Jordan University of Science and Technology
Faculty of Nursing
Nursing Department

NUR108 Health Informatics - JNQF Level: 6
Second Semester 2023-2024

Course Catalog
2 Credit Hours. The purpose of this course, whereby part of it will be online, is to explain the origins, key components and current state of Health Informatics, which will take a national and international perspective. This course will introduce key issues and applications of Health Informatics at theoretical and applied levels. Students are left with knowledge and skills to examine existing practices and recommend change based on evidence and structured approaches. Emphasis will be placed on current ethical, cultural, and financial issues accompanying the increasing use of the health related internet applications by healthcare providers and consumers. Computer skills and Internet use will also be provided with emphasis on the use of EHR in healthcare system.
Teaching Method: Blended

Text Book	
Title	Handbook of Informatics for nurses and healthcare professionals.
Author(s)	Toni Lee Hebda & Patricia Czar
Edition	6th Edition
Short Name	Handbook of Informatics for nurses and healthcare professionals.
Other Information	

Instructor	
Name	**Dr. Anas Mohammad**
Office Location	M5L4
Office Hours	
Email	aammhammad@just.edu.jo

Class Schedule & Room

Section 1:
 Lecture Time: Sun : 09:30 - 11:30
 Room: N4205

Section 2:
 Lecture Time: Tue : 08:30 - 10:30
 Room: M3302

Section 3:
 Lecture Time: Tue : 10:30 - 12:30
 Room: N4206

Section 4:
 Lecture Time: Thu : 14:30 - 16:30
 Room: N1301

Prerequisites		
Line Number	**Course Name**	**Prerequisite Type**
1740990	Cls099 Computer Skills (Remedial Course)	Pre./Con.

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Orientation to course	
Week 2	Introduction to Health Informatics & Informatics in Healthcare Professions	**Ch. 1** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 3	Computer, Internet, and the World Wide Web: An Overview	**Ch. 2, 4** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 4	Microsoft Office & Email etiquette	
Week 5	Enterprise Healthcare Information Systems	**Ch. 6, 14** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 6	Health Information Systems Life Cycle (system selection, implementation, and evaluation)	**Ch. 8, 10, 11** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 7	Informatics in practice: Facility based (The Electronic Health Record)	**Ch. 14** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 8	Informatics in practice: Community based application (Telehealth)	**Ch. 25** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 9	The Personal Health Record (PHR)	**Ch. 16** From **Handbook of Informatics for nurses and healthcare professionals.**

Week 10	Informatics: challenges and Issues	**Ch. 8, 10** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 12	Educational Informatics: e-Learning & Simulation in health education	**Ch. 23** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 13	Educational Informatics: Mining the Literature: Database searches	**Ch. 27** From **Handbook of Informatics for nurses and healthcare professionals.**
Week 14	Course review and wrap up	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Recognize basic concepts of healthcare informatics/nursing informatics. [1NUR-1, 1COMP-1] [1L6K1]	10%	First Exam, Second Exam, EHR Project, Final Exam
Identify the essential computer components, Microsoft Office, email etiquette, and internet skills. [1NUR-1, 1COMP-1] [1L6K1, 1L6K2]	10%	EHR Project, Final Exam
Identify the application of health informatics to improve health care delivery in health care organizations and in public health. [1NUR-1, 1COMP-1] [1L6K1, 1L6K2]	35%	
Analyze the important components of HIS systems design. [1NUR- 4, 1COMP-4] [1L6C1, 1L6C2, 1L6C4]	15%	First Exam, Second Exam, EHR Project, Final Exam
Recognize a theoretical framework on how to select, implement, and evaluate high-quality, safe, and cost-effective Health Information Systems in healthcare settings. [1NUR- 4, 1COMP-4] [1L6C1, 1L6C2, 1L6C4]	10%	
Identify the major principles needed for successful EHR change management. [1NUR- 2, 1COMP-2] [1L6S1]	10%	EHR Project, Final Exam
Recognise the value and importance of privacy, security, and confidentiality related to Electronic Health Information. [1NUR- 6, 1COMP-6] [1L6C3, 1L6C4]	10%	

Relationship to Program Student Outcomes (Out of 100%)											
NUR-1	NUR-2	NUR-3	NUR-4	NUR-5	NUR-6	COMP-1	COMP-2	COMP-3	COMP-4	COMP-5	COMP-6
27.5	5		12.5		5	27.5	5		12.5		5

Relationship to NQF Outcomes (Out of 100%)						
L6K1	L6K2	L6S1	L6C1	L6C2	L6C3	L6C4
32.5	22.5	10	8.33	8.33	5	13.33

Evaluation	
Assessment Tool	**Weight**
First Exam	25%
Second Exam	25%
EHR Project	10%
Final Exam	40%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the instructor and the dean of the Faculty of Nursing
Cheating	Prohibited; and in case of cheating the student will be subject to JUST regulations (could be accessed through this link http://www.just.edu.jo/aboutjust/RegulationsTemp/40%201/الطلبة20%تأديب20%نظام.pdf
Attendance	The instructor will keep track of attendance according to JUST regulations. In case of exceeding the permitted percentage of absenteeism (20%), the student will be dismissed from the course.
Participation	The instructor will serve as a facilitator of learning in the classroom and through posting various assignments on E-Learning. This approach is expected to facilitate successful achievement of the SLO?s and course objectives. In the classroom, the instructor will implement different methods to encourage in-class participation.
Withdraw	Should any student decides to withdraw from the class, s/he should refer to the university calendar for due date regarding the last date to withdraw.

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