

# Course Specification

## 1- Basic Information

Course Title	Patient Safety and Management II			
Course Code	TRMI 309			
Department(s) responsible for course teaching.	Radiology and medical imaging technology			
Number of credit hours/points of the course (according to the bylaw)	<b>Theoretical</b>	<b>Practical</b>	<b>Other (specify)</b>	<b>Total</b>
	2	2	-----	3
Course type	<b>compulsory</b>			
Course level	Third level (2 <sup>st</sup> semester)			
Academic program	Technology of Radiology and Medical Imaging			
Institute	Institute of High Technology Institute of Applied Health Science			
Academy	Nile delta for science and technology			
Course coordinator	DR. Amira Atef			
Course approval date	21-9-2024			
Decision approving board (attached the decision/minutes of the department council)				



## 2- Course Overview

Providing foundational knowledge related to patient safety principles in radiology and medical imaging.

Emphasizing risk management and the identification and prevention of medical errors.

Promoting safe imaging techniques and adherence to safety protocols.

Fostering a culture of safety within healthcare environments.

Enabling students to identify potential hazards in radiologic procedures and environments.

Applying appropriate safety protocols in clinical and diagnostic settings.

Encouraging effective contribution to multidisciplinary healthcare teams to improve patient outcomes

## 3- Course Learning Outcomes CLOs

### Consistency of course learning outcomes with program outcomes (adopted standards)

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
Pos.3.1.7	Manage workflow efficiency by coordinating patient scheduling, optimizing resource allocation, and minimizing delays while maintaining a high standard of patient care and staff productivity.	Clos.1	identify the foundational scientific principles underlying patient safety.
		Clos.2	Describe the common causes of medical errors and adverse events
		Clos.3	Understand the importance of a safety culture within healthcare organizations

<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:	
Code	Text	Code	Text
Pos.4.1.2	Apply critical and reflective thinking to resolve questions.	Clos.4	Apply critical thinking to assess and reduce patient safety risks.
		Clos.5	Analyze case studies related to patient safety incidents.
		Clos.6	Develop problem-solving strategies in clinical safety situations
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.7	Demonstrate safe practices in handling equipment and patients.
Pos.2.2.2	Adhere to strict biosafety regulations and standards.	Clos.8	Apply patient safety guidelines in lab and clinical settings.
Pos.2.4.2	Troubleshoot technical errors and interpret results effectively in medical radiology practice	Clos.9	Practice error reporting and communication techniques effectively
Pos.4.2.1	Communicate effectively and develop collaborative relationships with all healthcare team.	Clos.10	Communicate effectively with team members about patient safety.

<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>
Pos.4.1.3	Take responsibility for one's action and decision in practice.	Clos.11	Manage time and resources to ensure safety in clinical environments.

## 4- Learning Methods

1. Interactive Lectures
2. Self-Directed Learning (SDL)
3. Clinical Learning (evaluation of case review/ discussion)
4. Practical Learning

## 5- Course schedule

Week No.	Course Content/Topics	Total Weekly hours	Expected learning hours (contact hours)			
			<b>Theoretical teaching</b> (lectures/discussion groups/ .....)	<b>Training</b> (Practical/ Clinical/ .....)	<b>Self-learning</b> (Tasks/ Assignment s/ Projects/ ...)	<b>Other</b> (to be determined)
1	Introduction to Patient Safety in Radiology	3	1hr	----	2hrs	----
2	Types and Causes of Errors in Medical Imaging	3	1hr	----	2hrs	----
3	International Patient Safety Goals (IPSGs)	3	1hr	----	2hrs	----
4	Risk Management	3	1hr	----	2hrs	----

	Strategies					
5	Reporting and Learning from Errors	3	1hr	----	2hrs	----
6	Midterm exams					
7	Infection Control and Radiation Protection	3	1hr	----	2hrs	----
8	Safe Imaging Techniques and Protocols	3	1hr	----	2hrs	----
9	Effective Communication in Patient Safety	3	1hr	----	2hrs	----
10	Teamwork and Safety Culture in Radiology Departments	3	1hr	----	2hrs	----
11	Safety rules in emergency department	3	1hr	----	2hrs	----
12	Signs and marks for radiological areas	3	1hr	----	2hrs	----
13	Revision	3	1hr	----		----
14	practical					
15	Final exam					

## 6- Methods of students' assessment

No .	Assessment method*	Assessment time (Week No.)	Rating Scores	Percentage of the total course grade
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1	Written exam 1 (term work)	6 <sup>th</sup>	30	20%
3	Final written exam	15 <sup>th</sup>	100	66.7%
4	Final Practical exam	14 <sup>th</sup>	20	13.3%

\* The methods mentioned above are indicative examples, and may add and delete

## 7- Learning Sources and Facilities

<b>Learning resources (books, scientific references, etc.)</b> *	Main Reference	Departmental handbook patient safety and management 2 2025.
	Other references	-----
	Electronic Resources (Add the link)	1-WHO Patient Safety Curriculum Guide: Multi-professional Edition. World Health Organization (WHO), 2021. ISBN: 978-92-4-150195-8. Available at: <a href="https://www.who.int/publications/i/item/9789241501958">https://www.who.int/publications/i/item/9789241501958</a>
	Educational Platform (add the link)	<a href="https://bislms.mans.edu.eg/moodle2024/">https://bislms.mans.edu.eg/moodle2024/</a>
<b>Educational support</b>	Other (List)	<a href="https://www.ekb.eg/ar">https://www.ekb.eg/ar</a> Journal of Patient Safety <a href="https://journals.lww.com/journalpatientsafety/pages/default.aspx">https://journals.lww.com/journalpatientsafety/pages/default.aspx</a>
	Devices	Projector
	Supplies	Whiteboard Markers
	Software	Model ابن الهيثم

<b>equipment for teaching</b>	Skills Labs/Simulators	Practical Skills Labs
	Virtual Labs	-----
	Other (List)	-----

\* The mentioned list is indicative examples, and the institution may add and delete depending on the nature of the course.

Course Coordinator  
Name:  
Signature:

Program Coordinator  
Name:  
Signature: