Ministry Of Higher Education and Scientific Research
Supervision and Scientific Evaluation Apparatus
Quality Assurance and Academic Accreditation Department
Accreditation Department

University of Al-Ameed - College of Nursing
Academic Program Description

Bachelor of Science in Nursing / Undergraduate
First Stage –Bologna Process
2025-2026

Revised by

Scientific Committee in University of Al-Ameed – College of Nursing

University of Al-Ameed – College of Nursing© 2025
Karbala City Karbala – Najaf Highway Front of Pole (1238) P.O No:198 Karbala
https://alameed.edu.iq/College-of-Nursing
Mobile (07819165645), E-mail (info@alameed.edu.iq)

First: Program Information:

University: University of Al-Ameed

College: Nursing

Department: Nursing

Name of Academic Program: Bachelor of Nursing - Undergraduate Study

Name of Final Degree: Bachelor of Science in Nursing

Study System: Semesters

Date of Preparation of Description: 04/12/2025

Date of Filling the File: 04/12/2025

Signature:

Prof. Dr. Diaa K. Abd Ali

Dean of the College of Nursing

Signature:

Assist. Prof. Dr. Lamya A.Alkarem Darwish

Vice President for Scientific Affairs

File checked by the Quality Assurance and University Performance Division

Name of the Director of the Quality Assurance and University Performance Division:

Lecturer Assist. Abbas Fadhel Musa

Date: 4/12

Signature:

Approval of the University President

Prof. Dr. Jawdat Nouri Al-Jashaami

Program Vision

Towards sustainable development to qualify effective nursing staff in health care.

Program Mission

Building academic and health partnerships and enhancing the role of scientific research to reach the number of nursing staff with effective professional competence in health care for the community

Program Objectives

- Sustaining the development and consolidation of educational programs
- Enabling comprehensive student support
- Encouraging scientific research
- Building academic partnerships
- Establishing work with quality standards and comprehensive improvement

Program Accreditation

The program has been accredited.

External influences

The program is affected by a number of influences, including the rapid development in nursing services and the needs of society. The program is also affected by the instructions of the Ministry of Higher Education and Scientific Research, the Al-Abbas's Holy Shrine, and Al-Ameed University.

Expected Learning Outcomes	
Cognitive Aspect:	
Goal	**Learning Outcomes**
Providing the student with scientific knowledge to provide nursing care and contribute to the development of the nursing profession.	• Demonstrate the highest level of understanding and awareness of the scientific, professional and administrative aspects (nursing competencies) related to the practice of the nursing profession.
	• Appreciate the importance of learning and self-development and its impact on both the health care system and the health care recipient.
	• Commitment to policies related to reducing the rate of occupational risks when providing nursing care.
Practical Aspect:	
Goal	**Learning Outcomes**
Enabling the student to master the practical and applied skills related to the nursing profession based on evidence-based practice.	• Apply comprehensive nursing care related to the physiological, psychological and social needs of healthcare recipients.
	• Identify actual and potential needs associated with various health disorders and develop nursing plans based on scientific protocols.
	• Employ observation and critical thinking skills when evaluating health variables resulting from various health disorders and following up on their developments.
	• Understand the concepts of responsibility and accountability when applying nursing profession standards and adhering to the legal aspects regulating the profession.
Value aspect	
Goal	**Learning Outcomes**
Enhance the student's ability to demonstrate the highest level of communication and effective participation.	• Commitment to standards of professional, ethical and legal conduct when practicing the nursing profession.
	• Participation of health team members and local community institutions in drawing up comprehensive action plans for health care recipients.
	• Communicate effectively with health team members using communication skills and information technology

Teaching and Learning Strategies

- Explanation and clarification through lectures using methods of displaying scientific materials with display devices: data show, smart boards, plasma screens
- Self-learning through homework and mini-projects within lectures.
- Clinical and laboratory training
- Scientific visits.
- Seminars and discussion groups.
- Summer training

Evaluation Methods

- Short Exams (Quiz)
- Homework
- Midterm and Final Exams for Theoretical and Practical Subjects
- Small Projects within the Lesson
- Interaction within the Lecture
- Reports
- Practical Evaluation

Faculty Staff

Scientific Title	Specialty		Requirements and Competencies	Number	
	Nursing	Others		Full time	Part time
Professor	٤	٠	Post-graduate degree and methods of Learning Certificate	٤	٠
Assist. Prof.	٣	٢		٤	١
Instructor	٣	٢		٢	٣
Instructor Assistance	١١	٣		٢	١٢

Professional Development

Orientation of new faculty members

The certificate and academic title are necessary requirements for faculty members as well as developing skills through their participation in the activities of the program to develop the capabilities and abilities of teachers. The performance of the teacher will be subject to an evaluation at the end of each academic year (performance evaluation) in addition to the necessity of obtaining teaching qualification certificates.

Professional development of faculty members

The program to develop the capabilities and abilities of teachers is prepared annually and feedback is taken from students about teaching and learning methods and the results are discussed after conducting statistical analysis.

Admission Criteria

The student is accepted into the program according to the instructions of the Ministry of Higher Education and Scientific Research, which are updated annually.

The most important sources of information about the program

- The official website of the college (College of Nursing (https://alameed.edu.iq/)
- The College of Nursing Guide.

Program's Up to dating Plan

The program is subject to periodic development by the curriculum development committees emanating from the Committee of Deans of Iraqi Nursing Colleges.

Republic of Iraq - Ministry of Higher Education and Scientific Research
University of alameed

Bachelor's degree in Nursing Sciences (First cycle)
Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr
Program Curriculum (2025 - 2026)

جمهورية العراق – وزارة التعليم العالي والبحث العلمي
جامعة العميد

بكالوريوس علوم في التمريض (الدورة الأولى)
أربع سنوات (ثمانية فصول دراسية) – ٢٤٠ وحدة اوربية – كل وحدة اوربية = ٢٥ ساعة

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGI	One	1	NUR111001	Anatomy and Physiology for Nurses I	التشريح والفسلجة للممرضين I	English	3		2				4	79	96	175	7.00	B	
		2	NUR111002	Biochemistry	الكيمياء الحياتية	English	3		2				4	79	71	150	6.00	B	
		3	NUR111003	Fundamentals of Nursing I	اساسيات التمريض I	English	4		6		1		4	169	106	275	11.00	C	
		4	NUR111004	Medical Terminology	المصطلحات الطبية	English	2						3	33	17	50	2.00	C	
		5		Elective Course from List 1	المادة الاختيارية من قائمة ١	English	2						3	33	17	50	2.00	E	
		6	UOA114	Human Rights and Democracy	حقوق الانسان والديموقراطية	Arabic	2						3	33	17	50	2.00	S	
						Total	16	0	10	0	1	0	21	426	324	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSW_(hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
	Two	1	NUR111109	Anatomy and Physiology for Nurses II	التشريح والفسلجة للممرضين II	English	3		2				4	79	121	200	8.00	B	Anatomy and Physiology for Nurses I
		2	NUR111010	Code of Ethics	اخلاقيات مهنة التمريض	English	2						3	33	42	75	3.00	S	
		3	NUR111111	Fundamentals of Nursing II	اساسيات التمريض II	English	4			12			4	244	56	300	12.00	C	Fundamentals of Nursing I
		4		Elective Course from List 2	المادة الاختيارية من قائمة ٢	English	2						3	33	17	50	2.00	E	
		5	UOA111	Arabic Language I	اللغة العربية I	Arabic	2						3	33	17	50	2.00	S	
		6	UOA113	Computer Science I	علم الحاسوب I	Arabic	1		2				3	48	27	75	3.00	S	
						Total	14	0	4	12	0	0	20	470	280	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSW_(hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGII	Three	1	NUR211117	Adult Nursing I	تمريض البالغين I	English	4			12			4	244	56	300	12.00	C	Fundamentals of Nursing II
		2	NUR211018	Health Assessment	تقييم الصحة	English	2		2				4	64	86	150	6.00	C	
		3	NUR211019	Microbiology for Nurses I	الاحياء المجهرية للممرضين I	English	2		2				4	64	86	150	6.00	B	
		4	NUR211020	Pharmacology for Nurses I	علم الادوية للممرضين I	English	2						3	33	67	100	4.00	B	
		5	UOA215	Crimes of the Baath Regime in Iraq	جرائم نظام البعث في العراق	Arabic	2						3	33	17	50	2.00	S	
														0		0	0.00		
						Total	12	0	4	12	0	0	18	438	312	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w) CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
	Four	1	NUR211122	Adult Nursing II	تمريض البالغين II	English	4			12			4	244	56	300	12.00	C	Adult Nursing I
		2	NUR211123	Microbiology for Nurses II	الاحياء المجهرية للممرضين II	English	2		2				4	64	86	150	6.00	B	Microbiology for Nurses I
		3	NUR211024	Pathophysiology for Nursing	أسلبة الامراض للممرضين	English	2						3	33	42	75	3.00	C	
		4	NUR211125	Pharmacology for Nurses II	علم الادوية للممرضين II	English	2						3	33	67	100	4.00	B	Pharmacology for Nurses I
		5	UOA211	Arabic Language II	اللغة العربية II	Arabic	2						3	33	17	50	2.00	S	Arabic Language I
		6	UOA213	Computer Science II	علم الحاسوب II	Arabic	1		2				3	48	27	75	3.00	S	Computer Science I
						Total	13	0	4	12	0	0	20	455	295	750	30.00		

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Anatomy and Physiology for Nurses I	**Module Delivery**				
		Method	**h/week**	**Frequency**		
Module Type	Basic	**Theory**	٣	15		
		Lecture	-	-		
Module Code	NUR111001	**Lab**	2	15		
		Tutorial	-	-		
ECTS Credits	7 ECTS	**Practical**	-	-		
SWL (hr/sem)	175	**Seminar**	-	-		
Module Level	UG I	**Semester of Delivery**	1st Semester			
Administering Branch	Basic Sciences	**College**	NUR			
Module Leader	Dr. Hussein Allawi Hussein Al-Ghanimi	**e-mail**	hughanimi@alameed.edu.iq			
Module Leader's Acad. Title	Assistant Professor	**Module Leader's Qualification**	Ph.D.			
Module Tutor	Dr. Hussein Allawi Hussein Al-Ghanimi M.Sc. Zainab Hashim Ali M. Sc. Asmaa Faisal Rudhan	**e-mail**	hughanimi@alameed.edu.iq za.al-mosawi@alameed.edu.iq			
Peer Reviewer Name	Prof. Dr. Basim MH Zwain	**e-mail**	basimzwain@alameed.edu.iq			
Scientific Committee Approval Date	November 2 , 2025	**Version Number**	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	None
Co-requisites module	None	**Semester**	None

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	• Provide students with fundamental concepts of the anatomy and physiology of the human body • Enhance the students' knowledge and understanding of the complex systems within the human body. • Students will develop an understanding of the physiological processes inside the body as nursing students • To familiarize students with the systems of the digestive, neurological, neuromuscular, respiratory, cardiovascular, excretory, immunological, reproductive, and endocrine systems, as well as their normal architecture and physiology. • The students will be able to recognize, locate, and comprehend the links between the various body parts. • Describe the interrelationships between anatomy and physiology in each of the system listed • Explain the primary control mechanisms of nervous and endocrine system, and the principles of feedback processes. • Identify the anatomical structures in each of the listed organ systems.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Describe the fundamental physiological and anatomical terms pertaining to the systems of the human body. • Explain the human body's primary organs and overall anatomical structure. • Describe the physiological processes that keep the body in a state of homeostasis. • Provide examples of the connection between organ and tissue structure and function. • Define physiological alterations linked to basic clinical states. • Examine how the various bodily systems—such as the respiratory, circulatory, and neurological systems—interact with one another. • Using anatomical models or pictures identify the main organs and body parts, and identify tissues and organs using microscopes and lab equipment. • Accurately carry out simple physiological tests (CBC, blood group, bleeding time, blood sugar and blood pressure etc.). • Adhere to ethical and safety protocols in the lab setting. • Engage in productive peer collaboration during group and lab exercises.
Indicative Contents المحتويات الإرشادية	<u>Theory Lectures</u> Basic scientific principles of anatomy and physiology [SSWL= 3] • Connection between anatomy and physiology • Gross and microscopic anatomy • Intracellular and Extracellular fluid • Electrolytes Cells, cellular organelle, transport systems [SSWL= 3] • Transports system • Cell membrane • Cells organelle • Basic functions of living organisms

The blood [SSWL= 3]

- Blood properties
- Hemoglobin
- Life cycle of blood cells
- Hemostasis

Tissue [SSWL= 3]

- Epithelial tissue
- Connective tissue
- Nervous tissue
- Muscle tissue

The skeletal system (Axial skeleton) [SSWL= 3]

- Bone and its functions
- Types of bone
- The scull and the vertebral column

Appendicular skeleton [SSWL= 3]

- Upper limbs
- Lower limbs
- Joints

The muscular system [SSWL= 3]

- Functions of the muscular system
- Smooth or visceral muscle
- Cardiac muscles
- Microanatomy of muscle fibers

The Skeletal muscle [SSWL= 3]

- Organization of the skeletal muscular system
- Gross anatomy of skeletal muscles
- Muscle fatigue
- Skeletal muscle movement

The Circulatory system [SSWL= 3]

- Blood vessels
- Structure and function of arteries, veins and capillaries
- Blood pressure
- Physiological factors regulating blood pressure

The cardiac system [SSWL= 3]

- Size, structures and location of the heart
- Heart valves
- The cardiac cycle
- Regulation of heart rate

The digestive system[SSWL= 3]

- The activity of the digestive system
- The organization of the digestive system
- Chemical and Physical digestion
- The oral mouth, pharynx, esophagus, stomach, and intestines.

Accessory organs of digestive system [SSWL= 3]

- Liver
- Pancreas
- Gall bladder

Digestive tract hormones [SSWL= 3]

- Chemical digestion

- Nutrition
- Balance diet

The renal system [SSWL= 3]

- Renal system organs
- Kidneys
- Nephrons
- Functions of the kidneys

Urine formation [SSWL= 3]

- Filtration
- Selective reabsorption
- Excretion
- Micturition

Lab. Lectures

Terms used in anatomy and physiology [SSWL= 2]

- Anatomic terminology
- Body cavities
- The microscope

RBC Abo system [SSWL= 2]

- RBC Structure
- The Rhesus system
- Blood group test

Complete Blood count (CBC) [SSWL= 2]

- Procedure of CBC test
- Components of report
- Read of report

Surface anatomy [SSWL= 2]

- Head and neck region
- Trunk and abdominopelvic region
- The skin layers

Packed cells volume (PCV) [SSWL= 2]

- Hemoglobin structure
- Tools and device use for PCV
- The procedure

Axial Skeleton parts [SSWL= 2]

- The skull
- The vertebral column
- The thoracic cage

Appendicular Skeleton parts [SSWL= 2]

- Upper limbs
- Lower limbs
- pelvic girdle

Erythrocyte sedimentation rate (ESR) [SSWL= 2]

- Principle of ESR
- Tools and device use for ESR

	• The procedure Anatomical structure of muscles [SSWL= 2] • Skeletal of upper limbs • Skeletal of lower limbs • Skeletal of pelvic girdle Report lab [SSWL= 2] Blood pressure test (Bp) [SSWL= 2] • Principle of BP • Tools and device use for Bp • The procedure Gastrointestinal tract layers (GIT) [SSWL= 2] • GIT layers • GIT parts • Locations of GIT parts Blood sugar test [SSWL= 2] • Principle of blood sugar test • Device use for sugar test • The procedure Urinary tract, layers [SSWL= 2] • Urinary tract layers • Urinary tract parts • Locations of Urinary tract parts General urine analysis (GUA) [SSWL= 2] • Principle of GUA test • Device use for GUA • The procedure Total hrs. = ∑SSWL + (Mid Exam hrs. + Final Exam hrs.) =75+4=79

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• Interactive Lectures • Project-Based Learning • Case Studies • Group Discussions and Presentations.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ 15 أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5.27
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	96	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.40
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation

تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%			X						X								(								
	Report	1	5%													X								(				
	Lab Report	1	5%								X																:	
	Project	-	-																									
	Online Assig.	2	5%					X					X								(		X					
	Onsite Assig.	1	10%							X									X									
	Seminar	-	-																									
Summative	Mid. Exam	1H	10% (10)						X													X			(			X
	Final Exam	3H	50% (50)	Week 15															X	(	(	X	X	(	(	(	:	X
Total assessment			100%																									

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعى النظري

	Material Covered
Week 1	Basic scientific principles of anatomy and physiology
Week 2	Cells, cellular organelle, transport systems
Week 3	The blood
Week 4	Tissue
Week 5	The skeletal system (Axial skeleton)
Week 6	Appendicular skeleton
Week 7	The muscular system
Week 8	The Skeletal muscle
Week 9	The Circulatory system
Week 10	The cardiac system
Week 11	The digestive system
Week 12	Accessory organs of digestive system
Week 13	Digestive tract hormones
Week 14	The renal system
Week 15	Urine formation

Delivery Plan (Weekly Lab. Syllabus) المنهاج الأسبوعي للمختبر	
	Material Covered
Week 1	Terms used in anatomy and physiology
Week 2	RBC Abo system
Week 3	Complete Blood count (CBC)
Week 4	Surface anatomy
Week 5	Packed cells volume (PCV)
Week 6	Axial Skeleton parts
Week 7	Appendicular Skeleton parts
Week 8	Erythrocyte sedimentation rate (ESR)
Week 9	Anatomical structure of muscles
Week 10	Blood pressure test (Bp)
Week 11	Gastrointestinal tract layers (GIT)
Week 12	Blood sugar test
Week 13	Urinary tract, layers
Week 14	General urine analysis (GUA)
Week 15	Chemical test of urine

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	• Marieb, Elaine N. and Smith, Lori A. Human Anatomy & Physiology Laboratory Manual. 12th Edition. Pearson Education Limited, United Kingdom, 2023. • Widmaier, E. P., Raff, H., and Stang, K. T. Vander's Human Physiology: The Mechanisms of Human Body. 15th Edition, Mac Graw Hill Education, USA, 2019.	No
Recommended Texts	Chandrasekar, M. and Mishra, N. Practical Physiology Book. 2nd Edition, Jaypee Brothers Medical Publishers (P) Ltd, India, 2014.	No

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** – Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C – Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E – Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Biochemistry	Module Delivery				
Module Type	Basic	Method	h/week	Frequency		
Module Code	NUR111002	Theory	3	15		
ECTS Credits	6 ECTS	Lecture	-	-		
SWL (hr/sem)	150	Lab	2	15		
		Tutorial	-	-		
		Practical	-	-		
		Seminar	-	-		
Module Level	UG I	Semester of Delivery	1st Semester			
Administering Branch	Basic Sciences	College	NUR			
Module Leader	Prof. Abdul Amir Hassan Kudhum	e-mail	amir@alameed.edu.iq			
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.			
Module Tutor	assistant professor. Hussein Ali Al-Bahrani assistant lecture. Zainab Hashim Ali	e-mail	hamg.al1991@alameed.edu.iq za.al-mosawi@alameed.edu.iq			
Peer Reviewer Name	Prof. Abdul Amir Hassan Kudhum	e-mail	amir@alameed.edu.iq			
Scientific Committee Approval Date	November 2, 2025	Version Number	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	• To provide students with fundamental knowledge of the biochemical processes essential for life. • To explain the structure and function of biological molecules and their roles in human physiology. • To describe the major metabolic pathways and their regulation in the human body. • To relate biochemical principles to clinical and nutritional aspects of nursing care. • To understand the biochemical basis of common diseases and laboratory diagnostic tests. • To develop students' ability to interpret biochemical data relevant to patient health. • To enhance awareness of the role of enzymes, vitamins, and minerals in metabolism. • To integrate biochemical concepts with other nursing and medical sciences. • To encourage critical thinking and scientific reasoning in clinical situations. • To provide basic laboratory experience in biochemical analysis and interpretation.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Describe the chemical composition and structure of major biomolecules such as carbohydrates, lipids, proteins, and nucleic acids. • Explain the basic principles of enzymatic activity and factors affecting enzyme function. • Illustrate the main metabolic pathways and their role in energy production and regulation. • Discuss the biochemical roles of vitamins and minerals and their importance in maintaining health. • Interpret biochemical data related to common clinical conditions such as diabetes, liver disease, and renal disorders. • Apply biochemical knowledge to understand the physiological and pathological processes in nursing practice. • Demonstrate the ability to connect biochemical concepts with nutrition and patient care. • Perform and interpret basic biochemical laboratory tests safely and accurately. • Analyze the biochemical basis of hormonal regulation and acid-base balance in the human body.
Indicative Contents المحتويات الإرشادية	**Theory Lectures** **Lecture 1: Introduction to Biochemistry [SSWL = 3 hrs]** • **Definition and branches of biochemistry** • **Importance of biochemistry in nursing practice** • **Biological molecules overview (carbohydrates, lipids, proteins, enzymes, nucleic acids)**

Lecture 2: Chemistry of Carbohydrates [SSWL = 3 hrs]

- Structure and classification of carbohydrates
- Biological importance and functions of mono-, di-, and polysaccharides
- Chemical reactions and physiological significance

Lecture 3: Metabolism of Carbohydrates (Glycolysis & Gluconeogenesis) [SSWL = 3 hrs]

- Steps of glycolysis and gluconeogenesis
- Energy yield and regulation
- Clinical correlation with metabolic disorders

Lecture 4: Glycogenesis and Glycogenolysis [SSWL = 3 hrs]

- Pathways and regulation
- Hormonal control (insulin, glucagon, epinephrine)
- Disorders such as glycogen storage diseases and diabetes mellitus

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Lecture 5: Krebs Cycle and Energy Production [SSWL = 3 hrs]

- Steps and significance of Krebs cycle
- Role of coenzymes and electron transport chain
- Integration of carbohydrate, lipid, and protein metabolism

Lecture 6: Chemistry of Lipids [SSWL = 3 hrs]

- Classification and structure of lipids
- Biological roles of fatty acids, triglycerides, phospholipids, cholesterol
- Clinical aspects of lipid imbalance

Lecture 7: Digestion, Absorption, and Transport of Lipids [SSWL = 3 hrs]

- Digestive enzymes and bile salts
- Lipid absorption and transport (lipoproteins, chylomicrons)
- Lipid malabsorption and clinical significance

Lecture 8: Chemistry of Proteins [SSWL = 3 hrs]

- Amino acids, peptide bonds, and protein structure
- Classification and biological functions of proteins
- Denaturation and clinical relevance

Lecture 9: Enzymes: Structure and Function [SSWL = 3 hrs]

- Definition and chemical nature of enzymes
- Mechanism of enzyme action and active sites
- Factors influencing enzyme activity

Lecture 10: Enzyme Kinetics and Classification [SSWL = 3 hrs]

- IUB classification of enzymes
- Enzyme kinetics and Michaelis-Menten concept
- Enzyme inhibition and diagnostic uses

Lecture 11: Liver Enzymes and Liver Function Tests [SSWL = 3 hrs]

- Major liver enzymes (ALT, AST, ALP, GGT)
- Interpretation of enzyme levels in liver disease

- Clinical case discussions

Lecture 12: Kidney Function and Biochemical Assessment [SSWL = 3 hrs]

- Role of the kidney in homeostasis
- Mechanisms of filtration and reabsorption
- Biochemical markers (urea, creatinine, uric acid)

Lecture 13: General Examination of Urine [SSWL = 3 hrs]

- Physical, chemical, and microscopic urine examination
- Normal and abnormal findings
- Clinical importance in nursing diagnosis

Lecture 14: Acid-Base Balance and Blood Gases [SSWL = 3 hrs]

- Buffer systems in the body
- Respiratory and metabolic acidosis/alkalosis
- Interpretation of arterial blood gases (ABG)

Lecture 15: Clinical Biochemistry in Nursing Practice [SSWL = 2 hrs]

- Integration of biochemical knowledge in patient care
- Interpretation of lab results in nursing context
- Case-based learning and review.

<u>Lab Lecturers</u>

Lab 1: Introduction to Biochemistry [SSWL = 2 hrs]

- Identify laboratory safety rules and symbols.
- Learn correct use of laboratory glassware and equipment.
- Practice accurate measurement of liquids and solutions.
- Understand preparation of buffers and basic solutions.

Lab 2: Qualitative Tests for Carbohydrates [SSWL = 2 hrs]

- Perform chemical tests for detection of carbohydrates.
- Identify monosaccharides, disaccharides, and polysaccharides experimentally.
- Observe color reactions using Benedict's, Barfoed's, and Molisch tests.
- Record and interpret laboratory results accurately.

Lab 3: Glycolysis Experiment (Carbohydrate Metabolism) [SSWL = 2 hrs]

- Demonstrate glucose breakdown using enzyme-based reactions.
- Observe CO_2 evolution or color change as an indicator of glycolysis.
- Interpret experimental data on energy production from glucose.

Lab 4: Glycogenesis and Glycogenolysis Demonstration [SSWL = 2 hrs]

- Examine glycogen presence in tissue samples using iodine staining.
- Understand principles of glycogen synthesis and degradation.
- Relate laboratory findings to metabolic disorders (e.g., diabetes).

Lab 5: Krebs Cycle and Energy Measurement [SSWL = 2 hrs]

- Illustrate steps of the Krebs cycle using a model or chart.
- Demonstrate the use of coenzymes (NAD^+, FAD) in energy production.

- Calculate ATP yield and interpret biochemical significance.

Lab 6: Qualitative Tests for Lipids [SSWL = 2 hrs]

- Detect the presence of lipids using solubility and staining tests.
- Identify different types of lipids through chemical reactions.
- Understand the principles of lipid extraction and characterization.
- Relate laboratory findings to clinical lipid disorders.

Lab 7: Lipid Digestion and Absorption [SSWL = 2 hrs]

- Observe lipid emulsification using bile salt solutions.
- Demonstrate enzyme action of lipase on fats.
- Explain lipid transport mechanisms (micelles and lipoproteins).

Lab 8: Chemistry of Enzymes [SSWL = 2 hrs]

- Study enzyme structure and function using a model.
- Observe effect of temperature and pH on enzyme activity.
- Discuss enzyme specificity and active sites.

Lab 9: Enzyme Activity and Measurement [SSWL = 2 hrs]

- Measure enzyme activity using biochemical assays.
- Determine reaction rates and calculate enzyme units.
- Analyze the effect of inhibitors on enzyme reactions.

Lab 10: Liver Enzymes and Function Tests [SSWL = 2 hrs]

- Perform biochemical tests for liver enzymes (ALT, AST, ALP).
- Interpret the relationship between enzyme activity and liver function.
- Report findings in a professional laboratory format.

Lab 11: Renal Function Tests [SSWL = 2 hrs]

- Perform tests to estimate urea, creatinine, and uric acid.
- Correlate biochemical results with kidney function.
- Understand principles of sample handling and interpretation.

Lab 12: General Examination of Urine [SSWL = 2 hrs]

- Perform physical and chemical examination of urine.
- Identify abnormal constituents (glucose, protein, ketones).
- Record findings and correlate with clinical cases.

Lab 13: Acid-Base Balance and Blood Buffering [SSWL = 2 hrs]

- Demonstrate buffer action using acid and base titration.
- Measure pH using indicators and pH meter.
- Discuss clinical relevance of acidosis and alkalosis.

Lab 14: Blood Glucose and Lipid Profile Tests [SSWL = 2 hrs]

- Estimate blood glucose using glucose oxidase method.
- Determine total cholesterol and triglycerides.
- Interpret normal and abnormal values in clinical context.

	Lab 15: Clinical Biochemistry Case Interpretation [SSWL = 2 hrs] • **Analyze sample laboratory reports (liver, renal, lipid, glucose).** • **Correlate lab data with patient symptoms.** • **Practice interpretation and nursing documentation.** Total hrs = ∑SSWL + (Mid Exam hrs+ Final Exam hrs) = 75+4=79

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	• Using cooperative learning style. • Discussion sessions on different topics. • Clinical training. • Theoretical and practical lectures. • Modern means related to education. • Student researches and participation in scientific trips • Accreditation the exams Daily ,monthly and quarterly.

Student Workload (SWL)
الحمل الدراسي للطالب محسوب لـ 15 أسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5.27
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	71	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.73
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation
تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%		x								x						X									
	Report	1	10%								x									X	X							
	Lab Report	1	5%				x															X						
	Project	-	-																									
	Online Assig.	1	5%					x															X					
	Onsite Assig.	1	10%											x										X				
	Seminar	-	-																									
Summative	Mid. Exam	1H	10% (10)							x									X	X	X	X	X	X				
	Final Exam	3H	50% (50)	Week 15															X	X	X	X	X	X	X	X	X	X
Total assessment			100%																									

Delivery Plan (Weekly Syllabus) المنهاج الأسبوعي النظري	
	Material Covered
Week 1	**Introduction to Biochemistry**
Week 2	**Chemistry of Carbohydrates**
Week 3	**Metabolism of Carbohydrates (Glycolysis & Gluconeogenesis)**
Week 4	**Glycogenesis and Glycogenolysis**
Week 5	**Krebs Cycle and Energy Production**
Week 6	**Chemistry of Lipids**
Week 7	**Digestion, Absorption, and Transport of Lipids**
Week 8	**Chemistry of Proteins**
Week 9	**Enzymes: Structure and Function**
Week 10	**Enzyme Kinetics and Classification**
Week 11	**Liver Enzymes and Liver Function Tests**
Week 12	**Kidney Function and Biochemical Assessment**
Week 13	**General Examination of Urine**
Week 14	**Acid-Base Balance and Blood Gases**
Week 15	**Clinical Biochemistry in Nursing Practice**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الأسبوعي للمختبر	
	Material Covered
Week 1	**Introduction to Biochemistry Laboratory**
Week 2	**Qualitative Tests for Carbohydrates**
Week 3	**Glycolysis Experiment (Carbohydrate Metabolism)**
Week 4	**Glycogenesis and Glycogenolysis Demonstration**
Week 5	**Krebs Cycle and Energy Measurement**
Week 6	**Qualitative Tests for Lipids**
Week 7	**Lipid Digestion and Absorption**
Week 8	**Chemistry of Enzymes**
Week 9	**Enzyme Activity and Measurement**
Week 10	**Liver Enzymes and Function Tests**
Week 11	**Renal Function Tests**
Week 12	**General Examination of Urine**
Week 13	**Acid-Base Balance and Blood Buffering**
Week 14	**Blood Glucose and Lipid Profile Tests**

Week 15	Clinical Biochemistry Case Interpretation

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Abali EE, Cline SD, Franklin DS, Viselli S, Ferrier DR. Lippincott Illustrated Reviews: Biochemistry. 7th ed. Philadelphia: Wolters Kluwer; 2022.	No
Recommended Texts	• Chatterjea MN, Shinde R. Textbook of Medical Biochemistry. 8th ed. New Delhi: Jaypee Brothers Medical Publishers; 2018 • Kennelly PJ, Botham KM, McGuinness OP, Rodwell VW, Weil PA. Harper's Illustrated Biochemistry. 32nd ed. New York: McGraw-Hill Education; 2023. • Herbert Fromm and Mark Hargrove, Essentials of Biochemistry, 2012 • Vijay Kumar Kiran Dip Gill, Basic Concepts in Clinical Biochemistry: A Practical Guide,2018	No

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Fundamentals of Nursing I	**Module Delivery**				
Module Type	Core	**Method**	**h/week**	**Frequency**		
Module Code	NUR111003	**Theory**	4	15		
ECTS Credits	**11 ECTS**	**Lecture**	-	-		
SWL (hr/sem)	**275**	**Lab**	6	15		
		Tutorial	-	-		
		Practical	-	-		
		Seminar	1	15		
Module Level	UG I	**Semester of Delivery**	1st Semester			
Administering Branch	Fundamentals of Nursing	**College**	NUR			
Module Leader	Ali Falah Hasen	**e-mail**	Falahali048@gmail.com			
Module Leader's Acad. Title	Assistant Lecturer	**Module Leader's Qualification**	Msc.			
Module Tutor	Ali Falah Hasen	**e-mail**	Falahali048@gmail.com			
Peer Reviewer Name	Fatima Makee Mahmmod	**e-mail**	fatima.makki@uokerbala.edu.iq			
Scientific Committee Approval Date	November 2, 2025	**Version Number**	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	None
Co-requisites module	None	**Semester**	None

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	• Discuss concepts related to functional health patterns and their utilization in providing nursing care for client. • Realize the nursing process as a frame work for providing nursing care for a client with selected alterations in function health patterns. • Recognize the principle underlying all nursing intervention procedures related to providing care to client in adult nursing care. • Recognize the principles of infection prevention in clinical area. • Develop an awareness concerning the importance of health promotion for the adult nursing care. • Apply a systematic approach of analyzing the patients problems • Utilize systematic approach in assessing the client health status • Perform basic nursing skills related to various client conditions. • Provide a safe & therapeutic environment for client care. • Utilize principles of medical / surgical asepsis & universal precautions in client care. • Utilize principles of body mechanics in positioning, transferring & ambulating the client. • Prepare & administer medications safely. • Demonstrate the use of principles accurately in reporting & recording nursing action, intervention, and clients' response.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Define basic nursing concepts, health, illness, and the nursing process. • Explain the principles of infection control and the chain of infection. • Describe procedures for patient admission, transfer, and discharge. • Identify ethical and legal responsibilities of nurses in clinical practice. • Recognize the principles of safety and body mechanics in patient care. • Demonstrate proper techniques in maintaining personal hygiene and a clean environment for patients. • Perform accurate measurement and documentation of vital signs (temperature, pulse, respiration, and blood pressure). • Apply aseptic techniques and infection control measures in clinical and laboratory settings. • Utilize effective communication and documentation skills in all aspects of nursing care. • Implement the nursing process in providing holistic care to individuals. • Exhibit professionalism, responsibility, and ethical behavior in patient care. • Demonstrate empathy, respect, and cultural sensitivity when interacting with patients and the healthcare team.
Indicative Contents المحتويات الإرشادية	**Theory Lectures** Historical and contemporary nursing practice [SSWL= 4]. • Stages of nursing. • Definitions of Nursing. • Recipients of Nursing care and illness. • Role and function of the nurse. • Criteria Of nursing Profession Asepsis and infection control (I) [SSWL= 4] • Types of microorganisms causing infection • Types of infection • Chain of infection

Asepsis and infection control (II) [SSWL= 4]

- Body defense against infection
- Asepsis
- Infection control

Admission, transfer, referrals, education, Discharge of patient and documentation [SSWL= 4]

- Admission, transfer, referrals of patient
- Definition terms
- The admitting department
- Client transfer
- Client referral
- Education, Discharge plan of patient and documentation
- Discharge a client Principles and elements of effective documentation

Safety and activity Body mechanics [SSWL= 4]

- Maintaining good posture
- Protective devices
- Nursing implication
- Therapeutic exercise

Wound care and healing process [SSWL= 4]

- Understanding the anatomy and physiology of the integumentary system
- Understanding the types of wounds and dressing
- Wound Assessment Etiology and Classification
- Infection Control
- Wound Cleaning and Debridement:
- Dressing Selection and Application

Vital signs (I) [SSWL= 4]

- Understanding how to measure the Temperature
- Understanding how to measure the Pulse rate
- Normal Ranges
- Measurement Techniques
- Documentation

Vital signs (II) [SSWL= 4]

- Understanding how to measure the Respiration
- Understanding how to measure the SPO2 (oxygen saturation)
- Normal Ranges
- Measurement Techniques
- Documentation

Vital signs (III) [SSWL= 4]

- Understanding how to measure blood pressure
- Normal Ranges
- Measurement Techniques
- Documentation

Medication administration [SSWL= 4]

- Drug standard
- Legal asepsis of drug administration
- Effective and action of drug
- Routes of administration
- System of measurement

- Medication orders

Oral medication [SSWL= 4]

- Knowledge of Medications
- Dosage Calculation
- Patient Assessment
- Patient Education
- Documentation
- Safety protocols
- Emergency Response

Injection of medication (I) [SSWL= 4]

- Injection Types
- Anatomy knowledge
- Medication preparation
- Aseptic technique
- Injection site selection

Injection of medication (II) [SSWL= 4]

- Patient assessment
- Needle selection and insertion
- Patient education
- pain management
- Documentation

Fluid and electrolyte [SSWL= 4]

- Intravenous infusion
- Blood transfusion.

Hot and cold applications [SSWL= 4]

- The physiological effects of hot and cold applications on the body
- Identify appropriate clinical indications for hot and cold therapies
- Assess skin integrity, sensation, and the presence of any underlying conditions that may affect the response to temperature applications

Lab. Lectures

Asepsis and infection control (I) [SSWL= 6]

- Hand washing (Rotten Hand Washing by Swap and Water)
- Hand washing (Rotten Hand Washing by Alcohol)
- Hand washing (Surgical Hand Washing by Alcohol)

Asepsis and infection control (II) [SSWL= 6]

- Hand washing (Surgical Hand Washing by Swap and Water)
- Isolation techniques (personal protective equipment)

Body mechanics [SSWL= 6]

- Body movement (Range of motion)
- Body Posture

Vital signs (I) [SSWL= 6]

- Body temperature Assessment
- Pulse Assessment
- Documentation

Vital signs (II) [SSWL= 6]

- Blood Pressure Assessment
- Documentation

Vital signs (III) [SSWL= 6]

- Respiration Assessment
- SPO2 (Oxygen saturation Assessment)
- Oxygen Therapy and Airway Management
- Administering oxygen safely, suctioning, and maintaining airway patency

Wound Care [SSWL= 6]

- Dressing a wound
- Bandage and binder
- Wound suturing

Medication Administration (I) [SSWL= 6]

- Oral medication
- Rectal medication
- Local medication (eye, nose, ear drop, topical skin medication, inhalation)
- Documentation

Medication Administration (II) [SSWL= 6]

- Injection of medication (Intradermal injection (ID))
- Injection of medication (Subcutaneous injection (SC))
- Injection of medication (Intramuscular injection (IM))
- Documentation

Medication Administration (III) [SSWL= 6]

- Injection of medication (Intravenous injection (IV))
- Intravenous infusion
- Blood transfusion
- Documentation

Elementary canal care [SSWL= 6]

- Enema (Therapeutic and Diagnostic)
- Documentation

Urinary catheterization [SSWL= 6]

- Catheterization
- Infection control
- Care of Urinary catheterization

Gastrointestinal Care [SSWL= 6]

- Nasogastric intubation NG Tube (Gavage and Lavage)
- Infection control
- Care of Nasogastric intubation NG Tube

Operations Room Procedure [SSWL= 6]

- Handling sterile equipment
- Thoracentesis and surgical instrument
- Sterilization and Aseptic technique

Hot and cold applications [SSWL= 6]

- Care of hyperthermia
- Pain Care
- applications of Hot and cold compression

Total hrs. = ∑SSWL + (Mid Exam hrs. + Final Exam hrs.) =165+4=169

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم	
Strategies	• Interactive Lectures • Project-Based Learning • Case Studies • Field Trips • Group Discussions and Presentations.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	169	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	11.27
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	106	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	7.07
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	275		

Module Evaluation

تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%			X						X								(						(		
	Report	1	5%													X								(				
	Lab Report	1	5%								X																:	
	Project	-	-																									
	Online Assig.	2	5%					X						X							(		X					
	Onsite Assig.	2	15%						X				X						X									
	Seminar	1	5%				X																					
Summative	Mid. Exam	1H	10% (10)							X												X			(			X
	Final Exam	3H	50% (50)	Week 15															X	(	(	X	X	(	(	(	:	X
Total assessment			100%																									

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعى النظري	
	Material Covered
Week 1	History of Nursing
Week 2	Asepsis and infection control (I)
Week 3	Asepsis and infection control (II)
Week 4	Admission, transfer, referrals, discharge and documentation
Week 5	Vital signs (I)
Week 6	Vital signs (II)
Week 7	Vital signs (III)
Week 8	Safety and activity Body mechanics
Week 9	Wound care and healing process (I)
Week 10	Wound care and healing process (II)
Week 11	Medication administration (I)
Week 12	Medication administration (II)
Week 13	Medication administration (III)
Week 14	Fluid electrolyte and Acid- base balance (I)
Week 15	Fluid electrolyte and Acid- base balance (II)

Delivery Plan (Weekly Lab. Syllabus) المنهاج الأسبوعي للمختبر	
	Material Covered
Week 1	Asepsis and infection control (I)
Week 2	Asepsis and infection control (II)
Week 3	Asepsis and infection control (III)
Week 4	Vital signs (I)
Week 5	Vital signs (II)
Week 6	Vital signs (III)
Week 7	Patient positioning.
Week 8	Transfer patient from wheel chair to stretcher, bed, and vice versa.
Week 9	Wound Care and irrigation (I)
Week 10	Wound Care and Suturing (II)
Week 11	Medication Administration (I)
Week 12	Medication Administration (II)
Week 13	Medication Administration (III)
Week 14	Review1
Week 15	Review2

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	**Carol R. Taylor, Pamela Lynn, et al. Fundamentals of Nursing, 7th Ed, New York, Pearson Education, 2021.**	No
Recommended Texts	**Kozier B, Erb, G, Berman A, et al. Fundamentals of Nursing, 10th Ed, New York, Pearson Education, 2020.**	Yes

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Medical Terminology	**Module Delivery**				
Module Type	Core	**Method**	**h/week**	**Frequency**		
Module Code	NUR111004	**Theory**	2	15		
ECTS Credits	2 ECTS	**Lecture**	-	-		
SWL (hr/sem)	50	**Lab**	-	-		
		Tutorial	-	-		
		Practical	-	-		
		Seminar	-	-		
Module Level	UG I	**Semester of Delivery**	1st Semester			
Administering Branch	Fundamentals of Nursing	**College**	NUR			
Module Leader	Ali Falah Hassen	**e-mail**	falahali048@gmail.com			
Module Leader's Acad. Title	Assistant Lecturer	**Module Leader's Qualification**	Msc.			
Module Tutor	Mohammad Kais Abdul - Jaleel	**e-mail**	m.duable@alameed.edu.iq			
Peer Reviewer Name	Diaa Kareem Abd Ali	**e-mail**	Dr.Diaa@alameed.edu.iq			
Scientific Committee Approval Date	November 2, 2025	**Version Number**	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	None
Co-requisites module	None	**Semester**	None

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1. **Analyze and construct medical terms** by identifying and applying word roots, prefixes, and suffixes related to human anatomy, physiology, and pathology. 2. **Apply the standard rules** for forming plurals, combining word parts, and using abbreviations safely in a clinical context. 3. **Define and utilize essential anatomical terminology**, including directional terms, body planes, cavities, and regions to accurately describe the location of symptoms and procedures. 4. **Interpret and communicate common medical terms** related to major body systems (e.g., integumentary, musculoskeletal, cardiovascular, nervous). 5. **Decipher the meaning of diagnostic and surgical procedures** based on their word components for each body system. 6. **Differentiate between terms describing normal physiological states and common disease processes.** 7. **Accurately interpret and use medical terminology** found in standard laboratory reports, diagnostic imaging requests, and patient charts. 8. **Translate complex medical terms into simple, clear language** for effective communication with patients and their families. 9. **Apply medical terminology accurately** in simulated clinical scenarios and case studies to enhance critical thinking and practical application. 10. **Demonstrate the ability to access and use medical dictionaries** and online resources to clarify and understand unfamiliar terms.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	**By the end of this module, students will be able to:** By the end of this module, students will be able to: 1. Identify the basic components and structure of medical terms, including at least 50 common word roots, prefixes, and suffixes. 2. Apply rules for combining word parts, plural formation, and abbreviations accurately in written exercises and quizzes. 3. Recognize and use medical terminology related to all major body systems, demonstrating correct usage in at least 5 case-based scenarios. 4. Describe directional terms, body planes, cavities, and regions, and correctly apply them in labeling exercises. 5. Interpret medical terms related to health, disease, and diagnostic procedures in clinical case studies and laboratory reports. 6. Demonstrate correct spelling, pronunciation, and usage of medical terms in oral and written communication. 7. Analyze medical terms in the context of patient documentation and healthcare records. 8. Integrate terminology knowledge to communicate effectively with healthcare professionals. 9. Solve case-based exercises using appropriate medical terminology to describe conditions, procedures, and treatments. 10. Evaluate own understanding and application of medical terminology through formative assessments and practical exercises, achieving at least 80% accuracy by the end of the module.

Indicative Contents المحتويات الإرشادية	**Theory Lectures** **Lecture 1: Introduction to Medical Terminology, Word Roots, Prefixes, and Suffixes. [SSWL= 2 hrs]** Definition and importance of medical terminology in healthcare. Structure of medical terms: word roots, prefixes, and suffixes. Common word roots for major body systems. Formation of terms using prefixes and suffixes. **Lecture 2: Rules for Combining Words, Plural Formation, and Abbreviations. [SSWL=2 hrs]** Combining vowels and rules for joining word parts. Plural forms of medical terms. Common abbreviations and symbols used in healthcare documentation. Guidelines for correct spelling and pronunciation. **Lecture 3: Terms Related to the Human Body in Health and Disease. [SSWL=2 hrs]** Basic anatomical terms. Terminology for normal body function vs. pathological conditions. Common medical terms describing signs, symptoms, and diseases. **Lecture 4: Directional Terms, Planes, Body Cavities, and Regions.** [SSWL=2 hrs] Anatomical directional terms (anterior, posterior, medial, lateral, etc.). Body planes (sagittal, coronal, transverse) and sections. Body cavities (cranial, thoracic, abdominal, pelvic) and their contents. Regions of the body and quadrants used in clinical assessment. **Lecture 5: Medical Terms Related to the Integumentary System.** [SSWL=2 hrs] Terminology for skin, hair, nails, and glands. Common disorders and diseases of the integumentary system. Diagnostic and treatment terms. **Lecture 6: Medical Terms Related to the Musculoskeletal System.** [SSWL=2 hrs] Terminology for bones, joints, muscles, and connective tissues. Common conditions and diseases (fractures, arthritis, muscular disorders). Diagnostic procedures (imaging, lab tests) and therapeutic terms. **Lecture 7: Medical Terms Related to the Cardiovascular System. [SSWL= 2 hrs]** Heart, blood vessels, and blood-related terminology. Common cardiovascular diseases and diagnostic terms. Treatment-related terminology (medications, surgical procedures). **Lecture 8: Medical Terms Related to the Respiratory System.** [SSWL=2 hrs] Anatomy of respiratory structures (lungs, airways). Terminology for common respiratory diseases (asthma, pneumonia, COPD). Diagnostic tests (spirometry, imaging) and treatments. **Lecture 9: Medical Terms Related to the Digestive System.** [SSWL=2 hrs] Gastrointestinal anatomy and related terminology. Disorders of the digestive system (ulcers, hepatitis, GI infections). Procedures and diagnostic tests (endoscopy, imaging, lab tests). **Lecture 10: Medical Terms Related to the Urinary System.** [SSWL=2 hrs] Anatomy of kidneys, ureters, bladder, and urethra. Terminology for urinary disorders (UTI, kidney stones, renal failure). Diagnostic and treatment-related terms (dialysis, imaging, lab tests). **Lecture 11: Medical Terms Related to the Reproductive Systems.** [SSWL=2 hrs] Male and female reproductive anatomy. Terms for reproductive health, diseases, and disorders.

	Diagnostic procedures (ultrasound, lab tests) and treatments. **Lecture 12: Medical Terms Related to the Nervous System.** [SSWL=2 hrs] Brain, spinal cord, peripheral nerves terminology. Neurological diseases and disorders (stroke, epilepsy, neuropathies). Diagnostic procedures (EEG, MRI) and treatment terms. **Lecture 13: Medical Terms Related to the Endocrine and Lymphatic Systems.** [SSWL=2 hrs] Endocrine glands and hormone-related terminology. Lymphatic system structure and terminology. Disorders (diabetes, thyroid disorders, lymphadenopathy). Diagnostic tests and therapeutic procedures. **Lecture 14: Laboratory and Diagnostic Procedures Terminology.** [SSWL=2 hrs] Common laboratory tests (blood, urine, microbiology). Imaging terminology (X-ray, CT, MRI, ultrasound). Interpretation of laboratory results and abbreviations used. **Lecture 15: Revision and Case-Based Practice on Term Usage.** [SSWL=2 hrs] Integrative review of all systems and terminology. Case-based exercises to apply terminology in clinical scenarios. Group discussions and practical exercises to reinforce learning. Total hrs = ∑SSWL + (Mid Exam hrs+ Final Exam hrs) =30+3=33

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	1. Lectures – To introduce basic concepts, word roots, prefixes, suffixes, and system-based terminology. 2. Interactive discussions – To clarify complex terms, rules of word formation, and abbreviations. 3. Small group activities – Collaborative exercises to practice spelling, pronunciation, and term usage. 4. Self-directed learning – Encouraging students to use textbooks, online resources, and flashcards for independent practice. 5. Quizzes and formative assessments – To reinforce knowledge and identify areas needing improvement. 6. Presentations 7. Case studies.

Student Workload (SWL)
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2.20
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.13
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

Module Evaluation

تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%			X									X				X	X	X	X	X	X	X		X	
	Report	1	10%								X									X				X				
	Lab Report	-	-																									
	Project	1	10%											X					X	X	X		X					X
	Online Assig.	2	5%				X									X			X	X	X	X	X	X	X	X		
	Onsite Assig.	-	-																									
	Seminar	-	-																									
Summative	Mid. Exam	1H	10% (10)							X									X					X			X	
	Final Exam	2H	50% (50)	Week 15															X	X	X	X	X	X	X	X	X	X
Total assessment			100%																									

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Medical Terminology, word roots, prefixes, and suffixes
Week 2	Rules for combining words, plural formation, and abbreviations
Week 3	Terms related to the human body in health and disease
Week 4	Directional terms, planes, body cavities, and regions
Week 5	Medical terms related to the integumentary system
Week 6	Medical terms related to the musculoskeletal system
Week 7	Medical terms related to the cardiovascular system
Week 8	Medical terms related to the respiratory system
Week 9	Medical terms related to the digestive system
Week 10	Medical terms related to the urinary system
Week 11	Medical terms related to the reproductive systems
Week 12	Medical terms related to the nervous system
Week 13	Medical terms related to the endocrine and lymphatic systems
Week 14	Laboratory and diagnostic procedures terminology
Week 15	Revision and case-based practice on term usage

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Thea Liza Batan earned a Master of Science in... PENN FOSTER, INC. 2017. PAGE 10. MEDICAL TERMINOLOGY. Lesson 1 deals with the study of anesthesia or anesthetics	Yes
Recommended Texts	• Chabner, D. The Language of Medicine. 12th ed.). Elsevier, 2020.	No

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C – Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Principle First Aid	Module Delivery				
Module Type	Elective	Method	h/week	Frequency		
Module Code	NUR110007	Theory	2	15		
ECTS Credits	2 ECTS	Lecture	-	-		
SWL (hr/sem)	50	Lab	-	-		
		Tutorial	-	-		
		Practical	-	-		
		Seminar	-	-		
Module Level	UG I	Semester of Delivery	1st Semester			
Administering Branch	Fundamentals of Nursing	College	NUR			
Module Leader	Ali falah hasan	e-mail	Falahali048@gmail.com			
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Msc.			
Module Tutor	Ali falah hasan Ali Alaa hashem	e-mail	Falahali048@gmail.com			
Peer Reviewer Name	Assistant.prof. Dr.hassan Abdullah Athbi	e-mail	hasan.abdallh@uokerbala.edu.iq			
Scientific Committee Approval Date	November 2, 2025	Version Number	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives

أهداف المادة الدراسية

Upon successful completion of this module, the student will be able to:

- Apply the principles of primary assessment (DRSABCD or equivalent) to systematically and rapidly evaluate a casualty in any emergency situation, identifying immediate life-threats.
- Demonstrate proficiency in performing all steps of Basic Life Support (BLS), including high-quality chest compressions, rescue breaths, and the use of an Automated External Defibrillator (AED) for adult, pediatric, and infant victims.
- Differentiate between the pathophysiology, signs, and symptoms of major respiratory, circulatory, and neurological emergencies (e.g., anaphylaxis, myocardial infarction, stroke, status epilepticus) to formulate an initial nursing response.
- Execute appropriate first aid and emergency nursing interventions for the management of soft tissue injuries, burns, and musculoskeletal trauma, focusing on hemorrhage control, wound care, and immobilization techniques.
- Analyze the clinical presentation of a patient in shock (hypovolemic, septic, anaphylactic) to determine its likely etiology and initiate the correct sequence of priority nursing actions.
- Develop evidence-based management plans for cases of acute poisoning, drug overdose, and envenomation from bites and stings, including initial decontamination procedures and symptom management.
- Prioritize and administer first aid for specialized injuries to the eyes, teeth, nose, and ears, demonstrating an understanding of the potential for long-term complications.
- Synthesize patient history and mechanism of injury to suspect and appropriately manage suspected spinal and other critical fractures in a pre-hospital or emergency department setting.
- Compare and contrast the key algorithms and interventions used in Advanced Life Support (ALS), Pediatric Advanced Life Support (PALS), and Neonatal Advanced Life Support (NALS), recognizing the nurse's role within these specialized resuscitation teams.
- Integrate clinical judgment, ethical principles, and effective communication skills to safely manage multiple casualties and function collaboratively within an interprofessional emergency care team.

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	By the end of this course, the student will be able to: • By the mid-term exam, demonstrate correct primary assessment sequence (DRSABCD) on a simulated adult patient, identifying and responding to life-threatening airway and breathing problems with 100% accuracy in critical steps, as per the European Resuscitation Council (ERC) guidelines. • By the end of the practical skills module (Week 4), perform a complete cycle of high-quality, single-rescuer Basic Life Support (BLS) for an adult, including the use of an AED, achieving a minimum score of 90% on the BLS practical checklist, adhering to ERC standards. • Within the first 6 weeks, differentiate between the signs, symptoms, and initial nursing management of at least three distinct circulatory emergencies (e.g., anaphylactic shock, myocardial infarction, hypovolemic shock) by correctly analyzing and solving three out of four presented clinical case scenarios. • By the end of Week 8, formulate and execute a prioritized plan for a simulated multi-trauma casualty, which includes immediate hemorrhage control, spinal immobilization, and fracture stabilization, successfully completing all critical actions in a timed simulation. • During the final practical assessment (OSCE), correctly apply the appropriate first aid techniques for two different types of burns (thermal and chemical) and a major arterial wound, selecting the correct materials and procedures in accordance with evidence-based protocols. • By the conclusion of the poisoning and envenomation module (Week 9), develop an initial management plan for a case of acute drug overdose and a bee sting anaphylaxis, accurately listing the first five priority nursing interventions for each case in a written assignment. • In the final written examination, analyze a complex case study of a patient with a suspected stroke, accurately calculating the onset time, identifying the type of stroke (ischemic vs. hemorrhagic) based on symptoms, and justifying the first-line emergency nursing priorities. • Throughout the course clinical simulations, effectively utilize closed- loop communication to delegate tasks and report critical patient information to a simulated team leader during a pediatric respiratory arrest scenario, as measured by a standardized teamwork assessment tool. • By the end of Week 10, compare and contrast the key differences in BLS algorithms for adults, children, and infants by creating a comparative table that accurately outlines the variations in compression depth, hand placement, and compression-to-ventilation ratios. • In the final comprehensive exam, integrate knowledge from all course modules to manage a simulated environmental emergency (e.g., hypothermia or heat stroke) and a diabetic emergency, correctly identifying the condition and initiating all appropriate first aid and monitoring interventions within a 10-minute timeframe.

Indicative Contents المحتويات الإرشادية	**Theory Lectures** **Lecture One: First Aid and Emergency Nursing [SSWL= 2 hrs]** • Principles and Goals of First Aid. • The Role and Responsibilities of a First Aider. • Legal and Ethical Considerations in Emergency Care. • The Difference Between First Aid and Emergency Nursing. **Lecture Two: First Aid Kit and Techniques [SSWL=2 hrs]** • Essential Contents of a Basic First Aid Kit. • Proper Use of Bandages, Dressings, and Antiseptics. • Techniques for Moving and Transporting Injured Persons. • Infection Control and Personal Protective Equipment (PPE). **Lecture Three: Primary Assessment [SSWL=2 hrs]** • The DRABC / CAB Approach (Danger, Response, Airway, Breathing, Circulation). • Assessing Level of Consciousness (AVPU Scale). • Techniques for Opening and Maintaining an Airway. • Checking for Breathing and Signs of Circulation. **Lecture four: Lifesaving Priorities [SSWL=2 hrs]** • Basic Life Support (BLS): Chest Compressions and Rescue Breaths. • Advanced Life Support (ALS): Use of AED and Advanced Airway Management. • Pediatric Life Support (PALS): Modifications for Infants and Children. • Neonatal Advanced Life Support (NALS): Resuscitation Guidelines for Newborns. **Lecture five: Respiratory Emergencies [SSWL=2 hrs]** • Recognizing Signs of Respiratory Distress (Choking, Asthma, Anaphylaxis). • First Aid for Airway Obstruction (Heimlich Maneuver). • Management of Acute Asthma Attack and Hyperventilation. • Supplemental Oxygen Use and Positioning for Breathing Difficulties. **Lecture six: Circulatory Emergencies [SSWL=2 hrs]** • Recognizing Signs of a Heart Attack (Myocardial Infarction). • First Aid for Cardiac Arrest and Use of an AED. • Management of Stroke (FAST Assessment). • Control of Severe External and Internal Bleeding. **Lecture seven: Nervous System Emergencies [SSWL=2 hrs]** • Recognizing and Managing Seizures. • Assessment and First Aid for Head and Spinal Injuries. • Signs and Management of Stroke (Revisited in a Neurological Context). • Altered Mental Status: Fainting (Syncope) vs. Coma. **Lecture eight: Wounds, Burns, and Injuries [SSWL=2 hrs]** • Types of Wounds: Abrasions, Lacerations, Punctures, and Avulsions. • Principles of Wound Cleaning, Dressing, and Bandaging. • Classification and Management of Burns (1st, 2nd, 3rd Degree). • Prevention of Infection and Tetanus Prophylaxis. **Lecture nine: Eye, Dental, Nasal, and Ear Injuries [SSWL=2 hrs]** • First Aid for Foreign Objects in the Eye and Chemical Burns.

- Management of Knocked-Out (Avulsed) Tooth and Oral Injuries.
- Controlling Nosebleeds (Epistaxis) and Assessing for Skull Fracture.
- First Aid for Direct Trauma to the Ear and Foreign Objects in the Ear/Nose.

Lecture teen: Fractures [SSWL=2 hrs]

- Differentiating Between Open and Closed Fractures.
- Principles of Splinting: Immobilization Techniques.
- Recognizing and Managing Suspected Spinal Fractures.
- Complications of Fractures: Compartment Syndrome and Shock.

Lecture eleven: Musculoskeletal and Sports Injuries [SSWL=2 hrs]

- The RICE Protocol (Rest, Ice, Compression, Elevation) for Sprains and Strains.
- Recognizing and Managing Dislocations and Muscle Cramps.
- Common Sports Injuries: Ankle Sprain, Tennis Elbow, ACL Tear.
- Principles of Injury Prevention and Safe Return to Activity.

Lecture twelve: Shock [SSWL=2 hrs]

- Understanding the Pathophysiology of Shock.
- Recognizing the Different Types of Shock (Hypovolemic, Cardiogenic, Anaphylactic).
- Key Signs and Symptoms of Progressive Shock.
- First Aid Management and Positioning for Shock.

Lecture thirteen: Poisoning [SSWL=2 hrs]

- Routes of Poisoning: Ingestion, Inhalation, Injection, Absorption.
- First Aid for Ingested Poisons and the Role of Poison Control Centers.
- Managing Chemical Exposure to Skin and Eyes.
- Recognizing and Responding to Drug Overdose and Carbon Monoxide Poisoning.

Lecture fourteen: Bites and Stings [SSWL=2 hrs]

- First Aid for Snake Bites and Animal Bites (Rabies Prevention).
- Managing Insect Stings (Bees, Wasps) and Tick Bites.
- Recognizing and Treating Allergic Reactions to Bites/Stings (Anaphylaxis).
- Identifying and Responding to Marine Animal Stings (Jellyfish, Stingrays).

Lecture fifteen: Environmental Emergencies [SSWL=2 hrs]

- Recognition and First Aid for Heat-Related Illnesses (Heat Stroke, Heat Exhaustion).
- Management of Cold-Related Injuries (Hypothermia and Frostbite).
- First Response for Drowning and Electrical Shock Incidents.
- Essential Actions for Lightning Strike Victims.

Total hrs = 30 + (1 hrs+ 2 hrs) =30+3=33

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• **Structured & Consistent Framing:** o Use a consistent framework for every emergency (e.g., **Definition → Causes → Signs & Symptoms → First Aid Priorities**). This provides a clear mental model for students. • **Integrated Case Studies & Scenarios:** o Present real-world **Case Studies** and have students discuss their theoretical intervention steps in groups or as a class. o Constantly ask: **"What is the immediate life-threat?"** and **"What is your priority action?"** • **Strong Visual Reinforcement:** o Use **realistic images** (of wounds, burns, rashes) and **clear diagrams** (of the respiratory system, circulatory system). o Incorporate **short videos** demonstrating a technique or showing a clinical presentation (e.g., a seizure, an asthma attack). • **Interactive Feedback:** o Use **quick polls or quizzes** (e.g., via Kahoot or Mentimeter) to check understanding of key concepts immediately after explaining them. o Facilitate **group discussions** to solve scenarios, guiding students to the correct answer rather than giving it outright. • **Focus on "The Why":** o Always explain the *reasoning* behind an action. Emphasize the consequences of *not* performing a step correctly (e.g., "Why do we use the recovery position? What happens if we don't?").

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2.20
Unstructured SWL (h/sem) الحمل االدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.13
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation

تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%					X						X						(	(		X	(		(		X
	Report	1	10%														X		X	(	(	X		(	(	(	(	
	Lab Report	-	-																									
	Project	1	10%										X						X	(	(		X	(	(	(		X
	Online Assig.	2	5%				X											X	X	(		X	X	(		(	(	X
	Onsite Assig.	-	-																									
	Seminar	1	10%						X						X						(		X		(	(		
Summative	Mid. Exam	1H	10% (10)							X										(				(				X
	Final Exam	2H	50% (50)	Week 15															X	(	(	X	X	(	(	(	(	X
Total assessment			100%																									

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعى النظري

	Material Covered
Week 1	First aid and emergency nursing.
Week 2	First aid kit and techniques.
Week 3	Primary assessment.
Week 4	Lifesaving priorities {basic life support (BLS), advanced life support (ALS), pediatric life support (PALS), neonatal advanced life support (NALS)}.
Week 5	Respiratory emergencies.
Week 6	Circulatory emergencies.
Week 7	Nervous system emergencies.
Week 8	Wounds, burns and injuries
Week 9	Eye, dental, nasal, and ear injuries
Week 10	Fractures
Week 11	Musculoskeletal and sports injuries
Week 12	Shocks
Week 13	Poisoning
Week 14	Bites and stings
Week 15	Environmental Emergencies

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Indrani, T. K., & Lamniang, T. (2023). First Aid for Nurses (3rd ed.). Jaypee Brothers Medical Publishers.	Yes
Recommended Texts	Perdita, A. H. M. (2017). A textbook of first aid (1st ed.). Vikas Publishing House. ISBN 9789382711254	No

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C – Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Human Rights and Democracy	Module Delivery				
Module Type	Support	Method	h/week	Frequency		
Module Code	UOA103	Theory	2	15		
ECTS Credits	2 ECTS	Lecture	-	-		
SWL (hr/sem)	50	Lab	-	-		
		Tutorial	-	-		
		Practical	-	-		
		Seminar	-	-		
Module Level	UG I	Semester of Delivery	1st Semester			
Administering Branch	Basic Sciences	College	NUR			
Module Leader	Ahmed yaqoob ibrahim	e-mail	ahmedyaa@alameed.edu.iq			
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.			
Module Tutor	Ahmed yaqoob ibrahim	e-mail	ahmedyaa@alameed.edu.iq			
Peer Reviewer Name	Ahmed yaqoob ibrahim	e-mail	ahmedyaa@alameed.edu.iq			
Scientific Committee Approval Date	November 2, 2025	Version Number	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1. فهم المبادئ الأساسية لحقوق الإنسان والديمقراطية وأهميتها في بناء المجتمعات. 2. تحديد الاتفاقيات الدولية والإقليمية التي تنظم حقوق الإنسان وتحميها. 3. تعزيز الوعي بالحقوق والواجبات الفردية والجماعية في المجتمع. 4. تنمية ثقافة التسامح، والمساواة واحترام التنوع والاختلاف. 5. تعميق فهم مفاهيم المشاركة السياسية والحكم الرشيد. 6. تشجيع الممارسات الديمقراطية في الحياة اليومية والمجتمعية.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. معرفة مراحل تطور حقوق الإنسان في تاريخ البشرية . 2. التعريف بالمجتمع الدولي وحقوق الإنسان المعاصر . 3. بيان واجبات الإنسان والقيود الواردة على ممارسة حقوق الإنسان . 4. التعريف بآليات الامم المتحدة لحماية حقوق الأنسان . 5. معرفة المنظمات والهيئات الدولية المعنية بالدفاع عن حقوق الإنسان . معرفة الديمقراطية 6. المعاصرة ومفاهيمها . 7. بيان العلاقة بين حقوق الإنسان و الديمقراطية . 8. معرفة ضمانات الحرية والحقوق العامة.
Indicative Contents المحتويات الإرشادية	المحاضرات النظرية **الاسبوع الأول :- تعريف حقوق الأنسان وأهميتها [2 ساعة]** • تعريف حقوق الإنسان وخصائصها وأهميتها • أنواع حقوق الإنسان (الحقوق السياسية الجيل الأول و الحقوق الاجتماعية و الاقتصادية الجيل الثاني و الحقوق البيئية و التنموية . **الاسبوع الثاني: انواع حقوق الإنسان [2 ساعة]** • انواع حقوق الأنسان في الشريعة الأسلامية • انواع حقوق الأنسان في دستور جمهورية العراقية لعام 2005م **الاسبوع الثالث: الآليات الوطنية و الإجرائية لحقوق الإنسان[2 ساعة]** • الآليات الوطنية العامة لحقوق الإنسان (احترام السلطات العامة للحقوق و الحريات ، الفصل بين السلطات العامة ، استقلال القضاء و مبدأ المواطنة) • الآليات الوطنية الخاصة بحقوق الإنسان(المؤسسات الرقابية، المؤسسات التوعوية) **الاسبوع الرابع: تعريف الشرعية الدولية لحقوق الإنسان وعناصرها [2 ساعة]** • تعريف الشرعية الدولية لحقوق الإنسان • مواثيق الشرعية الدولية لحقوق الإنسان(الإعلان العالمي لحقوق الإنسان و العهدان الدوليان للحقوق لعام 1966) • إطار الشرعية الدولية لحقوق الإنسان **الاسبوع الخامس: حقوق الفئات الخاصة (الحقوق الفئوية) [2 ساعة]** • حقوق المرأة و الطفل و الشباب • حقوق ذوي الإعاقة و الأقليات • الآليات و الإجراءات الوطنية لتطبيق الحقوق الخاصة **الاسبوع السادس:مكافحة الانتهاكات الجسيمة لحقوق الإنسان [2 ساعة]** • اتفاقية مناهضة التعذيب وغيرها • الاتفاقية الدولية لحماية جميع الاشخاص من الاختفاء القسري لعام 2006

الاسبوع السابع: العلاقة بين قانون الدولي الإنساني و قانون حقوق الإنسان [2 ساعة]

- مبادئ قانون الدولي الإنساني
- العلاقة بين القانون الدولي الإنساني وقانون الدولي لحقوق الإنسان
- الآليات الوطنية و الأجرائية لتطبيق قانون الدولي الإنساني وقانون حقوق الإنسان

الاسبوع الثامن:الانتهاكات الجسيمة لحقوق الإنسان في العراق [2 ساعة]

- الانتهاكات الجسيمة لحقوق الإنسان في الفترة السابقة لعام 2003
- تطبيقات الانتهاكات الجسيمة لحقوق الإنسان في العراق بعد عام 2003

الاسبوع التاسع: مجلس حقوق الإنسان ومهامه و آلياته [2 ساعة]

- تعريف مجلس حقوق الإنسان ومهامه
- آليات عمل المجلس
- آليات الاستعراض الدوري الشامل في مجلس حقوق الإنسان .

الاسبوع العاشر:آليات الحماية الدولية لحماية حقوق الإنسان[2 ساعة]

- الآليات الدولية لحماية حقوق الإنسان (دور الامم المتحدة في حماية حقوق الإنسان، المحكمة الجنائية الدولية)
- الآليات الإقليمية لحماية حقوق الإنسان(الاتفاقية الاوربية ، الاتفاقية الأمريكية ، الميثاق العربي).
- الآليات الوطنية و الأجرائية لحماية حقوق الإنسان .

الاسبوع الحادي عشر: التحديات التي تواجة حقوق الإنسان [2 ساعة]

- التحديات القانونية و السياسية
- قضايا حقوق الإنسان المعاصرة.

الاسبوع الثاني عشر: التعريف بالديمقراطية وتطورها وأنماطها [2 ساعة]

- تعريف الديمقراطية .
- الجذور التاريخية للديمقراطية .
- تطور الديمقراطية في العصور الحديثة
- الديمقراطية في القرن العشرين .
- انماط الديمقراطية (من حيث العلاقة مع النظام السياسي، من حيث العلاقة مع الشعب).

الاسبوع الثالث عشر: مبادئ الحكم الديمقراطي و الأحزاب السياسية[2 ساعة]

- اهمية فصل السلطات في الديمقراطية .
- آليات ضبط و التوازن .
- الانتخابات كآلية للديمقراطية .
- الاحزاب السياسية (مفهوم الحزب السياسي و أنواعها - الكادري، الجماهيري، حزب كل شي- والنظم الحزبية).

الاسبوع الرابع عشر: الأنظمة الديمقراطية المقارنة [2 ساعة]

- النظام الرئاسي.
- النظام البرلماني.
- النظام الشبه الرئاسي.

الاسبوع الخامس عشر: الديمقراطية الرقمية والتجربة الديمقراطية في العراق بعد عام 2003 [2 ساعة]

- مفهوم الديمقراطية الرقمية .
- مزايا الديمقراطية الرقمية.
- التجربة الديمقراطية في العراق .

Total hrs = ∑SSWL + (Mid Exam hrs+ Final Exam hrs) =30+3=33

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	1- استراتيجيات قائمة على الحوار والنقاش مثل العصف الذهني، المناظرة والمناقشة الموجهة. 2- استراتيجيات قائمة على التعلم التعاوني مثل التعلم القائم على المشروع، التعلم بالخدمة المجتمعية والتعلم الجماعي. 3- استراتيجيات قائمة على المواقف والمحاكاة مثل تمثيل الأدوار، دراسة الحالة والمحاكاة. 4- استراتيجيات قائمة على التفكير النقدي مثل حل المشكلات والتفكير الناقد والتحليل. 5- استراتيجيات توظيف التكنولوجيا مثل استخدام العروض التفاعلية والفيديوهات التعليمية.

Student Workload (SWL)
الحمل الدراسي للطالب محسوب لـ 15 أسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2.20
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.13
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation
تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due														Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%					x								x			x		:							
	Report	1	10%										x						x				x					
	Lab Report	-	-																									
	Project	1	10%							x												x		:				
	Online Assig.	2	5%				x				x									:								
	Onsite Assig.	-	-																									
	Seminar	-	-																									
Summative	Mid. Exam	1H	10% (10)						x										x		:				:			
	Final Exam	2H	50% (50)	Week 15															X	:	:	x	x	:				
Total assessment			100%																									

x

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	تعريف حقوق الأنسان وأهميتها
Week 2	انواع حقوق الإنسان
Week 3	الآليات الوطنية و الإجرائية لحقوق الإنسان
Week 4	تعريف الشرعية الدولية لحقوق الإنسان وعناصرها
Week 5	حقوق الفئات الخاصة (الحقوق القوية)
Week 6	مكافحة الانتهاكات الجسيمة لحقوق الإنسان
Week 7	العلاقة بين قانون الدولي الإنساني و قانون حقوق الإنسان
Week 8	الانتهاكات الجسيمة لحقوق الإنسان في العراق
Week 9	مجلس حقوق الإنسان ومهامه و آلياته
Week 10	آليات الحماية الدولية لحماية حقوق الإنسان
Week 11	التحديات التي تواجة حقوق الإنسان
Week 12	التعريف بالديمقراطية وتطورها وانماطها
Week 13	مبادئ الحكم الديمقراطي و الأحزاب السياسية
Week 14	الأنظمة الديمقراطية المقارنة
Week 15	الديمقراطية الرقمية والتجربة الديمقراطية في العراق بعد عام ٢٠٠٣

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	د. مهند ضياء الخزرجي، د. مصدق عادل، حقوق الإنسان وحرياته، مكتبة السنهوري،	No
Recommended Texts	2019 د. علي فرج الطاهري ، الديمقراطية شبة مباشرة وتطبيق مظاهرها في بعض الدول الديمقراطيات المعاصرة, منشورات الحلبي الحقوقية, بيروت، ٢٠١٠ د. حميد حنون الساعدي، حقوق الإنسان، الطبعة الاولى، مكتبة السنهوري، بغداد، ٢٠١٣	No

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Anatomy and Physiology for Nurses II	Module Delivery				
Module Type	Basic	Method	h/week	Frequency		
Module Code	NUR111109	Theory	3	15		
ECTS Credits	8 ECTS	Lecture	-	-		
SWL (hr/sem)	200	Lab	2	15		
		Tutorial	-	-		
		Practical	-	-		
		Seminar	-	-		
Module Level	UG I	Semester of Delivery	2nd Semester			
Administering Branch	Basic Sciences	College	NUR			
Module Leader	Dr. Hussein Allawi Hussein Al-Ghanimi	e-mail	hughanimi@alameed.edu.iq			
Module Leader's Acad. Title	Assistant Professor	Module Leader's Qualification	Ph.D.			
Module Tutor	Dr. Hussein Allawi Hussein Al-Ghanimi M.Sc. Zainab Hashim Ali M. Sc. Asmaa Faisal Rudhan	e-mail	hughanimi@alameed.edu.iq za.al-mosawi@alameed.edu.iq			
Peer Reviewer Name	Prof. Dr. Basim MH Zwain	e-mail	basimzwain@alameed.edu.iq			
Scientific Committee Approval Date	Click or tap to enter a date.	Version Number	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Anatomy and Physiology for Nurses I	Semester	UG I, 1st Semester
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. To elucidate the physiological responses of the human body to alterations in the internal and external environment.. 2. To incorporate knowledge of anatomy and physiology into nursing and clinical procedures. 3. To improve critical thinking and problem-solving abilities by establishing a connection between the structure and function of health and illness. 4. To understand the significance of homeostasis and how it is regulated in various organ systems. 5. Demonstrate an understanding of cellular and tissue organization as the structural and functional foundation of the body. 6. To identify the functional integration between organ systems in maintaining vital life processes. 7. To utilize accurate scientific terminology related to anatomy and physiology in both written and oral communication. 8. Promote appreciation of the human body's complexity, adaptability, and harmony through theoretical and practical learning experiences.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Apply theoretical knowledge to solve clinical case studies related to human physiology. 2. Evaluate the interactions between the cardiovascular, respiratory, and nervous systems in maintaining body functions. 3. Recognize the ethical and safety requirements in laboratory and clinical practice. 4. Utilize correct anatomical and physiological terminology in oral and written communication. 5. Demonstrate awareness of the human body's adaptability under normal and pathological conditions. 6. Solve clinical case studies about human physiology by applying theoretical information. 7. Examine how the respiratory, neurological, and cardiovascular systems interact to sustain bodily functioning. 8. Understand the safety and ethical standards for clinical and laboratory work. 9. When communicating verbally and in writing, use appropriate anatomical and physiological vocabulary. 10. Describe the morphology, function, and appearance of several types of white blood cells (leukocytes) under a microscope.
Indicative Contents المحتويات الإرشادية	<u>Theory Lectures</u> The respiratory system [SSWL= 3 hrs.] • Organization of the respiratory system • The upper respiratory tract • The lower respiratory tract • Internal and External respiration The mechanics of breathing [SSWL= 3 hrs.] • Respiration • Pulmonary ventilation • Gaseous exchange • Acid–base balance

The male reproductive systems [SSWL= 3 hrs.]

- The testes
- Spermatogenesis
- The scrotum

The Female reproductive system [SSWL= 3 hrs.]

- The primary genitalia
- The internal organs
- The external genitalia

Secondary sexual organs [SSWL= 3 hrs.]

- Growth of facial and body hair
- Increased muscle mass and heavier bones
- The breasts development

The nervous system [SSWL= 3 hrs.]

- Organization of the nervous system
- Sensory division of the peripheral nervous system
- Central nervous system
- Somatic nervous system

Autonomic nervous system [SSWL= 3 hrs.]

- Neurons
- Sensory (afferent) nerves
- Motor (efferent) nerves
- The action potential

The meninges [SSWL= 3 hrs.]

- Cerebrospinal fluid
- The brain
- Cerebrum
- The spinal cord

The endocrine system [SSWL= 3 hrs.]

- The endocrine organs
- Hormones
- The transportation of hormones
- Control of hormone release

The physiology of the endocrine organs [SSWL= 3 hrs.]

- The hypothalamus and the pituitary gland
- The thyroid gland and parathyroid glands
- The adrenal gland
- Pancreas

The immune system [SSWL= 3 hrs.]

- Organs of the immune system
- The thymus
- The lymphatic system
- Lymph nodes
- Lymphoid tissue

Types of immunity [SSWL= 3 hrs.]

- The innate immune system
- Blood cells of the immune system
- The acquired immune system
- Humoral immunity (B-cell)

The senses [SSWL= 3 hrs.]

- The chemical senses
- The sense of smell (olfaction)
- The sense of taste
- The tongue

The sense of sight [SSWL= 3 hrs.]

- Lacrimal apparatus
- The eye
- The processing of visual information

The senses of equilibrium and hearing [SSWL= 3 hrs.]

- The structure of the ear
- Equilibrium
- Hearing

Lab. Lectures

Respiratory organs tissue [SSWL= 2 hrs.]

- Respiratory organs layers
- Respiratory organs parts
- Locations of Respiratory parts

Male Reproductive parts [SSWL= 2 hrs.]

- tests tissue
- The scrotum tissue
- Locations of male reproductive parts

Female reproductive parts [SSWL= 2 hrs.]

- External layers
- Uterus and breast tissue
- Locations of female reproductive parts

Embryonic development and spermatogenesis [SSWL= 2 hrs.]

- Primordial germ cells
- Initiation of sperm production
- Spermatogonial phase

Platelets and bleeding time [SSWL= 2 hrs.]

- Platelets functions
- Bleeding time procedure
- Factors effecting of bleeding time

Prothrombin time and clotting time [SSWL= 2 hrs.]

- Factors effecting of Prothrombin time
- Factors effecting of clotting time
- Normal range

Microscopic anatomy of Nervous tissue [SSWL= 2 hrs.]

- Neuroglia
- Nerve cells parts
- Peripheral nerve tissue

Microscopic anatomy of brain [SSWL= 2 hrs.]

- Location of brain parts
- meninges layers
- cranial nerve tissue

Microscopic anatomy of glands [SSWL= 2 hrs.]

- Location of brain parts
- meninges layers

	• cranial nerve tissue Types of glands [SSWL= 2 hrs.] • Exocrine, endocrine and mixed • Holocrine gland • Apocrine and merocrine glands Microscopic anatomy of lymphatic tissue [SSWL= 2 hrs.] • Types of lymphatic cells • Structure of thymus gland • Structure of lymph node Blood film [SSWL= 2 hrs.] • Granulocytes types • Agranulocytes types • Functions of WBC Microscopic anatomy of sense organs [SSWL= 2 hrs.] • Microscopic anatomy of eye • Microscopic anatomy of ear • Microscopic anatomy of tongue Visual test [SSWL= 2 hrs.] • Pupillary Reflex • Visual Acuity Test • Stereoscopic & Visual Field Tests Vestibular and balance test [SSWL= 2 hrs.] • Romberg's Test • Barany's Chair Test • Tandem Walking Total hrs = ∑SSWL + (Mid Exam hrs+ Final Exam hrs) =75+4=79

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Interactive Lectures 2. Project-Based Learning 3. Case Studies 4. Group Discussions and Presentations.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5.27
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	121	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	8.07
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**200**		

Module Evaluation

تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%			X						X							X						X			
	Report	1	5%													X							X						
	Lab Report	1	5%								X													X					
	Project	-	-																										
	Online Assig.	2	5%					X					X								X							X	
	Onsite Assig.	1	10%							X																X			
	Seminar	-	-																										
Summative	Mid. Exam	1H	10% (10)						X													X							X
	Final Exam	3H	50% (50)	Week 15															X	X	X	X	X	X	X	X	X	X
Total assessment			100%																										

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	The respiratory system
Week 2	The mechanics of breathing
Week 3	The male reproductive systems
Week 4	The Female reproductive system
Week 5	Secondary sexual organs
Week 6	The nervous system
Week 7	Autonomic nervous system
Week 8	The meninges
Week 9	The endocrine system
Week 10	The physiology of the endocrine organs
Week 11	The immune system
Week 12	Types of immunity
Week 13	The senses
Week 14	The sense of sight
Week 15	The senses of equilibrium and hearing

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Respiratory organs tissue
Week 2	Male Reproductive parts
Week 3	Female reproductive parts
Week 4	Embryonic development and spermatogenesis
Week 5	Platelets and bleeding time
Week 6	Prothrombin time and clotting time
Week 7	Microscopic anatomy of Nervous tissue
Week 8	Microscopic anatomy of brain
Week 9	Microscopic anatomy of glands
Week 10	Types of glands
Week 11	Microscopic anatomy of lymphatic tissue
Week 12	Blood film
Week 13	Microscopic anatomy of sense organs
Week 14	Visual test
Week 15	Vestibular and balance test

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	• Marieb, Elaine N. and Smith, Lori A. Human Anatomy & Physiology Laboratory Manual. 12th Edition. Pearson Education Limited, United Kingdom, 2023. • Widmaier, E. P., Raff, H., and Stang, K. T. Vander's Human Physiology: The Mechanisms of Human Body. 15th Edition, Mac Graw Hill Education, USA, 2019.	No
Recommended Texts	Chandrasekar, M. and Mishra, N. Practical Physiology Book. 2nd Edition, Jaypee Brothers Medical Publishers (P) Ltd, India, 2014.	No

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Code of Ethics		Module Delivery			
Module Type	Support		Method	h/week	Frequency	
Module Code	NUR111010		Theory	2	15	
ECTS Credits	2 ECTS		Lecture	-	-	
SWL (hr/sem)	50		Lab	-	-	
			Tutorial	-	-	
			Practical	-	-	
			Seminar	-	-	
Module Level	UG I	Semester of Delivery	2nd Semester			
Administering Branch	Fundamentals of Nursing	College	NUR			
Module Leader	Ali Falah Hassen	e-mail	falahali048@gmail.com			
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Msc.			
Module Tutor	Abbas Fadhil Mousa	e-mail	ab.hussainy@alameed.edu.iq			
Peer Reviewer Name	Safi Dakhil Noam	e-mail	Safi. dakhil@uokerbala.edu.iq			
Scientific Committee Approval Date	November 2, 2025	Version Number	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	• Define the fundamental concepts of ethics, morals, and values and explain their relevance to professional nursing practice. • Describe the historical evolution of nursing ethics and analyze how past developments shaped contemporary ethical standards. • Compare and contrast major ethical theories (deontology, utilitarianism, virtue ethics, care ethics) and apply them to clinical decision-making. • Interpret and utilize professional codes of ethics (ICN, ANA, and national codes) to guide ethical nursing behavior. • Demonstrate the ability to apply ethical decision-making models when facing complex clinical dilemmas. • Evaluate ethical issues related to patient autonomy, informed consent, and confidentiality within diverse healthcare contexts. • Assess situations involving beneficence, non-maleficence, and justice, ensuring equitable and safe nursing care. • Integrate cultural, religious, and legal considerations into ethical decision-making to provide holistic and culturally competent care. • Collaborate effectively with healthcare teams and ethics committees to resolve ethical conflicts and promote patient advocacy. • Exhibit professional integrity, accountability, and commitment to lifelong ethical practice, considering emerging global challenges such as technology and AI in healthcare.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Identify key ethical concepts and terminology in nursing with 90% accuracy by the end of the course. • Describe the historical development of nursing ethics and its impact on modern practice in a written assignment. • Apply at least two major ethical theories to analyze clinical nursing scenarios during case study discussions. • Interpret professional codes of ethics (ICN, ANA) and explain their relevance in daily nursing practice. • Demonstrate effective use of ethical decision-making models to resolve clinical dilemmas in simulated exercises. • Explain the principles of patient autonomy and informed consent and assess their application in clinical settings. • Evaluate ethical issues involving confidentiality and professional boundaries through group presentations. • Analyze situations requiring beneficence, non-maleficence, and justice, proposing ethically sound nursing actions. • Integrate cultural and religious considerations into ethical nursing care plans with cultural sensitivity. • Exhibit professional accountability and ethical responsibility by reflecting on personal nursing practice in a reflective journal.
Indicative Contents المحتويات الإرشادية	**<u>Theory Lectures</u>** **Lecture One: Introduction to Nursing Ethics [SSWL= 2 hrs]** • Definition and importance of ethics in nursing

- Differences between ethics, morals, and values

Lecture Two: Historical Development of Nursing Ethics [SSWL=2 hrs]

- Evolution of nursing as a moral practice
- Florence Nightingale's influence on nursing ethics

Lecture Three: Ethical Theories and Moral Philosophy [SSWL=2 hrs]

- Deontology and Utilitarianism in nursing decisions
- Principles of virtue and care ethics

Lecture four: Professional Codes of Ethics (ICN, ANA, National) [SSWL=2 hrs]

- Structure and purpose of the ICN Code of Ethics
- Comparison between ICN and ANA ethical codes

Lecture five: Ethical Decision-Making Models [SSWL=2 hrs]

- Steps of ethical decision-making process
- Application of models to clinical situations

Lecture six: Patient Autonomy and Informed Consent [SSWL=2 hrs]

- Rights of patients to make decisions
- Components and limitations of informed consent

Lecture seven: Confidentiality and Professional Boundaries [SSWL=2 hrs]

- Maintaining patient confidentiality and privacy
- Managing professional and personal boundaries

Lecture eight: Beneficence and Non-maleficence in Nursing Practice [SSWL=2 hrs]

- Promoting good and preventing harm
- Ethical management of medical errors

Lecture nine: Justice and Ethical Resource Allocation [SSWL=2 hrs]

- Fair distribution of healthcare resources
- Ethical dilemmas in triage and prioritization

Lecture teen: End-of-Life Care and Palliative Ethics [SSWL=2 hrs]

- Ethical issues in withdrawal of life support
- Respecting patient dignity in terminal care

Lecture eleven: Cultural and Religious Aspects in Ethical Decision-Making [SSWL=2 hrs]

- Cultural values affecting ethical choices
- Respect for religious diversity in nursing practice

Lecture twelve: Ethical Issues in Specialized Areas (ICU, Pediatrics, Mental Health) [SSWL=2 hrs]

- Ethical challenges in critical and intensive care
- Protecting vulnerable patients (children, psychiatric clients)

	Lecture thirteen: Legal and Professional Accountability in Nursing [SSWL=2 hrs] • Legal responsibilities and nursing malpractice • Documentation and reporting obligations **Lecture fourteen: Role of Ethics Committees and Institutional Policies [SSWL=2 hrs]** • Functions of hospital ethics committees • Developing and applying ethical policies in institutions **Lecture fifteen: Professionalism, Self-Care, and Emerging Ethical Challenges [SSWL=2 hrs]** • Maintaining professionalism and ethical conduct • Ethical implications of technology and artificial intelligence in nursing Total hrs = 30 + (1 hrs+ 2 hrs) =30+3=33

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Interactive Lectures • Used to introduce ethical concepts, theories, and professional codes through guided discussion and questioning. 2. Case-Based Learning (CBL) • Students analyze real or simulated ethical dilemmas to apply theoretical knowledge in practical situations. 3. Group Discussion and Debate • Encourages critical thinking and multiple viewpoints on controversial ethical issues in nursing practice. 4. Role Play and Simulation • Students act out clinical scenarios involving informed consent, confidentiality, or end-of-life care to enhance ethical decision-making skills. 5. Problem-Based Learning (PBL) • Small groups identify ethical problems in nursing cases and develop reasoned, evidence-based solutions. 6. Reflective Journals • Learners record personal reflections on ethical experiences during clinical practice to foster self-awareness and professional growth. 7. Seminars and Student Presentations • Students prepare and present selected ethical topics, improving communication and analytical skills. 8. Use of Audio-Visual Materials • Videos, documentaries, or short films illustrating real ethical conflicts to enhance understanding and empathy. 9. Guest Lectures / Expert Panels • Inviting experienced nurses, ethicists, or legal professionals to discuss real-world ethical challenges. 10. Online and Independent Learning

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ 15 أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2.20
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	42	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.80
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation
تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due														Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	4	5%					X			X			X			X		X	(			X		(	(	:	X
	Report	1	10%												X				X	(	(	X		(	(	(	:	X
	Lab Report	-	-																									
	Project	1	5%									X							X	(		X	X	(	(			
	Online Assig.	2	5%						X							X			X	(		X	X	(	(	(		
	Onsite Assig.	-	-																									
	Seminar	2	15%							X			X							(			X		(	(		
Summative	Mid. Exam	1H	10% (10)																X			X		(				
	Final Exam	2H	50% (50)	Week 15															X	(	(	X	X	(	(	(	:	X
Total assessment			100%																									

Delivery Plan (Weekly Syllabus)
المنهاج الأسبوعي النظري

	Material Covered
Week 1	Introduction to Nursing Ethics
Week 2	Historical Development of Nursing Ethics
Week 3	Ethical Theories and Moral Philosophy

Week 4	Professional Codes of Ethics (ICN, ANA, National)
Week 5	Ethical Decision-Making Models
Week 6	Patient Autonomy and Informed Consent
Week 7	Confidentiality and Professional Boundaries
Week 8	Beneficence and Non-maleficence in Nursing Practice
Week 9	Justice and Ethical Resource Allocation
Week 10	End-of-Life Care and Palliative Ethics
Week 11	Cultural and Religious Aspects in Ethical Decision-Making
Week 12	Ethical Issues in Specialized Areas (ICU, Pediatrics, Mental Health)
Week 13	Legal and Professional Accountability in Nursing
Week 14	Role of Ethics Committees and Institutional Policies
Week 15	Professionalism, Self-Care, and Emerging Ethical Challenges

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Butts, J. B., & Rich, K. L. (2022). Nursing Ethics: Across the Curriculum and Into Practice. Jones & Bartlett Learning.	Yes
Recommended Texts	Burkhardt, M. A., & Nathaniel, A. K. (2024). Ethics & issues in contemporary nursing (2nd ed.). Elsevier Health Sciences.	Yes

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Fundamentals of Nursing II	Module Delivery				
Module Type	Core	Method	h/week	Frequency		
Module Code	NUR111111	Theory	4	15		
ECTS Credits	12 ECTS	Lecture	-	-		
SWL (hr/sem)	300	Lab	-	-		
		Tutorial	-	-		
		Practical	12	15		
		Seminar	-	-		
Module Level	UG I	Semester of Delivery	2nd Semester			
Administering Branch	Fundamentals of Nursing	College	NUR			
Module Leader	Ali Falah Hasen	e-mail	Falahali048@gmail.com			
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Msc.			
Module Tutor	Ali Falah Hasen	e-mail	Falahali048@gmail.com			
Peer Reviewer Name	Fatima Makee Mahmmod	e-mail	fatima.makki@uokerbala.edu.iq			
Scientific Committee Approval Date	November 2, 2025	Version Number	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Fundamentals of Nursing I	Semester	UG I, 1st Semester
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	• Explain the physiological principles underlying human needs related to sleep, nutrition, elimination, oxygenation, and comfort. • Assess client conditions using systematic data collection and evidence-based assessment tools. • Identify factors affecting sleep, nutrition, fluid balance, elimination, and pain perception. • Demonstrate competency in basic nursing procedures related to patient nutrition, oxygen therapy, fluid balance, and elimination. • Implement nursing interventions to promote adequate rest, nutrition, comfort, and elimination. • Apply infection control and safety principles in all nursing procedures. • Evaluate client responses to nursing interventions and modify care plans accordingly. • Demonstrate effective communication and therapeutic interaction with patients experiencing physical or emotional distress. • Provide nursing care for clients during preoperative, intraoperative, and postoperative phases. • Deliver compassionate and holistic care to terminally ill patients and their families based on ethical and cultural principles.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Describe the physiology, functions, and stages of sleep and the sleep cycle. • Identify factors affecting sleep and rest in different age groups and health conditions. • Explain human nutritional needs and the principles of balanced diet and nutrition standards. And Identify factors influencing nutrition and problems interfering with food intake. • Demonstrate nursing management for clients with nutritional imbalances or feeding difficulties. • Explain the physiological mechanisms regulating body fluids, electrolytes, and acid–base balance. • Assess fluid volume status and recognize clinical manifestations of imbalance. • Implement appropriate nursing interventions to correct or prevent imbalances. • Demonstrate the safe administration of oxygen therapy using different delivery systems. • Explain the physiology and characteristics of normal urinary and bowel elimination. • Implement nursing interventions to assist clients with urinary and bowel elimination problems. • Explain the physiological process and theories of pain. Differentiate types and sources of pain. • Apply pharmacological and non-pharmacological measures for effective pain management. • Describe the types of surgery and the role of the nurse during each perioperative phase. • Provide comprehensive nursing care in the preoperative, intraoperative, and postoperative stages.
Indicative Contents المحتويات الإرشادية	**<u>Theory Lectures</u>** Patient's needs rest and sleep [SSWL= 4] • Physiology of Sleep

- Functions of sleep, sleep phases, sleep cycles
- Factors affecting sleep
- Sleep assessment
- Common sleep disorder.

Nutrition (I) [SSWL= 4]

- Human nutritional needs
- Nutritional standards
- Nutritional status assessment

Nutrition (II) [SSWL= 4]

- Factors affecting nutrition
- Management of problems interfering with nutrition
- Common hospital diet

Fluid and chemical balance (I) [SSWL= 4]

- Body fluid, electrolytes and acid-base balance
- Fluid volume assessment

Fluid and chemical balance (II) [SSWL= 4]

- Factors affecting body fluid, electrolytes and acid-base balance
- Common fluid imbalance

Oxygenation (I) [SSWL= 4]

- Overview of anatomical and physiological of breathing
- Assessing oxygenation

Oxygenation (II) [SSWL= 4]

- Oxygen therapy
- Alternation in respiratory function

Urinary system (I) [SSWL= 4]

- Urinary elimination

Overview of urinary elimination

- Characteristics of urine

Urinary system (II) [SSWL= 4]

- Abnormal urinary elimination patterns
- Assisting clients with urinary elimination

Bowel Elimination [SSWL= 4]

- Physiology of defecation
- Assessment of bowel elimination
- Common alterations in bowel
- Measures of promote bowel elimination
- Ostomy care

Pain management (I) [SSWL= 4]

- The process of pain
- Pain theories
- Types of pain

Pain management (II) [SSWL= 4]

- Pain assessment
- Pain management
- Documentation

Pre and post-operative nursing care (I) [SSWL= 4]

- Type of surgery

- Preoperative phases

Pre and post-operative nursing care (II) [SSWL= 4]

- Intraoperative phases and care
- Post-operative phases and care

Death and dying [SSWL= 4]

- Terminal illness and care
- Stage of dying
- Promoting acceptance
- Grieving

Clinical (Hospital) Training plan:

Sergey Ward – 2nd Floor (Female Ward) [SSWL= 12]

- Basic Nursing Care for Female Patients
- Orientation to hospital environment and ward policies.
- Review of infection control procedures.
- Assessment of personal hygiene, comfort, and rest needs.
- Documentation and communication with staff.

Sergey Ward – 2nd Floor (Male Ward) [SSWL= 12]

- Basic Nursing Care for Male Patients
- Apply body mechanics in patient movement.
- Assess and record vital signs.
- Promote rest and sleep hygiene.
- Observe patient privacy and dignity.

Sergey Ward – 3rd Floor (Female Ward) [SSWL= 12]

- Nutrition and Elimination Nursing
- Assess patients' nutritional status.
- Assist with feeding and special diets.
- Observe urinary and bowel elimination patterns.
- Maintain intake/output charts.

Sergey Ward – 3rd Floor (Male Ward) [SSWL= 12]

- Fluid and Electrolyte Balance
- Observe IV fluid administration.
- Assess for signs of dehydration and edema.
- Monitor and record fluid balance.
- Assist in IV therapy preparation.

Medical Ward (Female) Respiratory and Oxygenation Care [SSWL= 12]

- Perform respiratory assessment (rate, rhythm, depth).
- Assist with oxygen therapy.
- Perform oral suctioning under supervision.
- Educate patients on breathing exercises.

Medical Ward (Male) [SSWL= 12]

- Pain and Comfort Management
- Assess pain using standard pain scales.
- Apply non-pharmacological pain relief techniques.

- Observe medication administration for pain relief.
- Provide comfort and positioning care.

Operation Theater – 2nd Floor [SSWL= 12]

- Preoperative Nursing Care
- Identify types of surgery and surgical instruments.
- Prepare patient physically and psychologically for surgery.
- Ensure informed consent and documentation.
- Maintain sterile environment.

Operation Theater – 3rd Floor [SSWL= 12]

- Intraoperative Nursing Care
- Assist scrub nurse under supervision.
- Apply principles of aseptic technique.
- Prepare surgical field and instruments.
- Observe anesthesia and patient positioning.

Surgical Emergency Ward [SSWL= 12]

- Postoperative Nursing Care
- Monitor vital signs and wound condition.
- Assist in pain management and early ambulation.
- Observe drain and catheter care.
- Prevent postoperative complications.

Medical Emergency Ward [SSWL= 12]

- Emergency and Critical Care Nursing
- Observe triage and emergency response system.
- Monitor airway, breathing, and circulation (ABCs).
- Assist in first aid and CPR demonstration.
- Document emergency interventions.

Sergey Ward – 2nd Floor (Female Ward) [SSWL= 12]

- Urinary Elimination Care
- Assess urinary output and characteristics.
- Perform catheter care and measure urine output.
- Educate patients about hydration and hygiene.

Sergey Ward – 3rd Floor (Male Ward) [SSWL= 12]

- Bowel Elimination and Ostomy Care
- Assess bowel patterns and manage constipation/diarrhea.
- Provide ostomy care under supervision.
- Record elimination patterns accurately.

Medical Ward (Female) Nutrition and Feeding Support [SSWL= 12]

- Manage enteral feeding (NG tube observation).
- Reinforce dietary modifications for chronic illness.
- Monitor fluid and nutrient intake.

Medical Ward (Male) Terminal and Palliative Care [SSWL= 12]

- Observe care of terminally ill patients.
- Provide emotional and psychological support.
- Communicate effectively with families during grief.

Surgical Emergency / Rotation Review [SSWL= 12]

- Comprehensive Skill Integration and Evaluation

	• Perform integrated patient care using nursing process. • Demonstrate proficiency in documentation. • Final practical assessment and feedback session. Total hrs. = ∑SSWL + (Mid Exam hrs. + Final Exam hrs.) =240+4=244

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• Clinical Demonstration and Return Demonstration • Supervised Clinical Practice • Case Study and Bedside Teaching • Observation and Role Modeling • Problem-Based and Scenario-Based Learning • Feedback and Continuous Evaluation • Group Discussions and Presentations.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ 15 أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	244	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	16.27
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	56	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.73
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	300		

Module Evaluation
تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%			X						X																X
	Report	1	10%											X														
	Lab Report	1	5%												X													
	Project	-	-																									
	Online Assig.	-	-																									
	Onsite Assig.	2	15%							X							X		X									
	Seminar	1	5%					X																				
Summative	Mid. Exam	1H	10% (10)								X											X						X

	Final Exam	3H	50% (50)	Week 15	x ‹ ‹ x x ‹ ‹ ‹ : x
Total assessment			100%		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Patient's needs rest and sleep
Week 2	Nutrition (I)
Week 3	Nutrition (II)
Week 4	Fluid and chemical balance (I)
Week 5	Fluid and chemical balance (II)
Week 6	Oxygenation (I)
Week 7	Oxygenation (II)
Week 8	Urinary system (I)
Week 9	Urinary system (II)
Week 10	Bowel Elimination
Week 11	Pain management (I)
Week 12	Pain management (II)
Week 13	Pre and post-operative nursing care (I)
Week 14	Pre and post-operative nursing care (I)
Week 15	Death and dying

Delivery Plan (Weekly Lab. Syllabus) المنهاج الأسبوعي للمختبر	
	Material Covered
Week 1	Sergey Ward – 2nd Floor (Female Ward)
Week 2	Sergey Ward – 2nd Floor (Male Ward)
Week 3	Sergey Ward – 3rd Floor (Female Ward)
Week 4	Sergey Ward – 3rd Floor (Male Ward)
Week 5	Medical Ward (Female) Respiratory and Oxygenation Care
Week 6	Medical Ward (Male)
Week 7	Operation Theater – 2nd Floor
Week 8	Operation Theater – 3rd Floor
Week 9	Surgical Emergency Ward
Week 10	Medical Emergency Ward
Week 11	Sergey Ward – 2nd Floor (Female Ward)
Week 12	Sergey Ward – 3rd Floor (Male Ward)
Week 13	Medical Ward (Female) Nutrition and Feeding Support
Week 14	Medical Ward (Male) Terminal and Palliative Care
Week 15	Surgical Emergency / Rotation Review

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	**Carol R. Taylor, Pamela Lynn, et al. Fundamentals of Nursing, 7th Ed, New York, Pearson Education, 2021.**	No
Recommended Texts	**Kozier B, Erb, G, Berman A, et al. Fundamentals of Nursing, 10th Ed, New York, Pearson Education, 2020.**	Yes

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	AI in Health Care	Module Delivery				
Module Type	Elective	Method	h/week	Frequency		
Module Code	NUR110012	Theory	2	15		
ECTS Credits	2 ECTS	Lecture	-	-		
SWL (hr/sem)	50	Lab	-	-		
		Tutorial	-	-		
		Practical	-	-		
		Seminar	-	-		
Module Level	UG I	Semester of Delivery	2nd Semester			
Administering Branch	Basic Sciences	College	NUR			
Module Leader	Baqer A. Hakim	e-mail	h.bagher@alameed.edu.iq			
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Msc.			
Module Tutor	Baqer A. Hakim	e-mail	h.bagher@alameed.edu.iq			
Peer Reviewer Name	Ahmed Samit Hatem	e-mail	ahmed.samit@uokerbala.edu.iq			
Scientific Committee Approval Date	November 1, 2025	Version Number	1.0			

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1. Define the fundamental concepts and terminology of Artificial Intelligence (AI) and its relevance to healthcare. 2. Explain key AI techniques such as machine learning, neural networks, and natural language processing applied in healthcare. 3. Identify the various applications of AI in healthcare including diagnostics, medical imaging, health data analytics, and personalized medicine. 4. Develop skills to design, implement, and evaluate AI models using healthcare data. 5. Analyze and address ethical, legal, and privacy challenges related to AI in healthcare. 6. Apply AI tools to enhance healthcare delivery, patient diagnosis, treatment optimization, and administrative tasks. 7. Evaluate the performance, reliability, and potential biases of AI systems in clinical settings. 8. Implement AI solutions that comply with healthcare regulations and data privacy standards. 9. Communicate complex AI concepts effectively to both technical and non-technical stakeholders in healthcare environments. 10. Collaborate in interdisciplinary teams to propose innovative AI-driven solutions for healthcare challenges.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• By the end of week 1, clearly define fundamental AI concepts and their relevance to healthcare with measurable understanding. • By week 3, analyze and preprocess real healthcare data sets using AI tools, producing detailed reports on data quality. • By week 5, design and implement a machine learning model for a healthcare problem, validating its predictive accuracy. • By week 7, evaluate ethical, legal, and privacy considerations in AI healthcare applications and propose compliant solutions. • By week 10, critically compare and assess AI model performances using clinical evaluation metrics. • By week 13, apply advanced AI methods such as deep learning and natural language processing to healthcare data. • By week 15, present a comprehensive case study demonstrating AI's impact on patient care with clear, effective communication to interdisciplinary audiences.
Indicative Contents المحتويات الإرشادية	<u>Lecture 1: Introduction to AI in Healthcare [SSWL=2 hrs]</u> • Definitions and history of AI • Overview of AI types (machine learning, deep learning, NLP) • Healthcare challenges and opportunities for AI <u>Lecture 2: Healthcare Data and Digital Representations [SSWL=2 hrs]</u> • Types of healthcare data (EHR, imaging, genomics) • Data representation and encoding • Data quality and preprocessing basics <u>Lecture 3: Mathematical Foundations for AI [SSWL=2 hrs]</u> • Linear algebra essentials • Probability and statistics principles • Optimization basics

Lecture 4: Machine Learning Techniques - Part 1 [SSWL=2 hrs]

- Supervised learning (regression, classification)
- Decision trees, support vector machines

Lecture 5: Machine Learning Techniques - Part 2 [SSWL=2 hrs]

- Unsupervised learning (clustering, dimensionality reduction)
- Reinforcement learning basics

Lecture 6: Deep Learning Fundamentals [SSWL=2 hrs]

- Neural networks architecture
- Convolutional and recurrent networks
- Training and optimization

Lecture 7: Natural Language Processing in Healthcare [SSWL=2 hrs]

- Text data processing
- Named entity recognition, classification
- Question answering systems

Lecture 8: Medical Image Analysis using AI [SSWL=2 hrs]

- Image formation and modalities
- Segmentation, registration, classification

Lecture 9: Clinical Decision Support Systems [SSWL=2 hrs]

- Predictive modeling for diagnosis
- Treatment recommendation systems

Lecture 10: AI in Genomics and Personalized Medicine [SSWL=2 hrs]

- Genomic data analysis
- AI approaches for precision medicine

Lecture 11: Healthcare Informatics and Data Integration [SSWL=2 hrs]

- Data warehousing and mining
- Interoperability standards

Lecture 12: Ethical, Legal, and Privacy Issues [SSWL=2 hrs]

- Data privacy laws (HIPAA, GDPR)
- AI ethics in healthcare
- Bias and fairness in AI models

Lecture 13: Regulatory and Safety Considerations [SSWL=2 hrs]

- FDA approval processes for AI devices
- Risk management and compliance

Lecture 14: Innovations and Future Trends in AI Healthcare [SSWL=2 hrs]

- Emerging technologies and research
- AI in remote monitoring and wearables

Lecture 15: AI Project Design and Implementation [SSWL=2 hrs]

- Designing AI healthcare solutions
- Case studies and best practices

Total hrs = ∑SSWL + (Mid Exam hrs+ Final Exam hrs) =30+3=33

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• Interactive Lectures: Engage students actively with visual aids and real-world examples. • Project-Based Learning: Apply AI concepts through hands-on projects related to healthcare scenarios. • Case Studies: Analyze real AI applications to stimulate critical thinking. • Collaborative Learning: Work in teams to solve problems and share knowledge. • E-learning Tools and Simulations: Use digital platforms and virtual environments for practice. • Continuous Assessment: Employ quizzes, assignments, and presentations to monitor progress. • Ethical Discussions: Explore privacy, fairness, and legal aspects of AI use. • Self-Directed Learning: Encourage independent research and use of AI resources.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2.20
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.13
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

Module Evaluation

تقييم المادة الدراسية

		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%			x									x				x	x	x	x	x	x	x	x	x	x
	Report	1	10%								x														x			x
	Lab Report	-	-																									
	Project	1	10%													x						x				x		
	Online Assig.	2	5%			x											x			x								
	Onsite Assig.	-	-																									
	Seminar	-	-																									
Summative	Mid. Exam	1H	10% (10)						x										x				x				x	
	Final Exam	2H	50% (50)	Week ١٥															x	x	x	x	x	x	x	x	x	x
Total assessment			100%																									

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to AI in Healthcare
Week 2	Healthcare Data and Digital Representations
Week 3	Mathematical Foundations for AI
Week 4	Machine Learning Techniques - Part 1
Week 5	Machine Learning Techniques - Part 2
Week 6	Deep Learning Fundamentals
Week 7	Natural Language Processing in Healthcare
Week 8	Medical Image Analysis using AI
Week 9	Clinical Decision Support Systems
Week 10	AI in Genomics and Personalized Medicine
Week 11	Healthcare Informatics and Data Integration
Week 12	Ethical, Legal, and Privacy Issues
Week 13	Regulatory and Safety Considerations
Week 14	Innovations and Future Trends in AI Healthcare
Week 15	AI Project Design and Implementation

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Simon, G. J., & Aliferis, C. (2024). Artificial intelligence and machine learning in health care and medical sciences: best practices and pitfalls.	Yes
Recommended Texts	Davenport, T., Glaser, J., & Gardner, E. (2022). Advanced Introduction to Artificial Intelligence in Healthcare. Edward Elgar Publishing.	Yes

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.