care of burns.
27	First aid of poisoning, nursing procedures and nursing care of poisoning.
28	First aid of asphyxia, nursing procedures and nursing care of asphyxia.
29	First aid of respiratory failure, artificial respiration, nursing care for artificial respiration by mouth to mouth, Schafer's method.
30	Cardiac arrest, cardiac massage, nursing procedures for cardiac massage.