



Ministry of Higher Education and Scientific Research
Northern Technical University
Medical Technical Institute - Kirkuk
Nursing Techniques Department



Academic Program Description – Nursing Department

2026 - 2025

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اسم الجامعة : الجامعة التقنية الشمالية
المعهد: المعهد التقني الطبي / كركوك
القسم العلمي: تقنيات التمريض

اسم البرنامج الأكاديمي او المهني: دبلوم في تقنيات التمريض
اسم الشهادة النهائية: دبلوم تقني في التمريض
النظام الدراسي: نظام المقررات

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اسم المعاون العلمي : أ.م. د. علي نجدت نصرت
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التوقيع:

اسم رئيس القسم : ا.م. د. كلاويش نوري طاهر
التاريخ : 2026 / 6 / 2

التوقيع:

دقق الملف من قبل شعبة ضمان الجودة والأداء الجامعي
اسم مدير ضمان الجودة والأداء الجامعي: م.م. محمد حكيم خلف
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مصادقة السيد العميد/ وكالة

2026 \ 6 \ 2



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1. Program Vision

To establish a strong role in advancing healthcare systems by preparing graduates capable of making a tangible impact in clinical and educational environments with knowledge, renewed skills, and professional readiness.

2. Program Mission

To create a dynamic educational environment that refines nursing technical abilities through a holistic approach combining scientific accuracy, human commitment, and rigorous clinical practice, thereby enhancing professional performance.

3. Program Objectives

- 1. Develop students' nursing skills across core specialties.**
- 2. Link theoretical knowledge with practical skills.**
- 3. Strengthen understanding of professional ethics and nursing conduct.**
- 4. Prepare competent technical nurses to address shortages in university-trained nurses.**
- 5. Cultivate leadership qualities to support decision-making and teamwork in healthcare.**



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4. Program Accreditation

Currently not accredited (application submitted for program accreditation).

5. External Influences

The presence of a sponsoring entity that contributes to:

1. Employment opportunities in public and private health institutions.
2. Financial support for training and research.
3. Community need for specialized nursing graduates.
4. Growing public awareness of health and healthy lifestyles.
5. Advances in medical devices and digital healthcare technologies.
6. Shift toward e-learning and blended education.
7. Academic accreditation and quality requirements.
8. Partnerships with local and international universities and health institutions.

6 . Program Structure - First Level

Program Structure	Number of Courses	Educational Credits	Percentage	Notes
University Requirements	6	10	21.7%	4 basics and 2 chosen
Institute Requirements	4	12	26.1%	4 basics
Department Requirements	6	24	52.2%	4 basics and 2 chosen
Summer Training	Required			
Others	Nil			



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7. Program Structure - Second Level

Program Structure	Number of Courses	Educational Credits	Percentage	Notes
University Requirements	4	8	19%	4 Basics
Institute Requirements	1	2	4.8%	1 Basic
Department Requirements	9	32	76.2%	7 Basics and 2 Chosen
Summer Training	Required			
Others	Nil			

8. Programm Discription

Year / Level	Lecture Code	Name of the subject	Hours	
One 2024-2025			Practice	Theory
Two 2025-2026			18	32
			16	28
All the subjects must be explained in details and as per the level of studying.				

Program Courses							
Medical Technical Institute - Nursing Techniques - Level One – Semester One							
Code	Preparatory course	Number of Credits	Number of Hours		Name of the Course		Type of Requirement
			Theory	Practice	In English	In Arabic	
NTU 100	-	2	2	-	Democracy & Human Rights	الديمقراطية وحقوق الانسان	University Requirements
NTU 101	-	2	2	-	English Language	اللغة الانكليزية	
NTU 102	-	2	1	1	Computer	الحاسوب	
NTU 104	-	2	1	1	Physical Activity	الرياضة	
NUT 110	-	7	3	4	Fundamentals of Nursing	اساسيات التمريض	Institute Requirements
NUT 113	-	4	2	2	Microbiology	احياء مجهرية	
NUT 112	-	4	2	2	Clinical Biochemistry	كيمياء حياتية سريرية	
23					Total Credits of Level One/Semester One		



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Level One – Semester Two

Level One - Semester Two							
Code	Preparatory course	Number of Credits	Number of Hours		Name of the Course		Type of Requirement
			Theory	Practice	In English	In Arabic	
NTU 103	-	2	2	-	Arabic Language	اللغة العربية	University Requirements
MTIK 106	-	4	2	2	Physiology	علم وظائف الأعضاء	Institute Requirements
MTIK 109	-	2	2	-	Medical Terminology	المصطلحات الطبية	
MTIK 107	-	4	2	2	Anatomy	التشريح	
MTIK 108	-	2	2	-	Safety in Laboratory & Workshop	سلامة المختبرات والورش	
NUT 111	-	7	3	4	Medical Surgical Nursing	تمريض الباطني الجراحي	Department Requirements
NUT 115	-	2	2	-	Psychology	علم النفس	
23					Total Credits of Level One / Semester Two		



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Level Two – Semester One

Code	Preparatory course	Number of Credits	Number of Hours		Name of the Course		
			Theory	Practice	In English	In Arabic	
NTU 201	-	2	1	1	Computer	الحاسوب	University Requirements
NTU 202	-	2	2	-	Arabic Language	اللغة العربية	
NTU 203	-	2	2	-	Crimes of the Baath Regime in Iraq	جرائم نظام البعث في العراق	
NUT 204	-	6	3	3	Obstetric & Maternity Nursing	تمريض النسائية والتوليد	Institute Requirements
NUT 205	-	6	3	3	Pediatric Nursing	تمريض الاطفال	
NUT 207	-	2	2	-	Nutrition & Diet Therapy	التغذية والمعالجة الغذائية	
MTIK 203	-	2	2	-	Principles of Occupational Safety	السلامة المهنية	Department Requirements
22					Total Credits of Level One / Semester Two		



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Level Two – Semester Two

Code	Preparatory course	Number of Credits	Number of Hours		Name of the Course		
			Theory	Practice	In English	In Arabic	
NTU 204	-	2	2	-	Professional Ethics	اخلاقيات المهنة	University Requirements
MTIK 202	-	2	2	-	Biostatistics	الإحصاء الحياتي	Institute Requirements
NUT 206	-	5	3	2	Mental & Psychiatric Nursing	تمريض النفسية والعقلية	Department Requirements
NUT 203	-	5	2	3	Primary Health Care	رعاية صحية اولية	
NUT 208	-	4	2	2	Pharmacology	دوائيات	
NUT 2010	-	2	2	-	Health Administration	ادارة صحية	
NUT 209	-	2	-	2	Graduation Research Project	مشروع بحث التخرج	
22					Total Credits of Level One / Semester Two		



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9. The expected Learning Outcome of the Program:

Knowledge

(A1) Comprehensive Understanding of Nursing Foundations and Principles
Graduates should demonstrate mastery of fundamental nursing theories, professional ethics, and the nurse's role within the healthcare system. This includes knowledge of patient-centered care guidelines, the historical development of nursing, and the application of ethical principles in clinical decision-making. Such understanding ensures the delivery of care that is respectful, professional, and ethically sound.

(A2) In-Depth Knowledge of Basic Health Sciences

Graduates are expected to possess a strong grasp of human anatomy and physiology, pathology—including the causes and mechanisms of disease—and pharmacology, which encompasses drug uses, dosages, and side effects. This scientific knowledge is essential for accurately assessing health conditions, understanding pathophysiological changes, and managing medications safely.

(A3) Ability to Assess and Plan Nursing Care

Graduates should acquire the skills necessary to collect comprehensive health data from patients (such as medical history and physical examination), identify priority health problems, and develop effective, evidence-based nursing care plans. This requires a thorough understanding of the nursing process, from assessment and nursing diagnosis to planning interventions and evaluating their effectiveness.

(A4) Awareness of Patient Safety and Infection Prevention

Graduates must be familiar with patient safety guidelines and strategies to minimize medical errors, as well as possess a comprehensive understanding of infection control and prevention methods across diverse clinical settings. This knowledge is critical to ensuring a safe care environment for both patients and healthcare providers, and to implementing preventive measures that limit the spread of disease.



Skills

(B1) Ability to Conduct Comprehensive Health Assessment and Data Collection

Graduates should be able to perform a structured and focused physical examination, obtain an accurate health history from patients and their families, and utilize appropriate assessment tools (such as pain scales, Glasgow Coma Scale, etc.). This competency includes the ability to observe, identify, and document significant signs and symptoms in a precise and objective manner.

(B2) Proficiency in Safely and Effectively Performing Basic and Complex Nursing Procedures

This encompasses a wide range of practical skills, including:

- Administering medications through all routes (oral, intramuscular, intravenous, subcutaneous, intravenous infusion) while adhering to the “five rights” of medication safety.
- Inserting intravenous catheters and managing IV fluids.
- Providing wound care and changing dressings.
- Collecting laboratory specimens (blood, urine, etc.).
- Performing basic cardiopulmonary resuscitation (BLS).
- Monitoring and interpreting vital signs.
- Operating essential and specialized medical equipment (such as glucometers, electrocardiogram machines, and IV infusion pumps).

(B3) Application of Therapeutic Communication and Health Education Skills

Graduates should demonstrate the ability to communicate effectively and respectfully with patients, their families, and other healthcare team members. This includes active listening, delivering health information in a clear and understandable manner (e.g., patient education on medical conditions, medications, and self-care), and managing emotionally challenging situations. Additionally, graduates must be able to document health information accurately and systematically in patient records.

(B4) Ability to Apply Safety and Infection Control Principles in Clinical Practice



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Graduates must show competence in strictly adhering to standard infection control procedures (such as hand hygiene, use of personal protective equipment, and safe disposal of sharp and infectious medical waste). They should also be skilled in identifying potential patient safety risks and implementing appropriate measures to mitigate them (such as fall prevention, ensuring correct patient identification, and reporting adverse events).

Values

(C1) Commitment to Professional Ethics and Integrity

Graduates should demonstrate a steadfast adherence to the ethical principles of the nursing profession, including strict confidentiality of patient information, honesty, transparency, and accountability in all aspects of care. This also entails the ability to make sound ethical decisions in challenging situations, respect patient privacy and dignity, and interact with colleagues, patients, and healthcare institutions with integrity.

(C2) Demonstration of Compassion, Respect, and Cultural Sensitivity

Graduates are expected to show genuine empathy toward patients and their needs, treating them with respect regardless of cultural, social, or religious background. This value encompasses the ability to understand and appreciate diverse patient beliefs and values, and to provide culturally sensitive care tailored to individual needs.

(C3) Display of Responsibility, Reliability, and Professionalism

Graduates should embody a strong sense of responsibility in fulfilling nursing duties and be dependable in meeting commitments to patients and the healthcare team. This includes punctuality, accuracy in work, dedication to self-development, and adherence to professional standards, thereby reflecting a positive professional image.

(C4) Appreciation of Teamwork and Interdisciplinary Collaboration

Graduates must recognize the essential value of working within an integrated healthcare team to achieve optimal patient outcomes. This involves respecting the roles and expertise of other team members (physicians, pharmacists, physiotherapists, etc.), and demonstrating effective communication and constructive collaboration to ensure comprehensive and coordinated care.



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10. Teaching and Learning Strategies

1. Lectures, Discussions, and Interactive Dialogue with Students
2. Practical Training and Simulation in Laboratories
3. Clinical and Applied Training in Healthcare Institutions
4. Case Scenario Methodology
5. Self-Directed Learning
6. Brainstorming Sessions
7. Research and Project Work
8. E-Learning and Blended Learning Approaches

11. Assessment Methods:

- 1. Written Theoretical Examinations**
- 2. Practical and Clinical Assessments**
- 3. Reports, Projects, and Seminars**
- 4. PowerPoint Presentations (P.P.)**
- 5. Oral Assessments and Interviews**
- 6. Self-Evaluation**



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12. The Faculty Members

Faculty members (including all instructors in the scientific department, along with external and internal lecturers).

The Number of Faculty Members		"Special requirements/skills (if any)"	Specialized area		Scientific Title
Contractual lecturers	Permanent faculty		Specific	General	
-	1	Teaching undergraduate studies, publishing research according to specialization, supervising postgraduate studies, and supervising students' graduation projects.	Biochemistry	chemistry	Assistant Professor
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising student research	Maternal and Obstetric Health Nursing	Nursing	Assistant Professor
-	1	Publishing scientific research according to specialization; Teaching undergraduate studies	International Public Law	Law	Lecturer
-	1	Completing departmental tasks; Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Physiology	Biology	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate	Fundamentals of Nursing	Nursing	Assistant Lecturer



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		studies; Supervising students' graduation projects			
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Clinical Biochemistry	Pathological Analysis	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Maternal and Child Health Nursing	Nursing	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Analytical Chemistry	Chemistry	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Anatomy and Histology	Veterinary Medicine	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Adult Nursing	Nursing	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Arabic Language	Arabic Language	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate	Organic Chemistry	Chemistry	Assistant Lecturer



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		studies; Supervising students' graduation projects			
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Microbiology	Biology	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Electronics and Computer Engineering	Engineering	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Pediatric Nursing	Nursing	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Analytical Chemistry	Chemistry	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Biochemistry	Chemistry	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Civil Law	Law	Assistant Lecturer



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-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Educational Psychology	Psychology	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	English Language	English Language	Assistant Lecturer
-	1	Publishing research according to specialization; Teaching undergraduate studies; Supervising students' graduation projects	Information Technology Engineering	Engineering	Assistant Lecturer



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Professional Development

Orientation of New Faculty Members

Professional development for faculty members is one of the fundamental pillars to ensure the quality of education and enhance the outcomes of the Department of Community Health Technologies. It aims to equip the teaching staff with modern skills and advanced teaching methods, including guiding new members to adapt to the academic and administrative environment of the department. This is achieved through:

- Enhancing teaching and research skills of faculty members.
- Supporting modern trends in education and learning (such as e-learning and active learning strategies).
- Providing continuous mentoring and guidance for new faculty members.
- Improving academic performance in line with accreditation standards.
- Promoting a culture of quality and institutional excellence within the department.

Professional Development for Faculty Members

Orientation of new members includes the following elements:

Initial Orientation Session

- Introduction to the vision, mission, and objectives of the department.
- Overview of the organizational structure of the department and committee responsibilities.
- Presentation of the college and departmental handbook.

Administrative and Academic Support

- Explanation of the assessment system, schedules, and course descriptions.



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- Introduction to the quality assurance system and requirements for reporting and documentation.
- Assistance in preparing lectures and using learning management systems.

Research and Academic Guidance

- Identifying appropriate research pathways for their specialization.
- Introducing procedures for publication and applying for research funding.
- Encouraging participation in scientific conferences and seminars.

Cultural and Social Orientation

- Introducing the educational institution's culture and values.
- Facilitating integration into the department environment through informal gatherings.

13. Admission Criteria

1. Student admission is determined according to the central admission system within the ministry's plan, based on the student's high school branch, academic average, and preference, followed by a personal interview conducted by the institute.
2. Medical examination results must confirm that the student is healthy and fit to pursue studies in the department.
3. Genuine interest and willingness to study in the program.

14. Main Sources of Information about the Program

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- Abdel Qader, Mona Khalil. (2015). Therapeutic Nutrition. First Edition. Cairo: Nile Arab Group.
- Al-Zaghoul, A. A. (2012). Principles of Educational Psychology (2nd ed.). University Book House.



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- Malham, Sami Mohammed. (2010). General Psychology. Dar Al-Maseera for Publishing and Distribution, Amman, Jordan.
- Sharara, Magdy Abdullah. (2016). Occupational Safety and Health and Securing the Work Environment.
- Crimes of the Ba'ath Regime in Iraq. Ministry of Higher Education and Scientific Research.
- Al-Tuhfa Al-Sunniyya bi Sharh Al-Muqaddima Al-Ajurrumiyya / Mohammed Mohiuddin Abdul Hamid.
- Lilley, L. L., Collins, S. R., & Snyder, J. S. (2024).
- Lowdermilk, D. L., Perry, S. E., Cashion, K., & Alden, K. R. (2024). Maternity and Women's Health Care (13th ed.). Elsevier.
- Memmler, Ruth Lundeen . (1990). structure and function of the human body (fourth edition)
- Gerard j. Tortora , Nicholas p. Anagnostakos . (1987). Principles of anatomy and physiology (fifth edition)
- Medical Terminology for Health Professions
- Ehrlich, A., & Schroeder, C. L. (2021)
- Fundamentals of clinical chemistry, Tietz, second edition, 1971.
- English Grammar in use (intermediate 2019, 5th edition) by Raymond Murphy
- Select Readings (intermediate) by Linda Lee and Erik Gundersen
- International Organization for Standardization. (2018). ISO 45001: Occupational health and safety management systems—Requirements with guidance for use. ISO.

15. Program Development Plan

- Incorporating content related to first aid and intensive care.
- Adding a Research Methodology course.
- Exploring recent scientific advancements.
- Participating in international and local conferences.
- Engaging in scientific workshops inside and outside Iraq.



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General and transferable qualifying skills (other skills related to employability and personal development)				Affective and value-based objectives			Program-specific skill objectives				Knowledge Objectives				(Y) Basic Or None (N) Basic	Course Code	Course Name	Level
4د	3د	2د	1د	4ج	3ج	2ج	4ب	3ب	2ب	1ب	4أ	3أ	2أ	1أ				
✓		X	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	Department Requirements	NUT 110	Fundamentals of Nursing	Level One 2025-2024
✓	X	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	Department Requirements	NUT 111	Microbiology	
✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	Department Requirements	NUT112	Clinical Biochemistry	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	University Requirements	NTU 102	Computer 1	
✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	University Requirements	NTU100	Human Rights and Democracy	



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✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	Institute Requirements	MTIK 108	Laboratory and Workshop Safety	
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General Objectives							Affective objectives				Knowledge Objectives				(Y) Basic Or Non Basic (ع)	Course Code	Course Name	Level Two 2025-2024
4د	3د	2د	1د	4ج	3ج	2ج	1ج	3 ب	2 ب	1 ب	4أ	3أ	2أ	1أ				
✓	✓	✓	X	✓	✓	X	✓	✓	✓	X	✓	✓	✓	✓	Department Requirements	NUT204	Obstetrics and Gynecology	
✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	X	✓	✓	Department Requirements	NUT 205	Pediatric Nursing	
✓	✓	X	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	Department Requirements	NUT 207	Nutrition and Diet Therapy	
✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	X	✓	✓	Institute Requirement	MTIK 203	Principles of Occupational Safety	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	University Requirements	NTU 203	Crimes of the Ba'ath Regime	
✓	✓	✓	✓	X	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	University Requirements	NTU 202	Arabic Language	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	University Requirements	NTU201	2 Computer	
✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Institute Requirements	MTIK 208	Pharmacology (Compulsory)	
✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	Department Requirements	NUT 206	Psychiatric and Mental Health Nursing	



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✓	X	✓	✓	✓	X	✓	✓	✓	✓	X	✓	✓	✓	✓	University Requirements	NTU 204	Professional Ethics	
✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	Institute Requirements	MTIK 202	Biostatistics	
✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Department Requirements	NUT 203	Primary Health Care	
✓	X	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	Department Requirements	NUT 210	Health Administration	
✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	Department Requirements	NUT 209	Graduation Research Project	



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Assignments of faculty members, technicians, staff, and ministerial contracts – First semester of the (2026–2025) academic year

Notes	Total Assigned Hours		Evening Study (Evening Program)			Morning Study (Day Program)				Technical Medical Institute / Kirkuk			Name of Institution/Formation	
										Nursing Techniques			Name of Academic Department	
		Additional Hours	Total Assigned Hours	Assignment	Courses / Subjects	Additional Hours	Total Assigned Hours	Assignment	Courses / Subjects	Specialization	Degree	Scientific Title	Full Name (Three-part name)	#
Exam + Head Committee	16	4	12	8	Nutrition and Dietary Therapy / Theory / Module 2 / $2 \times 4 = 8$ Biochemistry / Practical / Module 1 / $2 \times 2 = 4$		4	4	utrition and Diet Therapy / Theoretical / Module 2 / $2 \times 2 = 4$ (credit hours)	Biochemistry	Ph.D	Assistant Professor	Galawesh Norri Tahir	1
Department +Coordinator Exam Committee	20		12	8	Occupational Safety / Theory / Module 2 / $2 \times 4 = 8$ Physical Education / Practical / Module 1 / $4 \times 1 = 4$		8	8	Occupational Safety / Theoretical / Module 2 / $2 \times 4 = 8$ (credit hours)	Adult Nursing	M.Sc.	Assistant Lecturer	Mohammed Kafi Othman	2
Exam Committee	30		12	12	Obstetrics and Gynecology / Theory / Module 2 / $4 \times 3 = 12$	8	18	10	Obstetrics and Gynecology / Practical / Module 2 / $2 \times 3 = 6$ (credit hours)	Maternal and Child Health Nursing	Ph.D	Assistant Professor	Dr. Iman Salman Hassan	3
Assistant Dean for Administrative Affairs	16		8	8	Human Rights / Theory / Module 1 / $4 \times 2 = 8$		8	4	Human Rights / Theoretical / Module 1 / $4 \times 2 = 8$ (credit hours)	Law	Ph.D	Lecturer	Dr. Aws Khalil Ibrahim	4



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Exam Committee	32	12	12	Pediatric Nursing / Theory / Module 2 / 2×3 = 6	6	20	14	Fundamentals of Nursing / Theoretical / Module 1 / 2×3 = 6 (credit hours); Fundamentals of Nursing / Practical / Module 1 / 2×4 = 8 (credit hours); Pediatric Nursing / Practical / Module 2 / 2×3 = 6 (credit hours)	Fundamentals of Nursing	M.Sc.	Assistant Lecturer	Burhan Othman Hussein	5
Exam Committee	20	6	12	Obstetrics and Gynecology / Practical / Module 2 / 2×3 = 6		14	14	Obstetrics and Gynecology / Practical / Module 2 / 2×3 = 6 (credit hours); Biochemistry / Theoretical / Module 1 / 2×2 = 4 (credit hours); Biochemistry / Practical / Module 1 / 2×2 = 4 (credit hours)	Biochemistry Clinical (Studies/Practice)	M.Sc.	Assistant Lecturer	Sazan Sadiq Karim	6
Faculty Member in the Department / Part-time Release as a PhD Student	8					8	8	Microbiology / Theoretical / Module 1 / 2×4 = 8 (credit hours)	Molecular Biology	M.Sc.	Assistant Lecturer	Mustafa Dhnon Younis	7
Faculty Member in the Department / Laboratory Supervisor for Fundamentals of Nursing	34	4	16	Fundamentals of Nursing / Practical / Module 1 / 4×4 = 16	6	18	12	Fundamentals of Nursing / Theoretical / Module 1 / 2×3 = 6 (credit hours); Fundamentals of Nursing / Practical / Module 1 / 2×4 = 8 (credit hours); Microbiology / Practical / Module 1 / 2×2 = 4 (credit hours)	Physiology	M.Sc.	Assistant Lecturer	Ali Qasim Taha	8



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Completing Teaching Load in the Evening Program / Member of the Examination Committee	26	4	16	12	Biochemistry / Theory / Module 1 / $2 \times 4 = 8$		10	14	Pediatric Nursing / Practical / Module 2 / $2 \times 3 = 6$ (credit hours); Nutrition and Diet Therapy / Theoretical / Module 2 / $2 \times 2 = 4$ (credit hours)	Organic Chemistry	M.Sc.	Assistant Lecturer	Payman Sarwat Ali	9
Faculty Member in the Department / Workload Completion in Evening Classes	16	4	8	12	Arabic Language / Theory / Module 2 / $4 \times 2 = 8$		8	14	Arabic Language / Theoretical / Module 2 / $4 \times 2 = 8$ (credit hours)	Psychology	M.Sc.	Assistant Lecturer	Muna Jabbar Jalloub	10
Assistant, Technology Incubator Unit / Workload Completion in Evening Classes	28		20	12	Microbiology / Theory / Module 1 / $2 \times 4 = 8$ Microbiology / Practical / Module 1 / $2 \times 4 = 8$ Physical Education / Theory / Module 1 / $4 \times 1 = 4$		8	10	Physical Education / Theoretical / Module 1 / $4 \times 1 = 4$ (credit hours); Physical Education / Practical / Module 1 / $4 \times 1 = 4$ (credit hours)	Organic Chemistry	M.Sc.	Assistant Lecturer	Fatima Kanaan Fattah	11
Faculty Member in the Department / Workload Completion in Evening Classes	18		6	12	Obstetrics and Gynecology / Practical / Module 2 / $2 \times 3 = 6$		12	14	Biochemistry / Theoretical / Module 1 / $2 \times 2 = 4$ (credit hours); Biochemistry / Practical / Module 1 / $2 \times 2 = 4$ (credit hours); Microbiology / Practical / Module 1 / $2 \times 2 = 4$ (credit hours)	Chemistry	M.Sc.	Assistant Lecturer	Rezhwan Shams Al-Din	12
Faculty Member in the Department / Partial Release as PhD Student	8						8	8	Computer Science / Theoretical / Module 1 / $4 \times 1 = 4$ (credit hours); Computer Science / Practical / Module 1 / $4 \times 1 = 4$ (credit hours)	Computer	M.Sc.	Assistant Lecturer	Issa Faiq Abdullah	13



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Workload Completion in Evening Classes / Assistant, Human Rights Unit	16	8	12	Crimes of the Former Regime / Theory / Module 2 / $4 \times 2 = 8$ Crimes of the Former Regime / Module 2 / $2 \times 2 = 4$ Community Health Department - Human Rights / Module 1 / $2 \times 2 = 4$		8	10	Crimes of the Former Regime / Theoretical / Module 2 / $4 \times 2 = 8$ (credit hours)	Law	M.Sc.	Assistant Lecturer	Mohammed Abdullah Saeed	14
Assistant, Information Unit / Workload Completion in Evening Classes	16	8	12	Computer / Theory / Module 1 / $4 \times 1 = 4$ Computer / Practical / Module 1 / $4 \times 1 = 4$		8	10	Computer Science / Theoretical / Module 1 / $4 \times 1 = 4$ (credit hours); Computer Science / Practical / Module 1 / $4 \times 1 = 4$ (credit hours)	Computer Engineering	M.Sc.	Assistant Lecturer	Ahmed Raad Abbas	15
Assistant, Women's Affairs Unit / Ministerial Contract	30	12	12	Pediatric Nursing / Theory / Module 2 / $2 \times 3 = 6$ Pediatric Nursing / Practical / Module 2 / $2 \times 3 = 6$	4	18	10	Pediatric Nursing / Theoretical / Module 2 / $3 \times 4 = 12$ (credit hours)	Pediatric Nursing	M.Sc.	Assistant Lecturer	Hazha Fadel Hussein	16
Faculty Member in the Department / Biology Laboratory Supervisor	20					20	12	Biochemistry / Practical / Module 1 / $4 \times 2 = 8$ (credit hours); Obstetrics and Gynecology / Practical / Module 2 / $4 \times 3 = 12$ (credit hours)	Chemistry Science	M.Sc.	Assistant Lecturer	Muntaha Muzher Abbas	17
Technicians Working in Administrative Units / Assistant, Statistics Unit	8					8	8	Computer Science / Practical / Module 1 / $4 \times 1 = 4$ (credit hours); Computer Science / Practical / Module 2 / $4 \times 1 = 4$ (credit hours)	Computer Science	B.Sc.	Assistant Head of Technical Trainers	Nasreen Salman Dawood	18
Department Secretary, Age 54 / Workload Completion in Evening Classes	12	6	12	Pediatric Nursing / Practical / Module 2 / $2 \times 3 = 6$		6	8	Obstetrics and Gynecology / Practical / Module 2 / $2 \times 3 = 6$ (credit hours)	Diploma in Management	Diploma	Senior Technical Manager	Bayan Khidr Rasool	19



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Evening Hours / Workload Completion	22		6	12	Obstetrics and Gynecology / Practical / Module 2 / $2 \times 3 = 6$		16	22	Fundamentals of Nursing / Practical / Module 1 / $4 \times 4 = 16$ (credit hours)	Nursing	Diploma	Nurse	Abdullah Sarkot Ibrahim	20
Administrative Units / Technicians	8						8	8	Computer Science / Practical / Module 1 / $4 \times 1 = 4$ (credit hours); Computer Science / Practical / Module 2 / $4 \times 1 = 4$ (credit hours)	Communications + Electrical	B.Sc.	Chief Technical Trainers	Intisar Ali Mohammed	21
Administrative Units / Technicians / Evening Hours / Workload Completion	8		4	12	Physical Education / Evening / Practical / Module 1 / $4 \times 1 = 4$		4	8	Physical Education / Practical / Module 1 / $4 \times 1 = 4$ (credit hours)	Electrical Engineering	B.Sc.	Assistant Engineer	Ahmed Salah Ali	22
Community Health Department / Workload Completion Student Affairs / Manager	16		8	12	Anatomy / Theory / Module 1 / $2 \times 2 = 4$ - Community Health Department Anatomy / Practical / Module 1 / $2 \times 2 = 4$ - Community Health Department		8	10	Anatomy / Theoretical / Module 1 / $2 \times 2 = 4$ (credit hours) - Community Health Department	Anatomy and Histology	M.Sc.	Assistant Lecturer	Yahya Abbas Qasim	23
Media Division / Manager	16		8	12	Computer / Theory / Module 2 / $4 \times 1 = 4$ Computer / Practical / Module 2 / $4 \times 1 = 4$		8	8	PLC / Theoretical / Module 2 / $2 \times 2 = 4$ (credit hours) - Department of Electronic and Communication Technologies; PLC / Practical / Module 2 / $2 \times 2 = 4$ (credit hours) - Department of Electronic and Communication Technologies	Computer	M.Sc.	Assistant Lecturer	Samir Ahmed Mohammed	24
Volunteer Work Unit / Assistant / Completing the workload	12						12	10	English Language / Module 1 / $4 \times 2 = 8$ (credit hours) - Department of Electronics and	English Language	M.Sc.	Assistant Lecturer	Hero Syamand Mamand Ahmed	25



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in Electronics and Control Department									Control; English Language / Module 1 / $2 \times 2 = 4$ (credit hours) – Department of Electronics and .Control					
Administrative Units / Technicians	8						8	8	Computer Science / Practical / Module 1 / $4 \times 1 = 4$ (credit hours); Computer Science / Practical / Module 2 / $4 \times 1 = 4$.(credit hours)	Statistics	B.Sc.	Senior Technical Assistant	Sawsan Adnan Hussein	26
Administrative Units / Technicians Data and Informatics Unit / Assistant	8						8	8	Computer Science / Practical / Module 1 / $4 \times 1 = 4$ (credit hours); Computer Science / Practical / Module 2 / $4 \times 1 = 4$.(credit hours)	Electronics and Control	B.Sc.	Technical Engineer Assistant	Basma Adnan Khalil	27
Student Affairs Technician	8		8	12	Computer Science / Practical / Module 1 / Evening / $4 \times 1 = 4$ (credit hours); Computer Science / Practical / Module 2 / Evening / $4 \times 1 = 4$.(credit hours)					Surveying	Diploma	Assistant Surveyor	Amjad Khorshid Juma	28

Teaching Assignments (Systematic Practical Training) for the Staff of Kirkuk Health Directorate

	24		18	12	Fundamentals of Nursing (Theory) / M1 / $4 \times 3 = 12$; Pediatric Nursing (Practical) / M2 / $2 \times 3 = 6$		6		Pediatric Nursing Practical	Nursing	Ph.D	Specialized University Nurse	Dr. Yas Khidr Bayez	1
	18		12	12	Obstetrics and Gynecology Practical / M2 / $4 \times 3 = 12$		6		Obstetrics and Gynecology Practical	Nursing	B.Sc.	University Nurse	Noor Salam Ismail	2



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	18		12	12	Obstetrics and Gynecology Practical / M2 / $4 \times 3 = 12$		6		Obstetrics and Gynecology Practical / M2 / $2 \times 3 = 6$	Nursing	B.Sc.	University Nurse	Abeer Hadi Saleh	3
	18		12	12	Obstetrics and Gynecology Practical / M2 / $4 \times 3 = 12$		6		Obstetrics and Gynecology Practical / M2 / $2 \times 3 = 6$	Nursing	B.Sc.	University Nurse	Hind Khudair Abbas	4
	18		12	12	Pediatric Nursing Practical / M2 / $4 \times 3 = 12$		6		Pediatric Nursing Practical / M2 / $2 \times 3 = 6$	Nursing	B.Sc.	University Nurse	Shurooq Abdul-Majid Jabr	5
	18		12	12	Pediatric Nursing Practical / M2 / $4 \times 3 = 12$		6		Pediatric Nursing Practical / M2 / $2 \times 3 = 6$	Nursing	B.Sc.	University Nurse	Iyad Khalid Mohammed	6



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**Assignments of Faculty Members, Technicians, Deputed Staff, and
Ministry Contracts
(2026–2025) Second Semester of the Academic Year**

Notes		Total Hours Assigned			Evening Classes	Morning Classes								Name of the Formation / Organization
														Name of the Scientific Department
		Additi onal Hours	Total Assig ned Hours	Assigned	Education al Course	Additional Hours	Total Assigned Hours	Assig nmen t	Education Courses	Specialt y	Degree	Sentific Title	Full Name	#
Head of Department + Examination Committee + Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	16	4	12	8	Health Manageme nt / Theory / M2 / 2×4 = 8		4	4	Health Management / Theory / M2 / 2×2 = 4	Biochem istry	.Ph.D	Assistant Professor	Galawesh Noori Tahir	1



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Department Rapporteur + Examination Committee + Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	26	0	10	12	Psychiatric & Mental Health Nursing N M2 3×2=6, Psychiatric & Mental Health Nursing A M2 2×2=4	2	16	14	Psychiatric & Mental Health Nursing N M2 3×4=12, Psychiatric & Mental Health Nursing A M2 2×2=4	Adult Nursing	M.Sc.	Assistant Lecturer	Mohammed Kafi Othman	2
Member of the Examination Committee + Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	30		12	12	Health Care Theory M2 4×3=12	8	18	10	Health Care Theory M2 4×3=12, Health Care Practical M2 2×3=6	Maternal and Child Health Nursing	Ph.D	Assistant Professor	Dr. Iman Salman Hassan	3
Examination Committee + Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	34	2	14	12	Psychiatric & Mental Health Nursing N M2 3×2=6, Medical-Surgical Nursing A M1 2×4=8	10	20	10	Medical-Surgical Nursing N M1 3×4=12, Medical-Surgical Nursing A M1 2×4=8	Fundamentals of Nursing	M.Sc.	Assistant Lecturer	Burhan Othman Hussein	4
Examination Committee + Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	20	0	6	12	Primary Health Care A M2 2×3=6	4	14	10	Physiology N M1 2×4=8, Primary Health Care A M2 2×3=6	Biochemistry Clinical (Studies/Practice)	M.Sc.	Assistant Lecturer	Sazan Sadiq Karim	5



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Morning + 2 Evening)														
Part-time PhD Student + Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	24	0	12	12	Medical-Surgical Nursing N M1 3×4=12	0	12	12	Medical Terminology N M1 2×4=8, Anatomy A M1 2×2=4	Molecular Biology	M.Sc.	Assistant Lecturer	Mustafa Dhnon Younis	6
Supervisor of Graduation Research Projects + Laboratory Manager	30	4	16	12	Physiology N M1 2×4=8, Physiology A M1 2×4=8	4	14	10	Physiology N M1 2×4=8, Physiology A M1 2×3=6	Physiology	M.Sc.	Assistant Lecturer	Ali Qasim Taha	7
Part-time PhD Student	16	0	8	12	Arabic Language N M1 2×4=8	0	8	8	Arabic Language N M1 2×4=8	Arabic Language	M.Sc.	Assistant Lecturer	Inaam Qasim Hussein	8
Supervisor of Graduation Research Projects	20	0	8	12	Medical Terminology N M1 2×4=8	0	12	12	Anatomy A M1 2×2=4, Laboratory & Workshop Safety N M1 2×4=8	Organic Chemistry	M.Sc.	Assistant Lecturer	Payman Sarwat Ali	9
Head of the Employment Unit / Employment Unit Manager	24	2	14	12	Professional Ethics N M2 2×3=6, Psychology N M1 2×4=8	0	10	10	Professional Ethics N M2 2×4=8, Professional Ethics N M2 2×1=2 Evening	Law	M.Sc.	Assistant Lecturer	Mohammed Abdullah Saeed	10



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Head of Women's Empowerment Unit + Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	14	0	6	12	Primary Health Care A M2 2×3=6	0	8	8	Primary Health Care N M2 2×4=8	Pediatric Nursing	M.Sc.	Assistant Lecturer	Hazha Fadel Hussein	11
Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	16					2	16	14	Pharmacology N M2 2×4=8, Pharmacology A M2 2×4=8	Organic Chemistry	M.Sc.	Assistant Lecturer	Fatima Kanaan Fattah	13
Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	32	4	16	12	Pharmacology N, Second Year — 2 hours × 4 groups = 8 total hours	2	16	14	Medical Terminology N M1 2×4=8, Pharmacology A M2 2×4=8	Chemistry	M.Sc.	Assistant Lecturer	Rezhwan Shams Al-Din	14
Supervisor of Graduation Research Projects (2 Morning + 2 Evening)	16	0	8	12	Biostatistics N M2 2×4 = 8	0	8	8	Graduation Research Project A M2 2×4=8	Chemistry Science	M.Sc.	Assistant Lecturer	Muntaha Muzher Abbas	16
0										Technicians of the Nursing Techniques Department				
8						0	8	8	Graduation Research Project A M2 2×4=8	Computer Science	B.Sc.	Assistant Head of Technical Trainers	Nasreen Salman Dawood	17



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	8					0	8	8	Graduation Research Project A M2 2×4=8	Diploma in Managem ent	Diploma	Senior Technical Manager	Bayan Khidr Rasool	18
	8					0	8	8	Graduation Research Project A M2 2×4=8	Communic ations + Electrical	B.Sc.	Chief Technical Trainers	Intisar Ali Mohammed	20



Course Description Template

Course Description (First Stage)

(1) Course Description Template

1. Course Title
Democracy and Human Rights
2. Course Code
NTU 100
3. Year / Semester
/2025 \ First
4. Date of Preparation
2025 / 9 / 10
5. Attendance Mode
In-person
6. Total Study Hours
Units: (2 hrs) / (2 units)
7. Course Objective



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Explore the historical development and evolution of democracy, its types, and diagnostic methods for identifying causes of decline in political systems, along with possible solutions. Understand the components and characteristics of democracy and establish its foundations within political systems to ensure citizens enjoy its outcomes, supported by the rule of law to defend rights and build a free society. Examine the relationship between democracy, human rights, and civil society institutions, analyzing their mutual influence and outcomes in building a democratic society that guarantees rights and freedoms. Enable individuals to participate effectively in choosing governance systems that foster coexistence, tolerance, respect, and understanding among citizens of diverse religious, linguistic, and cultural backgrounds.	Main Objectives
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8. Teaching and Learning Strategies

.Explanation, brainstorming, dialogue, discussion, quick quizzes	Strategies
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1. Course Structure

Assessment	Teaching Method	Unit / Topic	Learning Outcomes	Hours	Week
Weekly Test	Explain & Discuss	Definition of human rights and their types	General introduction to rights and humanity	2	1
Weekly Test	Explain & Discuss	Historical development of rights	Historical overview of human rights	2	2
Weekly Test	Explain & Discuss	The Universal Declaration of Human Rights	Introducing students to the most important document in the field of human rights	2	3
Weekly Test	Explain & Discuss	Characteristics of human rights	Features of human rights	2	4
Weekly Test	Explain & Discuss	Human rights in Islam and other legislations	Human rights from the perspective of religions	2	5
Weekly Test	Explain & Discuss	International conventions on human rights	The international dimension of human rights	2	6
Weekly Test	Explain & Discuss	Definition of democracy and its types	Democracy	2	7
Weekly Test	Explain & Discuss	Characteristics of democracy	Features of democracy	2	8
Weekly Test	Explain & Discuss	Concept of freedom and its types	Freedom	2	9
Weekly Test	Explain & Discuss	Types of public freedoms	Public freedoms	2	10
Weekly Test	Explain & Discuss	Democracy in the Middle Ages and modern times	Democracy	2	11



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Weekly Test	Explain & Discuss	Democracy in Arab countries	Democracy in Arab countries	2	12
Weekly Test	Explain & Discuss	The democratic experience in Iraq	Democracy in Iraq	2	13
Weekly Test	Explain & Discuss	The phenomenon of administrative corruption in Iraq	Administrative corruption	2	14
Weekly Test	Explain & Discuss	Comprehensive review of topics	Comprehensive review	2	15

2. Course Assessment

Grades are distributed out of 100 based on daily preparation, weekly quizzes, oral and written exams, monthly tests, reports, and other assigned tasks.

1. Learning Resources

Human Rights and Democracy – Prof. Dr. Riyadh Aziz Hadi	Prescribed Textbooks
Human Rights and Democracy – Assist. Prof. Dr. Maher Sabri Kazem Democracy and Human Rights – Dr. Mohammed Abed Al-Jabri	Main References
Human Rights and Democracy: Historical Development and Modern Concept – Dr. Ismail Mirza	Supporting References: Scientific journals, reports, etc.
https://www.google.com/search?q=http%3A%2Fwww.ihchr.iq	Electronic Resources: Internet websites and online databases.



Course Description (Template 2)

1- Course Title					
English Language					
2- Course Code					
NTU 101					
3- Year / Semester					
/2025 \ First					
4- Date of Preparation					
2025 / 9 / 10					
5- Attendance Mode					
In-person					
6- Total Study Hours					
Units: (2 hrs) / (2 units)					
7- Course Objective					
- For the student to grow with a love for the English language and learning its vocabulary - Renewing the student's knowledge of English in order to achieve success - Success at both the professional and personal levels - Refining the student's skills in reading, writing, speaking, and listening					Main Objectives
8- Teaching and Learning Strategies					
- Following the dialogue method between the instructor and the student - Summarizing information and ideas into main points					Strategies
1. Course Structure					
Assessment	Teaching Method	Unit / Topic	Learning Outcomes	Hours	Week
Oral Exam	The discussion and lecture method	Basic English	Learning the main fundamentals of the English language	2	1



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Oral Exam	The discussion and lecture method	Parts of Speech	Learning the parts of speech in the English language	2	2
Oral Exam	The discussion and lecture method	Pronoun	Learning the pronouns in the English language and distinguishing between singular and plural	2	3
Oral Exam	The discussion and lecture method	Pronoun	Learning the pronouns in the English language and distinguishing between singular and plural	2	4
Oral Exam	The discussion and lecture method	Noun	Learning the nouns in the English language and how to form their plurals	2	5
Oral Exam	The discussion and lecture method	Verbs	Learning the verbs in the English language	2	6
Oral Exam	The discussion and lecture method	Adjective	Learning the adjectives in the English language	2	7
Oral Exam	The discussion and lecture method	Adverb	Learning the adverbs in the English language	2	8
Oral Exam	The discussion and lecture method	prepositions	Learning the prepositions in the English language	2	9
Oral Exam	The discussion and lecture method	conjunctions	Learning the conjunctions in the English language	2	10
Oral Exam	The discussion and lecture method	Articles	Learning the articles in the English language	2	11
Oral Exam	The discussion and lecture method	Definite and indefinite articles	Learning the definite and indefinite articles in the English language	2	12
Oral Exam	The discussion	Tenses	Learning the tenses in the English language and the rules of each tense	2	13



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	and lecture method				
Oral Exam	The discussion and lecture method	Abbreviations	Learning the abbreviations in the English language and how to write them	2	14
Oral Exam	The discussion and lecture method	Description of condition and symptoms	Learning how to describe a medical condition in the English language	2	15
Oral Exam	The discussion and lecture method	Basics of pronunciation and articulation	Learning the basics of pronunciation and articulation in the English language	2	16

2. Course Assessment

Grades are distributed out of 100 based on daily preparation, weekly quizzes, oral and written exams, monthly tests, reports, and other assigned tasks.

3. Learning Resources

Shehdeh Fareh and Inaam Hamadi (2017). English for Medicine Health Science. Elsevier.	Prescribed Textbooks
Academic Writing for International Students of English	Main References
Barron's Essential Words for the TOEFL / IELTS	Supporting References: Scientific journals, reports, etc.
https://www.oxfordlearnersdictionaries.com	Electronic Resources: Internet websites and online databases.



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Course Description (Template 3)

1. Course Title					
Computer1					
2. Course Code					
NTU102					
3. Year / Semester					
Semster					
4. Date of Preparation					
2025 / 9 / 10					
5. Attendance Mode					
In Classroom and Labs					
6. Total Study Hours					
Units: (2 hrs) / (2 units)					
8. Course Objective					
- Understanding the basics of computer - Using applications - Learning about information security				Main Objectives	
8. Teaching and Learning Strategies					
- Project-based learning - Weekly reports - Project-based learning - Technology-guided learning - Practical training				Strategies	
9. Course Structure					
Assessment	Teaching Method	Unit / Topic	Learning Outcomes	Hours	Week
Final and Monthly Exam	In Person	Security and Networking.	Learning about network security	One Hour	1
Final and Monthly Exam	In Person	E – Commerce.	Learning about e-commerce	One Hour	2



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Final and Monthly Exam	In Person	Computer Troubleshooting.	Understanding computer problems	One Hour	3
Final and Monthly Exam	In Person	Introduction to AI.	Introduction to artificial intelligence	One Hour	4
Final and Monthly Exam	In Person	AI in Our Daily Lives.	The importance of artificial intelligence	One Hour	5
Final and Monthly Exam	In Person	Application of AI.	Applications of artificial intelligence	One Hour	6
Final and Monthly Exam	In Person	AI and Society.	Artificial intelligence and society	One Hour	7
Final and Monthly Exam	In Person	Ethical challenges in AI.	Challenges of artificial intelligence	One Hour	8
Final and Monthly Exam	In Person	The Future of AI.	The future of artificial intelligence	One Hour	9

10.Course Assessment

Grades are distributed out of 100 based on daily preparation, weekly quizzes, oral and written exams, monthly tests, reports, and other assigned tasks.

11.مصادر التعلم والتدريس

The curriculum approved by the Ministry of Higher Education and Scientific Research according to the letter No.: T M 3/11009 dated 9/10/2024..	Prescribed textbooks (methodological, if available)
Internet.	Main references (sources)
Scientific articles and research in this field.	Supporting books and references recommended (scientific journals, reports, etc.)
https://academy.hsoub.com/programming	Electronic references, internet websites



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Course Description (Template 4)

1- Course Title	
Physiology	
2- Course Code	
MTIK 106	
3- Year / Semester	
First Year 2025 \ 2026	
4- Date of Preparation	
2025 / 9 / 10	
5- Attendance Mode	
On Campus	
6- Total Study Hours	
4 (2 P - 2 T)	
7- Course Objective	
1- Definition of Physiology 2- Classification of tissue types 3- Blood: red blood cells, white blood cells, platelets 4- Cardiovascular system 5- Respiratory system 6- Digestive system 7- Urinary system 8- Nervous system 9- Endocrine glands 10- Muscular system	Main Objectives
8- Teaching and Learning Strategies	



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Strategy

1. **Cooperative Learning**
2. **Description:** Encourages students to work in small groups, which enhances the exchange of knowledge and ideas.
3. **Benefit:** Enhances communication and teamwork skills, and allows students to learn from each other.
4. **Active Learning**
5. **Description:** Includes activities that require active student participation, such as discussions, practical experiments, and presentations.
6. **Benefit:** Increases student motivation and strengthens their ability to apply theoretical concepts in practical contexts.
7. **Inductive Teaching Strategy**
8. **Description:** This strategy begins with presenting specific examples and then moves to general rules.
9. **Benefit:** Helps students discover concepts by themselves, which enhances understanding.
10. **Use of Technology**
11. **Description:** Integrating technological tools such as simulations and interactive educational programs.
12. **Benefit:** Provides immersive learning experiences and helps students better understand complex processes.
13. **Brainstorming Strategy**
14. **Description:** Encourages students to think freely and generate new ideas on a specific topic.
15. **Benefit:** Enhances creativity and helps develop critical thinking skills.
16. **Continuous Assessment**
17. **Description:** Includes periodic evaluation of performance instead of relying only on final exams.
18. **Benefit:** Helps teachers identify students' strengths and weaknesses and provide appropriate support.
19. **Self-Learning**
20. **Description:** Encourages students to take responsibility for their learning through research and self-study.
21. **Benefit:** Enhances student independence and increases their ability for lifelong learning.
22. **Clinical Physiology** is a vital field that integrates basic scientific principles with practical applications in patient care.
23. Effective strategies in clinical physiology focus on enhancing learning, assessment, and patient management.
24. Below are key strategies derived from current literature and practices.
25. **Competency-Based Learning and Assessment**
26. Emphasizes the development of specific and transversal competencies among medical students. This approach includes:
 - Theoretical tests: such as multiple-choice questions.



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- Practical tests: through simulated medical consultations. This dual approach ensures that they acquire the necessary knowledge and skills.

Course Structure

Assessment	Teaching Method	Unit / Topic	Learning Outcomes	Hours	Week
Daily + Monthly Test	Lecture	Fundamentals of life, the cell, its components, types, and basic functions	Concept of Physiology	2 Practice + 2 Theory	1
Daily + Monthly Test	Lecture	Components of blood Plasma Hemoglobin molecule Blood clotting factors Blood groups	Definition of Blood	2 Practice + 2 Theory	2
Daily + Monthly Test	Lecture	Structure of the heart and blood vessels Types of valves Heart sounds Cardiac cycle Cardiac output Blood pressure	Circulatory System	2 Practice + 2 Theory	+ 3 5+4
Daily + Monthly Test	Lecture	Its basic functions Upper part of the system Lower part of the system Layers of the lungs Types and mechanics of breathing Types of pulmonary ventilation Respiratory volumes Respiratory capacities Spirometer (lung capacity measuring device) How to calculate capacities	Respiratory System	2 Practice + 2 Theory	7+6
Daily + Monthly Test	Lecture	Nerve cells and types of nerves Central nervous system (brain and spinal cord) Peripheral nerves in the body Autonomic nervous system and its functions Neurotransmitters Meninges of the brain Layers of the meninges	Nervous System	2 Practice + 2 Theory	9+8
Daily + Monthly Test	Lecture	Structure of the digestive system Digestion and its types Salivary glands Stomach and its sections Stomach enzymes that aid digestion Pancreas and its enzymes Pancreatic hormones Small intestine	Digestive System	2 Practice + 2 Theory	11+10



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		Absorption and factors aiding absorption Large intestine Liver Gallbladder, Bile duct			
Daily + Monthly Test	Lecture	Components and functions of the urinary system Anatomical structure of the kidney Structure and functions of the nephron Renal filtration Reabsorption Secretion Male reproductive system Female reproductive system	Urinary System	2 Practice + 2 Theory	13+12
Daily + Monthly Test	Lecture	Introduction to the endocrine system and hormones Mechanism of their effect on target cells in the body Structure of the thyroid gland and parathyroid gland Adrenaline and its vital functions in the body Pituitary gland	Reproductive System	2 Practice + 2 Theory	14
Daily + Monthly Test	Lecture	Muscles and their types Muscle contraction Muscle relaxation	Endocrine Glands Muscular System	2 Practice + 2 Theory	15

Course Assessment

Grades are distributed out of 100 based on daily preparation, weekly quizzes, oral and written exams, monthly tests, reports, and other assigned tasks.

1. مصادر التعلم والتدريس

Guyton and Hall Textbook of Medical Physiology	Prescribed Textbooks
TEXTBOOK OF MEDICAL PHYSIOLOGY	Main References
Netter's Atlas of Human Physiology	Supporting References: Scientific journals, reports, etc.
https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm?fr=155.194	Electronic Resources: Internet websites and online databases.



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(5) Course Description Template

1-Course Title					
Arabic Language					
2-Course Code					
NTU103					
3-Year / Semester					
Level One – Semster One 2025 \ 2026					
4-Date of Preparation					
2025 / 9 / 10					
5-Attendance Mode					
Theory					
6-Total Study Hours					
2 Hours / 2 unit					
7-Course Objective					
- To cultivate the student's love for the Arabic language, the language of the Holy Qur'an. - To recognize the beauty spots in the Arabic language and its literature. - To acquaint the student with correct Arabic vocabulary, structures, and sound linguistic styles.					Main Objectives
8- Teaching and Learning Strategies					
The lecture strategy and the use of dialogue between the instructor and the student through asking questions, summarizing information and ideas into key points, and linking theoretical concepts with real-life examples.					Strategies
9.Course Structure					
Assessment	Teaching Method	Unit / Topic	Learning Outcomes	Hours	Week
اختبار شفهي	Discussion Method	Introduction to Linguistic Errors – The and the (ة) Tied Tā' (ت) Open Tā'	Identifying types of 1 linguistic errors Distinguishing between the open tā' and the tied tā' (ت) (ة) marbūṭa	2	1



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Oral test	Discussion Method	Rules for Writing the Long Alif (ا) and the Short Alif Maqṣūra (ى) –Solar and Lunar Letters	Differentiating between the long alif (ا) and the short alif maqṣūra (ى) and their writing positions Distinguishing between solar letters and lunar letters	2	2
Oral test	Discussion Method	Ḍād (ض) and Zā' (ظ)	Differentiating and (ض) between ḍād (ظ) zā'	2	3
Oral test	Discussion Method	Writing the Hamza (ء)	Enabling the student (ء) to write the hamza correctly	2	4
Oral test	Discussion Method	Punctuation Marks	Identifying punctuation marks and placing them correctly	2	5
Oral test	Discussion Method	The Noun and the Verb, and the Distinction Between Them	Identifying the noun and the verb, and showing their markers Distinguishing between noun and verb Explaining types of verbs Differentiating between types of verbs	2	6
Oral test	Discussion Method	Objects (Al-Mafā'il)	Identifying types of objects (mafā'il) and distinguishing between them	2	7
Oral test	Discussion Method	Numbers	Enabling the student to write numbers correctly	2	8
Oral test	Discussion Method	Applications of Common Linguistic Errors	Identifying common linguistic errors and avoiding them	2	9
Oral test	Discussion Method	Applications of Common Linguistic Errors	Identifying common linguistic errors and avoiding them (repeated)	2	10
Oral test	Discussion Method	The Nūn and Tanwīn Meanings of Prepositions (Ḥurūf al-Jar)	Distinguishing between nūn and tanwīn Identifying the meanings of prepositions (ḥurūf al-jar)	2	11



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Oral test	Discussion Method	Formal aspects of administrative correspondence	Identifying the formal aspects of administrative correspondence	2	12
Oral test		Language of administrative correspondence	Identifying the language of administrative correspondence	2	13
Oral test	Lecture Method	Language of administrative correspondence (repeated)	Identifying the language of administrative correspondence	2	14
Oral test	Discussion Method	Examples of administrative correspondence	Identifying examples of administrative correspondence	2	15

4.Course Assessment

Grades are distributed out of 100 based on daily preparation, weekly quizzes, oral and written exams, monthly tests, reports, and other assigned tasks.

5.Learning Resources

Arabic Language Course	Prescribed Textbooks
Compendium of Arabic Lessons – Mustafa Al-Ghalayini	Main References
Unified Medical Dictionary (Al-Mu'jam Al-Tibbī Al-Muwahḥad)	Supporting References: Scientific journals, reports, etc.



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Course Description Template (6)

1. Course Title	
Physical Education	
2. Course Code	
NTU 104	
3. Year / Semester	
First Semster for the year 2025 \ 2026	
4. Date of Preparation	
2025 / 9 / 10	
6. Total Study Hours	
On Campus	
7. Course Objective	
(1 Theory) (1 Practical) / (2 total)	
8.Objectives	
By the end of the academic year, the student will be able to identify the types of sports. The student will be able to recognize the rules and skills related to some sports games. The student will be able to understand the mechanism of human body movement. The student will be able to identify common sports injuries.	Main Objectives
8. Teaching and Learning Strategies	



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1. Active Learning Active learning is considered one of the effective methods in teaching sports, as it encourages students to participate actively through interactive activities such as: Group work: Enhancing cooperation among students. Competitions: Using sports games as a means to stimulate critical thinking and creativity. 2. Modern Teaching Methods Modern methods in physical education include several approaches, such as: Reciprocal style: Students exchange roles between observer and trainee, which enhances self learning. Self assessment: Relies on the student evaluating their own performance individually, strengthening their ability to identify strengths and weaknesses. Guided discovery: Encourages students to discover solutions on their own under the teacher's supervision. 3. Planning and Evaluation Strategies Effective teaching strategies require good planning that includes: Diagnosing learners' status: Understanding their needs and different levels. Defining educational objectives: Setting clear goals to be achieved during lessons. 4. Use of Technology Technology can be integrated into sports education through: Educational games: Using applications and programs that enhance the learning experience. Educational videos: Demonstrating motor skills through interactive video clips. 5. Diversifying Teaching Methods It is important for teachers to use a variety of methods to meet the needs of all students, such as: Whole learning: Teaching the skill as a whole without dividing it into parts, which makes it easier for students to understand the movement in an integrated way.	Strategy
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1. Course Structure

Assessment	Teaching Method	Unit / Topic	Learning Outcomes	Hours	Week
Test (Daily, Monthly, Yearly)	Lectuer	Definition, Importance, and Types	Definition of Sport	1 practice 1 theory	1
Test (Daily, Monthly, Yearly)	Lectuer	Muscles Muscle Movement Energy of Muscle Movement Bones Joints	Mechanism of Human Body Movement	1 practice 1 theory	2
Test (Daily, Monthly, Yearly)	Lectuer	Definition Causes Main Types of Injuries	Sports Injuries	1 practice 1 theory	3



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Test (Daily, Monthly, Yearly)	Lectuer	Main Types of Injuries Basic Skills Passing and Its Types Dribbling and Its Types Shooting	Basketball	1 practice 1 theory	4
Test (Daily, Monthly, Yearly)	Lectuer	Basketball Rules	Basketball Rules	1 practice 1 theory	5
Test (Daily, Monthly, Yearly)	Lectuer	Basic Skills Grip of the Racket	Table Tennis	1 practice 1 theory	6
Test (Daily, Monthly, Yearly)	Lectuer	Basic Skills	Volleyball Rules	1 practice 1 theory	7
Test (Daily, Monthly, Yearly)	Lectuer	History Types Fields/Areas	Swimming	1 practice 1 theory	8
Test (Daily, Monthly, Yearly)	Lectuer	Ready Position Grip of the Racket	Tennis	1 practice 1 theory	9
Test (Daily, Monthly, Yearly)	Lectuer	Basic Skills Offensive Skills	Handball	1 practice 1 theory	10
Test (Daily, Monthly, Yearly)	Lectuer	Subject (1)	Handball Rules	1 practice 1 theory	11
Test (Daily, Monthly, Yearly)	Lectuer	History of Games Road Races Hurdle Races	Athletics (Track and Field)	1 practice 1 theory	12
Test (Daily, Monthly, Yearly)	Lectuer	Basic Skills	Football (Soccer)	1 practice 1 theory	13
Test (Daily, Monthly, Yearly)	Lectuer	Definition of Sports Championships	Management of Sports Competitions and Tournaments	1 practice 1 theory	14



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Test (Daily, Monthly, Yearly)	Lectuer	Legislation and Its Types Law and Sports	Sports Laws and Legislation	1 practice 1 theory	15
3. Course Assessment					
Grades are distributed out of 100 based on daily preparation, weekly quizzes, oral and written exams, monthly tests, reports, and other assigned tasks.					
4. Learning Resources					
Principles of Physical Fitness and Occupational Safety for Student Medical and Health Specializations			Prescribed Textbooks		
Dr. Yasser Thabet: Encyclopedia of the Olympic Harves			Main References		
The Scientific Foundations of Sports Training and Fitness – Dr. Kar Darwish			Supporting References: Scientific journals, reports, etc.		
https://www.who.int/news-room/fact-sheets/detail/physical-activity			Electronic Resources: Intern websites and online databas		



(7) Course Description

Course Name					
Microbiology					
Course Code					
NUT113					
Semester / Academic Year					
First Semester, Academic Year 2025 \ 2026					
Date of Description Preparation					
2025 / 9 / 10					
Available Attendance Modes					
In-person					
Total Study Hours / Units					
2 hours theory + 2 hours practical = 4 total units					
1. Course Objectives					
To introduce students to microorganisms, medical applications, and the importance of biosafety awareness.					Main Objectives
2. Teaching and Learning Strategies					
Active learning, use of modern technologies, interactive teaching and discussions					Strategy
3. Course Structure					
Assessment Method	Learning Method	Unit/Topic	Learning Outcomes	Hours	Week
Presentation, explanation, Q&A, discussion	Lecture	Introduction to Microbiology	Definition and branches of microbiology and medical microbiology	2 theory + 2 practical	1
Presentation, explanation, Q&A, discussion	Lecture	Bacterial Cell Structure	Cell structure, differences between animal and plant cells, bacterial cell structure	2 theory + 2 practical	2



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Presentation, explanation, Q&A, discussion	Lecture	Bacterial Structure and Growth	Bacterial cell structure, physical factors affecting bacterial growth, bacterial growth curve	2 theory + 2 practical	3
Presentation, explanation, Q&A, discussion	Lecture	Infection	Infection types, sources, and transmission of infectious diseases	2 theory + 2 practical	4
Presentation, explanation, Q&A, discussion	Lecture	Medical Bacteria	Staphylococcus, Streptococcus, Pneumococcus	2 theory + 2 practical	5
Presentation, explanation, Q&A, discussion	Lecture	Medical Bacteria	Neisseria, Bacillus	2 theory + 2 practical	6
Presentation, explanation, Q&A, discussion	Lecture	Medical Bacteria	Mycobacteria, Clostridium	2 theory + 2 practical	7
Presentation, explanation, Q&A, discussion	Lecture	Medical Bacteria	Bacillus, Enterobacteriaceae	2 theory + 2 practical	8
Presentation, explanation, Q&A, discussion	Lecture	Medical Bacteria	Escherichia coli, Salmonella	2 theory + 2 practical	9
Presentation, explanation, Q&A, discussion	Lecture	Medical Bacteria	Shigella, Proteus	2 theory + 2 practical	10
Presentation, explanation, Q&A, discussion	Lecture	Medical Bacteria	Brucella, Bordetella	2 theory + 2 practical	11



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Presentation, explanation, Q&A, discussion	Lecture	Medical Bacteria	Vibrio cholera	2 theory + 3 practical	12
Presentation, explanation, Q&A, discussion	Lecture	Food Poisoning	Symptoms and diagnosis	2 theory + 3 practical	13
Presentation, explanation, Q&A, discussion	Lecture	Fungi	Mycology, fungal diagnosis and classification	2 theory + 3 practical	14
Presentation, explanation, Q&A, discussion	Lecture	Viruses and Bacteria	Virology, virus morphology, bacteria	2 theory + 3 practical	15

4. Course Evaluation

Grades are distributed out of 100 based on student tasks such as daily preparation, quizzes, oral and written exams, reports, etc.

5. Learning Resources

Jawetz, Melnick, & Adelberg's Medical Microbiolog	Prescribed Textbooks
MEDICAL MICROBIOLOGY ,jawetz	Main References
Medical Microbiology, Patrick R. Murray	Recommended Supporting Materials
https://www.ncbi.nlm.nih.gov/books	Electronic References / Websites



(8) Course Description

Course Name					
Laboratory and Workshop Safety					
Course Code					
MTIK 108					
Semester / Academic Year					
Second Semester, Academic Year 2025 \ 2026					
Date of Description Preparation					
2025 / 9 / 10					
Available Attendance Modes					
In-person					
Total Study Hours / Units					
2 theory hours / 2 total units					
Course Objectives					
To introduce students to occupational and laboratory hazards and enable them to prevent such risks in labs and workshops					Mian Objectives
Teaching and Learning Strategies					
1. Active learning, use of modern technologies, interactive teaching and discussions					Strategy
Course Structure					
Assessment Method	Learning Method	Unit/Topic	Learning Outcomes	Hours	Week
Presentation, explanation, Q&A, discussion	Lecture	Basic Lab Equipment and Safety Precautions	Lab equipment, safety conditions, chemical and glassware precautions, electrical hazards	2 theory	1
Presentation, explanation, Q&A, discussion	Lecture	Fires	Types of fires and fire prevention	2 theory	2



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Presentation, explanation, Q&A, discussion	Lecture	Fires	Fire extinguishing methods and alarms	2 theory	3
Presentation, explanation, Q&A, discussion	Lecture	Fires	Types and importance of fire extinguishers	2 theory	4
Presentation, explanation, Q&A, discussion	Lecture	Personal Protective Equipment	Types and requirements of personal protective equipment	2 theory	5
Presentation, explanation, Q&A, discussion	Lecture	Personal Protective Equipment	Types and requirements of personal protective equipment	2 theory	6
Presentation, explanation, Q&A, discussion	Lecture	Chemical Hazards	Chemical hazards and handling, types of chemicals	2 theory	7
Presentation, explanation, Q&A, discussion	Lecture	Radiation Hazards	Radiation sources, types, and benefits	2 theory	8
Presentation, explanation, Q&A, discussion	Lecture	Biological Hazards	Classification and levels of biological hazards	2 theory	9
Presentation, explanation, Q&A, discussion	Lecture	Lab Waste Disposal	Definition, types, and disposal of lab waste	2 theory	10
Presentation, explanation, Q&A, discussion	Lecture	Lab Waste Disposal	Definition, types, and disposal of lab waste	2 theory	11



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Presentation, explanation, Q&A, discussion	Lecture	Lab Warning Signs	Types of warning signs	2 theory	12
Presentation, explanation, Q&A, discussion	Lecture	First Aid in Labs	Importance and contents of first aid kits	2 theory	13
Presentation, explanation, Q&A, discussion	Lecture	Chemical Handling	Tips for handling chemicals in labs	2 theory	14
Presentation, explanation, Q&A, discussion	Lecture	Environmental Factors	Types of physical hazards	2 theory	15
Course Evaluation					
Grades are distributed out of 100 based on student tasks such as daily preparation, quizzes, oral and written exams, reports, etc.					
Learning Resources					
Lectures provided by the instructor			Prescribed Textbooks		
Series of Methodological Books			Main References		
First Aid Guide and Emergency Response in Laboratory Situations			Recommended Supporting Materials		
https://www.google.com/search?q=https://www.who.int/emergencies/biosafety			Electronic References / Websites		



Course Description Template (9)

1. Course Title					
Medical Terminology					
2. Course Code					
MTIK 109					
3. Year / Semester					
First Year 2025 \ 2026					
4. Date of Preparation					
2025 / 9 / 10					
5. Attendance Mode					
On Campus					
6. Total Study Hours					
2 hours theory 2 units					
7. Course Objective					
- By the end of the academic year, the student will be able to identify the definition of the term, medicine, and medical terminology. - The student will be able to recognize the basic structure of the word. - Learn the medical terminology related to the organs of the human body.					Main Objective
1. Teaching and Learning Strategies					
- Training to work within health inspection and monitoring teams, and assisting in laboratory investigation of tested samples . - Assessing the extent of their compliance with health standards					Strategy
1. Course Structure					
Assessment	Teaching Method	Unit / Topic	Learning Outcome	Hours	



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Daily Exam, Monthly Exam, Final Exam	Lectuer	Introduction to Medical Terminology	Introduction to Medical Terminology	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Basic Structure of the Word	Basic Structure of the Word	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Root	Root	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Prefix	Prefix	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Suffix	Suffix	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Rule of Combining Vowels	Rule of Combining Vowels	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Plural Forms	Plural Forms	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Medical Terminology and Pathology	Medical Terminology and Pathology	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Terminology of the Cardiovascular System Terminology of the Nervous System	Terminology of the Cardiovascular System Terminology of the Nervous System	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Terminology of the Teeth, Oral, and Facial Region	Terminology of the Teeth, Oral, and Facial Region	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Terminology of Blood and the Lymphatic System	Terminology of Blood and the Lymphatic System	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Terminology of the Digestive System	Terminology of the Digestive System	2 hours Theory	



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Daily Exam, Monthly Exam, Final Exam	Lectuer	Terminology of the Urinary System	Terminology of the Urinary System	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Terminology of the Respiratory System	Terminology of the Respiratory System	2 hours Theory	
Daily Exam, Monthly Exam, Final Exam	Lectuer	Terminology of the Musculoskeletal System	Terminology of the Musculoskeletal System	2 hours Theory	
Course Assessment					
Grades are distributed out of 100 based on daily preparation, weekly quizzes, oral and written exams, monthly tests, reports, and other assigned tasks.					
Learning Resources					
1. Medical Terminology: A Living Language (4th Edition) Softcover Fremgen, Bonnie F.; Frucht, Suzanne S. 2. Quick & Easy Medical Terminology A Paperback edition by Peggy C. Leonard in English (2 Nov 2023).			Prescribed Textbooks		
Medical Terminology Systems: A Body Systems Approach			Main References		
Stedman's Medical Dictionary for the Health Professions and Nursing			Supporting References: Scientific journals, reports, etc.		
https://www.schulich.uwo.ca/pathol//about_us/resources/glossary_of_medical_terms.html			Electronic Resources: Internet websites and online databases.		



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(10) Course Description Template

1.Course Title					
Clinical Biochemistry					
2.Course Code					
NUT 112					
3.Year / Semester					
Second Semester 2025 \ 2026					
4.Date of Preparation					
2025 / 9 / 10					
5.Attendance Mode					
On Campus					
6.Total Study Hours					
2 hours practical and 2 hours theory total 4 units					
7.Course Objective					
1-Identify diseases related to clinical biochemistry and how to diagnose them. 2- Understand the mechanism of disease, its causes, and methods of diagnosis . 3-Understand external factors influencing the emergence of diseases . 4- Apply theoretical and practical methods of disease diagnosis using advanced instruments and techniques . 5- Analyze the obtained results and compare them with standard reference values					Main Objectives
8.Teaching and Learning Strategies					
1-Identify types of diseases and methods of diagnosis. 2- Recognize major injuries, disease symptoms, and methods of treatment. 3- Learn how to draw blood and methods of sample preservation. 4- Provide the student with a handbook on skills for operating clinical biochemistry testing devices. 5- Learn how to analyze results and compare them with correct/standard results.					Strategies
9.Course Structure					
Assessment	Teaching Method	Unit / Topic	Learning Outcomes	Hours	Week
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	The components of the human body	Introduction Water distribution in human body Water function and equilibrium Water balance	2 practice + 2 Theory	1
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Methods of expressing concentration and PH	Molar system PH concentration Buffer solutions	2 practice + 2 Theory	3&2



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Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Colorimetric analysis	spectrum Beer-lamberts law	2 practice + 2 Theory	4
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Biochemistry	Clinical chemistry Urine Calculi Types of stone	2 practice + 2 Theory	5
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Blood	Anticoagulant factor Blood functions Serum and plasma Chloride Sodium Potassium	2 practice + 2 Theory	6 & 7
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Calcium Phosphorus and Iron	Absorption and metabolism of calcium Clinical significance Function Absorption	2 practice + 2 Theory	8 & 9
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Carbohydrates	Glucose Absorption and storage function Metabolism of glucose Regulation of blood glucose	2 practice + 2 Theory	10
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Hormones affecting glucose concentration	Glucose tolerance test Diabetes mellitus	2 practice + 2 Theory	11
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Lipids	classification Types of lipids cholesterol Ketone body	2 practice + 2 Theory	12



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Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Proteins	Chemical nature of protein Clinical significance	2 practice + 2 Theory	13
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Enzymes	classification Amylase ALP GOT and GPT	2 practice + 2 Theory	14
Daily and Monthly Exams Daily Participation	Educational Lectures Presentations Group Discussions	Hormones Vitamines	Principles of hormone action Lipophilic hormone Class of vitamines Function and source	2 practice + 2 Theory	15
1.Course Assessment					
Grades are distributed out of 100 based on daily preparation, weekly quizzes, oral and written exams, monthly tests, reports, and other assigned tasks.					
2.Learning Resources					
Fundamentals of clinical chemistry, TIETZ			Prescribed Textbooks		
Clinical Biochemistry			Main References		
Lipincotts biochemistry			Supporting References: Scientific journals, reports, etc.		
http://www.webmd.com/biochemistry%20&#x2013;lipids-proteins-enzymes-disease-and-ra			Electronic Resources: Internet websites and online databases.		



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Course Description Template (11)

This course description provides a concise summary of the main characteristics of the course and the expected learning outcomes that the student should achieve, demonstrating whether they have made the most of the available learning opportunities. It must also be linked to the program description.

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Nursing Techniques	Scientific Department
General Anatomy MTK 107	Name / Code of the course
On Campus	Attendance Mode
Semster based	Year / Semester
2theoretical + 2 practical per week / Units(4) 60 = 15×4hours annually	Total Study Hours
2025 / 9 / 10	Date of Preparation
Main Objectives	
1) identify the anatomy of the skeletal and muscular systems and the rest of the body systems. 2) Identify the types of human bones: long and short, as well as the upper and lower limbs..	

Learning Outcomes and Methods of Teaching, Learning, and Assessment

- 1- Attention to physical therapy .
- 2- Dealing with the patient to administer treatments and withdraw blood samples and body fluids based on the anatomical section of the body.

B- Course-Specific Skills Objectives

B1 – Assist in repositioning the bedridden patient in the wards

B2– Provide assistance to the patient during electrocardiogram (ECG) examinations.



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Teaching and Learning Strategies

1- Lecture 2- Case Studies 3- Seminars 5- Summer Training

Methods of Assessment

- Seminars and Reports
- Daily Evaluation
- First Midterm Exam
- Second Midterm Exam
- Final Exams

C- Affective and Value Objectives

C1-Maintain the patient's health confidentiality.

C2 – Develop relationships with colleagues.

D-General and Transferable Skills (Other skills related to employability and personal development) .

D1 – Providing assistance to the patient and the medical staff.



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Assessment Method	Teaching Method	Unit / Topic	Hours	Week
Test	Lecture, discussion, video presentations, mannequin training, live application	Anatomical Positions: Description of all human body positions. Surface Anatomy of the Heart: Description of the heart's position relative to the chest wall and ribs.	4	1
Test	Lecture, discussion, video presentations	Surface Anatomy of the Lungs: Description of lung position relative to the chest wall and ribs. Surface Anatomy of the Abdomen: Drawing abdominal surface regions according to horizontal and vertical lines.	4	2
Test	Lecture, discussion, video presentations	Stomach Anatomy: Explanation of the stomach's relation to other abdominal organs. Liver and Spleen Anatomy: Presentation of liver and spleen regions according to surface anatomy of the abdomen.	4	3
Test	Lecture, discussion, video presentations, models	Intestinal Anatomy: Explanation of the intestines' relation to other abdominal organs. Appendix Anatomy: Identification of the appendix region in the right iliac area.	4	4
Test	Lecture, discussion, video presentations, models	Gallbladder Anatomy: Identification of the gallbladder region under the right ribs. Uterus Anatomy: Identification of the uterus region above the pubic area.	4	5
Practical Test	Lecture, discussion, video presentations, models	Skeletal Anatomy: Description of the axial skeleton (skull, vertebral column) and appendicular bones. Shoulder Bones: Presentation of scapula and clavicle on the skeleton.	4	6
Practical Test	Lecture, discussion, video presentations, models	Arm Bones: Presentation of the humerus. Forearm Bones: Presentation of ulna and radius.	4	7
Practical Test	Lecture, discussion, video presentations, models	Hand Bones: Presentation of carpal bones, metacarpals, and phalanges. Pelvic Bones: Presentation of ilium, ischium, and sacrum.	4	8
Practical Test	Lecture, discussion, video presentations, models	Femur Anatomy: Presentation of femur with upper and lower limbs. Leg Bones: Presentation of tibia and fibula. Dislocation of femur and foot.	4	9
Test	Lecture, discussion, video presentations, models	Foot Bones: Description of tarsals, metatarsals, and phalanges. Skull Bones: Naming and counting bones of all skull surfaces.	4	10
Test	Lecture, discussion, video presentations, models	Vertebral Column Bones: Explanation of vertebrae types and numbers. Shoulder Muscles: Presentation of all shoulder muscles using models.	4	11
Test	Lecture, discussion, video presentations, models	Thoracic Wall Anatomy: Presentation of rib types and numbers, and sternum. Chest and Abdominal Muscles: Identification of thoracic and abdominal wall muscles.	4	12
Test	Lecture, discussion, video presentations, models	Back and Gluteal Muscles: Presentation of back and gluteal muscles. Digestive System Anatomy: Presentation of digestive system organs using models.	4	13
Test	Lecture, discussion, video presentations, models	Cardiovascular Anatomy: Presentation of heart and blood vessels using models. Respiratory System Anatomy: Explanation of lungs, trachea, and bronchioles.	4	14
Test	Lecture, discussion, video presentations, models	Urogenital System Anatomy: Presentation of kidneys and urinary bladder, highlighting uterus and prostate. Central Nervous System Anatomy: Description of brain, cerebellum, medulla oblongata, and spinal cord.	4	15



(12) Course Description Template

1-Course Title	
Medical Surgical Nursing	
2-Course Code	
NUT111	
3-Year / Semester	
Second Semester of the year 2026-2025	
4-Date of Preparation	
2025 / 9 / 10	
5-Attendance Mode	
On Campus	
6-Total Study Hours	
3 hours theory and 4 hours practice total 7 units	
7-Course Objective	
- General information about internal medicine and surgical diseases - Information about patients' basic needs and providing comfort and complete care to meet their needs	Main Objectives
1. استراتيجيات التعليم والتعلم	
- Active Learning - Teaching Using Modern Technologies - Interactive Learning and Discussions	Strategies

Learning Outcomes, Teaching & Assessment Methods

A. Cognitive Objectives

A1- Qualify graduates in professional behavior, achieving harmony with self and professional environment (patients, companions, health workers, medical devices).



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A2- Knowledge of internal and surgical diseases and patient care before and after surgical operations.

B. Skills Objectives (Course-Specific)

B1-Provide nursing care for patients before and after surgical operations.

B2-Provide nursing care for patients with gastrointestinal, respiratory, urinary, hematological, cardiac, ENT, ophthalmic, and dermatological diseases.

B3-Provide nursing care in the Coronary Care Unit (CCU) and Intensive Care Unit (ICU).

Teaching & Learning Methods:

- Lectures, seminars
- Practical training in labs
- Summer training.

Assessment Methods:

- 1- Seminars & reports
- 2- Daily evaluation
- 3- Practical exam (in-person)
- 4- Midterm exam (in-person)
- 5- Final exam (in-person).

C. Affective & Value Objectives

C1-Treat patients kindly.

C2-Strengthen relationships with colleagues.

C3-Maintain patient confidentiality.

C4-Listen to patients and meet their needs.

Teaching & Learning Methods:

- 1- Lectures
- 2- seminars
- 3- practical training
- 4-summer training.

Assessment Methods:



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D. General & Transferable Skills

D1-Use modern devices to evaluate patient health status.

D2-Apply modern computer programs to input patient data.

Course Objectives (Statistics Component)

1-By the end of the academic year, students can process and analyze statistical data and reach correct conclusions.

2-Students can prepare statistical forms.

Learning Outcomes (Statistics)

- Handle statistical data.
- Understand bio statistical and health measures.
- Organize statistical and health forms related to daily events (births, deaths, diseases).

Skills Objectives:

- Apply statistical measures in research and studies.
- Organize statistical and health forms related to daily events.

Teaching & Learning Methods:

- In-person lectures, case studies, seminars, summer training.

Assessment Methods:

Seminars & reports, daily evaluation, midterm exam (in-person), final exam (in-person).

Affective & Value Objectives (Statistics)

C1-Maintain patient health confidentiality.

C2-Develop relationships with colleagues.

C3-Maintain institutional records and information .



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Teaching & Learning Methods:

In-person lectures, seminars, summer training.

Assessment Methods

Observation, interview, cumulative student record.

General & Transferable Skills (Statistics)

D1-Use modern devices to prepare statistical forms.

D2-Apply modern computer programs to input patient data.

D – General and transferable qualifying skills (other skills related to employability and personal development).

D1 – Developing the student's ability to improvise and enhancing their interactive capacity with others through organizing discussion sessions.

D2 – Preparing students for fieldwork by enabling their direct communication with health staff during field visits organized by the department.

This course description provides a concise summary of the main characteristics of the course and the expected learning outcomes that students are required to achieve. It demonstrates whether the student has maximized the benefit from the available learning opportunities. Furthermore, it is essential to establish a clear linkage between the course description and the overall program description to ensure coherence and alignment.



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(13) Course Description

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	1. Institution
Nursing Techniques	2. Department
Fundamentals of Nursing / NUT110	3. Course Title / Code
On Campus	4. Attendance Mode
Credit System	5. Semester / Year
3theoretical + 4 practical = 7 hours per week × 30 weeks = 210 hours annually	6. Total Study Hours
2025 / 9 / 10	7. Date of Preparation
Course Objectives	
1. Provide students with theoretical knowledge of health concepts and nursing/medical terminology.	
2. Familiarize students with nursing care equipment for different age groups.	
3. Understand the basics and steps of nursing reports and documentation	
4. Recognize the importance of nursing theories and apply them in practice.	
5- Enable students to acquire knowledge, skills, and general practice in fundamentals of nursing.	

Learning Outcomes and Methods



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A. Cognitive Objectives

- A1-Understand methods and rules of the nursing profession.
- A2-Link theoretical scientific knowledge with practical application.
- A3-Conduct scientific research in hospitals and health centers.
- A4-Comprehend and develop principles of professional conduct and health education.

B. Skills Objectives (Course-Specific)

- B1-Ability to perform nursing diagnosis for medical cases.
- B2-Provide nursing services to all age groups in the community.
- B3-Ability to conduct nursing diagnosis for all age groups in the community.

Teaching Methods:

Online lectures, seminars, practical training in laboratories.

Assessment Methods:

Oral exams, seminars, reports, research, daily evaluation, lab reports, practical exam (On Campus), midterm exam (On Campus), final exam (On Campus).

C. Affective & Value Objectives

- C1-Maintain patient health confidentiality.
- C2-Develop relationships with colleagues.
- C3-Demonstrate humane treatment of patients.
- C4-Listen to patients kindly.

Teaching Methods

Theoretical lectures, practical training, and situational learning

Assessment Methods

Observation, interview, cumulative student record.

D. General & Transferable Skills

- D1-Use modern devices to evaluate patient health status.
- D2-Apply modern computer programs to input patient data.



Course Description (Second Stage)

(1) Course Description Template

This course description provides a concise summary of the main characteristics of the course and the expected learning outcomes that students should achieve, demonstrating whether they have made the most of the available learning opportunities. It must be linked to the program description.

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	3- Institution
Nursing Techniques	4- Department
Obstetrics and Gynecology Nursing –NTU204	5- Course Title / Code
On Campus	6- Attendance Mode
Credit System	7- Semester / Year
3 hours theory + 3 hours practical = 6 hours weekly $6 \times 30 = 180$ hours annually	8- Total Study Hours
2025 / 9 / 10	9- Date of Preparation
Course Objectives	
- Care for pregnant women - Care during childbirth and postpartum	



Learning Outcomes, Teaching and Assessment Methods

A. Cognitive Objectives

- A1: Identify the female reproductive system and its diseases
A2: Understand how to care for pregnant women during pregnancy and after delivery
A3: Recognize problems faced by pregnant women during pregnancy, childbirth, and postpartum
A4: Knowledge of types of abortion and their causes

B. Skills-Based Objectives

- B1: Apply the nursing process in caring for mother and child
B2: Measure and record fetal heartbeat

Teaching and Learning Methods

- On campus lectures and seminars
- Practical training in laboratories
- Screening of scientific films

Assessment Methods

- 1- Seminars and reports
- 2- Daily evaluation
- 3- Practical exam (in-person)
- 4- Midterm exam (in-person)
- 5- Final exams (in-person)

C. Affective and Value-Based Objectives

- C1: Maintain patient health confidentiality
C2: Develop relationships with colleagues
C3: Demonstrate humane treatment of patients
C4: Listen to patients kindly

Teaching and Learning Methods

- On Campus lectures
- Seminars
- Summer training

Assessment Methods



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D – General and Transferable Skills

(Other skills related to employability and personal development)

D1: Uses modern devices to assess the health status of the mother and fetus.

D2: Applies modern computer programs to enter patient data.

Course Description (Second Stage)

(2) Course Description Template

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	1- Institution
Nursing Techniques	2- Department
Psychiatric and Mental Health Nursing – NUT206	3- Course Title / Code
On Campus	4- Attendance Mode
Credit System	5- Semester / Year
3hours theory + 2 hours practical = 5 hours weekly $5 \times 30 = 150$ hours annually	6- Total Study Hours
2025 / 9 / 10	7- Date of Preparation
Course Objectives	
Enable the student to understand mental health so that the individual can be free from psychological and mental disorders.	

Learning Outcomes, Teaching and Assessment Methods

A. Cognitive Objectives

A1: Knowledge of how to deal with individuals suffering from psychological and mental illnesses

A2: Understanding the importance of psychological care in the treatment of diseases



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B. Skills-Based Objectives

B1: Ability to perform nursing diagnosis for psychiatric cases

B2: Provide nursing care for patients with psychological and mental illnesses

Teaching and Learning Methods

- Online lectures and seminars
- Practical training in laboratories
- Educational films

Assessment Methods

- Seminars and reports
- Daily evaluation
- Practical exam (in-person)
- Midterm exam (in-person)
- Final exams (in-person)

C. Affective and Value-Based Objectives

C1: Maintain patient health confidentiality

C2: Develop relationships with colleagues

C3: Demonstrate humane treatment of patients

C4: Listen to patients kindly

Teaching and Learning Methods

- In-person lectures
- Seminars
- Summer training

Assessment Methods

- Observation
- Interview
- Student cumulative record

D. General and Transferable Skills

(Other skills related to employability and personal development)

D1: Use modern devices to assess the health status of psychiatric patients

D2: Apply modern computer programs to enter patient data



Course Description (Second Stage)

(3) Course Description Template

This course description provides a concise summary of the main characteristics of the course and the expected learning outcomes that students should achieve, demonstrating whether they have made the most of the available learning opportunities. It must be linked to the program description.

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	1- Institution
Nursing Techniques	2- Department
Primary Health Care – NUT203	3- Course Title / Code
On Campus	4- Attendance Mode
Credit System	5- Semester / Year
32 hours theory + 3 hours practical = 5 hours weekly $5 \times 30 = 150$ hours annually	6- Total Study Hours
2025 / 9 / 10	7- Date of Preparation
Course Objectives	
1- Enable the student to understand the foundations and principles of primary health care. 2- Develop knowledge of communication skills, health education, and disease prevention.	



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Learning Outcomes, Teaching and Assessment Methods

A. Cognitive Objectives

- A1: Identify maternal and child health care programs.
- A2: Identify environmental health programs and environmental pollution.
- A3: Identify immunization programs against diseases and the cold chain system.
- A4: Identify rural health care programs.
- A5: Identify school health programs.
- A6: Identify programs for the prevention of communicable diseases.
- A7: Acquire skills and experience in educational and health programs.

B. Skills-Based Objectives

- B1: Record observations about the school environment after school visits.
- B2: Measure the weight of mother and child and record it in their forms to monitor child growth and maternal pregnancy development.
- B3: Measure blood pressure of pregnant women.
- B4: Provide health guidance to mothers at all stages of care.
- B5: Participate in vaccination campaigns conducted by the medical team at the health center where the student is trained.

Teaching and Learning Methods

- Theoretical lectures and seminars
- Practical training in laboratories
- Screening of scientific films

Assessment Methods

- Seminars and reports
- Daily evaluation
- Practical exam (in-person)
- Midterm exam (in-person)
- Final exams (in-person)



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C. Affective and Value-Based Objectives

C1: Treat patients kindly

C2: Strengthen relationships with colleagues

C3: Maintain patient confidentiality

C4: Provide health awareness and education to the community about health promotion and disease prevention

Teaching and Learning Methods

- In-person lectures
- Seminars
- Summer training
- Assessment Methods
- Observation
- Interview
- Student cumulative record

D. General and Transferable Skills

(Other skills related to employability and personal development)

D1: Apply modern computer programs to enter patient data.

D2: Implement Ministry of Health programs related to primary health care, such as early detection of breast cancer, early detection of hypertension and diabetes, and other related programs.



Course Description (Second Stage)

(4) Course Description Template

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	1- Institution
Nursing Techniques	2- Department
Pediatric Nursing – NUT205	3- Course Title / Code
On Campus	4- Attendance Mode
Credit System	5- Semester / Year
3 hours theory + 3 hours practical = 6 hours weekly $6 \times 30 = 180$ hours annually	6- Total Study Hours
2025 / 9 / 10	7- Date of Preparation
Course Objectives	
1- Enable students to acquire the knowledge, skills, and behaviors necessary to maintain the child's health. 2- Focus on prevention and early diagnosis of health problems, while reducing issues related to child health, growth, and development.	

Learning Outcomes, Teaching and Assessment Methods

A. Cognitive Objectives

A1: Identify nursing care for newborns.

A2: Identify nursing care for premature infants, including feeding methods and incubator care.

A3: Understand child growth and development from 1 to 12 months, with continued monitoring throughout life.



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A4: Recognize causes of malnutrition and diseases resulting from it.
A5: Identify communicable and epidemic diseases affecting children.
A6: Recognize physically, psychologically, and mentally disabled children and understand how to use physical therapy for them.

B. Skills-Based Objectives

B1: Apply the nursing process in child care.
B2: Measure and record pulse, reflexes, and respiration using the Apgar score chart.
B3: Use growth and development charts for infants in the early months.

Teaching and Learning Methods

- In-person lectures and seminars
- Practical training in laboratories
- Educational films

Assessment Methods

- Seminars and report
- Daily evaluation
- Practical exam (in-person)
- Midterm exam (in-person)
- Final exams (in-person)

C. Affective and Value-Based Objectives

C1: Maintain patient's personal and health confidentiality
C2: Strengthen relationships with colleagues
C3: Demonstrate humane treatment of patients
C4: Listen to patients kindly

Teaching and Learning Methods

In-person lectures
Seminars
Summer training

Assessment Methods

Observation
Interview
Student cumulative record



Course Description (Second Stage)

(5) Course Description Template

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	1- Institution
Nursing Techniques	2- Department
Nutrition and Diet Therapy – NUT207	3- Course Title / Code
On Campus	4- Attendance Mode
Credit System	5- Semester / Year
2hours weekly / 2 credit units $2 \times 30 = 60$ hours annually	6- Total Study Hours
2025 / 9 / 10	7- Date of Preparation
Course Objectives	
Enable the student to understand the fundamentals of nutrition and diet therapy.	

Learning Outcomes, Teaching and Assessment Methods

A. Cognitive Objectives

Understand dietary guidelines and nutritional requirements.

Identify essential nutrients.

Select healthy meals.

Provide nutrition for patients and special cases.

B. Skills-Based Objectives

B1: Apply dietary guidelines.

B2: Meet patients' nutritional needs.

B3: Prepare special diets for patients according to their medical conditions.



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Teaching and Learning Methods

- In-person lectures and seminars
- Practical training in laboratories
- Educational films

Assessment Methods

- Seminars and reports
- Daily evaluation
- Practical exam (in-person)
- Midterm exam (in-person)
- Final exams (in-person)

C. Affective and Value-Based Objectives
 C1: Maintain patient health confidentiality
 C2: Strengthen relationships with colleagues
 C3: Demonstrate humane treatment of patients
 C4: Apply therapeutic nutrition in patient care

Teaching and Learning Methods

- In-person lectures
- Seminars
- Summer training

Assessment Methods

- Observation
- Interview
- Student cumulative record

D. General and Transferable Skills
 (Other skills related to employability and personal development)
 D1: Use modern devices to prepare nutrition forms for each patient according to their health condition.
 D2: Apply modern computer programs to enter patient data.



Course Description (Second Stage)

(6) Course Description Template

This course description provides a concise summary of the main characteristics of the course and the expected learning outcomes that students should achieve, demonstrating whether they have made the most of the available learning opportunities. It must be linked to the program description.

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	1- Institution
Nursing Techniques	2- Department
Pharmacology – NUT208	3- Course Title / Code
On Campus	4- Attendance Mode
Credit System	5- Semester / Year
2 hours theory + 2 hours practical = 4 hours weekly $4 \times 30 = 120$ hours annually	6- Total Study Hours
2025 / 9 / 10	7- Date of Preparation
Course Objectives	
The course aims to enable students to acquire the knowledge, skills, and behaviors necessary to understand the mechanisms of drug action, side effects, therapeutic effects, calculation of pediatric doses, and reduction of errors related to drug administration.	



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Learning Outcomes, Teaching and Assessment Methods

A. Cognitive Objectives

A1: Understand methods of drug administration and medical conditions requiring specific dosages.

A2: Learn how to calculate pediatric doses.

A3: Identify drugs and classify them according to body systems and organs.

A4: Understand mechanisms of drug action.

A5: Recognize drug excretion methods.

A6: Understand metabolic processes related to each drug.

B. Skills-Based Objectives

B1: Enable students to calculate pediatric doses and administer drugs to patients.

B2: Enable students to calculate dosage limits, prepare drug formulations, and administer them.

B3: Enable students to schedule medications administered intramuscularly or intravenously and distinguish them from other routes.

B4: Enable students to identify side effects of drugs, such as hypersensitivity reactions to penicillin.

Teaching and Learning Methods

- In-person lectures and seminars
- Practical training in laboratories
- Educational films

Assessment Methods

- Seminars and reports
- Daily evaluation
- Practical exam (in-person)
- Midterm exam (in-person)
- Final exams (in-person)

C. Affective and Value-Based Objectives

C1: Maintain patient health confidentiality

C2: Strengthen relationships with colleagues

C3: Demonstrate humane treatment of patients



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Teaching and Learning Methods

- In-person lectures
- Seminars
- Summer training

Assessment Methods

- Observation
- Interview
- Student cumulative record

D. General and Transferable Skills

(Other skills related to employability and personal development)

D1: Use modern devices to prepare nutrition forms for each patient according to their health condition.

D2: Apply modern computer programs to enter patient data.



Course Description (Second Stage)

(7) Course Description Template

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	1- Institution
Nursing Techniques	2- Department
Professional Ethics – NTU204	3- Course Title / Code
On Campus	4- Attendance Mode
Credit System	5- Semester / Year
2 hours weekly $2 \times 30 = 60$ hours annually	6- Total Study Hours
2025 / 9 / 10	7- Date of Preparation
Course Objectives	
Introduce students to the fundamental principles of professional conduct for workers in medical specialties.	

Learning Outcomes, Teaching and Assessment Methods

A. Cognitive Objectives

- A1: Prepare graduates for professional behavior in dealing with their profession, achieving harmony with themselves and their professional environment (patients, companions, health workers, and medical devices).
A2: Understand patient rights and confidentiality.



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B. Skills-Based Objectives

B1: Ability to write reports.

B2: Ability to interact with patients, their families, and health workers.

Teaching and Learning Methods

- In-person lectures and seminars
- Practical training in laboratories
- Educational films

Assessment Methods

- 1- Seminars and reports
- 2- Daily evaluation
- 3- Practical exam (in-person)
- 4- Midterm exam (in-person)
- 5- Final exams (in-person)

C. Affective and Value-Based Objectives

C1: Treat patients kindly

C2: Strengthen relationships with colleagues

C3: Maintain patient confidentiality

Teaching and Learning Methods

In-person lectures

Seminars

Summer training

Assessment Methods

- Observation
- Interview
- Student cumulative record

D. General and Transferable Skills

D1: Write objective scientific reports on professional conduct.

D2: Create posters and murals illustrating principles of professional behavior.

D3: Problem-solving and interpersonal skills in various situations.



Course Description (Second Stage)

(8) Course Description Template

Ministry of Higher Education and Scientific Research / Northern Technical University / Technical Medical Institute – Kirkuk	1- Institution
Nursing Techniques	2- Department
Computer Applications II – NTU201	3- Course Title / Code
On Campus	4- Attendance Mode
Credit System	5- Semester / Year
1 hour theory + 1 hour practical = 2 hours weekly $2 \times 30 = 60$ hours annually	6- Total Study Hours
2025 / 9 / 10	7- Date of Preparation
Course Objectives Enable students to operate computers, understand their use, and apply software programs effectively.	

Learning Outcomes, Teaching and Assessment Methods

A. Cognitive Objectives

A1: Develop teamwork skills through practical application of computer programs.

A2: Apply theoretical knowledge in practical settings to strengthen student capabilities.

A3: Prepare students practically through required research.

A4: Update programs and curricula to meet health sector requirements.

B. Skills-Based Objectives

B1: Enable students to work collaboratively in teams.

B2: Develop scientific skills in using computers in the health field.



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Teaching and Learning Methods

- In-person lectures and seminars
- Modern visual and audio aids, projectors

Assessment Methods

- 1- Seminars and reports
- 2- Daily evaluation
- 3- Practical exam (in-person)
- 4- Midterm exam (in-person)
- 5- Final exams (in-person)

C. Affective and Value-Based Objectives

C1: Build student confidence through practical computer applications in the health field.

C2: Strengthen language skills through seminars and discussion reports.

Teaching and Learning Methods

- In-person lectures
- Seminars
- Summer training

Assessment Methods

- 1- Observation
- 2- Interview
- 3- Student cumulative record

D. General and Transferable Skills

D1: Develop improvisation and interactive skills through discussion sessions.

D2: Prepare students for fieldwork by engaging directly with health staff during summer training

Course Structure (Sample Weekly Units)

Assessment Method	Teaching Method	Unit / Topic	Expected Learning Outcomes	Hours	Week
Oral and practical exams	Theory + Practical	Fundamentals of Nursing	Explain nursing history and normal vital signs	7	30



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Oral and practical exams	Theory + Practical	Medical-Surgical Nursing	Understand nursing care in medical and surgical fields	7	30
Oral and practical exams	Theory + Practical	Obstetrics and Gynecology Nursing	Understand female reproductive anatomy, gynecological diseases, causes of abortion, and nursing care	6	30
Oral and practical exams	Theory + Practical	Psychiatric Nursing	Understand mental health and dealing with psychiatric patients	5	30
Oral and practical exams	Theory + Practical	Primary Health Care	Understand principles of maternal and child health care, health promotion, disease prevention, and immunization	5	30
Oral and practical exams	Theory + Practical	Pediatric Nursing	Understand growth and development in children, newborns, and premature infants, and pediatric nursing care	6	30
Oral and practical exams	Theory + Practical	Nutrition and Diet Therapy	Understand dietary guidelines and nutrition for patients and special cases	2	30

Infrastructure

Smith & Ghips " Medical Surgical Nursing
Philadelphia 2000 .

Required Textbooks



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Fundamentals of Nursing.	Main References
Scientific journals, reports, Ministry of Higher Education Virtual Library.	A- Recommended
- Ministry of Higher Education Virtual Library. - Institute's electronic library.	B-Electronic References

Course Development Plan

- 1- Invite nursing researchers to deliver lectures and provide feedback on curriculum development.
- 2- Utilize the Ministry of Higher Education Virtual Library.
- 3- Use reputable scientific websites to enhance the course with films and updates in the field.
- 4- Link theoretical and practical aspects of the course through student projects.