

Course Specification (2025)

Basic Information

Course Title (according to the bylaw)	Patient Safety and Management I			
Course Code (according to the bylaw)	TRMI 302			
Department/s participating in delivery of the course	Technology of Radiology and Medical Imaging			
Number of credit hours (according to the bylaw)	Theoretical	Practical	Other (specify)	Total
	1	2	-	2
Course Type	compulsory			
Academic level at which the course is taught	Level:2			
Academic Program	Technology of Radiology and Medical Imaging			
Institute	High Technology Institute Of Applied Health Sciences			
Academy	Nile Delta for sciences			
Name of Course Coordinator	Dr. Amira Atef, Doctor of Biology Radiation Science Institute of High Technology Institute of Applied Health Science			
Course Specification Approval Date	Department Council No. 2, date: (21 – 09 – 2024)			

Course Specification Approval (Attach the decision/minutes of the department /committee/council)	
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Course Overview (Brief summary of scientific content)

This course aims to instill a strong foundation in the ethical and legal responsibilities of patient care within imaging practices. Students will learn to apply effective communication strategies for accurate patient identification and informed consent, while implementing safe techniques for patient handling, moving, and positioning. The course emphasizes recognizing and mitigating risks in imaging environments, adhering to radiation safety protocols, and applying principles of medical asepsis. It also fosters a culture of safety, empathy, and professionalism in all aspects of patient care.

Course Learning Outcomes CLOs

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

Program Outcomes (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
Pos 2.1.2	Ensure confidentiality, privacy of patients' information, comfort, preparation and ethical standards in all radiology procedures	CLOs 1	Describe ethical, legal, and professional responsibilities in patient care
		CLOs 2	Explain principles of patient identification, communication, and informed consent
		CLOs 3	Outline body mechanics, safe patient handling, and movement procedures
Pos 2.1.3	Practice in an ethical and professional manner consistent with relevant legislation and regulatory requirements in medical imaging		

Program Outcomes (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
Pos 3.1.3	Apply radiation dose optimization and image quality control techniques	CLOs 4	Identify departmental safety measures, radiation protection strategies, and aseptic techniques
Pos 1.2.1	Use computers and software in medical imaging effectively	CLOs 5	Analyze potential patient safety risks and propose preventive actions
		CLOs 6	Evaluate scenarios involving patient care, safety, or legal issues.
Pos 1.1.3	Understand the comprehensive knowledge of nuclear physics, plain X-ray, ultrasound, CT, MRI, contrast media, bone densitometry, interventional and cardiovascular techniques	CLOs 7	Solve clinical problems related to patient positioning, handling, or communication
Pos 4.2.3	Apply clear, respectful, and culturally sensitive communication techniques to ensure that patients, families, and community members understand the purpose, process, and implications of radiology and imaging procedures.		
		CLOs 8	Reflect critically on the importance of safety culture in medical imaging departments

Program Outcomes (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
Pos 1.3.3	Participate in internal and external medical imaging audits and accreditation processes	CLOs 9	Apply proper techniques for moving, transferring, and positioning patients
Pos 1.2.2	Apply statistical skills and evidence based practice in imaging data manipulation and analysis Use health informatics to improve the quality of patient care & operate radiological information management systems appropriately	CLOs 10	Implement correct use of immobilizers and patient handling aids.
Pos 1.2.3		CLOs 11	Practice radiation safety measures and medical asepsis during procedures.
		CLOs 12	Assist patients with hygiene needs (e.g., bedpan and urinal use) professionally and safely.
Pos 3.2.3	Educate patients on the purpose, process, potential risks, and expected outcomes of the imaging procedure, using language appropriate to the patient's level of understanding	CLOs 13	Communicate effectively with patients and healthcare teams
Pos 4.1.4	Participate in teamwork harmoniously and exhibit collaborate effectively with colleagues and other health care professionals	CLOs 14	Demonstrate teamwork during clinical tasks and simulations
Pos 3.2.5	Coordinate with multidisciplinary healthcare teams to confirm all preparatory requirements are met, including equipment readiness, patient positioning, and adherence to infection control and radiation safety measures	CLOs 15	Manage time effectively in practical and clinical settings
Pos 2.1.1	Exhibit appropriate professional behaviors and relationships in all aspects of	CLOs 16	Exhibit ethical responsibility, empathy, and professionalism at all times

Program Outcomes (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
	.medical imaging practice		

Teaching and Learning Methods

Interactive Lectures.
 Discussion and brain storming.
 Asynchronous learning.
 Case study /problem solving.
 Self-Directed Learning (SDL).
 Research and presentations, Assignment and reports.
 Practical Learning

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	2	1	2	-	-
2	Patient Identification & Communication	2	1	2	-	-
3	Patient Legal Responsibilities	2	1	2	-	-
4	Patient Handling & Informed Consent	2	1	2	-	-
5	Patient Care and Safety in Imaging Technology	2	1	2	-	-
6	Body Mechanics	2	1	2	-	-
7	Mid-Term Exam	-	-	-	-	-
8	Moving and Transferring Patients	2	1	2	-	-
9	Immobilizers	2	1	2	-	-
10	Patient Positioning	2	1	2	-	-
11	Assisting Patients with Bedpan and Urinal	2	1	2	-	-

12	Departmental Safety and Radiation Safety	2	1	2	-	-
13	Medical Asepsis	2	1	2	-	-
14	Practical Exam	-	-	-	-	-
15	Final Written Exam	-	-	-	-	-

Course Schedule

Methods of students' assessment

No .	Assessment Methods *	Assessment Timing (Week Number)	Marks/ Scores	Percentage of total course Marks
2	Mid-Term Exam	6	20	20%
3	Final Practical/Clinical/... Exam	15	30	30%
	Final Written Exam	16	50	50%

*** The methods mentioned are examples, the organization may add and/or delete**

Learning Resources and Supportive Facilities *

Learning	The main (essential) reference for the	Patient Care in Radiography – Ruth Ann
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resources (books, scientific references, etc.) *	course (must be written in full according to the scientific documentation method)	Ehrlich & Dawn M. Coakes
	Other References	Introduction to Radiologic and Imaging Sciences and Patient Care – Arlene M. Adler & Richard R. Carlton Articles and guidelines from ACR (American College of Radiology) and .WHO patient safety resources
	Electronic Sources (Links must be added)	Radiopaedia.org Knowledge bank: https://www.ekb.eg/ar
	Learning Platforms (Links must be added)	/https://bislms.mans.edu.eg
	Other (to be mentioned)	-
Supportive facilities & equipment for teaching and learning *	Devices/Instruments	Projector
	Supplies	Whiteboard Markers
	Electronic Programs	ابن الهيثم Model
	Skill Labs/ Simulators	Practical Skills Labs
	Virtual Labs	-----
	Other (to be mentioned)	-----

*** The list mentioned is an example, the institution may add and/or delete depending on the nature of the course**

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