

First: Course Information	
Faculty: Nursing	
Department: Nursing	Program: Master
Academic Year: 2024/2025	Semester: Second

Course No.: 0801717	Course Title: Health Informatics.					
Credit Hours: 3 hours	Theoretical: 3 hours	Practical: 0 hour				
Prerequisite No.: None	Prerequisite Title: None					
Section No.: 1	Lecture Image: Sun i					
Level in JNQF	Level 9 Notional Hours JNQF 126					
Type of Course	Elective Specialization					
Type of Learning	Blended Learning (1 F	ace-to-Face + 1 Asynchronous)				

Second: Instructor's / Coordinator's Information

	Name:	Dr. Moha	mmad Alost	a Aca	demic Rank:	: Assistant Pro	ofessor
Course			252D Ext. No.: 1790		Email: malosta@zu.edu.jo		
Instructor			Mon 10-11 11-12	Tues choose 11-12	Wed 10-11 11-12	Thu choose choose	Sat choose choose
Course	Name:	Name: Dr. Mohammad Alosta Academic Rank: Assistant Professor					
Course Coordinator	Office 1	No.:252D	Ext.	No.: 1790			edu.jo

Third: Course Description

This course introduces nursing informatics as an integration of nursing, computer, and information sciences to support nursing practice and enhance healthcare delivery. It aims to equip master nursing students with the knowledge and skills necessary to effectively utilize health information systems, electronic health records, and decision support systems. The course will explore data management, telehealth applications, ethical and legal considerations, and emerging technologies such as artificial intelligence and big data. Students will develop competencies in information literacy, technology adoption, and leadership in informatics, enabling them to contribute to evidence-based practice, quality improvement, and interdisciplinary collaboration. The course will also emphasize the role of nursing informatics in improving patient outcomes and shaping the future of healthcare systems.





Fourth: Course Objectives

Upon successful completion of this course, students will be able to:

- 1. Define key concepts and components of health informatics and its significance in the healthcare environment.
- 2. Analyze the role of health informatics in supporting nursing administration functions such as patient care, quality improvement, and resource management.
- 3. Evaluate the impact of health information technology on patient safety, privacy, and security.
- 4. Assess the current state of health information systems in healthcare organizations and identify opportunities for improvement.
- 5. Critically analyze emerging trends and technologies in health informatics and their potential impact on nursing practice.
- 6. Demonstrate leadership in promoting the use of health informatics to improve patient care and organizational outcomes.

Level descriptor according to (JNQF) *	CILOs Code	CILOs	Associated PILOs Code Choose one PILO for each CILO**	Assessment Methods	Scores out of 100
Knowledge	K1	Recognize health informatics' significance, scope, and impact on healthcare delivery and patient outcomes.	P1	Assignments, Group presentation, Mid-term Exam, Final Exam	10
Knowledge	K2	Understand the integration of health informatics with clinical processes, including its role in decision-making, documentation, and evidence-based practice.	P2	Assignments, Group presentation, Mid-term Exam, Final Exam	10
Knowledge	K3	Explain the methods used to evaluate and measure health informatics applications, including ethical considerations and their	P2	Assignments, Group presentation, Mid-term Exam, Final Exam	12

Fifth: Learning Outcomes





		effect on healthcare			
		functionality. Analyze health			
Skills	S1	Analyze health information systems to support clinical decision- making, communication, and administrative processes.	Р3	Assignments, Group presentation, Mid-term Exam, Final Exam	12
Skills	S2	Evaluate the role of health informatics in improving patient safety, quality of care, and health outcomes.	P4	Assignments, Group presentation, Mid-term Exam, Final Exam	12
Skills	S3	Utilize various electronic resources and technologies to access, retrieve, and apply evidence-based information in nursing practice.	P4	Assignments, Group presentation, Mid-term Exam, Final Exam	12
Competencies	C1	Apply health informatics technologies in clinical and administrative settings to improve patient care and healthcare processes.	Apply health informaticstechnologies in clinicaland administrativesettings to improvepatient care and		10
Competencies	C2	Assess the effectiveness of informatics systems in supporting healthcare outcomes and quality improvement.	Р5	Assignments, Group presentation, Mid-term Exam, Final Exam	11
Competencies	C3	Demonstrate ethical responsibility in the design, implementation, and evaluation of informatics solutions within healthcare environments.	P6	Assignments, Group presentation, Mid-term Exam, Final Exam	12

* https://jnqf.heac.org.jo/?v=5.20.10.28.2&url=ar/Manuals; ** Program Outcome Competencies (Learning outcomes) Code (PILOS); CILOs: Course Intended Learning Outcomes





Sixth: Learning Resources

Main Reference: Nursing Informatics and the Foundation of Knowledge									
Author: McGonigle,	Author: McGonigle, D., & Mastrian, KEdition: 6th EditionPublication Year: 2024								
 USA American Psychologica American Nu 	& Kennedy, A. (2022). ychological Association <i>A Association</i> . 7 th ed. Warsing Informatics Assoc	. (2023). Publication Me	n Psychological Association.						
Teaching Context Z Classroom Laboratory Workshop Z MS Teams Moodle									

Seventh: Course Structure

Lecture Date	Topics	CILOs Codes	Teaching Procedures	Teaching Methods	References
Sunday 2-3-2025	Introduction to course requirements and materials Health/ nursing informatics	Introduction to CILOs K1, K2, K3, S1, C1	Face-to-Face	Lecturing Questions and Answers Discussion Presentation Videos	Course Syllabus Evaluation sheets Ch. 1, 16, 17 (McGonigle, D., & Mastrian, K).
Sunday 9-3-2025	Data Science and Information Management Videos related to the topic discussed.	K1, K2, K3, S1, C1	Asynchronized	Self-Reading Problem solving	Ch. 6 (McGonigle, D., & Mastrian, K).
Sunday 16-3-2025	Data Science and Information Management	K1, K2, K3, S1, C1	Face-to-Face		Ch. 6 (McGonigle, D., & Mastrian, K).
Sunday 23-3-2025	Standardization Videos related to the topic discussed.	K1, K2, K3, S1, C1	Asynchronized		Ch. 7,8,9 (McGonigle, D., & Mastrian, K).





Sunday 30-3-2025	- Standardization	K1, K2, K3, S1, C1	Face-to-Face	Lecturing Questions and Answers Discussion Presentation Videos	Ch. 7,8,9 (McGonigle, D., & Mastrian, K).
Sunday 6-4-2025	Systems Life Cycle Videos related to the topic discussed. Ethics, Security of healthcare systems Articles: Assessing nurses' informatics competency and identifying its related factors	K1-K3 S1-S3 Asynchronize C1-C3		Self-Reading Problem solving	Ch. 10, 12, 13, 14 (McGonigle, D., & Mastrian, K).
Sunday 13-4-2025	Student Presentation: Systems Life Cycle Student Presentation: Ethics, Security of healthcare systems in providing safe and private healthcare.	K1-K3 S1-S3 C1-C3	Face-to-Face	Lecturing Questions and Answers Discussion Presentation Videos	Ch. 10, 12, 13, 14 (McGonigle, D., & Mastrian, K).
Sunday 20-4-2025	Application of Health/Nursing Informatics: Management, Leadership & Research Videos related to the topic discussed.	K1-K3 S1-S3 C1-C3	Asynchronized	Self-Reading Problem solving	Ch. 18, 19, 49 and 50 (McGonigle, D., & Mastrian, K).
Sunday 27-4-2025		Midte	erm Exam (2 hours)		
Sunday 4-5-2025	Student Presentation: Application of Health/Nursing Informatics: Management and Leadership. Student Presentation: Application of Health/Nursing Informatics: Research.	K1-K3 S1-S3 C1-C3	Face-to-Face	Lecturing Questions and Answers Discussion Presentation Videos	Ch. 18, 19, 49 and 50 (McGonigle, D., & Mastrian, K).





Sunday 11-5-2025	Application of Health/Nursing Informatics: Education Articles- A Systematic Review of the Technology Acceptance Model in Health Informatics.	К1-К3 S1-S3 C1-C3	Asynchronized	Self-Reading Problem solving	Ch. 44-48 (McGonigle, D., & Mastrian, K).
Sunday 18-5-2025	Student Presentation: Application of Health/Nursing Informatics: Education	К1-КЗ S1-S3 C1-C3	Face-to-Face	Lecturing Questions and Answers Discussion Presentation Videos	Ch. 44-48 (McGonigle, D., & Mastrian, K).
Sunday 25-5-2025		Inc	lependence Day		
Sunday 1-6-2025	Application of Health/Nursing Informatics: Practice Videos related to the topic discussed.	K1-K3 S1-S3 C1-C3	Asynchronized	Self-Reading Problem solving	Ch. 26-28, 33, 35 (McGonigle, D., & Mastrian, K).
Sunday 8-6-2025	Student Presentation: Application of Health/Nursing Informatics: Practice	K1-K3 S1-S3 C1-C3	Face-to-Face	Lecturing Questions and Answers Discussion Presentation Videos	Ch. 26-28, 33, 35 (McGonigle, D., & Mastrian, K).
15 to 25-6- 2025		Fina	al Exam (2 hours)	·	

Eighth: Assessment Methods

Methods	Blended	Specific Course Output to be assessed								
	Learning	ł	Knowledge Skills Competency					cy		
		P1/K1	P2/K2	P2/K3	P3/S1	P4/S2	P4/S3	P5/C1	P5/C2	P6/C3
Mid-term Exam	30%	3	3	3	4	3	4	3	3	4
Project	20%	2	1	2	2	3	2	2	3	3
Group presentation	10%	1	1	2	1	1	1	1	1	1
Final Exam	40%	4	4 5 4 5 5 5 4 4 4							
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		10	10	11	12	12	12	10	11	12
Total out of 100	100%		31			36			33	

* Refer to document (Guidelines-for-Nursing-Programs-Accreditation-at-Jordanian-Universities)

Ninth: Course Policies

All course policies apply across all teaching modes, including online, blended, and face-to-face learning.

- Punctuality: Attend on time; late work may lose marks.
- Participation: Engage in discussions, group work, and assignments.
- Attendance & Exams: Mandatory attendance; valid excuse required for absences.
- Academic Integrity: No cheating, plagiarism, or unauthorized collaboration.
- Ethical Conduct: Respectful behavior is required online and offline.
- Technology Use: Follow platform rules; no misuse of digital tools.

Approval	Name	Date	Signature
Head of Department	Dr. Islam Al-Oweidat	2025/03/02	
Faculty Dean	Dr. Ahmed Rayan	2025/03/03	

