



Course Specification

(Postgraduate Programs)

Course Title: NRS 622
Course Code: Nursing Informatics
Program: Master of Science in Nursing (MSN)
Department: CAMS
College: College of Nursing
Institution: Majmaah University
Version: TPG-153 2024
Last Revision Date: 5/9/2024



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A. General information about the course:

1. Course Identification:

1. Credit hours: 2 (1+1+0)

2. Course type

A. University College Department Track

B. Required Elective

3. Level/year at which this course is offered: Level 2 / Year 1

4. Course General Description:

This course establishes competency in fundamental information management and computer technology skills. It enables students to use existing information systems and available information to manage nursing practice. Students critically evaluate technology, information, and its sources; use decision support systems designed for clinical decision making; and focus on the representation of nursing data, information, and knowledge.

5. Pre-requirements for this course (if any):

None

6. Pre-requirements for this course (if any):

None

7. Course Main Objective(s):

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

1. appreciate the concept of nurse as knowledge worker and apply digital literacy competencies in your day-to-day practice;
2. use information and communication technologies and consider how these can be used to enhance client care;
3. explore healthcare information systems and electronic health records and examine their use in the delivery of nursing care;
4. explain the need for protection of privacy, confidentiality and security in the collection and use of health information;
5. examine the use of Telehealth to deliver health care at a distance; and



6. investigate the utility of social media within the contexts of consumer health information, client education, and professional practice.

2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	15	33
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4	Distance learning	30	67

3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	15
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	30
5.	Others (specify).....	
	Total	45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods:

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
K3.1	Critically debate the key methods used in health informatics, and how to select among them.	K3	Lecture discussion	Group presentation and assignment
...				
...				





Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
2.0	Skills			
S3.1	Analyze the impact of informatics technology on patient safety, error prevention, and developing a culture of safety.	S3	Lecture discussion	Group presentation and assignment
S3.2	Assess and evaluate health care information systems.	S3	Lecture discussion	Group presentation and assignment
...			Lecture discussion	Group presentation and assignment
3.0	Values, autonomy, and responsibility			
V1.1	Use information and communication technologies and consider how these can be used to enhance client care.	V1	Lecture discussion	Group presentation and assignment
V5.1	Integrate information technology (IT) culture, processes, roles, related terminology, and applications in the practice of nursing.	V5	Lecture discussion	Group presentation and assignment
...				

C. Course Content:

No	List of Topics	Contact Hours
1.	Unit 1: Introduction to Nursing Informatics	6
2.	Unit 2: Information & Communication Technologies	3
3.	Unit 3: Observing, Analyzing, and Interpreting of Healthcare Data	3
4.	Unit 4: Electronic Health Records	3
5.	Unit 5: Health Information Standards	3
6.	Unit 6: Medical Coding and Billing	3
7.	Unit 7: Protection of Personal Health Information	6
8.	Unit 8: Telehealth, Telemedicine and Telenursing	6
9.	Unit 9: Clinical Decision Support Tools	6





10.	Unit 10: Quality and Safety Education for Nurses	6
Total		45

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Exam	8th	20%
2.	Group Presentation – Nursing Informatics Applications	14th	10%
3.	Course Project – Nursing Informatics Applications Paper (Individual project)	14th	20%
4.	Professionalism	14th	10%
5.	Practical Assignment	12th	10%
6.	Final Theoretical Examination	15th	30%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities:

1. References and Learning Resources:

Essential References	ANA (2022). Nursing Informatics: Scope and Standards of Practice (3rd Edition) McGonigle, D., & Mastrian, K. (2024). Nursing Informatics and the Foundation of Knowledge (6th Edition) Jones & Bartlett Learning.
Supportive References	Saba, V. K., & McCormick, K. A. (2021). Essentials of Nursing Informatics Study Guide. McGraw Hill Professional (7th Edition) McGraw Hill. Ball, M. J., Douglas, J. V., Walker, P. H., DuLong, D., Gugerty, B., Hannah, K. J., & Troseth, M. R. (2011). Nursing informatics: Where technology and caring meet (12th Edition) Springer Science & Business Media.
Electronic Materials	The Journal of Informatics Nursing (JIN). https://www.ania.org/publications/journal
Other Learning Materials	https://www.nursingworld.org/content-hub/resources/nursing-resources/nursing-informatics/

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture rooms accommodating 30-40 students Laboratories accommodating 10-20 students
Technology equipment (Projector, smart board, software)	Computer Projector



Items	Resources
	Microphone & Speakers Smart board with all the accessories Internet
Other equipment (Depending on the nature of the specialty)	None

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	CES, SES, PES Quality of Exam Survey
	Faculty	CLO Mapping with teaching & assessment. Course Blueprinting Grade Analysis Psychometric Analysis
	QA and Program Leaders	Management Review
Effectiveness of students' assessment	Faculty	DAS
	Peer Review	Grade Verification
Quality of learning resources	Students	CES, SES, PES
	Faculty	FES, CR
	QA and Program Leaders	Management Review
The extent to which CLOs have been achieved	Faculty	DAS, CR
	QA and Program Leaders	Management Review
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	ACADEMIC COUNCIL MEETING
REFERENCE NO.	DEPARTMENT MEETING MINUTES NO 4
DATE	5/9/2024

