Description of First–Level Courses – First Semester

1. Course name:
Medical–surgical nursing
2. Course Code:
IMA 11١
3. Semester / Year:
Chapter One / ٢٠٢٥ – ٢٠٢٦
4. Date of preparing the description:
15 / 9 / 2025
5. Available Attendance Options:
My presence
6. Total credit hours / Total units
30 hours of practical work + 30 hours of theory / 4 units
7. Name of the course coordinator
Name: Hanan Hassan Jassab Email: hanan.hasan2205m@conursing.uobaghdad.edu.iq
8. Course objectives:
Getting to know general information about internal and surgical diseases. Understanding the basic needs of patients and providing complete comfort and care to meet their needs. Being able to provide nursing care for patients with digestive, respiratory, urinary system, heart, ENT, and other diseases. Preparing the student to provide nursing care in the ICU. Being able to provide nursing care for patients before and after surgeries.
9. Teaching and Learning Strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy – Concept maps - Practical field training strategy – Self-learning strategy - E-learning strategy - Studying strategy - Inference strategy – Spaced practice strategy -Switching between ideas strategy – Giving examples strategy

10. Course Structure					
Evaluation method	The way of teaching	Unit name / or topic	Required learning outcomes	The hours	week
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Definition of health - Basic needs of the patient - Reasons for the patient's discomfort - Nursing processes - Their definition - Stages - Information gathering stage - Planning stage - Implementation stage - Evaluation stage.	Students' knowledge and application of nursing and health skills	٤	The first
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Nursing care for internal and surgical digestive system diseases - Appendicitis - Definition - Signs and symptoms - Nursing care before and after surgery - Complications - Hernia, its definition and types - Signs and symptoms - Nursing care before and after surgery.	Students' knowledge and application of patient health care, especially gastrointestinal diseases	٤	The second
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Nursing care for internal and surgical digestive system diseases - Appendicitis - Definition - Signs and symptoms - Nursing care before and after surgery - Complications - Hernia, its definition and types - Signs and symptoms - Nursing care before and after surgery.	Students' knowledge and application of patient health care, especially gastrointestinal diseases	٤	The third
Reports, assignments,	The blackboard,	Nursing care for liver and gallbladder diseases -	Students' knowledge and	٤	The fourth

and both written and oral exams	PowerPoint slides, conducting lab experiments	Acute and chronic inflammation of the gallbladder - Signs and symptoms - Nursing care - Gallstones - Definition - Symptoms and signs - Nursing care before and after surgery - Types of .hepatitis -Nursing care	application of patient health care, especially liver and gallbladder diseases		
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Nursing care for internal and surgical endocrine diseases - Thyroid - Signs and symptoms - Nursing care - Diabetes - Its symptoms and signs - Its types - Dietary and medicinal treatment - Complications	Students' knowledge and application of patient health care, especially endocrine diseases	٤	Fifth
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Medical and surgical nursing care for joint and bone diseases - types of fractures - signs and symptoms - first aid - nursing care - amputation - indications for amputation - complications - nursing care before and after surgery	Students' knowledge and application of patient health care, especially joint diseases and fractures	٤	sixth
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Nursing care for internal medicine and surgery of joints and bones - types of fractures - signs and symptoms - first aid - nursing care - amputation - indications for amputation - complications - nursing care before and after surgery	Students' knowledge and application of patient health care, especially joint diseases and fractures	٤	Seventh
Reports,	The	Nursing care for medical	Students'	٤	The

assignments, and both written and oral exams	blackboard, PowerPoint slides, conducting lab experiments	and surgical cases of urinary system diseases - Introduction to the urinary system - Tests performed for the patient - Signs and symptoms of the urinary system - Renal colic - Signs and symptoms - Nursing care - Acute and chronic nephritis - Signs and symptoms - Nursing care	knowledge and application of patient health care, especially urinary system diseases		eighth
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Symptoms of acute kidney failure include: definition - assessment (medical history - evaluation of the individual's health status) - diagnostic tests - nursing care. Symptoms of chronic kidney failure include: and include definition - assessment (medical history - evaluation of the individual's health status) - diagnostic tests - nursing care	Students' knowledge and application of patient healthcare, especially for kidney-related .diseases	٤	ninth
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Kidney Dialysis: Introduction to Kidney Dialysis: Definition - Types - Diseases that lead to kidney dialysis. (A) Peritoneal Dialysis - Definition - Objectives - Nursing care for patients undergoing peritoneal dialysis (before, during, and after the procedure) - Complications that occur during peritoneal	Students' knowledge and application of patient health care, especially dialysis	٤	The tenth

		dialysis and how to manage them.			
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	(B) Blood Perfusion: Introduction to Blood Perfusion – Definition – Goals – Nursing Care. When to use arterial and venous cannulas: definition – types – benefits – sites of use – methods of application – monitoring – complications – nursing care of the cannula site. Nursing care during the blood perfusion process and while operating the device – nursing care when disconnecting the blood perfusion device from the patient – complications that occur during the blood perfusion process – recommendations given to the patient after blood perfusion.	Students' knowledge and application of patient healthcare, especially for hemodialysis patients.	٤	Eleventh
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Incidental and sudden events during blood perfusion: 1- Airway health 2- Chest pain 3- Heart rhythm disturbances 4- Electrical device malfunction 5- High blood pressure 6- Low blood pressure 7- Membrane rupture	Students' knowledge and application of patient healthcare, especially for hemodialysis patients.	٤	Twelfth
Reports, assignments,	The blackboard,	Kidney Transplant – Introduction to Kidney	Students' knowledge and	٤	Thirteenth

and both written and oral exams	PowerPoint slides, conducting lab experiments	Transplant – Definition – Goals – Nursing Care – Before Kidney Transplant – Nursing Care for the Kidney Donor Before Transplant – Nursing Care for the Patient After Kidney Transplant – Complications After Kidney Transplant and How to Manage Them – Nursing Care	application of patient health care, especially during kidney transplantation		
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Nursing care for internal and surgical hematology and lymphatic diseases - Anemia and its types - Signs and symptoms - Nursing care - Leukemia and acute and chronic blood absorption - Signs and symptoms - Nursing care	Students' knowledge and application of patient healthcare, especially for blood diseases.	٤	The fourteenth
Reports, assignments, and both written and oral exams	The blackboard, PowerPoint slides, conducting lab experiments	Internal and surgical nursing care for cardiovascular diseases – Intensive care for heart and respiratory diseases – Its concept – Nursing care in intensive care units.	Students' knowledge and application of patient healthcare, especially for heart diseases.	٤	The fifteenth

11. Course Evaluation
The grade distribution out of 100 is based on the tasks assigned to the student, such as daily preparation, daily quizzes, oral and monthly exams, written tests, reports, etc.
- The midterm exam is 40 points - The final exam is 60 points

12. Learning and Teaching Resources	
Required textbooks (curriculum books, if any)	Springhouse Corporation: Nursing Procedures "Publication Data 1992
Main References (Sources)	Nadira Hussein, Nahida Mohammed – Theoretical Internal Surgical Nursing – Technical Education Authority / Baghdad 1999.
Recommended books and references (scientific journals and reports…)	Nazira Hussein, Nahida Mohammed – Practical Internal Surgical Nursing – Technical Education Authority / Baghdad 2000.
Electronic references and websites	/

1. Course Name:
Physiology
2. Course code:
TIDO 106
3. Semester/Year:
Chapter 1 / 2025- 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Dr. Abeer Saleh Hassan Email: abeer.sa@ntu.edu.iq
8. Course Objectives:
Identifying the different body systems; Understanding the various bodily functions and physiological processes that occur within the human body; Understanding the importance of physiological processes in human nursing; Gaining experience and skills in experiments conducted to examine organ functions; Developing the ability to use medical equipment to measure organ functions.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Blood - its components - blood smear - blood volume - red blood cells - number of red blood cells - their shape - method of counting them.	Students' knowledge and application of blood and its components	٤	the first
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	White blood cells – their number – their types – normal ranges for each type – the function of white blood cells.	Students' knowledge and application of white blood cell theory and normal blood cell counts	٤	the second
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Blood clotting - Blood acidity - Blood discs and their function.	Students' knowledge and application of the blood clotting process	٤	Third
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Anemia - Types of Anemia	Students' knowledge and application of the types of anemia	٤	Fourth
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Jaundice - Types - Causes of Jaundice - Red Blood Cell Destruction	Students' knowledge and application of jaundice and its types	٤	Fifth
Whiteboard, PowerPoint slides, conducting practical	Whiteboard, PowerPoint slides, conducting practical	The cardiovascular system - An overview of the circulatory system anatomy - Anatomy of the heart -	Students' knowledge and application of circulatory system anatomy	٤	Sixth

experiments	experiments	Heart valves			
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	The position of the heart in relation to the surface of the living body - The heart as a pump - Cardiac discharge	Students' knowledge and application of the heart's location and function	٤	Seventh
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Electrocardiogram (ECG) - Heart sounds - Heart valve regions - Normal sounds	Students' knowledge and application of the electrocardiogram process	٤	Eighth
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Arterial blood pressure – Silent blood flow – Atmospheric pressure – Blood pressure measurement	Students' knowledge and application of the blood pressure measurement process	٤	Ninth
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Factors affecting blood pressure - high - low - central control of blood vessels - measurement of high blood pressure - low blood pressure	Students' knowledge and application of factors affecting blood pressure	٤	Tenth
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	The respiratory system – respiratory muscles – diaphragm – the function of the diaphragm in relation to the lungs	Students' knowledge and application of the function of the respiratory system	٤	Eleventh
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Respiratory volumes - Expiratory reserve volume - Inspiratory reserve volume - Vital capacity - Factors affecting vital capacity	Students' knowledge and application of the process of inhalation and exhalation and the factors that affect it	٤	Twelfth
Whiteboard, PowerPoint	Whiteboard, PowerPoint	Diseases that affect the efficiency of	Students' knowledge and	٤	Thirteenth

slides, conducting practical experiments	slides, conducting practical experiments	respiratory volumes – nasal function	application of the functions of the nose and the diseases that affect it		
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	Function of the alveoli - Blood acidity	Students' knowledge and application of the function of alveoli	٤	Fourteenth
Whiteboard, PowerPoint slides, conducting practical experiments	Whiteboard, PowerPoint slides, conducting practical experiments	The digestive system – mouth – pharynx. Esophagus – stomach – duodenum – small intestine – rectum	Students' knowledge and application of the function of the digestive system	٤	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- Midterm exam: 40 marks. - Final exam: 60 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Dr. Dhafer Al-Yassin - Clinical Physiology - Ministry of Health 1983
Main references (sources)	Gyton – Textbook – oxford publication London. G.h. Green basic clinical physiology oxford publication 1976
Recommended books and references (scientific journals and reports…)	Barrett KE, Barman SM, Boitano S, Brooks HL. Gaming's Review of Medical 23rd ed. McGraw Hill, physiology Boston, 2010. Drake RL, Vogl W, Mitchell AWM. Gray's Anatomy for Students. Elsevier, Philadelphia, 2005.
Electronic references and websites	/

1. Course Name:
Microbiology
2. Course code:
IMA 114
3. Semester/Year:
Chapter 1 / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: M.M. Naeel Mustafa Mohammed Email: naeelmustafa96@gmail.com
8. Course Objectives:
Identifying different microorganisms (bacteria, parasites, viruses, and fungi) and the diseases they cause. Learning various techniques for isolating bacteria from clinical samples, as well as preparing culture media and sterilization methods. Learning sterilization and disinfection methods to eliminate microorganisms. Learning methods of treating and preventing diseases. Developing the ability to diagnose bacteria, parasites, and other pathogenic microorganisms. Training students to conduct antibiotic sensitivity tests.
9. Teaching and learning strategy:
- Brainstorming strategy - Group work strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Concept mapping strategy - Field-based work training strategy - Self-learning strategy - E-learning strategy - Study strategy - Inference strategy - Spaced practice strategy - Switching ideas strategy - Providing examples strategy

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Classification of microorganisms: fungi, algae, protozoa, bacteria, mycoplasma, viruses, rickettsia	Students' knowledge and application of the classification of microorganisms	٤	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	General structure of bacteria: bacterial structure, cell wall, cell membrane capsule, protoplasm including cytoplasm and nucleus. Comparison between prokaryotic and eukaryotic cells.	Students' knowledge and application of the general structure of bacteria	٤	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Bacterial germs: Types of germs resistant to environmental conditions	Students' knowledge and application of information on types of germs resistant to environmental conditions	٤	Third
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Environmental conditions affect bacterial growth: temperature, pH, oxygen, humidity, light, osmotic pressure, and culture medium. Stages of bacterial growth: retardation phase, logarithmic phase, steady-state	Students' knowledge and application of environmental conditions affecting bacterial growth	٤	Fourth

		phase, and declining phase.			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Inhibiting bacterial growth: Sterilization and disinfection	Students' knowledge and application of physical and chemical disinfection and sterilization agents	٤	Fifth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Radiation sterilization, filtration, and chemical sterilization	Students' knowledge and application of disinfection and sterilization methods using radiation and other agents.	٤	Sixth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Medical bacteria: Staphylococcus aureus, general characteristics, toxins, treatment of pathogens.	Students' knowledge and application of Staphylococcus bacteria	٤	Seventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Streptococcus bacteria (S. viridans, S. faecalis, S. pyogenes): general structure, culture media, and pathogenicity. Streptococcus pneumoniae: general structure, diseases, and treatment.	Students' knowledge and application of information on Streptococcus bacteria	٤	Eighth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical	Neisseria group: General structure, Meningococcus, General structure, Disease. Mycobacterium: Mycobacterium	Students' knowledge and application of Neisseria bacteria	٤	Ninth

	experiments	tuberculosis species, General structure, Culture, Resistance, Culture media, Pathogen, Identification, Treatment. Mycobacterium leprae: General characteristics, Pathogenesis, Diagnosis, Treatment.			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Clostridium bacteria (anaerobic): general characteristics, Clostridium tetani: description, disease factors that promote growth in wounds, prevention and treatment.	Students' knowledge and application of anaerobic Clostridium bacteria	٤	Tenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Clostridium gas gangrene: Description, disease, treatment, food poisoning, toxins secreted in food, symptoms, treatment. Bacillus anthracis: Description, disease, treatment.	Students' knowledge and application of anaerobic Clostridium bacteria	٤	Eleventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Types of intestinal bacteria, medical importance, general characteristics, and identification of culture media. Pathogenic intestinal bacteria, Salmonella group, Salmonella typhi, Salmonella paratyphi, Salmonella typhimurium, symptoms of poisoning, and	Students' knowledge and application of information on types of intestinal bacteria	٤	Twelfth

		treatment.			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Shigella, disease, treatment, food poisoning, symptoms, volatile bacteria, description, culture media.	Students' knowledge and application of Shigella bacteria	٤	Thirteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Brucella, general diagnosis, disease, prognosis, treatment. Bordetella: description, form, culture media, disease and treatment.	Students' knowledge and application of Brucella bacteria	٤	Fourteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Cholera bacteria, general characteristics, disease, general features, treatment.	Students' knowledge and application of cholera bacteria	٤	Fifteenth

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc
- Midterm exam: 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Medical Microbiology / Dr. Mahdi Al-Sammak / Ministry of Health – 1983
Main references (sources)	Review of medical microbiology 14t Edition Tawetz, J.i melnigk, A. Adelberg 1980. Richard A. Harvey, Pamela C. Champe & Bruce D. Fisher 2007: Lippincott's Illustrated Reviews: Microbiology, 2nd edition. Lippincott Williams & Wilkins co, USA. Katherine N. Ward, A. Christine McCartney & Bishan Thakker 2009: Notes On Medical Microbiology, 2nd edition. Churchill Livingstone Elservier, UK. Marjorie Kelly Cowan & Kathleen Park Talaro 2006: Art Notebook ''Microbilogy'', 1st edition. The McGraw – Hill Companies, USA.
Recommended books and references (scientific journals and reports...)	A short text book of medical microbiology By , Satish Guptr,, Endia – 1987. Morello, Mizer & Granato 2006: Laboratory manual and Workbook in Microbiology ''Application to patient care'' , Eighth edition. The McGraw –Hill Companies Inc, USA.
Electronic references and websites	/

1. Course Name:
First aid principles
2. Course code:
IMA 110
3. Semester/Year:
Chapter 1 / 2025 − 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Ali Ammar Abdulrazzaq Email: ali368240@gmail.com
8. Course Objectives:
Providing the student with general information about first aid, its components, tools and system. Knowledge of the mechanics of injuries, external trauma, bleeding and its types, epilepsy and its types and its causes. Enabling the student to know the symptoms and signs of cardiac arrest, the clinical examination for sudden death, and the symptoms of cardiogenic shock and chronic heart failure.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Field work training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - Strategy for switching between ideas - Strategy for providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Introduction to First Aid and Emergency Medical Services (EMS)	Students' knowledge and application of first aid principles	٤	the first
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Components of an emergency medicine system: administration, policy, organization, and equipment	Students' knowledge and application of the components of the emergency medicine system	٤	the second
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	First aid kit and tools, form and appearance, contents of the airway, breathing and other, improvised uses, workplace first aid tools, historical first aid tools.	Students' knowledge and application of first aid kits and tools	٤	Third
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Ambulances, transportation, working with hospital staff, working with public safety agencies	Students' knowledge and application of information regarding death, transport, and ambulances	٤	Fourth
Reports, theoretical, oral and	Whiteboard, PowerPoint slides,	The emotional aspects of emergency care, death and	Students' knowledge and application of	٤	Fifth

written examination assignments	conducting practical experiments	dying, the grieving process, dealing with the patient and family members, and primary care for the dying patient and critically ill patients.	the emotional aspect of emergency care		
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Physical signs of death, virtual signs of death, final signs of death, medical examination cases.	Students' knowledge and application of the physical signs of death	٤	Sixth
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Anxiety, pain, fear, hostility, depression, and receiving bad news.	Students' knowledge and application of the emotional aspect of emergency care	٤	Seventh
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Infectious diseases (transmission routes), risk reduction, and personal protection and prevention system.	Students' knowledge and application of methods of transmission of infectious diseases	٤	Eighth
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Shocks, kinetic theory of shocks	Students' knowledge and application of types of trauma	٤	Ninth
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Bleeding: its types, causes, and treatment.	Students' knowledge and application of bleeding, its types and causes	٤	Tenth
Reports, theoretical, oral and	Whiteboard, PowerPoint slides,	Strokes: their types, causes, and management.	Students' knowledge and application of	٤	Eleventh

written examination assignments	conducting practical experiments		information about strokes, their types and causes		
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Injuries, soft tissue injuries, eye injuries, facial and throat injuries.	Students' knowledge and application of injury types and soft tissue injuries	٤	Twelfth
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Chest injuries, abdominal injuries, stones, head and spine injuries.	Students' knowledge and application of the types of chest and abdominal injuries	٤	Thirteenth
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Heart structure, circulatory function and arterial stiffness.	Students' knowledge and application of the structure of the heart and the function of the circulatory system	٤	Fourteenth
Reports, theoretical, oral and written examination assignments	Whiteboard, PowerPoint slides, conducting practical experiments	Heart attack, signs and symptoms of a heart attack, physical consequences of sudden death, cardiogenic shock.	Students' knowledge and application of the signs and symptoms of a heart attack	٤	Fifteenth

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily oral exams, and monthly exams.
- Midterm exam: 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Dr. Khader Dawood Suleiman, Dr. Muhammad Yusuf (Public Health). Ministry of Higher Education and Scientific Research / University of Mosul, 1988.
Main references (sources)	First Aid for the USMLE Step1– Tao Le, Vikas Bhushan, Matthew Sochat, Yash Chavda. Andrew Zureick – 2020.
Recommended books and references (scientific journals and reports...)	Emergency First Aid: Recognition and Response Medical Emergencies – American College of Emergency Physicians (ACEP) – 2016 The Complete First Aid Pocket Guide – john Furst – 2018
Electronic references and websites	/

1. Course Name:
Computer applications 1
2. Course code:
NTU 102
3. Semester/Year:
First semester / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available attendance forms:
My presence
6. Number of credit hours (total) / Number of units (total)
15 practical hours + 15 theoretical hours / number of units 2
7. Name of the rapporteur
Name: M.M. Saja Juma Hammad Email: saja.jumaa@ntu.edu.iq
8. Course Objectives:
The student must be able to deal with a computer, be familiar with its use, understand how to use its software, and be able to work on a calculator and the principles of the Internet in the field of specialization. This course aims to study Windows programs, Microsoft Word, and train the student to use its basics and tools that will serve the student for the coming years in all academic and practical fields.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Field work training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy -The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Introduction to computers: their generations - their components: hardware and software - (system software and application software).	Students' knowledge and application of computer types and generations	٢	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	MS-DOS operating system: The concept of the operating system - The system signal - Disks - Directories, their levels, and files - Internal operating system commands - External commands (the most frequently used commands).	Students' knowledge and application of the MS-DOS operating system	٢	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Internal operating system commands: Internal commands: Dir - Del - Time - Date - Cls - RD - CD - MD - Echo - Ren - Copy - Vol - Ver - Path	Students' knowledge and application of internal operating system command types	٢	Third
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Windows operating system: The concept of the Windows system - Its advantages - Its basic requirements - Operating the system	Students' knowledge and application of the Windows operating system	٢	Fourth

		- Components of the main desktop screen Desktop - The concept of the icon - The method of dealing with mouse activities - The importance and components of the Task Bar - Taking advantage of Start to enter programs - The concept of loaded tasks - Exiting the system and turning off the Shut Down calculator.			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Understanding the window concept for any program and identifying its main components - Dealing with desktop icons such as (My Computer - My Documents - Recycle Bin).	Students know and apply the concept of the window for any program and learn about its main components	٢	Fifth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Understanding the components of MyComputer in terms of disks, folders, and files; how to format floppy disks; copying folders and files; utilizing cut and paste functions and understanding the properties of disks, folders, and files; and working with the Recycle Bin and how to delete	Students' knowledge and application of My Computer components	٢	Sixth

		and recover files using its features.			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Taking advantage of the Control Panel programs, such as the Mouse icon and the Display icon, how to change the desktop wallpaper, control the screen saver, and change the appearance and colors of window menus (Add Remove program icon) in adding and deleting the program.	Students' knowledge and application of Windows system icons	٢	Seventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Utilize the Run option to execute programs directly, as well as switch to the MS-DOS operating system interface and handle its commands.	Students' knowledge and application of the Run option	٢	Eighth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Use entertainment software such as Window media player to play movies.	Students' knowledge and application of entertainment program icons	٢	Ninth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Take advantage of additional Accessories programs such as the Calculator.	Students' knowledge and application of additional programs such as calculators	٢	Tenth
Reports, assignments, written, oral, and written	Whiteboard, PowerPoint slides, conducting practical	Dealing with the Paint drawing program to create, save, and retrieve drawings through the	Students learn and apply how to use the drawing program.	٢	Eleventh

exams	experiments	commands it provides.			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Working with the Notepad and WordPad notes window to write, save, retrieve, print texts, change their printing style, and format them.	Students know and apply how to use the feedback window.	٢	Twelfth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Learn how to get help and its various methods.	Students know and apply how to use the assistance program	٢	Thirteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	The concept of computer viruses: How they infect, their types, treatment, and how to deal with them using antivirus programs available within the Windows operating system environment.	Students know and apply how to deal with viruses	٢	Fourteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Dealing with the Recycle Bin and how to delete and recover files through what the Recycle Bin provides in this regard.	Students learn and apply how to handle a trash can	٢	Fifteenth

11. Course Evaluation
The grade out of 100 is distributed according to the tasks assigned to the student, such as daily preparation, daily oral exams, and monthly exams.
- Midterm exam: 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Structure and Interpretation of Computer Programs- Harold Abelson, Gerald Jay Sussman, Julie Sussman – 1985 Introduction to the Theory of Computation - Michael Sipser – 1996
Main references (sources)	Computer Organization and Design: The Hardware/Software Interface - David A. Patterson, John L. Hennessy – 1994
Recommended books and references (scientific journals and reports...)	Operating System Concepts - Abraham Silberschatz, Peter B. Galvin, Greg Gagne – 1983
Electronic references and websites	https://www.microsoft.com/software-download/windows11

1. Course Name:
Democracy and human rights
2. Course code:
NTU100
3. Semester/Year:
Chapter 1 / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: M.M. Salman Amer Badri Email:
8. Course Objectives:
Identifying the freedoms and rights of the individual and society and the role of each individual in it in terms of rights and duties, in addition to the various state policies.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Field work training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	The concept of the state and the government / legislative body / of the principle of separation of powers	Introducing students to the concept of the state and government	٢	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	The executive body / the judicial body / the House of Representatives, in their discussions and decisions, by rulings.	Students' understanding of the concept of the judicial/executive branch	٢	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	The idea of freedom is / First: basic or individual freedom:- 1- Freedom of security and feeling of reassurance 2- Freedom to come and go (movement) 3- Freedom of home and private life 4- Freedom of confidentiality of personal correspondence	Introducing students to the concept of freedom	٢	Third
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Intellectual and cultural freedom: 1- Freedom of education 2- Freedom of assembly	Introducing students to the concept of intellectual and cultural freedom	٢	Fourth

		3- Freedom of worship 4- Freedom of opinion and expression 5- Political freedom			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Candidacy in elections: 1- The right to vote 2- Periodic elections 3- The right to criticize the government	Students' understanding of the concept of candidacy in elections	٢	Fifth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	١ . Freedom to form and join associations. 2. Freedom to form and join trade unions.	Informing students about the concept of freedom of association and unionization	٢	Sixth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Midterm exam	The students take the exam	٢	Seventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Economic and social freedoms: 1. Freedom of work. 2. Freedom of ownership. 3. Freedom of trade and industry.	Students' understanding of the concept of economic and social freedom	٢	Eighth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	4- Freedom of social security and healthcare / Democracy	Students' understanding of the concept of social security and social guarantee freedom	٢	Ninth
Reports, assignments,	Whiteboard, PowerPoint	Democracy in Iraq	Introducing students to the	٢	Tenth

written, oral, and written exams	slides, conducting practical experiments		concept of democracy in Iraq		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Election of the Iraqi Transitional National Assembly	Students' understanding of the concept of National Assembly elections	٢	Eleventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Goals of democracy	Informing students about the concept and goals of democracy	٢	Twelfth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Forms of Democracy / Indirect Democracy / Popular Proposal / Popular Referendum	Students' understanding of the concept of forms of democracy	٢	Thirteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	People's participation in legislative work / popular proposal / popular referendum	Informing students about the concept of public participation in legislative work	٢	Fourteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Types of referendums / Disadvantages of public referendums / Popular solutions	Students' understanding of the concept of different types of referendums	٢	Fifteenth

11. Course Evaluation
The grade out of 100 is distributed according to the tasks assigned to the student, such as daily preparation, daily oral exams, and monthly exams.
- The semester exam is 30 marks - Final exam: 70 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Public Freedoms and Democracy / Lectures at Al-Mustansiriya University / University of Babylon
Main references (sources)	2015. Democracy and Human Rights - Ahmed Al-Sayed Atta Human rights and democracy in the Arab world - Hatem Al-Meligy 2010.
Recommended books and references (scientific journals and reports...)	Human Rights in Islam and International Humanitarian Law - Muhammad Al-Shaiba 2007.
Electronic references and websites	/

1. Course Name:
Arabic
2. Course code:
NTU 103
3. Semester/Year:
Chapter 1 / 2025 −2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: Shaker Mahmoud Khattab Email: shakrmkm1988@gmail.com
8. Course Objectives:
1. The primary goal of Arabic language instruction is for students to master their native language. This includes first aid students reviewing, recalling, and applying grammatical rules. 2. Introduction to conversation and writing. 3. Introduction to Arab culture and its rich heritage. 4. Study of selected texts and famous literary pieces from Arabic literature. 5. Study of correct writing and spelling rules.
9. Teaching and learning strategy:
-Brainstorming strategy – Discussion strategy - Self-learning strategy – E-learning strategy - Study strategy - Idea generation strategy – Strategy for providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	Introduction to linguistic errors - the marfu’ ta’, the long ta’, and the open ta’	The student's knowledge of the meaning of a word in a dictionary and grammatical errors	٢	the first
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	Rules for writing the long and short alif – solar and lunar letters	Students know how to write the solar and lunar letters in the Arabic language	٢	the second
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	The letter Ḍād and Ḍād	Students' knowledge of using the correct rules for the letters Ḍād and Ḍād in Arabic	٢	Third
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	Writing the hamza	Students' knowledge of one of the most important methods of writing the hamza in Arabic	٢	Fourth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	punctuation marks	Students' knowledge of one of the most important Arabic punctuation marks	٢	Fifth

Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	Noun and verb, and the difference between them	Students' knowledge of one of the most important Arabic grammatical structures: nouns and verbs.	٢	Sixth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	Objects	Students' knowledge of one of the most important Arabic grammatical structures: objects and verbs.	٢	Seventh
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	number	Students' knowledge of one of the most important Arabic numerical methods	٢	Eighth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	Common Grammar Errors Applications 1	Students' awareness of linguistic errors in the Arabic language	٢	Ninth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical experiments	Common Grammar Errors Applications 2	Students' awareness of linguistic errors in the Arabic language	٢	Tenth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard , PowerPoint slides, conducting practical	The letters Noon and Tanween are meanings of prepositions.	Students' knowledge of one of the most important Arabic methods: prepositions	٢	Eleventh

	experiments				
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Formal aspects of administrative discourse	Students' familiarity with one of the most important Arabic styles is the form of administrative correspondence.	٢	Twelfth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Administrative discourse language 1	Students' familiarity with one of the most important methods of Arabic, the language of administrative discourse.	٢	Thirteenth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Administrative Discourse Language 2	Students' familiarity with one of the most important methods of Arabic, the language of administrative discourse.	٢	Fourteenth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Examples of administrative correspondence	Students' knowledge of one of the most important methods of using Arabic as a language: administrative correspondence templates.	٢	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation and daily, oral, and monthly exams
- The semester exam is 30 marks - Final exam: 70 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Basic rules in the Arabic language – Muhammad Hussein Al-Masoumi 2008.
Main references (sources)	Introduction to Arabic Linguistics – Abdullah Al-Ta'i, 2015. Contemporary Arabic Literature – Muhammad Muhammad Hussein, 2010.
Recommended books and references (scientific journals and reports...)	Arabic Grammar Level One – Abdulrahman Al-Fawzan 2016.
Electronic references and websites	Noor Library for downloading free books.

1. Course Name:
English language
2. Course code:
NTU101
3. Semester/Year:
Chapter 1 / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: Nawras Khalil Ibrahim Email:nawras.khalil@ntu.edu.iq
8. Course Objectives:
١. The primary objective of English language instruction is for students to learn the fundamentals of the English language and its general rules. 2. To learn conversational techniques and practice quoting medical texts. 3. To study some well-known literary texts and excerpts. 4. To study correct writing and spelling rules.
9. Teaching and learning strategy:
-Brainstorming strategy - Discussion strategy - Self-learning strategy - E-learning strategy - Study strategy - Idea generation strategy - Strategy for providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Definition of basic English terms	Students' knowledge of basic English terminology	٢	the first
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	How many units are there in English? (Three units)	Students know the number of units in the English language (three units).	٢	the second
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	The eight parts of speech	Students' knowledge of using the correct rules for parts of speech	٢	Third
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Parts of speech 2	Students' knowledge of using the correct rules for parts of speech	٢	Fourth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	conversation	Students' knowledge of using correct conversational rules	٢	Fifth
Reports, assignments, written and oral exams (midterm	Whiteboard, PowerPoint slides, conducting practical	Verb categories	Students' knowledge of using verbs	٢	Sixth

and final)	experiments				
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Acts of Being 1	Students' knowledge of using the verbs of being and the future tense	٢	Seventh
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Acts of Being 2	Students' knowledge of using the verbs of being and the future tense	٢	Eighth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Prepositions 1	Students' knowledge of using prepositions	٢	Ninth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Prepositions 2	Students' knowledge of using prepositions	٢	Tenth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	punctuation marks	Students' knowledge of using punctuation marks	٢	Eleventh
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	simple past tense	Students' knowledge of using past tense verbs	٢	Twelfth
Reports, assignments, written and oral exams	Whiteboard, PowerPoint slides, conducting	Past simple continuous tense	Students' knowledge of using past tense verbs	٢	Thirteenth

(midterm and final)	practical experiments				
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Past perfect	Students' knowledge of using past tense verbs	٢	Fourteenth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Types of sentences	Students' knowledge of using different types of sentences	٢	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- Midterm exam: 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	The Practice of English Language Teaching" (Jeremy Harmer) 1983. Approaches and Methods in Language Teaching. Jack C. Richards and Theodore S. Rodgers 2001.
Main references (sources)	Using English Grammar, Raymond Murphy 1985.
Recommended books and references (scientific journals and reports...)	Longman Modern English Dictionary 2014.
Electronic references and websites	Noor Library for downloading free books.

1. Course Name:
Laboratory and workshop safety
2. Course code:
TIDO 108
3. Online semester/year:
Chapter 1 / 2025 − 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: Hassan Hisham Fadel Email: alneame.aa@gmail.com
8. Course Objectives:
1. To be able to handle hazards in laboratories and workshops. 2. To be able to think clearly and take appropriate action in any emergency situation in the laboratory. 3. To be familiar with fire hazards, how to deal with them, and fire prevention rules. 4. To be familiar with the types of hazards that can be encountered in laboratories. 5. To be familiar with safety guidelines in laboratories and workshops. ٦. To know what to do before and after conducting scientific experiments
9. Teaching and learning strategy:
- Strategy for explaining academic subjects by the academic staff - Knowledge strategy using homework assignments for academic vocabulary - Discussion strategy - Self-learning strategy - Study strategy - Idea generation strategy - The strategy of providing examples and visiting the library and websites

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Essential equipment that must be available in the laboratory (laboratory layout)	Students' knowledge of basic laboratory equipment	٢	the first
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Safety precautions when handling laboratory instruments and chemicals.	Students' awareness of safety precautions	٢	the second
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Safety precautions when completing laboratory work and storing and preserving materials.	Students' awareness of safety precautions	٢	Third
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Fires, their types, and methods of extinguishing them.	Students' knowledge of fires and methods of extinguishing them	٢	Fourth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Fires, their types, and methods of extinguishing them.	Students' knowledge of fires and methods of extinguishing them	٢	Fifth
Reports, assignments, written and oral exams (midterm	Whiteboard, PowerPoint slides, conducting practical	Personal protective equipment	Students' knowledge of personal protective equipment	٢	Sixth

and final)	experiments				
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Chemical hazards and how to deal with them	Students' knowledge of chemical hazards and how to deal with them	٢	Seventh
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Radiation hazards	Students' knowledge of radiation hazards and how to deal with them	٢	Eighth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	biological hazards	Students' knowledge of biological hazards and how to deal with them	٢	Ninth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Disposal of laboratory (medical) waste. Use of warning signs in the laboratory	Students should learn about methods of disposing of medical waste and how to handle it.	٢	Tenth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Disposal of laboratory (medical) waste. Use of warning signs in the laboratory	Students should learn about methods of disposing of medical waste and how to handle it.	٢	Eleventh
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	First aid in laboratories	Students' knowledge of first aid skills	٢	Twelfth
Reports, assignments, written and oral exams	Whiteboard, PowerPoint slides, conducting	First aid in laboratories	Students' knowledge of first aid skills	٢	Thirteenth

(midterm and final)	practical experiments				
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Other environmental factors and their impact on safety and health (light, noise, heat, humidity).	Students' knowledge of how to deal with factors affecting health	٢	Fourteenth
Reports, assignments, written and oral exams (midterm and final)	Whiteboard, PowerPoint slides, conducting practical experiments	Safety in field studies	Students' knowledge of safety procedures in field studies	٢	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- The semester exam is 30 marks. - Final exam: 70 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Laboratory Safety for Chemistry Students. Robert H. Hill Jr. David C. Finster2016. Laboratory Safety: Principles and Practices. Neal Langerman.2017
Main references (sources)	Laboratory Safety: Theory and Practice. Robert H. Hill Jr 2017.
Recommended books and references (scientific journals and reports...)	Chemical Laboratory Safety and Security: A Guide to Developing Standard Operating Procedures. Division on Earth and Life Studies and National Research Council.2010 Safety in the Biology Lab. Bob Farber ٢٠١٠.
Electronic references and websites	Noor Library for downloading free books

Course Description Template – Level 1 – Semester 2

1. Course Name:
Nursing basics
2. Course code:
IMA 112
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Hanan Hassan Jassab Email: hanan.hasan2205m@conursing.uobaghdad.edu.iq
8. Course Objectives:
Learn the fundamentals of nursing, first aid, laboratory procedures, and occupational health practices in the field of nursing, as well as how to interact with nurses. Learn about vital signs, including temperature, respiration, blood pressure, and pulse, and how to manage them. Learn about the history of nursing and the role of the nurse. Learn about different types of hospitals and their departments.
9. Teaching and learning strategy:
- Brainstorming strategy - Group work strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Concept mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Basics of Nursing: Definition (Nursing, Health, Hospital).	Students' knowledge and application of nursing fundamentals	٤	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Management and discharge of patient from hospital, detailed chart, oral report, written report, nursing process. (Assessment, planning, implementation, evaluation).	Students' knowledge and application of the fundamentals of patient discharge management	٤	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Patient management and discharge from the hospital, detailed plan, oral report, written report, nursing process. (Assessment, planning, implementation, evaluation).	Students' knowledge and application of the fundamentals of patient discharge management	٤	Third
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Physical examination, preparing a point for examination, the role of the nurse in the physical examination, collecting samples, preparing equipment, throwing fluids.	Students' knowledge and application of the fundamentals of physical examination and preparation	٤	Fourth

			of equipment, models, and samples		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Physical examination, preparing a point for examination, the role of the nurse in the physical examination, collecting samples, preparing equipment, throwing fluids.	Students' knowledge and application of the fundamentals of physical examination and preparation of equipment, models, and samples	٤	Fifth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Body mechanics, body posture, body mechanics principle, complete action.	Students' knowledge and application of the fundamentals of posture and body mechanics	٤	Sixth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Basic needs of physiotherapy care. Care of the physiotherapy unit, bed arrangement, causes of physical discomfort, mental health and psychotherapy support.	Students' knowledge and application of the fundamentals of physiotherapy and mental health	٤	Seventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Basic needs of physiotherapy care. Care of the physiotherapy unit, bed arrangement, causes of physical discomfort,	Students' knowledge and application of the fundamentals	٤	Eighth

		mental health and psychotherapy support.	of physiotherapy and mental health		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Body hygiene, dental care, skin, mouth, physical therapy bath. Type of bath, care for sores, their causes and prevention.	Students' knowledge and application of the fundamentals of patient physical care	٤	Ninth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Body hygiene, dental care, skin, mouth, physical therapy bath. Type of bath, care for sores, their causes and prevention.	Students' knowledge and application of the basics of patient physical care	٤	Tenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Fluids and nutrients, nutrition, physical therapy agents - nutrients and body wastes, stomach tube.	Students' knowledge and application of the basics of patient nutrition	٤	Eleventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Sterilization method, surgical sterilization, medical sterilization, antiseptic type, floor covering, surgical equipment sterilization type, dressing principle and stage removal.	Students' knowledge and application of the basics of sterilization and dressing	٤	Twelfth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Vital signs, definition of temperature, checking temperature, type of temperature check, armpit, causes, signs, and symptoms, nursing care for it, identifying	Students' knowledge and application of the basics of vital signs: temperature,	٤	Thirteenth

		factors affecting the pulse, place to take the pulse, nursing point in checking the pulse, breathing, definition of breathing, definition of blood pressure. Definition of diastolic and systolic pressure and the factors affecting it.	respiration, and pulse		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Vital signs, definition of temperature, checking temperature, type of temperature check, armpit, causes, signs, and symptoms, nursing care for it, identifying factors affecting the pulse, place to take the pulse, nursing point in checking the pulse, breathing, definition of breathing, definition of blood pressure. Definition of diastolic and systolic pressure and the factors affecting it.	Students' knowledge and application of the basics of vital signs: temperature, respiration, and pulse	٤	Fourteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting practical experiments	Drug administration, drug definition, drug type, and injection - subcutaneous (SC), intramuscular (IM), intradermal (ID), intravenous (IV).	Students' knowledge and application of the fundamentals of administering injections and medication	٤	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- The semester exam is 40 marks. - Final exam: 60 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	/
Main references (sources)	Nadecra H. Fundemental of Nursing (practices) Foundation of Technical educations .MousL , 2000 Naaheda . M Fundemental of Nursing (theory).Foundation of Technical education Baghdad 2000.Spring house corporation, Nursing , procedures , publication ,Data 1997.
Recommended books and references (scientific journals and reports...)	Taylor , C., et al.: Fundamentals of Nursing : The Art and Science of Nursing care, 7th ed.,2011, Lippincott White, L.; Duncan, G.; and Baumle, W.: Foundation of Nursing, 3rd ed., 2011, Australia: CENGAGE
Electronic references and websites	/

1. Course Name:
Anatomy
2. Course code:
TIDO 107
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: M.M. Naeel Mustafa Mohammed Email: naeelmustafa96@gmail.com
8. Course Objectives:
To learn the general anatomy of the human body, observe the workings of organ systems, and study all types of tissues under a microscope. To acquire the skill of taking samples from all body organs. To develop the ability to recognize the differences between various body tissues and understand their microscopic structure, which will aid in the study of all types of abnormal tissue in patients.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Field work training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Anatomical directions: It gives reference to all directions of the human body	Students' knowledge and application of the anatomical orientations of the human body	٤	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Superficial anatomy of the heart: Description of the heart's position according to the chest wall and the number of ribs.	Students' knowledge and application of human heart anatomy	٤	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Superficial anatomy of the lungs: Description of the position of the lungs according to the chest wall and the number of ribs.	Students' knowledge and application of human lung anatomy	٤	Third
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Anatomy of the abdominal surface: We draw the regions of the abdominal surface according to the horizontal and vertical lines.	Students' knowledge and application of the anatomy of the abdominal surface of the human body	٤	Fourth
Reports, assignments,	Whiteboard, PowerPoint	Stomach anatomy: We show the relationship of	Students' knowledge	٤	Fifth

written, oral, and written exams	slides, conducting laboratory experiments	the stomach to other organs in the abdomen.	and application of human stomach anatomy		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Liver and spleen anatomy: We present to them the regions of the liver and spleen according to the superficial anatomy of the abdomen.	Students' knowledge and application of the anatomy of the liver and spleen of the human body	٤	Sixth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Intestinal anatomy: We show the relationship of the intestines to other organs up to the abdomen.	Students' knowledge and application of human intestinal anatomy	٤	Seventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Dissection of the appendix: We locate the appendix in the right iliac region.	Students' knowledge and application of the anatomy of the human appendix	٤	Eighth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Gallbladder anatomy: The gallbladder region is located in the right subcostal region.	Students' knowledge and application of the anatomy of the gallbladder in the human body	٤	Ninth
Reports,	Whiteboard,	We locate the uterus in	Students'	٤	Tenth

assignments, written, oral, and written exams	PowerPoint slides, conducting laboratory experiments	the area above the pubic bone.	knowledge and application of uterine anatomy in the human body		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Skeletal anatomy: Central half of the skeleton: skull – vertebral column and peripheral.	Students' knowledge and application of human skeletal anatomy	٤	Eleventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Shoulder bones: We show the shoulder bones on the skeleton, which are the scapula and clavicle.	Students' knowledge and application of the anatomy of the shoulder bones of the human body	٤	Twelfth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Arm bones: We present the bones of the arm (humerus).	Students' knowledge and application of the anatomy of the human arm bones	٤	Thirteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Forearm bones: We show the forearm bones (ulna and radius).	Students' knowledge and application of the anatomy of the forearm bones of the human body	٤	Fourteenth

Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Hand bones: We present the bones of the hand (carpal bones, metacarpal bones, and phalanges).	Students' knowledge and application of the anatomy of the human hand bones	٤	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- The semester exam is 40 marks. - Final exam: 60 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Principles of anatomy for students of health professions institutes, Dr. Abdul Rahman Mahmoud Al-Rahim / Ministry of Health 1983.
Main references (sources)	Atlas of anatomy (Grantes) / 1998 . Kingham anatomy – Oxford – London / 1987
Recommended books and references (scientific journals and reports...)	Drake RL, Vogl W, Mitchell AWM. Gray's Anatomy for Students. Elsevier, Philadelphia, 2005.
Electronic references and websites	/

1. Course Name:
Clinical Chemistry
2. Course code:
IMA 113
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: M.D. Abeer Saleh Hassan Email: abeer.sa@ntu.edu.iq
8. Course Objectives:
Introduction to clinical chemistry, its principles, and its importance in the field of medicine. Familiarization with clinical chemistry laboratories and the types of equipment used. Learning how to conduct clinical chemical analyses and understanding the associated medical conditions, along with the clinical significance of each chemical analysis. Training students to determine the normal levels of chemical compounds in the blood. Enabling students to identify changes that can occur in chemical compounds under abnormal conditions. Developing the ability to diagnose various diseases based on changes in the levels of these compounds in the blood and other body fluids. Proficiency in using the equipment employed in clinical chemistry laboratories.
9. Teaching and learning strategy:
- Brainstorming strategy - Group work strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Elements that make up the human body - water - functions of water - water balance in the human body Standardization and international standard units (SI units) Units of measurement used in clinical chemistry.	Students' knowledge and application of the components of the body	٤	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Introduction to analytical chemistry - methods for expressing solution concentrations - molar concentration - standard concentration - percentage concentration - methods for diluting and preparing laboratory solutions	Students' knowledge and application of molar concentrations of solutions	٤	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	- (pH) Hydrogen concentration; the importance of pH in the human body; blood pH; buffer solutions: their properties and methods of preparation	Students' knowledge and application of buffer solutions and pH levels	٤	Third
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Analysis methods used in clinical chemistry laboratories - qualitative analysis - quantitative analysis - types of quantitative analysis	Students' knowledge and application of qualitative and quantitative analytical methods in	٤	Fourth

			clinical chemistry		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Colorimetric analysis – Types of colorimetric analysis – Beer-Lambert's law – Standard solution	Students' knowledge and application of chromatography methods and standard solutions in clinical chemistry	٤	Fifth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Definition of Biochemistry – Definition of Clinical Chemistry – Body Fluids and Their Importance in Clinical Chemistry Tests – Urine – Urine Collection and Preservation Methods – Urine Composition in the Human Body – Normal Urine Excretion Rate – Definition of Oliguria – Definition of Azoosirrhosis	Students' knowledge and application of methods for analyzing urine and body fluids in clinical chemistry	٤	Sixth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Natural and abnormal components of diuresis - analysis of general diuresis - clinical importance - urinary system stones and their types - and the causes of their formation	Students' knowledge and application of methods for analyzing blood and urine in clinical chemistry	٤	Seventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Introducing students to methods of analyzing blood, blood proteins, and anticoagulants in clinical chemistry	Students' knowledge and application of methods for analyzing blood, blood proteins, and	٤	Eighth

			anticoagulants in clinical chemistry		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Electrolytes - the importance of electrolytes in the human body - types of electrolytes - sodium - its metabolism - its function - its clinical importance - potassium - its metabolism - its function - its clinical importance - chloride - its metabolism - its function - its clinical importance	Students' knowledge and application of the types of osteoarthritis and their importance in the human body	٤	Ninth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Calcium - its metabolism - its function - its clinical importance - phosphorus - its metabolism - its function - its clinical importance - iron - its metabolism - its function - its clinical importance	Students' knowledge and application of the importance of calcium and its function in the human body	٤	Tenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Carbohydrate compounds - their sources - classification - glucose - glucose metabolism - blood glucose level - factors that maintain blood glucose levels - clinical importance of glucose - renal threshold and urine glucose level	Students' knowledge and application of the types of carbohydrate compounds and their importance in the human body	٤	Eleventh
Reports, assignments,	Whiteboard, PowerPoint	Diabetes – Alternative energy – Sources of its	Students' knowledge and	٤	Twelfth

written, oral, and written exams	slides, conducting laboratory experiments	formation – Ketone bodies – Blood acidosis	application of diabetes and ketone bodies in the human body		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Glucose tolerance test - preparing the patient for the test - the most important glucose tolerance charts - normal chart - diabetes chart - poor storage process chart - flat chart - diabetes urine chart	Students' knowledge and application of the glucose and urine diagram in the human body	٤	Thirteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Lipids – their classification – which lipids – lipids in blood plasma – fatty acids	Students should learn and apply the knowledge of different types of fats and their importance in the human body.	٤	Fourteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Cholesterol – Chemical Formula – Presence of Cholesterol – Cholesterol Metabolism – Cholesterol Biological Structure – Function of Cholesterol in the Human Body – Clinical Importance of Cholesterol	Students' knowledge and application of the types of cholesterol in the human body	٤	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- Midterm exam: 40 marks. - Final exam: 60 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Herbert Fromm and Mark Hargrove, Essentials of Biochemistry, 2012
Main references (sources)	1- Clinical Chemistry - Muhammad Fathi Al-Hawari - Technical Education Authority. 2- Clinical Chemistry Binding - Muhammad Ramzi Al-Omari - Technical Education Authority. 3- Practical Clinical Chemistry - Muhammad Ramzi Al-Omari - Technical Education Authority. 4- General Chemistry - Saeeba Abdullah - Hanaa Salman - Maysoon Suleiman - Technical Education Authority 5- Quality control for students of the Pharmacy Department - Sayed Muhammad Abu Zaid - Technical Education Authority 6- Laboratory and pharmaceutical equipment - Sayed Muhammad Abu Zaid - Technical Education Authority Analytical Chemistry - Dr. Sajida Abdel Hamid - Technical Education Authority
Recommended books and references (scientific journals and reports...)	Jacob Anthikad, Nutrition and Biochemistry for Nurses, 1st Ed, 2009. Jaroslav Racek and Daniel Radja, Clinical Biochemistry, first ed ,2016.
Electronic references and websites	/

1. Course Name:
Medical terminology
2. Course code:
TIDO 109
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: M.M. Muhammad Hassan Muhammad Email: Mohammed.hasan@ntu.ed.iq
8. Course Objectives:
In this course students learn to pronounce medical terms used in health care settings The student will be able to use a word building strategy that helps them discover connections and relationships between word roots, prefixes and suffixes.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Roots of basic words	Students' knowledge of word roots	٢	the first
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Word roots, suffixes and prefixes	To familiarize students with additional details about word roots, suffixes, and prefixes related to pharmaceutical sciences (natural pharmacology, clinical pharmacy, pharmacology, etc.).	٢	the second
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Basic anatomical terminology and abnormal conditions	Students' knowledge of the important medical term for an abnormal condition	٢	Third
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	reproductive organs and urinary tract	Students' knowledge of the important medical terminology for renal and reproductive gases	٢	Fourth
Reports, assignments,	Blackboard, powerpoint	Digestive system	Students' knowledge of the	٢	Fifth

theoretical, oral and written exams, semi-semester and semester	slides.		important medical term for the digestive system		
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Heart and cardiovascular system	Students learn to describe the important medical term used in the cardiovascular system	٢	Sixth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Symptoms, diagnosis, treatments, contact qualifications and statistics	Students' knowledge of defining important medical terminology in the field of disease and treatment	٢	Seventh
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Growth and development	Students' knowledge of the important medical term for growth and development	٢	Eighth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Gynecological diseases	Students' knowledge of the description of important medical terminology in gynecology, pregnancy, and childbirth	٢	Ninth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	The eyes	Students' knowledge of the important medical terminology used to describe eye conditions and anatomy	٢	Tenth

Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Nervous system	Students' knowledge of the description of important medical terminology in the nervous system and behavioral disorders	٢	Eleventh
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Blood and immunity	Students' knowledge of important medical terminology in blood and immunity	٢	Twelfth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Bones and joints	Students' knowledge of the important medical terminology related to bones and joints	٢	Thirteenth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	Blood and immunity	Students' knowledge of important medical terminology in blood and immunity	٢	Fourteenth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides.	respiratory system	Students' knowledge of the medical terminology related to the respiratory system	٢	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- The semester exam is 30 marks. - Final exam: 70 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Edward CC, (Ed.); A Short course in Medical Terminology; Latest edition; Lipincott Williams and Wilkins.
Main references (sources)	The Language of Medicine -11th Edition by Davi Ellen. ISBN:9780323370813
Recommended books and references (scientific journals and reports...)	• Barbara A. Gylys, Regina M. Masters. Medical terminology simplified: a programmed learning approach by body systems; Latest edition. • Barbara Janson Cohen, Ann DePetris. Medical terminology : an illustrated guide; Latest edition • Pharmacytimes (journal)
Electronic references and websites	•The electronic library of the Ministry of Higher Education • Pub med.gov & NCBI • UpToDate electronic encyclopedia

1. Course Name:
Sports
2. Course code:
NTU104
3. Semester/Year:
Second semester / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
15 theoretical hours + 15 practical hours / number of units 2
7. Name of the rapporteur
Name: Ibrahim Bahr Shehab Email: bhra1727@gmail.com
8. Course Objectives:
1. Delivering information, knowledge, and sports skills to students at different educational levels. 2. Innovating, observing, planning, critiquing, and comparing physical education lessons and activities at school. 3. Creating a safe and healthy learning environment for students to ensure effective learning. 4. Applying various assessment methods to monitor and develop the school sports program and ensure its objectives are met. 5. Actively and positively interacting with the surrounding community. 6. Understanding the role of physical education and sports activities in establishing and reinforcing social traditions and customs.
9. Teaching and learning strategy:
- Strategy for explaining academic subjects by the academic staff - Knowledge strategy using homework assignments for academic vocabulary - Discussion strategy - Self-learning strategy - E-learning strategy- Study strategy - Idea generation strategy - The strategy of providing examples and visiting the library and websites

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Sport: its definition, importance and types	Students' knowledge and application of the definition of sports and its importance	٢	the first
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	The mechanism of human body movement	Students' knowledge and application of different types of sports	٢	the second
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Common sports injuries	Students' knowledge and application of the types of injuries that people suffer	٢	Third
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Basic basketball skills	Students' knowledge and application of basketball skills	٢	Fourth
Reports, assignments,	Blackboard, powerpoint slides	International rules of	Students' knowledge and	٢	Fifth

theoretical, oral and written exams, semi-semester and semester		basketball	application of the rules of the game		
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Basic skills of table tennis and its international law	Students' knowledge and application of tennis skills	٢	Sixth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Basic skills of the game of volleyball and its international law	Students' knowledge and application of the rules of the game	٢	Seventh
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Swimming sport	Students' knowledge and application of swimming skills	٢	Eighth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Basic skills of tennis and its international law	Students' knowledge and application of the rules of the game	٢	Ninth
Reports, assignments, theoretical,	Blackboard, powerpoint slides	Basic skills of handball	Students' knowledge and application of	٢	Tenth

oral and written exams, semi-semester and semester			handball skills		
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	International law of handball	Students' knowledge and application of the rules of the game	٢	Eleventh
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Arena and field games (types, international law of the game)	Students' knowledge and application of field and arena skills	٢	Twelfth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Basic football skills	Students' knowledge and application of football skills	٢	Thirteenth
Reports, assignments, theoretical, oral and written exams, semi-semester and semester	Blackboard, powerpoint slides	Managing sports competitions and competitions	Students' knowledge and application of how to manage competitions	٢	Fourteenth
Reports, assignments, theoretical, oral and	Blackboard, powerpoint slides	Sports laws and legislation	Students' knowledge and application of the rules and	٢	Fifteenth

written exams, semi-semester and semester			regulations of sports games		

11. Course evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral and written, reports, etc.
- The semester exam is 40 marks. - Final exam: 60 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Sports basics. Techniques, tactics and training. Michael Brindle and John Sobieski 2017. Sports games. Mahmoud Abu Naim 2022.
Main references (sources)	Principles of Sports Science and Physical Fitness. Brennan Scott 2018.
Recommended books and references (scientific journals and reports...)	Principles of statistical analysis in sports. D. Dawoud Al-Mawla 2019.
Electronic references and websites	Nour Library for downloading free books

1. Course name:
Psychology
2. Course code:
IMA 116
3. Semester/Year:
Second semester / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available attendance forms:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: M.M. Taha Akram Shabib Email: Taha.ak@ntu.edu.iq
8. Course Objectives:
1- Psychology seeks to understand human behavior and mental processes such as thinking, learning, emotions, and perception. 2- It aims to explain the causes of behavior, why a person behaves in a certain way, and what are the influential biological, psychological, or social factors. 3- By understanding and interpreting behavior, it is possible to predict how individuals will behave in future situations. 4- Control and control help in directing and modifying behavior in positive ways, such as treating psychological disorders or improving performance. 5- Employing psychological knowledge in areas of life such as education, health, work, and psychological counselling. In general, the primary goal of psychology is to improve human life and understand oneself and one's behavior.
9. Teaching and learning strategy:
- Strategy of explaining course material by the academic staff - Strategy of acquiring knowledge through homework assignments for course vocabulary - Strategy of discussion - Strategy of self-learning - Strategy of e-learning - Strategy of studying - Strategy of generating ideas - Strategy of providing examples and visiting the library and websites

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Introduction to mental health - the concept of psychological problems - the spread of psychological and mental disorders.	Students' knowledge of the concept of psychological problems	٢	the first
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Introduction to Mental Health First Aid - The purpose of Mental Health First Aid - The benefits of Mental Health First Aid.	Students' knowledge of the concept of first aid for mental and psychological health	٢	the second
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Mental Health First Aid Action Plan – (DRCABD) Danger, Response, Stress, Airway, Breathing, Defibrillation.	Students will learn to design and implement a safe, organized, and humane psychological first aid plan.	٢	Third
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Mental health first aid procedures: Approach the person, evaluate his life, and provide him with assistance in any crisis. Listen and communicate with him without judgment. Reassure him and provide him with information.	Students learn to act quickly and correctly to save lives and reduce complications until specialized medical care arrives.	٢	Fourth

		Encourage the person to communicate with the appropriate specialists. Encourage seeking other support and self-help strategies. Apply mental health first aid procedures.			
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Depression – Bipolar Disorder – Depression-related Crises.	Students need to understand depression, detect it early, and deal with it in a safe and initial way.	٢	Fifth
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Depression – Bipolar Disorder – Depression-related Crises.	Students need to understand depression, detect it early, and deal with it in a safe and initial way.	٢	Sixth
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Suicidal thoughts and behaviors and non-suicidal self-harm – mental health first aid measures for depression.	Students familiarize themselves with the concept of suicidal thoughts and distinguishing them from non-suicidal self-harm	٢	Seventh
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Anxiety problems – panic attack – traumatic event – crises related to anxiety disorders – mental health first aid procedures for anxiety problems.	Students should know how to deal with psychological emergencies such as anxiety attacks or emotional breakdowns.	٢	Eighth

Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Psychosis-related crises – mental health first aid procedures for psychosis.	Students' knowledge in distinguishing between normal anxiety and pathological anxiety	٢	Ninth
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Control of infectious diseases - vaccinations - isolation - vector control - quarantine - methods of controlling infectious diseases.	Students will learn how to control infectious diseases and limit their spread by applying prevention and control measures scientifically and practically.	٢	Tenth
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Control of infectious diseases - vaccinations - isolation - vector control - quarantine - methods of controlling infectious diseases.	Teach students to understand the problem of drug abuse, detect it early, contribute to its prevention, and deal with it in a scientific and humane manner	٢	Eleventh
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Substance abuse problems - Drug abuse-related crises - Mental health first aid procedures for drug abuse.	Teach students to understand the problem of drug abuse, detect it early, contribute to its prevention, and deal with it in a scientific and humane manner	٢	Twelfth
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Substance abuse problems - Drug abuse-related crises - Mental health first aid procedures for drug abuse.	Teach students to understand the problem of drug abuse, detect it early, contribute to its prevention, and deal with it in a scientific and humane manner	٢	Thirteenth

Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Treatment methods – psychopharmacological treatment.	Students' understanding of the concept and goals of psychopharmacological treatment	٢	Fourteenth
Reports, assignments, written and oral mid-term and final written exams	whiteboard, PowerPoint slides	Psychotherapy – Behavioral Therapy.	Students learn to understand the principles of psychotherapy, use their basic skills, and contribute to supporting the mental health of individuals in a scientific and humane way.	٢	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- Midterm exam: 30 marks. - Final exam: 70 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	/
Main references (sources)	James E. Maddux & Barbara A. Winstead. " Psychopathology: Foundations for a Contemporary Understanding". 2023. Edmund J. Bourne. "The Anxiety and Phobia Workbook". 2023. Michael Gazzaniga, Richard B. Ivry, George R. Mangun. " Cognitive Neuroscience: The Biology of the Mind". 2024. Mental Health First Aid, policy handbook, National council for mental wellbeing, 2022. Psychiatric–Mental Health Nursing, Sheila L. Viedbeck, eighth edition, Wolters Kluwer, 2020.
Recommended books and references (scientific journals and reports...)	/
Electronic references and websites	/

Course Description Level Two / First Semester

1. Course Name:
Emergency Nursing 1
2. Course code:
IMA 206
3. Semester/Year:
Chapter 1 / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Dr. Yasser Khalaf Hassan Email: Yassir.alsamarrai@gmail.com
8. Course Objectives:
Learn about the basics and principles of emergency management Knowing how to provide emergency service to a suffocating patient with upper respiratory tract distress or feeding tube obstruction, as well as other injuries such as paralysis and others. Learn to administer treatments and inject therapeutic fluids and learn about the complications resulting from them.
9. Teaching and learning strategy:
- Brainstorming strategy - Group work strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Bandages, concept maps - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Deduction strategy - Spaced practice strategy - Switching ideas strategy - Providing examples strategy

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Bandages, their types, evaluation before applying bandages, basic turns of rotary bandages.	Students' knowledge and application of the fundamentals and principles of emergency management	٤	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Dressings, their types, evaluation before applying dressings, turns, basic rotational dressings.	Students learn and apply the knowledge of different types of bandages and how to use them.	٤	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Blood gas analysis, intravenous fluid therapy, purposes, types of intravenous solutions.	Students' knowledge and application of the types of intravenous solutions and methods of using them	٤	Third
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Blood gas analysis, intravenous fluid therapy, purposes, types of intravenous solutions.	Students' knowledge and application of the types of intravenous solutions and methods of using them	٤	Fourth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Stroke, definition of stroke, classification of stroke, pathophysiology of stroke, regulation of blood pressure.	Students' knowledge and application of stroke and stroke pathophysiology	٤	Fifth
Reports, assignments,	Whiteboard, PowerPoint	Stroke, definition of stroke, classification of	Students' knowledge and	٤	Sixth

written, oral, and written exams	slides, conducting laboratory experiments	stroke, pathophysiology of stroke, regulation of blood pressure.	application of stroke and stroke pathophysiology		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Penetrating wounds to the chest, hemothorax and pneumothorax, rib fractures.	Students' knowledge and application of penetrating chest wounds and rib fractures	٤	Seventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Penetrating wounds to the chest, hemothorax and pneumothorax, rib fractures.	Students' knowledge and application of penetrating chest wounds and rib fractures	٤	Eighth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Oxygen therapy, microneedling therapy	Students' knowledge and application of oxygen therapy and microneedling	٤	Ninth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Oxygen therapy, microneedling therapy	Students' knowledge and application of oxygen therapy and microneedling	٤	Tenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Heart rhythm disorder, types of heart rhythm disorder, nursing management of a patient with a heart rhythm disorder.	Students' knowledge and application of types of heart rhythm disorders	٤	Eleventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Heart rhythm disorder, types of heart rhythm disorder, nursing management of a patient with a heart rhythm disorder.	Students' knowledge and application of types of heart rhythm disorders	٤	Twelfth
Reports,	Whiteboard,	Treatment of blood	Students'	٤	Thirteenth

assignments, written, oral, and written exams	PowerPoint slides, conducting laboratory experiments	and its components, blood transfusion techniques, complications of blood transfusion.	knowledge and application of blood transfusion techniques, blood treatment, and its components		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Treatment of blood and its components, blood transfusion techniques, complications of blood transfusion.	Students' knowledge and application of blood transfusion techniques, blood treatment, and its components	٤	Fourteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Patient management with burns, pathophysiology of burns, systemic response, emergency phase of burn care.	Students' knowledge and application of the pathophysiology of burns	٤	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral and written, reports, etc.
- Midterm exam: 40 marks. - Final exam: 60 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	/
Main references (sources)	Fred , Community Medicine , 5 TH ED . London 1984 . Kart Community Health Nursing Philadelphia 1981
Recommended books and references (scientific journals and reports...)	Bayer . M. Community health NURRSING In Deve loping country Oxford – London 1976 .
Electronic references and websites	/

1. Course Name:
Critical care nursing
2. Course code:
IMA 210
3. Semester/Year:
Chapter 1 / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Mohammed Mahmoud Sadaa Email: mohammed.mahmood394@gmail.com
8. Course Objectives:
Knowledge of the critical care nursing process and how to evaluate health conditions Knowledge of some diseases such as diabetes, blood pressure, asthma and other diseases Identifying the basic elements (mineral salts and fluids) in the body, how they are distributed, and knowing the vital balance
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - Strategy for switching between ideas - Strategy for providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Critical thinking nursing process, health history, health assessment, database recording, prioritization.	Students learn and apply critical care nursing practices and how to assess a patient's health condition.	٤	the first
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Clinical interview and chief complaint, history of illness.	Students' knowledge and application of how to assess a patient's health condition	٤	the second
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Review the system and patient file	Students learn and apply how to assess a patient's health condition and prepare a patient file.	٤	Third
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Physical assessment, physical examination, inspection, palpation, auscultation.	Students learn and apply how to assess a patient's health condition and prepare a patient file.	٤	Fourth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Fluids and electrolytes, balance and disturbances, mechanisms of homeostasis, fluid volume disturbances (hypovolemia)	Students' knowledge and application of fluid volume disorders and hypovolemia	٤	Fifth
Reports, assignments, theoretical, oral and written	Blackboard, PowerPoint slides, conducting laboratory	Chronic obstructive pulmonary disease (COPD)	Students' knowledge and application of chronic obstructive	٤	Sixth

exams	experiments		pulmonary disease		
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Electrocardiogram interpretation, procedure for obtaining an electrocardiogram (E.C.G.) analysis	Students' knowledge and application of electrocardiogram (ECG)	٤	Seventh
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Coronary atherosclerosis, angina, causes, signs and symptoms, diagnosis, management.	Students' knowledge and application of information on coronary artery disease and angina.	٤	Eighth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Myocardial infarction due to evolving diagnosis, signs and symptoms, complications, management, cardiac arrest.	Students' knowledge and application of information on myocardial infarction and cardiac arrest.	٤	Ninth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Pathophysiology of congestive heart failure, clinical manifestations, diagnosis, management.	Students' knowledge and application of the pathophysiology of congestive heart failure	٤	Tenth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Intestinal obstruction, small and large bowel obstruction, causes, diagnosis, medical and surgical treatment.	Students' knowledge and application of obstructive bowel disease, obstruction of the small and large intestine	٤	Eleventh
Reports, assignments, theoretical, oral and written	Blackboard, PowerPoint slides, conducting laboratory	Nursing management of the patient with a colostomy.	Students' knowledge and application of colostomy disease	٤	Twelfth

exams	experiments				
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Evaluation and management of diabetic patients, pathophysiology of diabetes, hypoglycemia, diabetic ketoacidosis.	Students' knowledge and application of information on diabetes and hypoglycemia.	٤	Thirteenth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Long-term complications of diabetes, macrovascular complications, microvascular complications, leg problem in diabetes.	Students' knowledge and application of long-term complications of diabetes	٤	Fourteenth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Acute appendicitis, signs and symptoms, causes, diagnosis, complications, management.	Students' knowledge and application of the disease of acute appendicitis	٤	Fifteenth

11. Course evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily exams, oral and written, reports, etc.
- The semester exam is 40 marks. - Final exam: 60 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	/
Main references (sources)	Fed, Community Medicine, 5th ed. London 1984.
Recommended books and references (scientific journals and reports...)	Loping country Oxford –London 1976 Bayer. M. Community health Nursing In Deve Kart Community health nursing Philadelphia 1981.
Electronic references and websites	/

1. Course name:
Pharmaceuticals
2. Course code:
IMA 209
3. Semester/Year:
First semester / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available attendance forms:
My presence
6. Number of credit hours (total) / Number of units (total)
30 practical hours + 30 theoretical hours / number of units 4
7. Name of the rapporteur
Name: Dr. Yousef Riad Mohammed Email: Yousef.alsajee@gmail.com
8. Course Objectives:
Understanding the fundamentals of pharmacology Recognizing drug efficacy and understanding drug absorption and excretion Teaching students dosage ratios and administration methods Understanding the effects of treatment on the body and the toxicity resulting from overdosing Using drugs in laboratory experiments to determine their efficacy and side effects
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Actual field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Introduction, pharmacokinetics and pharmacodynamics, drugs, receptors.	Students' knowledge and application of the fundamentals of pharmacology and pharmacodynamics	٤	the first
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Dosage, dosage determination, factors affecting dosage, dosage form.	Students' knowledge and application of dosage estimation, factors affecting dosage	٤	the second
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Methods of administering the drug include oral, injection, transdermal, rectal and other methods, and drug secretion.	Students' knowledge and application of drug administration methods	٤	Third
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	The autonomic nervous system, nerve ganglia, the sympathetic nervous system, acetylcholine, cholinergic drugs.	Students' knowledge and application of cholinergic drugs for the nervous system	٤	Fourth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	The autonomic nervous system, the nerve ganglia of the sympathetic nervous system, acetylcholine, cholinergic drugs.	Students' knowledge and application of cholinergic drugs for the nervous system	٤	Fifth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	The sympathetic nervous system: Adrenaline, adrenergic drugs, their effects on the body and their uses in	Students' knowledge and application of adrenergic drugs to the sympathetic nervous system	٤	Sixth

		medicine.			
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	The sympathetic nervous system: adrenaline, adrenergic drugs, their effects on the body and their uses in medicine.	Introduction for students to adrenergic drugs of the sympathetic nervous system	٤	Seventh
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Drugs that affect the digestive system: uses of antacid drugs for diarrhea, uses of drugs for constipation, laxatives and other drugs used for peptic ulcers, vomiting.	Students' knowledge and application of the uses of antacids for diarrhea to the digestive system	٤	Eighth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Anticholinergic medications, uses of atropine, side effects, medication used for spasms.	Students' knowledge and application of the uses of antispasmodic drugs - cholinergic atropine	٤	Ninth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Medication used for the respiratory system, expectorants, mucolytics, bronchodilators, drug uses to treat asthma.	Students' knowledge and application of medications used to treat asthma	٤	Tenth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Drugs used for the cardiovascular system, cardiac stimulants, uses, toxic side effects.	Students' knowledge and application of medications used for the cardiovascular system.	٤	Eleventh
Reports, assignments, theoretical, oral and	Blackboard, PowerPoint slides, conducting	Antiarrhythmic drugs, heparin vasodilator, Capron course, a drug used for cholesterol.	Students' knowledge and application of antiarrhythmic	٤	Twelfth

written exams	laboratory experiments		drugs		
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	Antihypertensive drugs, diuretics, adrenergic blockers	Students' knowledge and application of antihypertensive and diuretic medications	٤	Thirteenth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	A medicine used for the urinary system, nephrons, antibiotics used to treat urinary tract infections	Students' knowledge and application of medications in the treatment of urinary tract infections	٤	Fourteenth
Reports, assignments, theoretical, oral and written exams	Blackboard, PowerPoint slides, conducting laboratory experiments	A medicine used for the urinary system, nephrons, antibiotics used to treat urinary tract infections	Students' knowledge and application of medications in the treatment of urinary tract infections	٤	Fifteenth

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily oral and written exams, reports, etc.
- The semester exam is 40 marks. - Final exam: 60 marks.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Tawfiq Al-Husseini – Pharmacology – Ministry of Health – Health Education Foundation 1986.
Main references (sources)	Basic and Clinical Pharmacology" by Bertram G. Katzung, Susan B. Masters, and Anthony J. Trevor.2017. The Pharmacological Basis of Therapeutics" by Laurence L. Brunton, Randa Hilal-Dandan, and Bjorn Knollmann.2017 Pharmacotherapy: A Pathophysiologic Approach" by Joseph T. DiPiro, Robert L. Talbert, Gary C. Yee, Gary R. Matzke, Barbara G. Wells, and L. Michael Posey.2020
Recommended books and references (scientific journals and reports...)	Applied Biopharmaceutics & Pharmacokinetics" by Leon Shargel, Andrew B.C. Yu, and Susanna Wu-Pong .2015
Electronic references and websites	/

1. Course Name:
Primary health care
2. Course code:
IMA 207
3. Semester/Year:
Chapter 1 / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Safa Abdul Razzaq Kamel Email: saidheg54@gmail.com
8. Course Objectives:
The student should be able to know:- 1- Maternal and child care programs. 2- Environmental health and environmental pollution programs. 3- Immunization programs against diseases and the cold chain. 4- Health care programs in the countryside. 5- School health programs. 6- Infectious disease prevention programmes. 7- Acquiring skill and experience in educational and health programs.
9. Teaching and learning strategy:
- Strategy for explaining academic subjects by the academic staff - Knowledge strategy using homework assignments for academic vocabulary - Discussion strategy - Self-learning strategy - E-learning strategy - Study strategy - Idea generation strategy - The strategy of providing examples and visiting the library and websites

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Health – Public Health – Community Health – Primary Health Care – Elements of Primary Health Care	Students' knowledge and application of health Public - community health - primary health care – Elements of primary health care.	٢	the first
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Evaluating the family situation: defining the family - evaluating the family situation - collecting information - family card. Community condition assessment: definition Community - collecting information - diagnosing primary health problems - analyzing the problem - planning - implementation - evaluation.	Students' knowledge and application of family principles - Assessing the family situation - Gathering information - Family card.	٢	the second
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Developing community health nursing – Community – Elements of primary health care.	Students' knowledge and application in developing community health nursing	٢	Third
Reports,	whiteboard,	Community situation	Students'	٢	Fourth

written, oral, and mid-term and semester exams	PowerPoint slides	assessment - gathering information about the community - information analysis - diagnosis - nursing for the health needs of the community - developing a nursing care plan - implementing the plan - evaluating nursing care.	knowledge and application in assessing the state of society – gathering information about the society.		
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Health education: its goals and methods – mass communication	Students' knowledge and application of health education and its objectives	٢	Fifth
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Educational aids – rules for using the aid – the role of the nurse in health education.	Students' understanding of the role of a nurse in health education	٢	Sixth
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Maternal and child care. Maternal care – its importance and objectives. Maternal care during pregnancy.	Students' knowledge of the goals and importance of maternal and child care.	٢	Seventh
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Maternal care during childbirth. Maternal care during the postpartum period. The role of the nurse in maternal care.	Students' knowledge of methods of maternal care during childbirth	٢	Eighth
Reports,	whiteboard,	Childcare – its	Students'	٢	Ninth

written, oral, and mid-term and semester exams	PowerPoint slides	importance and objectives. Newborn care. Infant vaccinations – Childcare in nurseries.	knowledge of methods of caring for a newborn baby		
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Home visit - its importance - objectives - planning the home visit.	Students should be aware of the objectives and importance of home visits.	٢	Tenth
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Methods of contacting the head of the household. Preparation of reports – duties of a family nurse.	Familiarizing students with the duties of a nurse in family nursing	٢	Eleventh
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	School health – its objectives – school health services – the school health environment.	Students' awareness of the importance of school health and its objectives	٢	Twelfth
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	School health education – School card. The nurse's role in organizing the card.	Students' awareness of the importance of school health and the organization of health cards	٢	Thirteenth
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	Immunization against diseases – Types of vaccines – BCG vaccine – Triple vaccine – Polio vaccine – Measles vaccine – Measles-combined vaccine –	Students' knowledge of methods of immunization against diseases and common types of vaccines	٢	Fourteenth

		Vaccinations for pregnant women – Typhoid vaccine – The role of the nurse in immunization against diseases.			
Reports, written, oral, and mid-term and semester exams	whiteboard, PowerPoint slides	The cold chain – its importance – professional rules to ensure the effectiveness of the cold chain – its components – cold chain procedures – vaccine distribution stages – vaccine care in the refrigerator – the health center – the nurse’s role in the cold chain – registration.	Students' knowledge of the vaccine distribution phases	٢	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- Midterm exam: 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Hoda Abdel–Ghani Samira Marouf Nursing, Community Health, Printing Press – Baghdad – Al–Tadamon. 1985 / Fred , Community Medicine , 5 TH ED . London 1984 Bayer . M. Community health NURRSING In Deve loping country Oxford – London 1976 .
Main references (sources)	Freeman , Ruth Community Health Nursing Philadelphia , 1981
Recommended books and references (scientific journals and reports...)	M. Priest Modern text book for – ٥ th – ed NursesLondon 1977 .
Electronic references and websites	Noor Library for downloading free books

1. Course name:
Nutrition and food processing
2. Course code:
IMA 214
3. Semester/Year:
First semester / 2025 − 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available attendance forms:
My presence
6. Number of credit hours (total) / Number of units (total)
30 theoretical hours / number of units 2
7. Name of the rapporteur
Name: Ayser Imad Ahmed Email:
8. Course Objectives:
- The student should be able to know the foundations of nutrition and food processing: 1- Know the nutritional guidelines and nutritional needs. 2- Nutrient elements. 3- Choosing meals. 4- Nutrition of patients and special cases.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy -E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - Strategy for switching between ideas - Strategy for providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Healthy nutrition: The importance of balanced food and how the body uses food.	Students' awareness of the importance of a balanced diet	٢	the first
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Daily nutritional standards and recommendations – nutritional needs of individuals.	Students' knowledge of daily nutritional standards and recommendations	٢	the second
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Nutrients in food – Carbohydrates – Their classification – Their functions – Carbohydrates in food – Carbohydrate needs – Tooth decay.	Students' knowledge of the nutritional elements in food	٢	Third
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Natural dietary fiber – its sources – the importance of fiber – the relationship between fiber and heart disease.	Students' knowledge of natural dietary fiber	٢	Fourth
Reports, theoretical, oral and	Blackboard, powerpoint slides	Fats – Essential fatty acids – The role of fats in the body – Fats in	Students' knowledge of the role of fats in the	٢	Fifth

written examinations, semi-semester and quarterly		food – Nutritional needs – The relationship of fats to heart disease and cancer.	body		
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Proteins - amino acids - food as a source of amino acids - functions of proteins - need for proteins - food sources.	Students' knowledge of the role of proteins in the body	٢	Sixth
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Energy - the body's need for energy - energy balance - nutritional caloric value - nutritional tables.	Students' understanding of the body's need for energy	٢	Seventh
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Water - its distribution in the body - its functions - individual water requirements for electrolytes in the body - sodium - potassium - chloride.	Students' awareness of individual water needs	٢	Eighth
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Students' knowledge of salts	Students' knowledge of mineral salts	٢	Ninth
Reports, theoretical, oral and written	Blackboard, powerpoint slides	Fat-soluble vitamins: Vitamin K, D, A.	Students' knowledge of fat-soluble vitamins	٢	Tenth

examinations, semi-semester and quarterly					
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Water-soluble vitamins: Vitamin C, B1. B6. B1. B2 - folic acid itacin.	Students' knowledge of water-soluble vitamins	٢	Eleventh
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Choosing meals - nutritional classification - the four food groups - nutritional value of food groups.	Students' knowledge of the four food groups	٢	Twelfth
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Vegetarian food - natural (healthy) food - nutritional education.	Students' knowledge of vegetarian diets	٢	Thirteenth
Reports, theoretical, oral and written examinations, semi-semester and quarterly	Blackboard, powerpoint slides	Evaluation of nutritional status - medical and clinical evaluation - laboratory and biochemical evaluation - evaluation of physical measurements.	Students' knowledge of nutritional status assessment	٢	Fourteenth
Reports, theoretical, oral and written examinations,	Blackboard, powerpoint slides	Evaluation of food consumption - methods of epidemiological research in the field of	Students' knowledge of food consumption assessment	٢	Fifteenth

semi-semester and quarterly		nutrition			

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.
- The semester exam is 30 marks - Final exam: 70 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Nutrition: Concepts and Controversies" byFrances Sizer and Ellie Whitney – Year: 2021.
Main references (sources)	Advanced Nutrition and Human Metabolism" by Sareen S. Gropper and Jack L. Smith – Year: 2020.
Recommended books and references (scientific journals and reports...)	The Science and Practice of Nutrition Support" by Carol Ireton Jones – Year: 2016 Clinical. Nutrition: A Functional Approach" by the Institute for Functional Medicine – Year: 2014.
Electronic references and websites	/

1. Course name:
Crimes of the Ba'ath regime in Iraq
2. Course code:
NTU 203
3. Semester/Year:
Chapter 1 / 2025 − 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: A.M. Adnan Abdulkarim Khalil Email:
8. Course Objectives:
1- The primary goal of the crimes course is for students to learn about the tragic history caused by the Baath Party in Iraq. 2- Introducing students to the types of crimes and their countless numbers. 3- Educating the rising generations about the twisted ways of the tyrannical Baath administration system. 4- Study the motives behind carrying out the Baath crimes against the people. 5- Study the political, administrative and military path of the Baath Party.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Education strategies - Study strategy - Conclusion strategy - Spaced practice strategy - Strategy for switching between ideas - Strategy for providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Basic terms	Students' knowledge of basic terminology	٢	the first
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	The history of the Ba'ath Party's emergence in Iraq.	Students' knowledge of the history of the Ba'ath Party's founding	٢	the second
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Types of crime	Students' knowledge of types of crime	٢	Third
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Causes and reasons for crimes	Students' knowledge of the causes and motives of crimes	٢	Fourth
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	The perpetrators of the Baath crimes and its oppressive leadership	Students know who perpetrated the Ba'athist crimes and led it.	٢	Fifth

Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	The United Nations' view of the crimes of the Baath Party	Students' awareness of Ba'athist crimes and the United Nations' perspective	٢	Sixth
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Human rights and Baath crimes	Students' knowledge of human rights and the crimes of the Ba'ath Party	٢	Seventh
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	The Baath regime's human rights violations	Students' awareness of the Ba'ath regime's human rights violations	٢	Eighth
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Military crimes	Students' knowledge of military crimes	٢	Ninth
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Political crimes	Students' knowledge of political crimes	٢	Tenth
Reports, written, oral, and mid-term and semester	Blackboard, powerpoint slides	Economic crimes	Students' knowledge of economic crimes	٢	Eleventh

exams					
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Civil crimes	Students' knowledge of civil crimes	٢	Twelfth
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	social crimes	Students' knowledge of social crimes	٢	Thirteenth
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Genocide crimes	Students' knowledge of genocide crimes	٢	Fourteenth
Reports, written, oral, and mid-term and semester exams	Blackboard, powerpoint slides	Review lectures comprehensively.	Students gain an intensive understanding of the curriculum and review the material.	٢	Fifteenth

11. Course evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- Midterm exam: 30 marks - Final exam: 70 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	/
Main references (sources)	Saddam Hussein, upbringing, history, crime - Abu Salam Abdullah, 1990. Saddam resurrected a vision from within an authoritarian regime, Youssef Sasson 2015.
Recommended books and references (scientific journals and reports...)	
Electronic references and websites	The website of the United Nations Human Rights Organization.

1. Course name:
Professional ethics
2. Course code:
NTU204
3. Semester/Year:
First semester / 2025 − 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: Hassan Muhammad Hassan Email:
8. Course Objectives:
To familiarize graduates with the fundamental principles of professional conduct for healthcare professionals. To equip graduates with the skills to conduct themselves professionally and harmoniously within their professional environment (patients, their companions, healthcare staff, and medical equipment).
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Education strategies - Study strategy - Conclusion strategy - Spaced practice strategy - Strategy for switching between ideas - Strategy for providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Professional behavior - its definition - its concept - its practical applications - the relationship between employees and their bosses. Principles of professional ethics in the stages of cultural developments - the history of nursing - the beginning of nursing - nursing in different religions - nursing in early Islam - Arab and Islamic civilization.	Students' awareness of the importance of professional conduct	٢	the first
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Modern nursing – Nursing in Iraq – The development of the profession – The opening of schools, institutes and colleges specializing in nursing – Professional ethics and nursing – Definition of the profession – Rules of ethics – Rules of professional ethics – Ethics.	Students' knowledge of modern nursing – Nursing in Iraq	٢	the second
Reports, theoretical, oral and written examinations,	whiteboard, PowerPoint slides	The importance of professional ethics - qualities and morals that must be present in a male and female nurse -	Students should be aware of the qualities and ethics that should be	٢	Third

semi-semester and quarterly		the historical roots of nursing professional ethics - features of modern nursing - constitutions of the profession and its benefits - definition of the law - definition of the constitution of professional ethics - benefits of professional constitutions.	present in a male and female nurse.		
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Rules of Nursing Services – The Humanity of Nursing – The International Council of Nurses Code and the Nurse's Basic Responsibility – The Nurse and Relationships – The Nurse and People Relationship – The Nurse and Professional Practice Relationship – The Nurse and Society Relationship – The Nurse and Her Staff Relationship – The Nurse and Doctor Relationship – The Nurses' Values Relationship Among Themselves.	Students' knowledge of nursing service rules	٢	Fourth
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Values and their effects on the practice of the profession - definition of values - classification of values - nursing and values - formation of values - methods of forming values - the effect of growth on the acquisition of values -	Students' understanding of the role of values and their impact on professional practice	٢	Fifth

		classification of values - theoretical values - economic values - aesthetic values - social values - religious values - political values.			
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Personal and professional values in nursing – Types of values – Personal values of a nurse – Professional values of a nurse.	Students' understanding of the role of personal and professional values in nursing	٢	Sixth
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Habits and their effects on nursing practice - definition of habits - types of habits - motor habits - intellectual habits - emotional habits - congenital habits.	Students' understanding of the role and impact of habits in nursing practice	٢	Seventh
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Personality – The meaning of personality – Definition of personality – Theories of importance in the study of personality – Krenschmer's theory – Shelron's theory – Jung's theory.	Students' knowledge of the personality and theories	٢	Eighth
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Personality types - introverted - humanistic - hysterical - depressive - volatile - anxious - obsessive - suspicious - aggressive.	Students' knowledge of personality types	٢	Ninth
Reports, theoretical,	whiteboard, PowerPoint	The nurse's appearance and professional nursing	Students' knowledge of	٢	Tenth

oral and written examinations, semi-semester and quarterly	slides	attire – the rules and duties followed by the nurse – the personal and professional qualities of the nurse – the professional standards required by the nursing profession.	the nursing uniform – the rules and duties followed by nurses		
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	The role of the nurse regarding some professional situations in the hospital for certain practices - negligence - falls - errors resulting from administering medications - miscarriages - burns - suicide - practicing medicine - preserving the patient’s personal property - failure to observe and record information.	Students will learn about the role of a nurse in certain professional situations within the hospital.	٢	Eleventh
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Regulations and Instructions – The Importance of Adhering to Regulations and Instructions – The Role of the Nurse in Obeying and Implementing Regulations and Instructions – Mental Health and How to Prevent It – Definition of Mental Health – Factors Affecting the Individual's Mental Health – Maslow's Hierarchy of Needs – Prevention of Mental Illness – Principles and Objectives to be Adopted as a	Students' awareness of the importance of adhering to rules and instructions	٢	Twelfth

		Guide for the Nurse's Work			
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Occupational health and safety for hospital workers - division of hospital workers - occupational risks to which the medical group is exposed - prevention of occupational risks - prevention of work risks and accidents - prevention of risks of bacterial and radioactive contamination - prevention of risks of disease infection.	Students' knowledge of occupational health and safety for hospital staff	٢	Thirteenth
Reports, theoretical, oral and written examinations, semi-semester and quarterly	whiteboard, PowerPoint slides	Communication - Communication methods - Direct communication - (individual - group) - Indirect communication - Communication methods - How the nurse communicates with the patient and conveys the correct health idea - Behavior of dealing with the patient - Receiving and dealing with the patient - Maintaining professional secrets - Setting appointments for the required procedure requirements - Maintaining the patient’s needs.	Students' knowledge of communication – and communication methods	٢	Fourteenth
Reports, theoretical,	whiteboard, PowerPoint	Behavioral skills in dealing with medical	Students' awareness of	٢	Fifteenth

oral and written examinations, semi-semester and quarterly	slides	devices and equipment – daily review of devices, tools and solutions – requirements and preparation for daily work, maintenance, upkeep and preservation – preparation of necessary medicines and proper handling of them – applications of professional conduct.	the importance of proper behavior when dealing with medical devices and equipment		

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.
- The semester exam is 30 marks - Final exam: 70 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Ethics for the Professions" by John Rowan and Samuel Zinaich – Year: 2019.
Main references (sources)	"Principles of Biomedical Ethics" by Tom L. Beauchamp and James F. Childress – Year: 2019.
Recommended books and references (scientific journals and reports...)	"Ethics and Professionalism in Healthcare: Transition and Challenges" by Sabine Salloch and other contributors – Year: 2020.
Electronic references and websites	/

1. Course name:
My life statistics
2. Course code:
TIDO205
3. Semester/Year:
First semester / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: Balqis Abdul Razzaq Email: balqis.khudair@ntu.edu.iq
8. Course Objectives:
1. The primary objective is to equip students with the ability to understand and apply the concept of statistics. 2. To emphasize the knowledge and skills required to efficiently perform the duties and responsibilities of a paramedic. 3. To apply the concept of biostatistics in the medical field. 4. Upon completion of the course, students will be able to understand the applications of statistics in the medical field.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Coordinates and drawing functions in the plane - functions - absolute value - inequalities	Students' knowledge of basic mathematical concepts	٢	the first
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	The function of displacement, slope, and equation of a straight line	Students know the equation of a straight line	٢	the second
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Theory of Purpose and Conditions of Continuity	Students' understanding of purpose and continuity	٢	Third
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	The purpose of infinity, conditions for continuity, and applications	Students' understanding of the ultimate goal, which includes infinity.	٢	Fourth
Reports, assignments, mid-term and final oral and	Whiteboard, PowerPoint slides,	Introduction to statistics, statistical concepts, and statistical methods	Students' knowledge of biostatistics	٢	Fifth

written theory exams					
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Statistical theory and its applications	Students' knowledge of statistical concepts	٢	Sixth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Probability Properties - Set Theorem and Group Notation (Basic Notation).	Students' understanding of the concept of probability	٢	Seventh
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Counting techniques – exchange and combinations – calculating the probability of events.	Students' knowledge of arithmetic and counting techniques	٢	Eighth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Probability distribution of a discrete variable - binomial distribution - Poisson distribution.	Students' knowledge of Poisson's distribution	٢	Ninth
Reports, assignments, mid-term and final oral and written	Whiteboard, PowerPoint slides,	Continuous probability – distribution – and normal distribution.	Students' knowledge of the normal distribution	٢	Tenth

theory exams					
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Sample mean and population mean - median - developing a measure of central tendency - reviewing questions and exercises.	Students' knowledge of probability distribution	٢	Eleventh
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Re-establish the differential and the tangent line to the curve – applications.	Students' understanding of the concept of the central tendency scale	٢	Twelfth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Trigonometry – its applications – exercises.	Students' derived knowledge	٢	Thirteenth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	The coefficient of variation is a traditional error – Correlation analysis – Application of statistics in the medical field – Review of questions and exercises.	Students' knowledge of the derivative of trigonometric functions and integration	٢	Fourteenth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard , PowerPoint slides,	Deviations and variations: deviation – dispersion and variability – standard deviation and variance.	Students' knowledge of deviation and variance	٢	Fifteenth

11. Course Evaluation
The grade out of 100 is distributed according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written, and report assessments, etc.
- The semester exam is 30 marks - Final exam: 70 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Introduction Statistics – seven edition–by Prem S.Mann– Calculus–11 edition by Thomas–2005– Biostatistics (A Foundation for Analysis in the Health – Nine edition– by Wayne W. Daniel–2005 sciences)
Main references (sources)	Calculus–11 edition by Thomas–2005 Biostatistics (A Foundation for Analysis in the Nine edition– by Wayne W. Health sciences) Daniel–2005
Recommended books and references (scientific journals and reports...)	/
Electronic references and websites	/

Course Description Level Two / Second Semester

1. Course Name:
Principles of occupational safety
2. Course code:
IMA 212
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: M.M. Taha Akram Shabib Email: Taha.ak@ntu.edu.iq
8. Course Objectives:
١ - Providing the necessary knowledge and skills for preventive precautions and emergency measures, including training in the use of personal protective equipment and implementing emergency plans. 2- To have the ability to think correctly and take appropriate action in the event of any circumstance occurring in the laboratory. 3- To know the dangers of fires, how to deal with them, and the rules of fire prevention. 4- Providing the necessary skills to plan and implement safety programs and safety management in the workplace, including performance evaluation and continuous improvement. 5- To be familiar with safety guidelines in laboratories. 6- Identify the causes of common accidents and accidents in the work environment, and apply effective investigation techniques to address accidents and avoid their recurrence. 7- Encouraging awareness of the importance of occupational safety and promoting safe behaviors in the workplace through awareness and training.
9. Teaching and learning strategy:

- Strategy for explaining study materials by the academic staff - Self-learning strategy - Discussion strategy - Knowledge strategy using homework assignments for school vocabulary - Strategy for eliciting ideas - E-learning strategy - Study strategy - Strategy of providing examples and visiting the library and websites

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Introduction – Occupational Safety	Students' knowledge of occupational safety and basic occupational safety skills	٢	the first
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Occupational safety goals	Students' knowledge of the main objectives of occupational safety	٢	the second
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Definition of work environment	Students' knowledge of the work environment	٢	Third
Reports, assignments, mid-term and final	whiteboard, PowerPoint slides	Risk management	Students' knowledge of the main objectives of risk	٢	Fourth

oral and written theory exams			management		
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Objectives of risk management	Students' knowledge of the main objectives of risk management	٢	Fifth
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Personal protective equipment – its types and how to use it.	Students' knowledge of personal protective equipment and how to use it	٢	Sixth
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Chemical and physical hazards	Students' knowledge of physical and chemical hazards and how to deal with them	٢	Seventh
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Types of fires and instructions for fire prevention	Students' awareness of fire hazards and how to deal with them	٢	Eighth
Reports, assignments, mid-term and final oral and	whiteboard, PowerPoint slides	Identifying and investigating incidents	Students learn how to identify the causes of accidents and common	٢	Ninth

written theory exams			incidents in the workplace.		
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Developing emergency skills and measures	Students' knowledge of how to implement emergency plans	٢	Tenth
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Understanding the laws and regulations related to occupational safety	Students' knowledge of occupational safety laws and regulations	٢	Eleventh
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	first aid	Students' knowledge of essential and basic first aid procedures	٢	Twelfth
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Safety in enclosed spaces and confined areas, the importance of mental health in the workplace and how to promote it.	Students' knowledge of how to handle safety procedures in enclosed spaces and ways to promote mental health	٢	Thirteenth
Reports, assignments, mid-term and final oral and written	whiteboard, PowerPoint slides	Safety in specific fields such as construction, chemical industry, oil and gas, medicine, agriculture, etc.	Students' knowledge of safety methods in various fields	٢	Fourteenth

theory exams					
Reports, assignments, mid-term and final oral and written theory exams	whiteboard, PowerPoint slides	Occupational safety assessment tools and how to use them	Students' knowledge of occupational safety assessment tools and reports and how to use them	٢	Fifteenth

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.
- The semester exam is 30 marks - Final exam: 70 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Occupational Safety and Health for Technologists, Engineers, and Managers" by David L. Goetsch and Eugene R. Braswell.2021 Introduction to Occupational Health in Public Health Practice" by Bernard J. Healey, Kenneth T. Walker, and Elizabeth T. Masters.2019
Main references (sources)	Safety Professional's Reference and Study Guide" by W. David Yates.2019
Recommended books and references (scientific journals and reports...)	Occupational Health and Safety Management: A Practical Approach" by Charles D. Reese.2019
Electronic references and websites	Noor Library for downloading free books

1. Course Name:
Hematology
2. Course code:
IMA 216
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
15 hours practical + 15 hours theoretical / Number of units: 3
7. Name of the course coordinator
Name: Dr. Yasser Khalaf Hassan Email: Yassir.alsamarrai@gmail.com
8. Course Objectives:
1- Introducing students to the types of blood-forming cells, such as red cells, white cells, and platelets, and how they affect the body's function in general. 2- Introducing students to blood diseases and disorders. Explaining the various diseases that affect the blood, such as anemia, clotting diseases, platelet deficiency diseases, and leukemia. 3- Teaching students how to conduct various blood tests and understand laboratory results related to blood health. 4- Introducing students to the process of blood clotting and its importance in stopping bleeding and preventing excessive blood loss.
9. Teaching and learning strategy:
- Strategy for explaining academic subjects by the academic staff - Knowledge strategy using homework assignments for academic vocabulary - Discussion strategy - Self-learning strategy - E-learning strategy - Study strategy - Idea generation strategy - The strategy of providing examples and visiting the library and websites

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Introduction to blood – a study of blood content.	Students' knowledge and application of blood content	٣	the first
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Blood formation in fetuses, children, and adults.	Students' knowledge and application of the blood formation process	٣	the second
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Normal red blood cells - their importance - their structure - the formation and function of red blood cells.	Students' knowledge and application of red blood cells and their function	٣	Third
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Increased red blood cell count – causes – clinical signs and laboratory diagnosis.	Students' knowledge and application of the causes of increased red blood cell count and its effects on humans	٣	Fourth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Study of red blood cell morphology in health and disease – Red blood cell size abnormalities (R.B.C.).	Students' knowledge and application of red blood cell size abnormalities	٣	Fifth
Reports, assignments, mid-term and final oral and	Whiteboard, PowerPoint slides,	Abnormalities in the shapes of red blood cells.	Students' knowledge and application of the types of abnormal	٣	Sixth

written theory exams			blood cells in terms of shape		
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Disorders in the colors of red blood cells.	Students' knowledge and application of abnormal red blood cell colors	٣	Seventh
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	The normal percentage of hemoglobin in the blood, its contents, and its importance.	Students should learn and apply the principles of normal hemoglobin levels in the human body for different ages and genders.	٣	Eighth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Studying normal Hb types.	Students' knowledge and application of the types of normal hemoglobin in the human body for different ages and genders	٣	Ninth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Heterotypes of Hb	Students' knowledge and application of the types of abnormal hemoglobin in the human body	٣	Tenth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Anemia – Definition, Classification and Types.	Students' knowledge and application of anemia and its types	٣	Eleventh
Reports, assignments, mid-term and final oral and written	Whiteboard, PowerPoint slides,	Anemia – Causes, clinical signs and laboratory results.	Students' knowledge and application of anemia, clinical signs, and other	٣	Twelfth

theory exams			related information		
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	White blood cells: their function, types, maturation, abnormalities, and diseases	Students' knowledge and application of information about white blood cells, their function and types	٣	Thirteenth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Blood clotting - its definition - its types - clotting factors - types of blood clotting disorders.	Students' knowledge and application of how blood clots – clotting factors and others	٣	Fourteenth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides,	Leukemia: Definition and Classification.	Students' knowledge and application of various blood diseases, including leukemia	٣	Fifteenth

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.
- The semester exam is 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Essentials of Blood Banking and Transfusion Medicine - Sally V. Rudmann, Ph.D – 2002
Main references (sources)	Modern Blood Banking & Transfusion Practices - Denise M. Harmening – 201٢
Recommended books and references (scientific journals and reports...)	Transfusion Medicine and Hemostasis: Clinical and Laboratory Aspects - Christopher D. Hillyer, MD, Beth H. Shaz, MD, PhD, James C. Zimring, MD, PhD, Thomas C. Abshire, MD – 2013
Electronic references and websites	Noor Office for downloading free books

1. Course Name:
Graduation project
2. Course code:
IMA 215
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 working hours / Number of units: 2
7. Name of the course coordinator
Name: M.D. Abeer Saleh Hassan Email: abeer.sa@ntu.edu.iq
8. Course Objectives:
The ability to define problems and find appropriate solutions. Proficiency in using various devices and tools to implement the project. Students' ability to complete integrated production tasks.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Discussing the projects that are being tested and determining the method and plan of work - defining and distributing responsibilities and setting a timetable for project implementation.	Knowledge and practical application	٢	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Implementing the project in laboratories and preparing reports on the stages reached, with weekly follow-up of work progress and work obstacles.	Knowledge and practical application	٢	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Implementing the project in laboratories and preparing reports on the stages reached, with weekly follow-up of work progress and work obstacles.	Knowledge and practical application	٢	Third
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Implementing the project in laboratories and preparing reports on the stages reached, with weekly follow-up of work progress and work obstacles.	Knowledge and practical application	٢	Fourth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Students are discussed by the Department's Executive and Scientific Plans Evaluation Committee and are considered an	Knowledge and practical application	٢	Fifth

		evaluation for the end of the first semester.			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Resumption of project implementation and completion of the practical aspects	Knowledge and practical application	٢	Sixth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Resumption of project implementation and completion of the practical aspects	Knowledge and practical application	٢	Seventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Resumption of project implementation and completion of the practical aspects	Knowledge and practical application	٢	Eighth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Resumption of project implementation and completion of the practical aspects	Knowledge and practical application	٢	Ninth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Resumption of project implementation and completion of the practical aspects	Knowledge and practical application	٢	Tenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Resumption of project implementation and completion of the practical aspects	Knowledge and practical application	٢	Eleventh
Reports, assignments, written,	Whiteboard, PowerPoint slides,	Resumption of project implementation and completion of the	Knowledge and practical application	٢	Twelfth

oral, and written exams	conducting laboratory experiments	practical aspects			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Discussing the project details and guiding students to prepare the report in its final form (which is considered the evaluation for the second semester).	Knowledge and practical application	٢	Thirteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Completing the project with its practical and theoretical aspects and preparing for the final discussion.	Knowledge and practical application	٢	Fourteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Final discussion of the project	Knowledge and practical application	٢	Fifteenth

11. Course Evaluation
Distributing the grade out of 100 according to the tasks assigned to the student, such as practical preparation, preparing reports, research, etc.
- The final discussion is worth 100 points.

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Research Design: Qualitative, Quantitative, and Mixed Methods Approaches - John W. Crewell – 2014 – Approaches
Main references (sources)	Research Methodology: A Step-by-Step Guide for Beginners -Ranjit Kumar – 2014 The Craft of Research - Wayne C. Booth, Gregory G. Colomb, Joseph M . Williams – 2016.
Recommended books and references (scientific journals and reports...)	Designing and Conducting Mixed Methods Research - John W. Creswell, Vicki L. Plano Clark – 2011.
Electronic references and websites	Noor Library for downloading free books

1. Course Name:
Arabic
2. Course code:
NTU 202
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours of theory / Number of units: 2
7. Name of the course coordinator
Name: Dr. Shaker Mahmoud Khattab Email: shakrmkm1988@gmail.com
8. Course Objectives:
The Arabic language aims to teach Arabic grammar, grammatical markers, how to analyze and pronounce words correctly, and how to choose appropriate words based on their position in sentences. - Knowledge of primary and secondary grammatical markers. - Knowledge of grammar and the miraculous nature of the Quran.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - Strategy for switching between ideas - Strategy for providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Subject and predicate	Students know how to write the subject and predicate grammatical signs in the Arabic language	٢	the first
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	The verb, the subject, and the object	Students' knowledge of using the correct rules of verb, subject, and object in the Arabic language	٢	the second
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Intransitive and transitive verbs	Students' knowledge of using the correct rules for intransitive and transitive verbs in the Arabic language	٢	Third
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	pronouns	Students' knowledge of pronouns in the Arabic language	٢	Fourth
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Original and secondary diacritical marks	Students' knowledge of using the correct rules of primary and secondary diacritical marks in the Arabic	٢	Fifth

			language		
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	The Five Verbs	Students’ knowledge of using the correct rules for the five verbs in the Arabic language	٢	Sixth
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Conjunctions and their meanings	Students' knowledge of using the correct grammar, conjunctions, and their meanings in the Arabic language	٢	Seventh
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Hamzat al-Wasl and Hamzat al-Qat'	Students' knowledge of using the correct rules of hamzat al-wasl and hamzat al-qat' in the Arabic language	٢	Eighth
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Hamzat al-Wasl and Hamzat al-Qat'	Students' knowledge of using the correct rules of hamzat al-wasl and hamzat al-qat' in the Arabic language	٢	Ninth
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Extra letters	Students’ knowledge of using the correct rules for extra letters in the Arabic language	٢	Tenth
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Noon and Tanween	Students' knowledge of using the correct rules for the letter Noon and Tanween in the	٢	Eleventh

			Arabic language		
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Administrative discourse	Students' knowledge of administrative discourse	٢	Twelfth
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	Administrative discourse	Students' knowledge of administrative discourse	٢	Thirteenth
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	The most common linguistic errors in official documents	Students should be aware of the most common linguistic errors found in official Arabic language textbooks.	٢	Fourteenth
Reports, assignments, written, oral, and written exams	whiteboard, PowerPoint slides	The most common linguistic errors in official documents	Students should be aware of the most common linguistic errors found in official Arabic language textbooks.	٢	Fifteenth

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.
- The semester exam is 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Basic rules in the Arabic language – Muhammad Hussein Al-Masoumi 2008.
Main references (sources)	Introduction to Arabic Linguistics - Abdullah Al-Taie 2015. Contemporary Arabic Literature - Muhammad Muhammad Hussein 2010.
Recommended books and references (scientific journals and reports...)	Arabic Grammar Level One – Abdulrahman Al-Fawzan 2016.
Electronic references and websites	Noor Library for downloading free books.

1. Course Name:
Computer
2. Course code:
NTU 201
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
15 hours practical + 15 hours theoretical / Number of units: 2
7. Name of the course coordinator
Name: Saja Juma Hammad Email: saja.jumaa@ntu.edu.iq
8. Course Objectives:
The student will be familiar with various computer applications and be able to distinguish between the types of software that can be used, and learn about artificial intelligence and the prospects for dealing with it and how to benefit from it in all areas of life.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Security and Networks: What is a network? Types of networks – Basic network components – Network security fundamentals – Understanding network threats – Network troubleshooting and repair.	Students' knowledge and application of the concept of security and networks	٢	the first
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	E-commerce: Concepts of electronic banking services, which include internet banking services: ATM and debit card services, telephone banking services, SMS banking services, electronic alerts, and mobile banking services.	Students' knowledge and application of the concept of e-commerce	٢	the second
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	E-commerce: Concepts of electronic banking services, which include internet banking services: ATM and debit card services, telephone banking services, SMS banking services, electronic alerts, and mobile banking services.	Students' knowledge and application of the concept of e-commerce	٢	Third
Reports,	Whiteboard,	Computer	Students'	٢	Fourth

assignments, written, oral, and written exams	PowerPoint slides, conducting laboratory experiments	Troubleshooting: Identifying and resolving common hardware and software problems encountered by computer users. Essential troubleshooting techniques and tools for diagnosing and resolving issues.	knowledge and application in computer troubleshooting and repair		
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Computer Troubleshooting: Identifying and resolving common hardware and software problems encountered by computer users. Essential troubleshooting techniques and tools for diagnosing and resolving issues.	Students' knowledge and application in computer troubleshooting and repair	٢	Fifth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Introduction to artificial intelligence: definition of artificial intelligence, history of artificial intelligence, artificial intelligence techniques and methodologies, challenges and ethical considerations.	Students' knowledge and application of an introduction to artificial intelligence	٢	Sixth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Introduction to artificial intelligence: definition of artificial intelligence, history of artificial intelligence, artificial intelligence	Students' knowledge and application of an introduction to artificial intelligence	٢	Seventh

		techniques and methodologies, challenges and ethical considerations.			
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Artificial intelligence in our daily lives: Artificial intelligence in smartphones and virtual assistants such as Siri or Google Assistant.	Students' knowledge and application of artificial intelligence in our daily lives	٢	Eighth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Artificial intelligence in our daily lives: Artificial intelligence in smartphones and virtual assistants such as Siri or Google Assistant.	Students' knowledge and application of artificial intelligence in our daily lives	٢	Ninth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Artificial intelligence applications: education, healthcare, finance, transportation, marketing, and advertising.	Students' knowledge and application of artificial intelligence applications	٢	Tenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Artificial intelligence applications: education, healthcare, finance, transportation, marketing, and advertising.	Students' knowledge and application of artificial intelligence applications	٢	Eleventh
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Artificial Intelligence and Society: (How artificial intelligence affects social relations, artificial intelligence, international relations, artificial intelligence, and the future of humanity).	Students' knowledge and application of artificial intelligence and society	٢	Twelfth

Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Artificial Intelligence and Society: (How artificial intelligence affects social relations, artificial intelligence, international relations, artificial intelligence, and the future of humanity).	Students' knowledge and application of artificial intelligence and society	٢	Thirteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	Ethical challenges in artificial intelligence (the ethics of artificial intelligence, privacy, surveillance, and the impact of artificial intelligence on the labor market.	Students' understanding and application of ethical challenges in artificial intelligence	٢	Fourteenth
Reports, assignments, written, oral, and written exams	Whiteboard, PowerPoint slides, conducting laboratory experiments	The future of artificial intelligence (future trends in artificial intelligence, recent research and emerging technologies).	Students' knowledge and application of the future of artificial intelligence	٢	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- The semester exam is 40 marks -Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete", 16th Edition (2020).
Main references (sources)	Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", 1st Edition (2024)
Recommended books and references (scientific journals and reports...)	Al-Khader Ali Al-Khader, Researcher, "Computer Fundamentals," 2016. Dr. Adel Abdel Nour, "Introduction to the World of Artificial Intelligence," 2005..
Electronic references and websites	/

1. Course Name:
Poisons
2. Course code:
IMA 213
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Dr. Youssef Riyad Muhammad Email: Yousef.alsajee@gmail.com
8. Course Objectives:
To study the principle of exposure to various toxic chemicals and physical elements, environmental factors, their sources, mechanisms of toxicity, and their danger to humans, so that students can understand the measures required to protect living organisms against suspected toxic hazards, how to deal with them carefully, and become familiar with the most important methods of treatment useful for all toxic elements and compounds.
9. Teaching and learning strategy:
- Brainstorming strategy - Teamwork strategy - Discussion strategy - Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy - E-learning strategy - Study strategy - Conclusion strategy - Spaced practice strategy - The strategy of switching between ideas - The strategy of providing examples

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Introduction: Host factor, environmental, toxic influence factors.	Students' knowledge and application of toxicology and toxic effect factors	٤	the first
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Toxic carcinogenic substances - an introduction to the use of scientific laboratory equipment.	Students' knowledge and application of information on toxic and carcinogenic substances and the use of scientific laboratory equipment.	٤	the second
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Target organs and hepatotoxemia (systemic hepatotoxemia) – substances toxic to liver cells.	Students' knowledge and application of toxic substances to liver cells	٤	Third
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Target organs and systemic toxicology – respiratory system nicotine poisoning.	Students' knowledge and application of toxic substances on the respiratory system	٤	Fourth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Target organs and systemic toxicology – kidney cyanide toxicity.	Students' knowledge and application of toxic substances on college campus	٤	Fifth

Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Target organs and dermatology; toxicity of pollutants	Students' knowledge and application of toxic substances on the skin	٤	Sixth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Target organs and systemic toxicology – nervous system toxicity of household cleaners.	Students' knowledge and application of toxic substances on the nervous system	٤	Seventh
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Target organs and systemic toxicology – blood, snake toxicity.	Students' knowledge and application of toxic substances on the blood	٤	Eighth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Toxic substances: Food additives and pollutants; Hydrocarbon toxicity	Students will learn and apply knowledge about toxic food additives and pollutants, specifically hydrocarbon toxicity.	٤	Ninth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Toxic substances: pesticides – urinary tract toxic agents.	Students' knowledge and application of pesticides and toxic agents on the urinary system	٤	Tenth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Toxic substances: toxic metals – pesticides	Students' knowledge and application of toxic metals	٤	Eleventh
Reports,	Whiteboard,	Toxic substances:	Students'	٤	Twelfth

assignments, mid-term and final oral and written theory exams	PowerPoint slides, conducting practical experiments	radiation and radioactive substances, the toxic effect of some plants	knowledge and application of radiation and radioactive materials, and the toxic effects of some plants.		
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Environmental toxins: air pollution, water and soil pollutants - toxicity of some preservatives in canned foods.	Students' knowledge and application of the toxicity of some preservatives in canned foods	٤	Thirteenth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Gases (tear gas, pepper spray, scorpion venom toxicity)	Students' knowledge and application of gas toxicity	٤	Fourteenth
Reports, assignments, mid-term and final oral and written theory exams	Whiteboard, PowerPoint slides, conducting practical experiments	Cyanide (H2S) The toxic effect of carbon monoxide gas.	Students' knowledge and application of gas toxicity	٤	Fifteenth

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.
- The semester exam is 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Goldfrank's Toxicologic Emergencies- Lewis R. Goldfrank, Neal Flomenbaum, Mary Ann Howland, Robert S. Hoffman, Lewis S. Nelson, Neal A. Lewin – 2006
Main references (sources)	Clinical Toxicology: Principles and Mechanisms - Frank A. Barile, P. Sidney Jackson, Kathryn R. Matthias - 2010
Recommended books and references (scientific journals and reports...)	Casarett & Doull's Toxicology: The Basic Science of Poisons Curtis D. Klaassen, John B. Watkins, III – 2008 Hayes' Principles and Methods of Toxicology - A. Wallace Hayes – 2014
Electronic references and websites	/

1. Course Name:
Emergency Nursing 2
2. Course code:
IMA 208
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Dr. Mohammed Mahmoud Sadaa Email: mohammed.mahmood394@gmail.com
8. Course Objectives:
Understanding the fundamentals and principles of emergency management. Knowing how to provide emergency care to a choking patient with upper airway obstruction or feeding tube blockage, as well as other injuries such as paralysis. Learning to administer medications and intravenous fluids, and understanding the resulting complications.
9. Teaching and learning strategy:
- Strategy of explaining course material by the academic staff - Strategy of acquiring knowledge through homework assignments for course vocabulary - Strategy of discussion - Strategy of self-learning - Strategy of e-learning - Strategy of studying - Strategy of generating ideas - Strategy of providing examples and visiting the library and websites

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Patient management with burns, pathophysiology of burns, systemic response, emergency phase of burn care.	Students' knowledge and application of the pathophysiology of burns	٤	the first
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Intermediate burn care, burn wound, general wound care, infection prevention, dressing change, pain management, nutritional support.	Students' knowledge and application of general wound care, infection prevention, and dressing changes.	٤	the second
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Intermediate burn care, burn wound, general wound care, infection prevention, dressing change, pain management, nutritional support.	Students' knowledge and application of general wound care, infection prevention, and dressing changes.	٤	Third
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Management of the patient in a splint, types of splints, patient in traction, types of traction.	Students' knowledge and application of general patient care in a splint, types of splints	٤	Fourth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Patient management in splints, types of splints, patient in traction, types of traction, principle of effective traction.	Students' knowledge and application of general patient care in a splint, types of splints	٤	Fifth
Reports, assignments, oral and written mid-term and	The whiteboard, the PowerPoint slides.	Emergency management of fracture patients, types of fractures, clinical manifestations,	Students' knowledge and application of fracture types, clinical	٤	Sixth

final exams		diagnosis	manifestations, and diagnosis		
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Emergency management of fracture patients, types of fractures, clinical manifestations, diagnosis.	Students' knowledge and application of fracture types, clinical manifestations, and diagnosis	٤	Seventh
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Temperature-related emergencies, heatstroke, heat exhaustion.	Students' knowledge and application of temperature-related emergency procedures	٤	Eighth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Poisoning involves ingesting "poisons, inhaling poisons, and handling poisoning cases in emergency situations."	Students' knowledge and application of poisoning-related emergency procedures	٤	Ninth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Emergency management for snake, eagle, and insect bites.	Students' knowledge and application of procedures for handling bite-related emergencies	٤	Tenth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Emergency management for suicidal patients and drug and alcohol abuse	Students' knowledge and application of emergency procedures related to suicide bombers and drug and alcohol abusers	٤	Eleventh
Reports, assignments, oral and	The whiteboard, the	Body mechanics, body positioning, patient transfer principle.	Students' knowledge and application of the	٤	Twelfth

written mid-term and final exams	PowerPoint slides.		principle of patient transport in emergency situations		
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Stomach feeding, irrigation, symptoms, indications, nursing care.	Students' knowledge and application of emergency procedures related to the principle of gastric lavage	٤	Thirteenth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Suturing the wound in the emergency department, purpose, principles of suturing, .role of nursing staff	Students' knowledge and application of emergency procedures related to wound suturing	٤	Fourteenth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, the PowerPoint slides.	Foreign bodies in the eye, nose, ear, and throat and emergency management.	Students' knowledge and application of procedures for handling emergencies involving foreign bodies in the eye, nose, ear, and throat.	٤	Fifteenth

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, and written exams, reports, etc.
- The semester exam is 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Fred , Community Medicine , 5 TH ED . London 1984 .
Main references (sources)	Bayer . M. Community health NURRSING In Deve loping country Oxford – London 1976 .
Recommended books and references (scientific journals and reports...)	Kart Community Health Nursing Philadelphia 1981
Electronic references and websites	Noor Library for downloading free books

1. Course Name:
Adult nursing
2. Course code:
IMA 211
3. Semester/Year:
Chapter Two / 2025 – 2026
4. Date the description was prepared:
15 / 9 / 2025
5. Available forms of attendance:
My presence
6. Number of credit hours (total) / Number of units (total)
30 hours practical + 30 hours theoretical / Number of units: 4
7. Name of the course coordinator
Name: Dr. Marwan Maan Saleh Email: marwan.aldarraji@gmail.com
8. Course Objectives:
1. Identifying risk factors and nursing interventions for maintaining health in a selected community group. 2. Linking the pathophysiological status of nursing specialties and the use of alternatives in disease treatment priorities. 3. Understanding nursing diagnosis.
9. Teaching and learning strategy:
- Strategy for explaining academic subjects by the academic staff - Knowledge strategy using homework assignments for academic vocabulary - Discussion strategy - Self-learning strategy - E-learning strategy - Study strategy - Idea generation strategy - The strategy of providing examples and visiting the library and websites

10. Course Structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Increased intracranial pressure, pathophysiology, clinical manifestations, management, unconscious patient.	Students' knowledge and application of principles and rules - definitions and steps - goals - rehabilitation, prevention of complications, nursing and rehabilitative care, and methods of diagnosis and treatment for increased blood pressure.	٤	the first
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Stroke "Brain Accidents" – Clinical Manifestations, Causes and Management.	Student Knowledge and Application – Student Knowledge of Principles and Rules – Definitions and Steps – Objectives and Principles – Rehabilitation Team – Prevention of Complications, Nursing and Rehabilitation Care, and Methods of Diagnosis and Treatment of Stroke	٤	the second
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Cardiopulmonary resuscitation (CPR).	Student Knowledge and Application – Student Knowledge of Principles and Rules – Definitions and Steps – Objectives and Principles – Rehabilitation Team –	٤	Third

			Prevention of Complications, Nursing and Rehabilitation Care, and Diagnostic and Treatment Methods for CPR		
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Disorders of consciousness, coma, seizures, Glasgow Coma Scale and emergency management of the unconscious patient.	Students' knowledge and application - Students' knowledge of principles, rules, definitions and steps - Objectives and principles - Rehabilitation team - Prevention of complications, nursing and rehabilitative care, methods of diagnosis and treatment of disorders of consciousness.	٤	Fourth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Urinary catheterization - types - purposes - urinary retention - causes - urine irrigation.	Student Knowledge and Application – Student Knowledge of Principles and Rules – Definition and Steps – Objectives and Principles – Rehabilitation Team – Prevention of Complications, Nursing and Rehabilitation Care, and Methods of Diagnosis and Treatment of Urinary Catheterization	٤	Fifth
Reports, assignments, oral and	The whiteboard, PowerPoint	Postoperative complications - wound infection -	Students' knowledge of principles and rules – definitions and steps	٤	Sixth

written mid-term and final exams	slides, conducting practical experiments.	wound separation - bleeding - blood clotting - thrombophlebitis - pneumonia.	– objectives and principles – the rehabilitation team – prevention of complications, nursing and rehabilitative care, methods of diagnosis and treatment – post-operative complications		
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Ulcers - their causes - risk factors - stages of ulcer formation - Ulcer Area Risk Assessment Model "Registration System" for Nursing Management.	Students' knowledge and application of principles and rules, definition and steps, goals and principles, rehabilitation team, prevention of complications, nursing and rehabilitation care, and diagnostic methods.	٤	Seventh
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Center monitors for intensive care units (I.C.U.) equipment, tools, and the role of nursing in intensive care.	Students' knowledge and application of monitoring methods to improve patients' health status	٤	Eighth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Intensive Care Unit - Intensive Care Department Contents - The Role of Nursing.	Students' knowledge and application of monitoring methods to improve patients' health status	٤	Ninth
Reports, assignments, oral and written mid-term and	The whiteboard, PowerPoint slides, conducting	Pleural effusion (refers to an abnormal accumulation of fluid in the	Students' knowledge and application of principles and rules - definitions and steps - goals - rehabilitation -	٤	Tenth

final exams	practical experiments.	pleural space), causes, thoracentesis (draining fluid or air from the pleural space, which is the space between the lungs and the chest wall), ascites, causes, peritoneal effusion (removal of fluid accumulation in the peritoneal cavity).	prevention of complications, nursing and rehabilitation care, diagnostic and treatment methods to remove fluids from the body.		
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Hypertension – Causes – Clinical manifestations – Diagnosis – Complications – Management.	Students will learn and apply the principles and rules – definitions and steps – objectives and rehabilitation for preventing complications, nursing and rehabilitative care, and methods of diagnosis and treatment of hypertension.	٤	Eleventh
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Jaundice – its types – its causes – its clinical manifestations – its treatment.	Students will learn and apply the principles and rules – definitions and steps – objectives – rehabilitation – prevention of complications, nursing and rehabilitative care, and methods of diagnosis and treatment of jaundice.	٤	Twelfth
Reports,	The	Kidney dialysis -	Students will learn and	٤	Thirteenth

assignments, oral and written mid-term and final exams	whiteboard, PowerPoint slides, conducting practical experiments.	its types - purposes - complications - the role of the nursing staff in dialysis.	apply the principles and rules – definitions and steps – objectives – rehabilitation – prevention of complications, nursing and rehabilitative care, and methods of diagnosis and treatment for lung lavage.		
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Bronchial asthma - causes - signs and symptoms - investigations - laboratory tests - emergency management.	Students will learn the principles and rules – definitions and steps – objectives – rehabilitation – prevention of complications, nursing and rehabilitative care, and methods of diagnosis and treatment of asthma.	٤	Fourteenth
Reports, assignments, oral and written mid-term and final exams	The whiteboard, PowerPoint slides, conducting practical experiments.	Itching – Itching in anaphylaxis – Causes – Emergency management – Patient health education.	Students will learn and apply the principles and rules – definitions and steps – objectives – rehabilitation – prevention of complications, nursing and rehabilitative care, and methods of diagnosis and treatment of allergies.	٤	Fifteenth

11. Course Evaluation
The grade is distributed out of 100 according to the tasks assigned to the student, such as .daily preparation, daily, oral, monthly, and written exams, reports, etc
- Midterm exam: 40 marks - Final exam: 60 marks

12. Learning and teaching resources	
Required textbooks (curriculum books, if available)	Brunner, L. and Suddarth D., Textbook of Medical-Surgical Nursing 8th ed., New York, Lippincott Co., 2012.
Main references (sources)	Smeltzer , S. et.al, Textbook of Medical-Surgical Nursing, 10th ed., New York, Lippincott Williams and Wilkins, 2004.
Recommended books and references (scientific journals and reports...)	Lewis S., Heitkemper M., et al., Medical-surgical of Nursing , assessment and Management of Clinical Problems,. 7th ed. Mosby Co, 2007.
Electronic references and websites	Noor Library for downloading free books