

# Course Specification (2025)

## 1. Basic Information

Course Title (according to the bylaw)	المعلوماتية وتكنولوجيا التعليم في التمريض Informatics and Education Technology in Nursing			
Course Code (according to the bylaw)	NUR313			
Department/s participating in delivery of the course	Scientific departments alternatively			
Number of credit hours/points of the course (according to the bylaw)	Theoretical	Practical	Other (specify)	Total
	(2) credit hours	—	—	2 hours
Course Type	اجباري			
Academic level at which the course is taught	الفرقة/المستوي الثالث			
Academic Program	Bachelor degree in nursing science (Credit Hours)			
Faculty/Institute	Nursing			
University/Academy	Benha			
Name of Course Coordinator	Professor/ Hwaida Sadek Abdelhameed			
Course Specification Approval Date	2/7/2025			
Course Specification Approval (Attach the decision/minutes of the department /committee/council ....)	<u>مجلس قسم تمريض أمراض النساء والتوليد</u>			

## 2. Course Overview (Brief summary of scientific content)

The course aims to equip the student with knowledge and skills about nursing informatics technology to be able to integrate the implementation of health care information systems in advanced nursing practices.

## 3. Course Learning Outcomes CLOs

### Matrix of course learning outcomes CLOs with program outcomes POs (NARS/ARS)

Program Outcomes (NARS/ARS) (according to the matrix in the program specs)		Course Learning Outcomes Upon completion of the course, the student will be able to:	
Code	Text	Code	Text
4.1.1	Use different sources of data related to contemporary standards of practice and patient care.	4.1.1.1	Identify uses of electronic health record for patient care.
		4.1.1.2	List benefits of electronic health record for patient care.
		4.1.1.3	Utilize telenursing technology for effective communication and coordination of health education activities in health care field.
4.1.2	Apply technology and information management tools to support safe care and evaluate their impact on patient outcomes.	4.1.2.1	Discuss health information management tool.
		4.1.2.2	Use information technology resources for planning and improving health care.
		4.1.2.3	Explain patient rights, policy and procedure guideline to support safe care.
4.1.3	Use and evaluate information management technologies for providing the holistic patient care in different health care settings.	4.1.4.1	Discuss role of nurse in managing information technology for corresponding patient / client needs in health care field.
		4.1.4.2	Apply health information management technology.
4.2.1	Retrieve, and manage data to make decisions using information management system for providing holistic patient care.	4.2.1.1	Illustrate importance of information technology competencies in nursing data and making decision.
		4.2.1.2	Discuss impact of computerized information management on the role of the nurse in providing holistic patient-centered care.
		4.2.13	Interpret health care communication

<b>Program Outcomes (NARS/ARS)</b> (according to the matrix in the program specs)		<b>Course Learning Outcomes</b> Upon completion of the course, the student will be able to:	
<b>Code</b>	<b>Text</b>	<b>Code</b>	<b>Text</b>
			technology in supporting decision making and patient safety.

## 4. Teaching and Learning Methods

- 1) Interactive lectures
- 2) Blended learning
- 3) Electronic learning

### Course Schedule

Number of the Week	Scientific content of the course (Course Topics)	Total Weekly Hours	Expected number of the Learning Hours			
			Theoretical teaching (lectures/discussion groups/ .....)	Training (Practical/Clinical/ .....)	Self-learning (Tasks/Assignments/Projects/ ...)	Other (to be determined)
1	Introduction to information technology.	2 hours	2 hours	--	--	--
2	Electronic health record.	2 hours	2 hours	--	--	--
3	Telenursing.	2 hours	2 hours	--	--	--
4	Telenursing	2 hours	2 hours	--	--	--
5	Health information management	2 hours	2 hours	--	--	--
6	Health information management	2 hours	2 hours	--	--	--
7	Information technology competencies.	2 hours	2 hours	--	--	--
8	Information technology competencies.	2 hours	2 hours	--	--	--
9	Role of nurse in applying information technology	2 hours	2 hours	--	--	--
10	Role of nurse in applying information technology	2 hours	2 hours	--	--	--

11	Nursing informatics competency	2 hours	2 hours	--	--	--
12	Nursing informatics competency	2 hours	2 hours	--	--	--
13	Technology based care	2 hours	2 hours	--	--	--
14	Technology based care	2 hours	2 hours	--	--	--

## 5. Methods of students' assessment

No.	Assessment Methods *	Assessment Timing (Week Number)	Marks/ Scores	Percentage of total course Marks
1	Seasonal works	Periodical	15	15%
2	Midterm exam	8 <sup>th</sup> weeks	15	15%
3	Final written exam (electronic)	16 <sup>th</sup> weeks	70	70%

## 6. Learning Resources and Supportive Facilities \*

Learning resources (books, scientific references, etc.) *	The main (essential) reference for the course (must be written in full according to the scientific documentation method)	<p><i>Sadek, et al., (2025):</i> Electronic handouts (C.D) about Informatics and Education Technology in Nursing , Faculty of Nursing, Benha University</p> <p><i>Mantas J. Hasman A.M. Househ, S. (٢٠٢٤):</i> Informatics and Technology in Clinical Care and Public Health, 1st ed., IOS Press, Canada</p> <p><i>McGonigle, D., &amp; Mastrian, K. (2024):</i> Nursing informatics and the foundation of knowledge. Jones &amp; Bartlett Learning, 6th ed., John Wiley &amp; USA</p> <p><i>Donna J. Slovensky, Detlev H. Smaltz (2024):</i> Information Technology for Healthcare Managers ,9th ed., Health Administration Press.</p>
	Other References	--

	<b>Electronic Sources</b> (Links must be added)	<a href="https://www.nursingworld.org/content-//hub/resources/nursing-resources/nursing-informatics">https://www.nursingworld.org/content- //hub/resources/nursing-resources/nursing-informatics</a>
	<b>Learning Platforms</b> (Links must be added)	<a href="https://ebook1.bu.edu.eg">/https://ebook1.bu.edu.eg</a>
	<b>Other</b> (to be mentioned)	--
<b>Supportive facilities &amp; equipment for teaching and learning</b> *	<b>Devices/Instruments</b>	Data show
	<b>Supplies</b>	White board
	<b>Electronic Programs</b>	Microsoft team
	<b>Skill Labs/ Simulators</b>	--
	<b>Virtual Labs</b>	--
	<b>Other (to be mentioned)</b>	--

Name and Signature  
Course Coordinator

Dr. Hossain Sadek

21/7/2025

Name and Signature  
Program Coordinator

Dr. Mahbouba Sobhy

21/7/2025

### Matrix between subjects objectives and methods of evaluation

Course name: Informatics and Educational Technology in Nursing

Code: NUR313

Academic year:2025-2026

Third academic level / 5th semester

Domain/ competency	Key elements	Subjects Objectives	Method of Evaluation				
			Seasonal works	Midterm exam	Oral exams	Clinical exams	Final written exam (electronic)
<b>DOMAIN NO 4.:Informatics and technology</b>  <b>4.1. COMPETENCY</b> <b>Utilize information and technology to underpin health care delivery, communicate, manage knowledge and support decision making for patient care.</b>	4.1.1 Use different sources of data related to contemporary standards of practice and patient care	4.1.1.1 Identify uses of electronic health record for patient care	*	*	-	-	*
		4.1.1.2 List benefits of electronic health record for patient care	*	*	-	-	*
		4.1.1.3 Utilize telenursing technology for effective communication and coordination of health education activities in health care field.	*	*	-	-	*

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		4.1.2.2 Use information technology resources for planning and improving health care.	*	*	-	-	*
		4.1.2.3 Explain patient rights, policy and procedure guideline to support safe care	*	*	-	-	*



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			Seasonal works	Midterm exam	Oral exams	Clinical exams	Final written exam (electronic)
<b>DOMAIN NO 4.:Informatics and technology</b>  4.1. COMPETENCY Utilize information and technology to underpin health care delivery, communicate, manage knowledge and support decision making for patient care.	4.1.4. Use and evaluate information management technologies for providing the holistic patient care in different health care the holistic patient care in different health care settings	4.1.4.1Discuss role of nurse in managing information technology for corresponding patient / client needs in health care field.	*	*	-	-	*
		4.1.4.2Apply health information management technology.	*	*	-	-	*



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		4.2.1.2 Discuss impact of computerized information management on the role of the nurse in providing holistic patient-centered care	*	*	-	-	*
		4.2.1.3 Interpret health care communication technology in supporting decision making and patient safety.	*	*	-	-	*

Name and Signature  
Course Coordinator

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Name and Signature  
Program Coordinator

Dr. Mahboubia Sobhy  
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**Matrix between subjects objectives and teaching and learning methods**  
**Course name: Informatics and Educational Technology in Nursing**  
**Academic year:2025-2026**  
**Code: NUR313**  
**Third academic level / 5th semester**

Domain/ competency	Key elements	Subjects Objectives	Methods of teaching and learning							Methods of training					
			Interactive lectures	Brain storming	Problem- based learning	Self- learning	E-learning	Blended Learning	Project based learning	Performanc e Based Training	Case study	Role playing	OSCE Simulation	Virtual reality	Practical/Fi eld Training
<b>DOMAIN NO 4.:Informatics and technology</b>	4.1.1 Use different sources of data related to contemporary standards of practice and patient care	4.1.1.1 Identify uses of electronic health record for patient care	*	-	-	-	*	*	-	-	-	-	-	-	-
		4.1.1.2 List benefits of electronic health record for patient care	*	-	-	-	*	*	-	-	-	-	-	-	-
		4.1.1.3 Utilize telenursing technology for effective communication and coordination of health education activities in health care field.	*	-	-	-	*	*	-	-	-	-	-	-	-
4.1. COMPETENCY Utilize information and technology to underpin health care delivery, communicate, manage knowledge and support decision making for patient care.															

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		4.1.2.2 Use information technology resources for planning and improving health care.	*	-	-	-	*	*	-	-	-	-	-	-	-
		4.1.2.3 Explain patient rights, policy and procedure guideline to support safe care	*	-	-	-	*	*	-	-	-	-	-	-	-
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		4.2.1.2 Discuss impact of computerized information management on the role of the nurse in providing holistic patient-centered care	*	-	-	-	*	*	-	-	-	-	-	-	-
		4.2.1.3 Interpret health care communication technology in supporting decision making and patient safety.	*	-	-	-	*	*	-	-	-	-	-	-	-



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		4.2.1.2 Discuss impact of computerized information management on the role of the nurse in providing holistic patient-centered care	*	-	-	-	*	*	-	-	-	-	-	-	-
		4.2.1.3 Interpret health care communication technology in supporting decision making and patient safety.	*	-	-	-	*	*	-	-	-	-	-	-	-

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