

Program Specification

(2024-2025)

1. Basic Information

Program Title (according to what is stated in the bylaw):	Bachelor of Technology in Radiology and Medical Imaging
Total number of credit hours of the program:	130 Cr hrs.
Number of academic years/levels (expected program duration):	4 years (4 academic years; 8 semesters)
Department (s) Participating (if any) in teaching the program:	<u>Responsible department:</u> Department of Technology of Radiology and Medical Imaging.
Institute:	High Technology Institute of Applied Health Sciences
Academy:	Academy Nile Delta for Sciences
Program majors/divisions/tracks/specialties in the final year (if any):	The program does not include divisions or tracks. All students follow the same unified curriculum in the final year.

Partnerships with other parties and the nature of each (if any):	<ol style="list-style-type: none"> 1. Department of Basic Science. 2. Department of Technology of Medical Laboratories, Institute of Applied Health Science Technology. 3. Department of Computer, Institute of High Technology, Institute of Information Technology. 3. Department of English Language, Institute of High Technology, Institute of Technology and Tourism.
Name of the program coordinator (attach the assignment decision):	<p>Dr. Amira Atef, date: (20-9-.2023) (ANNEX: II)</p> <p>Doctor of Biology, Radiation Science Institute of High Technology, Institute of Applied Health Science</p>
Program Specification Approval Date:	<p>Click or tap to enter a date. Department Council No. 2, date: (25-09 – 2024) (ANNEX: IV)</p>
Council responsible for Program Specification Approval (Attach the Decision / Minutes):	

2. Program Aims (Brief description of the overall purpose of the program)

1. Demonstrate basic understanding of the Applied Health Sciences, including Physics, Chemistry, Physiology, Anatomy, Microbiology, Histology...etc.
2. Encourage self-development, continuous education, and life-long learning.
3. Communicate and coordinate with members of the healthcare team in all fields effectively.
4. Provide professional principles related to ethical and legal compliance, communication skills, and human rights
5. Perform appropriate positioning procedures to achieve good image production.

6. Choose the technical factors to produce high-quality images production.
7. Apply effectively all aspects of radiation protection.
8. Possess knowledge and understanding of facts, information and theories related to Radiology and Medical Imaging.
9. Use medical imaging technologies such as X-ray, CT, MRI, Ultrasound and DEXA scan.
10. Perform various procedures of radiology and medical imaging of the human body and operate contrast media and different types of modern diagnostic imaging techniques.

Requirement Category/Type		Number of Courses	Number of Credit Hours/Points	Percentage from the total number of hours/points
Academy Requirements		4	8	6.1%
Institute Requirements (if applicable)		10	36 28 + 8	27.7%
Program Requirements		38*	86*	66.1%
Requirements of the majors/ divisions/ tracks/ specializations in the final year (if any)		Not applicable	Not applicable	Not applicable
Other requirements	Field Training	3	6 hr	3%

	Graduation Project	1	3 hr	3.4 %
	Mandatory training year	----	----	----
	Other (to be mentioned)	----	----	----
Total Compulsory Courses		47	120 Cr. Hr.	92.3% of the total Cr.hr.
Elective Courses		5	10 Cr.hr	7.7% of the total Cr.hr.
Total		52	130	100% of the total Cr.hr

*86 hours include 6 hours of field training and 3 hours of Research Project for Radiation & Medical Imaging Technologist.

** 38 Courses including field training and Research Project for Radiation & Medical Imaging Technologist.

3. Program Structure (Curriculum)

● Program courses according to the expected study plan

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours / Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other

Frist year	First	BI 101	English Language	Compulsory	Academy required	3	2	2	----
Frist year	First	AHST 101	General physics	Compulsory	Institute requirement	3	1	4	----
Frist year	First	AHST 102	Physical chemistry	Compulsory	Institute requirement	3	1	4	----
Frist year	First	AHST 103	General microbiology	Compulsory	Institute requirement	3	1	4	----
Frist year	First	AHST 104	Basic histology	Compulsory	Institute requirement	3	1	4	----
Frist year	First	AHST 105	Mechanics	Compulsory	Institute requirement	3	1	4	----
Frist year	Second.	AHST 106	Basic Anatomy	Compulsory	Institute requirement	3	1	4	----
Frist year	Second.	BI 102	Human Rights	Compulsory	Academy required	2	2	--	----
Frist year	Second.	AHST 107	Mechatronics	Compulsory	Institute requirement	3	1	4	----
Frist year	Second.	BI 103	Basic Computer Sciences	Compulsory	Academy required	2	1	2	----
Frist year	Second.	AHST 108	Basic Statistics	Compulsory	Institute requirement	3	2	2	----
Frist year	Second.	AHST 109	Basic Physiology	Compulsory	Institute requirement	3	1	4	----

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
Second year	Level 2 semester 1*	TRMI 201	Nuclear Physics I	Compulsory	Special program required.	3	1	4	----
Second year	Level 2 semester 1*	TRMI 202	Plain Radiographic Techniques I	Compulsory	Special program required.	3	2	2	----
Second year	Level 2 semester 1*	TRMI 203	Introduction to Radiology Techniques	Compulsory	Special program required.	1	1	----	----
Second year	Level 2 semester 1*	TRMI 204	Human Anatomy for Radiology Technologist I	Compulsory	Special program required.	3	1	4	----
Second year	Level 2 semester 1*	TRMI 205	Pathology I	Compulsory	Special program required.	3	1	4	----
Second year	Level 2 semester 1*	TRMI 206	Ultrasound techniques	Compulsory	Special program required.	3	2	2	----
Second year	Level 2 semester 2*	TRMI 207	Nuclear Physics II	Compulsory	Special program required.	3	1	4	----
Second year	Level 2 semester 2*	TRMI 208	Plain Radiographic	Compulsory	Special program	3	2	2	----

			Techniques II		required.				
Second year	Level 2 semester 2*	TRMI 209	Human Anatomy for Radiology Technologist II	Compulsory	Special program required.	3	2	2	----
Second year	Level 2 semester 2*	TRMI 210	Pathology II	Compulsory	Special program required.	3	2	2	----
Second year	Level 2 semester 2*	TRMI 211	Image management technique	Compulsory	Special program required.	2	1	2	----
Second year	Level 2 semester 2*	TRMI 212	Training for Radiology I	Compulsory	Special program required.	2	0	4	----

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
Third year	Level 3 , semester 1 **	TRMI 301	CT Technology I	Compulsory	Special program required.	3	1	4	----
Third year	Level 3 , semester 1 **	TRMI 302	Patient Safety and Management I	Compulsory	Special program required.	2	1	2	----
Third year	Level 3 , semester 1 **	TRMI 303	Radiology Information System	Compulsory	Special program required.	2	1	2	----
Third year	Level 3 , semester 1 **	TRMI 304	Contrast Media	Compulsory	Special program required.	2	1	2	----

Third year	Level 3 , semester 1 **	TRMI 305	Maintenance of Medical Equipment in Radiology	Compulsory	Special program required.	2	1	2	----
Third year	Level 3 , semester 1 **	TRMI 306	Total Quality Management in the Radiology Field	Compulsory	Special program required.	2	1	2	----
Third year	Level 3 , semester 2 **	TRMI 307	Dental Radiology	Compulsory	Special program required.	2	1	2	----
Third year	Level 3 , semester 2 **	TRMI 308	CT technology II	Compulsory	Special program required.	3	2	2	----
Third year	Level 3 , semester 2 **	TRMI 309	Patient Safety and Management II	Compulsory	Special program required.	2	1	2	----
Third year	Level 3 , semester 2 **	TRMI 310	Ethical and Legal Issues	Compulsory	Special program required.	2	1	2	----
Third year	Level 3 , semester 2 **	TRMI 311	Bone Densitometry Techniques	Compulsory	Special program required.	3	2	2	----
Third year	Level 3 , semester 2 **	TRMI 312	Training for Radiology II			2	0	4	---

Academic Level	Semester	Course Code	Course Title	Course Type (Compulsory / Elective)	Requirement Category/ Type	Number of Credit Hours/ Points	Number of Weekly Hours		
							Theoretical teaching	Practical training	Other
Fourth year	Level 4 , semester 1 **	TRMI 401	MRI Technology I	Compulsory	Special program required.	3	2	2	----
Fourth year	Level 4 , semester 1 **	TRMI 402	Radiation Techniques I	Compulsory	Special program required.	3	2	2	----

Fourth year	Level 4 , semester 1 **	TRMI 403	Interventional & Cardiovascular Radiation Techniques I	Compulsory	Special program required.	3	1	4	----
Fourth year	Level 4 , semester 1 **	TRMI 404	Pediatric Imaging Techniques	Compulsory	Special program required.	2	1	2	----
Fourth year	Level 4 , semester 1 **	TRMI 405	Infection Control and Radiation Protection	Compulsory	Special program required.	2	1	2	----
Fourth year	Level 4 , semester 2 **	TRMI 407	MRI Technology II	Compulsory	Special program required.	3	2	2	----
Fourth year	Level 4 , semester 2 **	TRMI 408	Radiation Techniques II	Compulsory	Special program required.	3	2	2	----
Fourth year	Level 4 , semester 2 **	TRMI 409	Interventional & Cardiovascular Radiation Techniques II	Compulsory	Special program required.	3	1	4	----
Fourth year	Level 4 , semester 2 **	TRMI 410	Research Project for Radiation & Medical imaging Technologist	Compulsory	Special program required.	3	1	4	----
Fourth year	Level 4 , semester 2 **	TRMI 411	Training for Radiology III	Compulsory	Special program required.	2	0	4	----

The institute's elective requirement is 1 course distributed across first level

Course	Code	Contact Hours			
		Credit Hour	L	P	T
Communication	BI 104	2	2	-	-
Principal of Management	BI 105	2	2	-	-
Introduction to Quality	BI 106	2	2	-	-
Occupational Health & Safety	BI 107	2	2	-	-

Elective Requirement one course is 2 hours: *

The institute's elective requirement is 4 courses distributed across the second, third and fourth levels

Course	Code	Credit Hour	Contact Hours		
			L	P	T
Basic Nutrition	AHTE BN	2	1	-	2
Bio statistics	AHTE BS	2	1	-	2
Accounting principles	AHTE AP	2	1	-	2
Basic of marketing management	AHTE BMM	2	1	-	2
Logistics and supply chain management	AHTE LSCM	2	1	-	2
Health education	AHTE HE	2	1	-	2
Health informatics	AHTE HI	2	1	-	2
Scientific Writing	AHTE SW	2	1	-	2

*For level 2: No elective course.

** For levels 2 & 3 & 4: Every student will choose one elective course from these courses.

4. Academic Standards

- Adopted Academic Standards (ARS): 12-6-2024 (ANNEX: III)

* When adopting ARS: The matrix of the academic reference standards (ARS) with the national academic reference standards (NARS) must be attached

- Date of Adoption of Standards in the Academic Council: 25-9-2024

* Decision/Minutes of the academic Council to be attached (ANNEX: IV)

5. Matrix of Academic Standards (Program Outcomes POs) with Courses

6. Teaching and Learning strategies/methods to achieve Program Outcomes:

Interactive Lectures

Discussion and brainstorming

Case study /problem solving

Asynchronous learning

Self-Directed Learning (SDL):

presentation, reports

Practical Learning

7. Student Assessment strategies/methods to verify and ensure students' acquisition of Program Outcomes:

1. Midterm: Written (MCQ, short questions)
2. Assignments and Preparation presentations
3. Practical examination
4. Final written exam.

8. Program Key Performance Indicators (if any)

No.	Performance Indicator	Target Level	Method	Measurement
1.	Student Satisfaction with the program	$\geq 85\%$	Survey	Annual
2.	Measuring the graduation rate	$\geq 80\%$	Employer feedback forms	Every year
3.	Course path rate	$\geq 80\%$	Exams	Per semester
4.	Research projects	$\geq 90\%$	Scoring system	Annual

Name & Signature
Program Coordinator

Name & Signature
Vice Dean for Education and Student Affairs

Dr/ Amira Atef

Dean: Prof.Omar Elshorbagy

د. أميرة عاطف

Prof. Omar Elshorbagy

ANNEX: I



High Technology Institute of Applied Health Sciences

Academic Reference Standards (ARS)

For

Technology of Radiology and Medical Imaging Program

B. Sc Program

High Technology Institute of Applied Health Sciences

(Badr)

July,2025

1st edition

Contents

Items	Page #
Introduction	2
Academic Reference Standards (ARS) for Technology of Radiology and Medical Imaging Technology	3
Attributes of the Graduates	3
Competencies of the Graduates of Technology of Radiology and Medical Imaging	4
Glossary	9
References	10
Matrix Of Courses and Competencies	11

Introduction:

The Academic Reference Standards (ARS) for the Bachelor of Science in Technology of Radiology and Medical Imaging aims are consistent with the Institute's mission and the community. The Radiology and Medical Imaging Technologist program aims to prepare well-educated, fully competent, and highly motivated medical imaging technologists.

Radiological technologists perform a variety of radiographic techniques under the supervision of a licensed physician. Radiographers prepare patients for imaging; position patients accurately, operate the equipment, and use their knowledge and skills to minimize the radiation dose to the patient. Radiological technologists are usually employed in radiographic imaging and assist radiologists with diagnostic procedures.

NAQAAE supports the autonomy and academic freedom of educational institutions and acknowledges the diversity of their missions; hence, institutions are invited to consider adopting reference points that reflect their mission

Four competence domains are included in the competence-based academic reference standards for Technology of Radiology and Medical Imaging program specialists. Program to integrate the knowledge of the Technology of Radiology and Medical Imaging program specialists with other learning outcomes, aiming at standardizing the role of graduates within the healthcare field

**Academic Reference Standards
(ARS) for
Technology of Radiology and Medical Imaging Program**

Attributes of the Graduates

The graduate of the Bachelor of Science in Technology of Radiology and Medical Imaging program should be able to:

1. Apply foundational knowledge of basic, applied, and specialized health sciences to radiology and medical imaging.
2. Adhere to radiation safety principles, quality assurance protocols, and infection control standards in all radiographic environments.
3. Perform imaging procedures across multiple modalities.
4. Interpret anatomical structure, pathological findings, and imaging data utilizing radiological information systems.
5. Recognize and respond to adverse reactions and urgent scenarios.
6. Communicate and collaborate effectively with all healthcare teams in multidisciplinary settings.
7. Ensure patient confidentiality, comfort, preparation, and ethical standards in all radiology procedures.
8. Conduct research, demonstrate diagnostic reasoning, critical thinking, problem-solving, and stay updated with global trends, innovations, and best practices in radiology diagnostics.

9. Encourage self-development, continuous education, and life-long learning.

Competencies of the Graduates of Technology of Radiology and Medical Imaging Program

Four competence-domains are included in this competence-based Academic Reference Standards for **Technology of Radiology and Medical Imaging Program** to integrate the knowledge of medical imaging technology, aiming at standardizing the role of graduates within the healthcare field.

Domain 1: Basic Capabilities

1.1- Competency: Integrate essential basic capabilities required to develop health sciences competence.

Sub- competency

- 1.1.1- Integrate knowledge of basic health sciences, human anatomy, physiology, and the physical principles of medical imaging technologies to establish a foundation for radiological practice.
- 1.1.2- Apply technical knowledge of imaging procedures, contrast media, and interventional techniques to produce diagnostic images.

1. 2- Competency: Utilize information and technology to support health care delivery, communicate, manage information, and support decision making.

Sub- competency:

1.2.1. Operate and utilize radiological information systems to manage patient data and support clinical decision-making.

1.2.2. Apply evidence-based practice and analytical skills to manipulate and evaluate imaging data.

1.3- Competency: Implement organizational and quality strategies to achieve the ultimate goals of care improvement.

Sub- competency:

1.3.1. Execute foundational quality control procedures to ensure the accuracy and reliability of medical imaging equipment and results.

1.3.2. Participate in systematic quality management and audit processes to support accreditation and service improvement.

1.3.3. Contribute to the development and enhancement of quality systems within the medical radiology department.

Domain 2: Professional and Ethical Practice

2.1- Competency: Work collaboratively as a member of the inter-professional health team.

Sub- competency:

2.1.1. Practice within a framework of professional, ethical, and legal standards.

2.1.2. Employ effective, adaptive, and culturally sensitive communication.

2.1.3. Establish and maintain professional collaboration with the healthcare team members to improve patient outcomes

2.2- Competency: Demonstrate safe and effective radiology and medical imaging practice.

Sub- competency:

2.2.1. Ensure a safe environment by adhering to infection control protocols, biosafety regulations, and safe equipment operation practices.

2.3- Competency: Conduct research work effectively and efficiently.

Sub- competency:

2.3.1 Conduct and manage research by applying scientific methods to design studies, analyze medical imaging data, and interpret findings.

Domain 3: Specialized healthcare for Radiology and Medical Imaging Technology

3.1- Competency: Apply the proper principles in managing technical radiology and medical imaging practices.

Sub- competency:

3.1.1. Execute and Ensure Quality in Diagnostic and Interventional Imaging Procedures and Therapeutic Nuclear Medicine and Radiotherapy techniques.

3.1.2. Manage Workflow and Operational Efficiency.

3.2- Competency: Provide advising services and adequate preparation required to achieve radiology and medical Imaging procedures.

Sub- competency:

3.2.1. Educate and Develop Patients and Junior Staff

3.2.2. Coordinate Multidisciplinary Team and Workflow

3.2.3. Apply patient preparation, care, and aftercare and delivery systems for contrast examinations, Radiotherapy, and therapeutic Nuclear Medicine fields.

3.2.4- Implement appropriate physical and psychological preparation measures such as fasting instructions, contrast administration protocols, and anxiety reduction strategies in accordance with established clinical guidelines.

Domain 4: Personal Practice.

4.1- Competency: Express leadership, time management, critical thinking, problem solving, independent and team working, creativity, and entrepreneurial skills.

Sub- competency:

- 4.1.1. Lead team efforts to prioritize tasks, manage timelines, and achieve objectives efficiently
- 4.1.2. Analyze challenges critically to deconstruct problems, evaluate options, and implement effective decisions.
- 4.1.3. Take initiative to solve complex problems with creativity and resourcefulness.

4.2- Competency: Effectively communicate with individuals and communities.**Sub- competency:**

- 4.2.1- Communicate effectively with all healthcare teams.
- 4.2.2- Apply clear and culturally sensitive communication techniques to ensure that patients, families, and community members understand the purpose, process, and implications of radiology and imaging procedures.

4.3- Competency: Express self-awareness and be a life-long learner for continuous professional improvement.**Sub- competency:**

- 4.3.1. Develop and implement a personalized improvement plan based on regular self-assessment and identify knowledge gaps.

Glossary

Competency

An observable ability of a professional, integrating multiple components such as knowledge, skills, values, and attitudes. Since competencies are observable, they can be measured and assessed to ensure their acquisition.

Competency framework

An organized and structured representation of a set of interrelated and purposeful competent objects.

Competency-based education

An outcomes-based approach to the design, implementation, assessment of learners, and the evaluation of education programs, using an organizing framework of competencies.

Graduate Attributes

Characteristics, qualities, attitudes and dispositions that graduates should possess upon completion of a particular program.

Intended Learning Outcomes (ILOs)

Subject-specific knowledge, understanding and skills intended by the institution to be gained by the learners completing a particular educational activity. The ILOs emphasize what is expected that learners will be able to do as a result of a learning activity.

National Academic Reference Standards (NARS)

Reference points defined by NAQAAE to outline/describe the expected minimum competencies to fulfill the requirements of a program of study.

Academic Standards

Reference points prescribed (defined) by an institution comprising the collective outcomes / competencies to be gained by the graduates of a particular program. The academic standards should surpass the NARS, and be approved by NAQAAE.

National Qualifications Framework (NQF)

A framework that provides a systematic description of all qualifications within the educational systems of the state and categorizes them according to a set of standards that determine the level of learning outcomes for each qualification gained. The NQF is used as a tool for benchmarking, quality assurance, comparison and coordination between the different qualifications.

The Program

A set of educational courses and activities designed by the institution to determine the systematic learning progress. The program also imparts the intended competencies required for the award of an academic degree.

References

[1] National Authority for Quality Assurance and Accreditation of Education “NAQAAE” (2009) National Academic Reference Standards (NARS) Basic Sciences January 2009 1st Edition

[The National Authority for Quality Assurance and Accreditation | Publications & Templates](#)

Matrix of Competencies and Courses

Competency	Courses	
Domain 1: Basic Capabilities		
1.1- Competency: Integrate essential basic capabilities required to develop health sciences competence.		
Sub- competency		
1.1.1- Integrate knowledge of basic health sciences, human anatomy, physiology, and the physical principles of medical imaging technologies to establish a foundation for radiological practice.	General Physics Physical Chemistry General Microbiology Basic histology Mechanics Mechatronics General Pathology Basic Anatomy Basic Physiology Human Anatomy for Radiology Technologist I&II Pathology I&II	AHST 101 AHST 102 AHST 103 AHST 104 AHST 105 AHST 107 AHST 201 AHST 106 AHST 109 TRMI 204+209 TRMI 205+210

1.1.2- Apply technical knowledge of imaging procedures, contrast media, and interventional techniques to produce diagnostic images.	<ul style="list-style-type: none"> -Nuclear Physics I &II -Pathology I&II -Image Management Technique -CT Technology I &II -MRI Technology I&II - Bone Densitometry Techniques - Introduction to Radiology Techniques – Plain Radiographic Techniques I&II <ul style="list-style-type: none"> - Ultrasound - Contrast media - Radiation techniques I&II - Pediatric imaging - Dental radiology - Interventional and cardiovascular techniques I&II 	TRMI 201+207 TRMI 205+210 TRMI 211 TRMI 301 +308 TRMI 401 +407 TRMI 311 TRMI 203 TRMI 202+208 TRMI 206 TRMI 304 TRMI 402+408 TRMI 404 TRMI 307 TRMI 403+409
1. 2- Competency: Utilize information and technology to support health care delivery, communicate, manage information, and support decision making.		
Sub- competency		
1.2.1. Operate and utilize radiological information systems to manage patient data and support clinical decision-making.	Basic computer science Image management Radiation Information System	BI 103 TRMI 211 TRMI 303
1.2.2. Apply evidence-based practice and analytical skills to manipulate and evaluate imaging data.	Basic statistics Biostatistics Health Informatics	AHST 108 AHTE BS AHTE HI

1.3- Competency: Implement organizational and quality strategies to achieve the ultimate goals of care improvement.		
Sub- competency		
1.3.1- Execute foundational quality control procedures to ensure the accuracy and reliability of medical imaging equipment and results.	Introduction to quality Total Quality Management	BI 106 TRMI306
1.3.2- Participate in systematic quality management and audit processes to support accreditation and service improvement.	Occupational Health & Safety Total Quality Management Infection control & radiation protection	BI 107 TRMI306 TRMI 405
1.3.3- Contribute to the development and enhancement of quality systems within the medical radiology department.	Total Quality Management Health education Training	TRMI306 AHTE HE TRMI212+312+411
Domain 2: Professional and Ethical Practice		
2.1- Competency: Work collaboratively as a member of the inter-professional health team.		
Sub- competency		
2.1.1- Practice within a framework of professional, ethical, and legal standards.	Communication Basic of marketing management	BI 104 AHTE BMM
2.1.2- Employ effective, adaptive, and culturally sensitive communication.	Communication Ethical & legal issues	BI 104 TRMI 310
2.1.3- . Establish and maintain collaboration in a professional manner with the healthcare team members to improve patient outcomes.	Ethical & legal issues Training Research project	TRMI 310 TRMI212+312+411 TRMI 410

2.2- Competency: Demonstrate safe and effective Radiology and medical imaging practice.		
Sub- competency		
2.2.1- Ensure a safe environment by adhering to infection control protocols, biosafety regulations, and safe equipment operation practices.	Occupational Health & Safety Infection control & radiation protection Patient safety & Management I&II Maintenance of medical equipment in radiology	BI 107 TRMI 405 TRMI 302+309 TRMI 305
2.3- Competency: Conduct research work effectively and efficiently.		
Sub- competency		
2.3.1. Conduct and manage research by applying scientific methods to design studies, analyze medical imaging data, and interpret findings.	Training I&II&III Scientific writing Research project	TRMI212+312+411 AHTE SW TRMI 410
Domain 3: Specialized healthcare for Radiology and medical imaging technology		

3.1- Competency: Apply the proper principles in managing technical Radiology and medical imaging practices.		
Sub- competency		
3.1.1- Execute and Ensure Quality in Diagnostic and Interventional Imaging Procedures and Therapeutic Nuclear Medicine and Radiotherapy techniques.	<ul style="list-style-type: none"> -CT Technology I &II -MRI Technology I&II - Bone Densitometry Techniques – Plain Radiographic Techniques I&II - Ultrasound - Radiation techniques I&II - Pediatric imaging - Dental radiology - Interventional and cardiovascular techniques I&II - Contrast media - Nuclear Physics I &II - Image Management Technique 	TRMI 301 +308 TRMI 401 +407 TRMI 311 TRMI 202+208 TRMI 206 TRMI 402+408 TRMI 404 TRMI 307 TRMI 403+409 TRMI 304 TRMI 402+408 TRMI 211
3.1.2 Manage Workflow and Operational Efficiency.	<ul style="list-style-type: none"> - Training I&II&III - Radiation Information System - Patient safety & Management I&II 	TRMI212+312+411 TRMI 303 TRMI 302+309

3.2- Competency: Provide advising services and adequate preparation required to achieve the Radiology and medical imaging procedures.		
Sub- competency		
3.2.1- Educate and Develop Patients and junior Staff.	Training I&II&III	TRMI212+312+411
3.2.2- Coordinate Multidisciplinary Team and Workflow.	Health education Training I&II&III	AHTE HE TRMI212+312+411
3.2.3- Apply patient preparation, care, and aftercare and delivery systems for contrast examinations, Radiotherapy, and therapeutic Nuclear Medicine fields.	Health education Human rights English language	AHTE HE BI 102 BI 101
3.2.4- Implement appropriate physical and psychological preparation measures such as fasting instructions, contrast administration protocols, and anxiety reduction strategies in accordance with established clinical guidelines.	Training I&II&III Research project	TRMI212+312+411 TRMI 410
Domain 4: Personal Practice.		
4.1- Competency: Express leadership, time management, critical thinking, problem solving, independent and teamwork, creativity, and entrepreneurial skills.		
Sub- competency		
4.1.1- Lead team efforts to prioritize tasks, manage timelines, and achieve objectives efficiently.	Basis of marketing management Logistic & supply chain management	AHTE BMM AHTE LSCM

4.1.2- Analyze challenges critically to deconstruct problems, evaluate options, and implement effective decisions.	Biostatistics Training I&II&III Research project	AHTE BS TRMI212+312+411 TRMI 410
4.2- Competency: Effectively communicate with individuals and communities.		
Sub- competency		
4.2.1- Communicate effectively with all healthcare team.	Communication Training I&II&III	BI 104 TRMI212+312+411
4.2.2- Apply clear and culturally sensitive communication techniques to ensure that patients, families, and community members understand the purpose, process, and implications of radiology and imaging procedures.	Training I&II&III	TRMI212+312+411
4.3- Competency: Express self-awareness and be a life-long learner for continuous professional improvement.		
Sub- competency		
4.3.1- Develop and implement a personalized improvement plan based on regular self-assessment and identified knowledge gaps.	Training I&II&III	TRMI212+312+411

ANNEX: II

Ministry of Higher Education
The Higher Institute of Applied Health Sciences



وزارة التعليم العالي
المعهد التكنولوجي العالي للعلوم الصحية التطبيقية

محضر اجتماع المجلس الأكاديمي للمعهد الجلسه رقم (1) للعام الجامعي 2024/2023 بتاريخ 2023/ 9 /20

اجتمع مجلس إدارة المعهد العالي للعلوم الصحية التطبيقية بمقر المعهد بمدينة بدر الساعة العاشرة صباحاً يوم الاربعاء الموافق 2023/9/20 ، برئاسة أ د / عمر السيد الشوريجي عميد المعهد وبحضور السادة :

أ.د/ عبدالباري برنس حسين	قائم باعمال وكيل المعهد لشئون التعليم و الطلاب
د/ شيماء محمد فهم	قائم باعمال وكيل المعهد لشئون خدمة المجتمع و البحوث
د/ هبة الله محمد لطفى	قائم باعمال رئيس قسم المختبرات الطبية
د/ أميرة عاطف محمود	قائم باعمال رئيس قسم الأشعة والتصوير الطبى
د/ احمد السيد عبد المنعم علوان	قائم باعمال رئيس قسم تركيبات الاسنان
د/ دينا شريف الكحكي	مدير وحدة ضمان الجودة
د/ اية عبد الحكيم سعيد	مدرس
د/ رجاء سعيد حسين	مدرس
المهندسة/ اسماء محمد احمد عمران	نائب رئيس جهاز مدينة بدر- ممثلا للاطراف المجتمعية

وناقش المجلس الموضوعات الآتية :

الموضوع الاول : التصديق على محضر الجلسة السابقة.

القرار : تم التصديق على محضر الجلسة السابقة.

الموضوع الثانى : تفويض عميد المعهد فى ايقاف واعادة قيد و قبول الاعذار الطبيه للطلاب بالمعهد .

القرار : فوض المجلس أ.د/ عمر السيد الشوريجي ، عميد المعهد فى ايقاف قيد و

اعادة قيد و قبول الاعذار الطبيه للطلاب ومتابعة سير العملية التعليمية بالمعهد للعام الجامعى .

الموضوع الثالث : عرض توصيف البرامج والمقررات للعام الدراسى .

القرار : تم العرض والموافقة والاعتماد .

الموضوع الرابع : تكليف وتحديد مهام منسقى برامج المعهد الثلاثة.

القرار : تمت العرض والمناقشة والموافقة.

الموضوع الخامس : عرض ومناقشة دليل التدريب للطلاب.

القرار : تمت العرض والمناقشة والموافقة والاعتماد.

الموضوع السادس : عرض تحديث الهيكل التنظيمى للمعهد والتوصيف الوظيفى للوظائف المختلفة بالمعهد.

القرار : تم عرض الهيكل التنظيمى المحدث للمعهد والتوصيف الوظيفى وتم الموافقة والاعتماد .

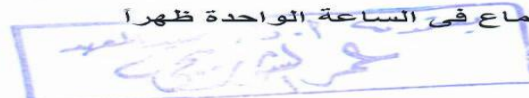
الموضوع السابع : عرض ومناقشة نتائج التقويم الذاتى للمعهد.

القرار : تمت العرض والمناقشة والموافقة .

وانتهى الاجتماع فى الساعة الواحدة ظهراً

يعتمد عميد المعهد

أ د / عمر السيد الشوريجي



ANNEX: III



محضر اجتماع المجلس الاكاديمي للمعهد الجلسه رقم (7) للعام الجامعي 2024/2023 بتاريخ 2024/ 6 /12

أجتمع مجلس إدارة المعهد العالي للعلوم الصحية التطبيقية بمقر المعهد بمدينة بدر الساعة العاشرة صباحاً يوم الاربعاء الموافق 2024/6/12 ، برئاسة أ د / عمر السيد الشوربجي عميد المعهد وبحضور السادة :

أ.د/ عبدالباري برنس حسين	قائم باعمال وكيل المعهد لشئون التعليم و الطلاب
د/ شيماء محمد فهم	قائم باعمال وكيل المعهد لشئون خدمة المجتمع و البحوث
د/ هبة الله محمد لطفى	قائم باعمال رئيس قسم المختبرات الطبية
د/ أميرة عاطف محمود	قائم باعمال رئيس قسم الأشعة والتصوير الطبى
د/ احمد السيد عيد المنعم علوان	قائم باعمال رئيس قسم تراكيبات الاسنان
د/ اية عبد الحكيم سعيد	مدير وحدة ضمان الجودة
أ/ أحمد رزق	ممثلاً للأطراف المجتمعية (مدير بالبنك التجارى الدولى)

وناقش المجلس الموضوعات الآتية :

الموضوع الاول : التصديق على محضر الجلسة السابقة.
القرار : تم التصديق على محضر الجلسة السابقة.

الموضوع الثانى : عرض المعايير الاكاديمية المتبناه لبرامج المعهد الثلاثة.

القرار : تمت المناقشة والموافقة والاعتماد .

الموضوع الثالث: عرض تحديث استراتيجيات التدريس والتعلم بالمعهد.

القرار : تمت المناقشة والموافقة والاعتماد

وانتهى الاجتماع فى الساعة الثانية عشر ظهراً

يعتمد عميد المعهد

أ د / عمر السيد الشوربجي



ANNEX: IV

Ministry of Higher Education The Higher Institute of Applied Health Sciences		وزارة التعليم العالي المعهد التكنولوجي العالي للعلوم الصحية التطبيقية
محضر اجتماع المجلس الأكاديمي للمعهد الجلسه رقم (1) للعام الجامعي 2025/2024 بتاريخ 2024/ 9 /25		
اجتمع مجلس إدارة المعهد العالي للعلوم الصحية التطبيقية بمقر المعهد بمدينة بدر الساعة العاشرة صباحاً يوم الاربعاء الموافق 2024/9/25 ، برئاسة أ د / عمر السيد الشوريجي عميد المعهد وبحضور السادة :		
أ.د/ عبدالباري برنس حسين د/ شيماء محمد قهيم د/ هبة الله محمد لطفى د/ أميرة عاطف محمود د/ احمد السيد عبد المنعم علوان د/ دينا شريف الكحكي د/ اية عبد الحكيم سعيد د/ رجا سعيد حسين المهندسة/ اسماء محمد احمد عمران	قائم باعمال وكيل المعهد لشئون التعليم و الطلاب قائم باعمال وكيل المعهد لشئون خدمة المجتمع و البحوث قائم باعمال رئيس قسم المختبرات الطبية قائم باعمال رئيس قسم الأشعة والتصوير الطبى قائم باعمال رئيس قسم تركيبات الاسنان مدير وحدة ضمان الجودة مدرس مدرس نائب رئيس جهاز مدينة بدر- ممثلاً للأطراف المجتمعية	
وتم دعوة امين المعهد لمناقشة مواضيع معايير اداء الموارد البشرية وثيقة التقدير الكمي للمعهد. وتناقش المجلس الموضوعات الآتية : الموضوع الاول : التصديق على محضر الجلسة السابقة. القرار : تم التصديق على محضر الجلسة السابقة. الموضوع الثانى : عرض وثائق الدعم الطلابى. القرار : تمت المناقشة والاعتماد . الموضوع الثالث: عرض وثيقة التقدير الكمي للعام 2025/2024 بالمعهد. القرار : تم العرض والموافقة والاعتماد. الموضوع الرابع : عرض تحديث لائحة الكنترول. القرار : تمت العرض والموافقة والاعتماد . الموضوع الخامس: عرض معايير اداء الموارد البشرية. القرار : تم العرض والموافقة والاعتماد. الموضوع السادس: عرض توصيف البرامج والمقررات لبرامج المعهد. القرار : تم العرض والموافقة والاعتماد. وانتهى الاجتماع فى الساعة الثانية ظهراً		
يعمد عميد المعهد أ د / عمر السيد الشوريجي		