



Program Specification

Program Name: Bachelor in Radiological Sciences
Qualification Level: 6 th Level
Department: Department of Radiological Sciences
College: College of Applied Medical Sciences
Institution: Taif University

Content

A. Program Identification and General Information.....	3
B. Mission, Goals, and Learning Outcomes.	3
C. Curriculum.....	5
D. Student Admission and Support:	12
E. Teaching and Administrative Staff	13
F. Learning Resources, Facilities, and Equipment.....	14
G. Program Management and Regulations.....	14
H. Program Quality Assurance	16
I. Specification Approval Data	18

A. Program Identification and General Information

1. Program Main Location:		
King Abdul-Aziz Specialist Hospital Complex (Male and Female), Taif.		
2. Branches Offering the Program:		
N/A.		
3. Reasons for Establishing the Program:		
(Economic, social and cultural, technological reasons, national needs and development)		
First: Economic Reasons:		
Preparing professional radiological specialists with required knowledge and skills to participate effectively in achieving the objectives of the human capability development program and the pillars of the Kingdom's Vision 2030.		
Second: Social and Cultural Reasons:		
Endorsing partnerships with other health professionals to promote the health and well-being of society as well as developing a solid educational base for all citizens for the future labor market locally and globally.		
Third: Technological Reasons:		
Integrating modern technologies in the medical imaging field to keep pace with global developments.		
Fourth: National needs and Development:		
Meeting the national policy requirement to provide jobs for citizens in different health sectors.		
4. Total Credit Hours for Completing the Program: 171		
5. Professional Occupations/Jobs:		
1. Radiological Specialist (Classification of Human Resources and Social Development).		
2. Radiology Technician (The Saudi Standard Classification of Professions, version 1441 AH).		
3. Faculty member.		
4. Research scientist.		
6. Major Tracks/Pathways (if any): None.		
Major track/pathway	Credit hours (For each track)	Professional Occupations/Jobs (For each track)
N/A	N/A	N/A
7. Intermediate Exit Points/Awarded Degree (if any): None		
Intermediate exit points/awarded degree	Credit hours	
N/A	N/A	

B. Mission, Goals, and Learning Outcomes.

1. Program Mission:				
Prepare competent radiological specialists contributing to health services and scientific research for community development.				
2. Program Goals:				
G1. Graduates will have the ability to conduct radiological procedures and protocols (exam, program, patient care, and safety measures), analyze and interpret imaging and clinical data.				
G2. Graduates will be competent in communication, interpersonal and psychomotor skills.				
G3. Graduates will have basic research skills and contribute to community services.				
G4. Graduates will be prepared for careers in radiological sciences disciplines.				
3. Relationship between Program Mission and Goals, and the Mission and Goals of the Institution/College.				
Table 1: Mapping between Program Mission and Taif University Mission.				
Mission		Institution		
		Develop nationally competitive competencies (Education)	Contribute to the production of knowledge (Research)	Transformation into an engine for development (Community service)
Program	Preparing a competent radiological specialist	√		√
	Contributing to health services and scientific research		√	√
	Community development			√

Table 2: Mapping between Program Mission and College of Applied Medical Sciences Mission

Mission		College		
		National health competencies (Education)	Conduct Scientific research (Research)	Accordance to the needs of the community (Community service)
Program	Preparing a competent radiological specialist	√		√
	Contributing to health services and scientific research		√	√
	Community development			√

Table 3: Mapping between Program Goals and College of Applied Medical Sciences Goals.

Goals		College					
		Goal 1	Goal 2	Goal 3	Goal 4	Goal 5	Goal 6
Program	Goal 1	√	√				
	Goal 2	√			√	√	√
	Goal 3	√		√		√	√
	Goal 4	√			√		

Table 4: Mapping between Program Goals and Taif University Goals.

Goals		Taif University					
		Goal 1	Goal 2	Goal 3	Goal 4	Goal 5	Goal 6
Improving the quality and outcomes of education			Effective participation of scientific research in community development	Effective participation in the provision and development of community services	Raising the efficiency of the administrative system	Raising the efficiency of human resources and infrastructure	Raising financial efficiency and development of self-resources
Program	Goal 1	√	√				
	Goal 2	√			√	√	√
	Goal 3	√		√		√	√
	Goal 4	√			√		

4. Graduate Attributes:

1. Communicate effectively and provide clear instructions to patients anticipating radiographic studies.
2. Apply radiation protection rules for safety procedures against unnecessary radiation exposure to the patient, self, health workers, and others.
3. Utilize the correct radiologic procedure according to the patient's condition to obtain high-quality images of relevant anatomy.
4. Perceive the spirit of teamwork with the radiologists and other health members to deliver optimal standards for medical imaging services.
5. Possess management skills for optimizing radiographic procedures and improving the quality assurance of radiology programs.
6. Practice ethically and professionally consistent with relevant legislation and regulatory requirements.
7. Use acquired expertise to promote the health and well-being of individuals, communities, and populations at all levels.

Consistency between program Graduate Attributes GA and TUGA

Graduate Attributes Program	Taif University										
	Learning and innovation skills			Information technology, media, and technical skills			Life and professional skills				
	1.1	1.2	1.3	2.1	2.2	2.3	3.1	3.2	3.3	3.4	3.5
GA-1		√	√			√	√		√	√	
GA-2		√	√	√			√				
GA-3	√	√	√	√		√	√	√	√	√	√
GA-4		√	√	√	√	√	√	√	√	√	√
GA-5		√	√		√	√			√	√	√
GA-6		√	√								√
GA-7	√	√	√	√	√	√	√	√	√	√	√

Consistency between program Graduate Attributes GA and PLOs										
Program Graduate Attributes	Program Learning Outcomes PLOS									
	Knowledge			Skills					Values	
	K-1	K-2	K-3	S-1	S-2	S-3	S-4	S-5	V-1	V-2
GA-1	√		√	√		√	√		√	√
GA-2		√	√		√			√	√	√
GA-3	√	√	√	√	√	√	√		√	√
GA-4			√			√		√	√	√
GA-5		√	√			√	√	√	√	√
GA-6			√			√	√	√	√	√
GA-7		√	√	√	√	√	√	√	√	√

5. Program Learning Outcomes

Knowledge and understanding

K1	Describe the relevant theories, principles, and basic concepts of medical imaging and radiation science.
K2	Identify the medical imaging instrumentations and radiation sciences.
K3	Recognize the principles of care and safety to the patient, self, colleagues, and public, and the recent developments in medical imaging and radiation sciences.
Skills	
S1	Perform the appropriate technique according to the patient's condition.
S2	Practice methods of medical radiation science inquiry, investigation, and research for safe handling of complex issues and problems.
S3	Analyze informed decisions about clinical practice within the accepted departmental protocols.
S4	Demonstrate medical radiology procedures in a skilled and safe way.
S5	Operate medical imaging instrumentations properly using quality control tests.
Values	
V1	Commit to the Islamic, ethical, and professional standards during medical radiology practice.
V2	Work collaboratively and constructively with the patient and other health staff.

* Add a table for each track and exit Point (if any).

Consistency between PLOs and Program Goals

Program Graduate Attributes	Program Learning Outcomes PLOS									
	Knowledge			Skills					Values	
	K-1	K-2	K-3	S-1	S-2	S-3	S-4	S-5	V-1	V-2
Goal 1	√	√	√	√	√	√	√	√	√	√
Goal 2				√	√	√	√	√	√	√
Goal 3			√		√				√	√
Goal 4	√	√	√	√	√	√	√	√	√	√

C. Curriculum

1. Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	11	22	12.8 %
	Elective	0	-	-
College Requirements	Required	6	21	12.2 %
	Elective	0	-	-
Program Requirements	Required	33	98	57.3 %
	Elective	0	-	-
Capstone Course/Project	-	0	-	-
Field Experience/ Internship	-	1	30	17.5 %
Others	-	-	-	-
Total		51	171	100%

* Add a table for each track (if any).

2. Program Study Plan

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	370113-3	Medical Statistics	Required	-	3	College
	370213-3	Medical Physics	Required	-	3	College
	990311-2	University Study Skills	Required	-	2	Institution
	999805-2	Intensive English Intensive 1 IEAP1	Required	-	2	Institution
Level 2	370111-4	Medical Biology (1)	Required	-	4	College
	370112-3	Medical Chemistry (1)	Required	-	3	College
	990111-2	Fundamentals of Islamic Culture	Required	-	2	Institution
	999806-2	Intensive English Intensive 2 IEAP2	Required	-	2	Institution
Level 3	990211-2	Arabic Language Skills	Required	-	2	Institution
	370211-4	Medical Biology (2)	Required	Medical Biology (1)	4	College
	370212-4	Medical Chemistry (2)	Required	Medical Chemistry (1)	4	College
	999807-2	English for Specific Purposes ESP	Required	-	2	Institution
Level 4	374210-4	Human Anatomy	Required	Medical Biology (2)	4	Program
	374211-2	Radiation Physics	Required	Medical Physics	2	Program
	374212-2	Radiation Protection and Dosimetry	Required	Medical Physics	2	Program
	374216-2	Patient Care and Ethics in Radiology	Required	-	2	Program
	374217-2	Digital Image Acquisition and Display	Required	Medical Physics	2	Program
Level 5	374224-4	Physiology	Required	Medical Biology (2)	4	Program
	374221-4	General Radiographic Techniques and Radiographic Anatomy (1)	Required	<ul style="list-style-type: none"> Human Anatomy Digital Image Acquisition and Display 	4	Program
	105115-2	History of the Kingdom	Required	-	2	Institution
	999814-2	English	Elective	-	2	Institution
Level 6	374222-3	Computerized Tomography Physics and Instrumentation	Required	Radiation Physics	3	Program
	374226-3	Diagnostic Radiography Instrumentation	Required	-	3	Program
	374313-4	General radiographic Techniques and Radiographic Anatomy (2)	Required	General radiographic Techniques and Radiographic Anatomy (1)	4	Program
	990112-2	Islamic Culture (Morals and Values)	Required	-	2	Institution
Level 7	374314-4	Pathology	Required	Physiology	4	Program
	374317-3	Computerized Tomography Imaging Techniques	Required	<ul style="list-style-type: none"> Computerized Tomography Physics and Instrumentation Pathology 	3	Program
	374318-3	Clinical practice in Radiography (1)	Required	<ul style="list-style-type: none"> Patient care and ethics in radiology 	3	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
				<ul style="list-style-type: none"> General Radiographic Techniques and Radiographic Anatomy (1) Diagnostic Radiography Instrumentation 		
	990313-2	Islamic culture 3	Required		2	Institution
Level 8	374227-2	Radiation biology	Required	Radiation Protection and Dosimetry	2	Program
	374322-3	Nuclear Medicine Physics and Instrumentation	Required	Diagnostic Radiography Instrumentation	3	Program
	374312-3	Ultrasound Physics and Instrumentation	Required	Diagnostic Radiography Instrumentation	3	Program
	374329-2	Basics of Radiotherapy	Required	Radiation biology	2	Program
	990414-2	Islamic culture 4	Required	-	2	Institution
Level 9	374316-3	Special Radiographic Techniques	Required	Diagnostic Radiography Instrumentation	3	Program
	374323-3	Ultrasound Imaging Techniques	Required	<ul style="list-style-type: none"> Ultrasound Physics and Instrumentation Pathology 	3	Program
	374328-3	Clinical Practice in Radiography (2)	Required	General radiographic Techniques and Radiographic Anatomy (2)	3	Program
	374413-3	Magnetic Resonance Imaging Physics and Instrumentation	Required	Diagnostic Radiography Instrumentation	3	Program
Level 10	374324-2	Research Methodology	Required	Clinical practice in Radiography 1	2	Program
	374412-3	Nuclear Medicine Imaging Techniques	Required	<ul style="list-style-type: none"> Nuclear Medicine Physics and Instrumentation Pathology 	3	Program
	374411-3	Magnetic Resonance Imaging Techniques	Required	<ul style="list-style-type: none"> Pathology Magnetic Resonance Imaging Physics and Instrumentation 	3	Program
	374415-4	Advanced Clinical Practice (1)	Required	<ul style="list-style-type: none"> Computerized Tomography Imaging Techniques Ultrasound Imaging Techniques 	4	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
				<ul style="list-style-type: none"> Clinical Practice in Radiography (2) 		
Level 11	374426-6	Research Project	Required	<ul style="list-style-type: none"> Research Methodology Advanced Clinical Practice (1) 	3	Program
	374327-2	Medical Image Interpretation (1)	Required	<ul style="list-style-type: none"> Computerized Tomography Imaging Techniques Clinical Practice in Radiography (2) 	2	Program
	374424-3	Quality Management in Radiology	Required	<ul style="list-style-type: none"> Magnetic Resonance Imaging Techniques Nuclear Medicine Imaging Techniques Advanced Clinical Practice (1) 	3	Program
	374425-4	Advanced Clinical Practice (2)	Required	<ul style="list-style-type: none"> Nuclear Medicine Imaging Techniques Magnetic Resonance Imaging Techniques 	4	Program
Level 12	374421-3	Medical Imaging Interpretation (2)	Required	<ul style="list-style-type: none"> Ultrasound Imaging Techniques Medical Image Interpretation (1) Magnetic Resonance Imaging Techniques Nuclear Medicine Imaging Techniques 	3	Program
	374418-2	Radiotherapy Techniques	Required	Basics of Radiotherapy	2	Program
	374420-2	Neuroscience and Neuroimaging	Required	<ul style="list-style-type: none"> Magnetic Resonance Imaging Techniques 	2	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
				<ul style="list-style-type: none"> Nuclear Medicine Imaging Techniques 		
	374410-2	Interventional Radiology	Required	<ul style="list-style-type: none"> Special Radiographic Techniques Computerized Tomography Imaging Techniques Ultrasound Imaging Techniques 	2	Program
Level 13	3745931-10	Internship (1)	Required	Must complete all the program courses before registering the internship period	10	Program
Level 14	3745932-10	Internship (2)	Required		10	Program
Level 15	3745933-10	Internship (3)	Required		10	Program

* Include additional levels if needed

** Add a table for each track (if any)

3. Course Specifications

Insert hyperlink for all course specifications using NCAAAA template

https://taifedusa-my.sharepoint.com/:f:/g/person/neven_h_tu_edu_sa/Esg-EYqJSjNJhgUA07Y9fToBGLFpKGcUj5rJPGiyXuOiAg?e=Z8c1nQ

4. Program learning Outcomes Mapping Matrix

Align the program learning outcomes with program courses, according to the following desired levels of performance (**I** = **Introduced** **P** = **Practiced** **M** = **Mastered**)

* Add a table for each track (if any)

Course code & No.	Program Learning Outcomes									
	Knowledge and understanding			Skills					Values	
	K-1	K-2	K-3	S-1	S-2	S-3	S-4	S-5	V-1	V-2
370111-4	I	I	I							
370112-3	I	I	I							
990311-2	I	I	I							
999805-2	I	I	I							
370211-4	I	I	I							
370212-4	I	I	I							
990111-2	I	I	I							
999806-2	I	I	I							
990211-2	I	I	I							
370113-3	I	I	I							
370213-3	I	I	I							
999807-2	I	I	I							

374210-4	I	I	I	I	I					
374211-2	I		I		P					
374212-2	I		I		I			M		
374216-2			I	I					I	I
374217-2	I	I			M					
374224-4	I	I	I	I						
374221-4		I	P	P			P			
105115-2										
999814-2	I	I	I							
374222-3	I	I			P			P		
374226-3		I						M		
374313-4		I	P	P			P			
990112-2	I	I	I							
374314-4				M	M	M			P	
374317-3	I			P			P			M
374318-3				P	P	P	P	P	M	M
990313-2	I	I	I							
374227-2	I	I	I	M						
374322-3	I	I	I		M	M			P	
374312-3	I	I	M					P	M	
374329-2	I	I						M		
990414-2	I	I	I							
374316-3		I	P		P		P			
374323-3	I		M	P					M	
374328-3				P	P	P	P	P	M	M
374413-3	I	I	M		I	I			I	
374324-2	I		M		P	P			M	
374412-3	I	I		M		M			P	
374411-3				M	M	M			P	
374415-4				P	P	P	P	P	M	M
374426-6	M	M		P	P					
374327-2	M						M		M	
374424-3	I	M						M		
374425-4				P	P	P	P	P	M	M
374421-3	M						M		M	
374418-2			I	M		M				
374420-2				M	M	M			P	
374410-2	I			M			M			

5. Teaching and learning strategies to achieve program learning outcomes

Describe policies, teaching and learning strategies, learning experience, and learning activities, including curricular and extra-curricular activities, to achieve the program learning outcomes.

- a. Lectures.
- b. Brainstorming.
- c. E-learning.
- d. Problem-solving.
- e. Small groups discussion.
- f. Problem-based learning.
- g. Group work (Collaborative Learning).
- h. Self-learning.
- i. Project-based learning.

Consistency matrix between program learning outcomes and teaching strategies

PLOs	Code	Teaching and Learning Strategies
Knowledge and understanding	K1	1. Lectures. 2. Brainstorming. 3. E-learning.
	K2	
	K3	
Skills	S1	1. Problem Solving. 2. Problem-based learning. 3. Small group discussion.
	S2	
	S3	
	S4	
	S5	
Values	V1	1. Collaborative Learning. 2. Self-learning. 3. Project-based learning.
	V2	

K: Knowledge, S: Skill, V: Value

6. Assessment Methods for program learning outcomes.

Describe assessment methods (Direct and Indirect) that can be used to measure achievement of program learning outcomes in every domain of learning.

Direct Methods:

1. Written exams (Quiz, midterm, final, exit, professional.....).
2. Electronic exams.
3. Long and short essays.
4. Case study.
5. Assignments (Long and short essays).
6. Discussion.
7. Laboratory activity.
8. Practical exam e.g., OSCE.
9. Practical report.
10. Presentation.
11. Poster.
12. Graduation projects.
13. Oral exams.

Indirect Methods:

Exit Surveys

Consistency matrix between program learning outcomes and assessment methods

PLOs	Code	Direct Assessment methods	Indirect Assessment Methods
Knowledge and understanding	K1	1. Quizzes. 2. Midterm exam. 3. Final exam. 4. Exit exam. 5. Professional exams.	Exit Survey
	K2		
	K3		
Skills	S1	1. Case study. 2. Assignments. 3. Discussion. 4. Laboratory activity. 5. Practical exam e.g., OSCE, OSPE 6. Practical report.	Exit Survey
	S2		
	S3		
	S4		
	S5		
Values	V1	1. Presentation. 2. Poster. 3. Graduation projects. 4. Oral exams.	Exit Survey
	V2		

K: Knowledge, S: Skill, V: Value

D. Student Admission and Support:

1. Student Admission Requirements:

Prerequisites for an online admission at Taif University:

1. The applicant must be a citizen or of a Saudi mother and a non-Saudi father.
2. Obtaining a high school diploma or its equivalent from inside or outside Saudi Arabia.
3. The applicant should not have been accepted before to study bachelor's degree program at Taif University.
4. The applicant's weighted average should not be less than 70%.
5. The University does not accept any university certificate that has passed 5 years since its issuance date.

Reference (<https://www.my.gov.sa/wps/portal/snp/servicesDirectory/serviceDetails/7975>).

2. Guidance and Orientation Program for New Students

The program provides a comprehensive orientation day for new students (both male and female) to ensure delivering a full understanding of all types of services and facilities available for them at the beginning of each academic semester and is performed whenever any new students are enrolled in the program as well. The orientation informs students about their rights and duties, the code of conduct, grievance, complaints, and discipline procedures.

By the end of the orientation, all students should be familiarized with the program's main identifications, study plan, teaching staff, job opportunities, and department plans. A student's guide booklet is prepared to be available as a handout.

The orientation program includes information and instructions regarding:

- learning resources such as the library and the digital knowledge databases.
- Safety rules and regulations.
- Studies and exam regulations.
- Students' academic counseling.
- Participating in community services and voluntary works.
- Participating in students' activities.

3. Student Counseling Services

(Academic, career, psychological and social)

The Academic Guidance Unit of the program provides student guidance services. It prepares the academic guidance plans per semester as well as annually for all students. Also, the unit assigns each student to an academic adviser who offers personal, academic, psychological, and professional counseling to support the academic, behavioral, emotional, psychological, and social growth of the student.

Some of the student counseling services include:

- Discuss the study plan with every student at the beginning of each semester to determine which courses are available and can be enrolled in.
- Clarify the various university regulations.
- Discovering the student talents.
- Implementing different correction methods in case of failure in any subject.

4. Special Support

(Low achievers, disabled, gifted and talented)

The Academic Guidance Unit of the program focuses on a special group of students who requires special support (e.g., low achievers, disabled, gifted, and talented students).

- Low achievers' students:

The academic advisor and the Academic Guidance Unit works collaboratively to plan on how to support the lower achievers. They facilitate meetings with the staff members in charge of teaching the course and provide struggling students with sufficient time to prepare for the test and/or nominate struggling students to enroll in the summer course.

- The distinguished and talented students.

The program, in cooperation with the Talented Student Unit in the Deanship of Student Affairs, prepares a database of excellent students to priori them in participation in all academic and research developments within the University. Also giving them the opportunity to be directed to the available jobs or advised to appropriate programs for postgraduate studies. Excellent students will have the priority of active participation in the University's internal and external events.

<https://1drv.ms/b/s!Atjwu6HV3Ub5n2uYsdpXxIKuKcD3?e=vqUs89>

E. Teaching and Administrative Staff

1. Needed Teaching and Administrative Staff

Academic Rank	Specialty		Special Requirements / Skills (if any)	Required Numbers		
	General	Specific		M	F	T
Professors	Radiological sciences or Radiologists	Neuroimaging	-	1	1	2
		Interventional radiology	-	1	1	2
		Nuclear or Molecular imaging	-	1	1	2
Associate Professors	Radiological sciences, Radiologist	Neuroimaging	-	1	1	2
		Interventional radiology	-	1	1	2
		Nuclear or Molecular imaging	-	1	1	2
		Radiation protection	-	1	1	2
Assistant Professors	Radiological sciences, Radiologists	US	-	2	1	3
		CT	-	2	1	3
		Nuclear	-	1	1	2
		MRI	-	0	1	1
		General Diagnostic Imaging	-	1	1	2
		Interventional	-	1	1	2
Lecturers	Radiological sciences	General Diagnostic Imaging	-	1	1	2
Teaching Assistants	Radiological sciences	General Diagnostic Imaging	-	1	1	2
		Interventional	-	1	1	2
		Neuroimaging	-	1	1	2
Technicians and Laboratory Assistants	Applied sciences	Applied sciences	-	2	0	2
Administrative and Supportive Staff	Secretary	-	-	1	0	1
Others (specify)	Diagnostic Imaging	Diagnostic Imaging	-	2	2	4

2. Professional Development

2.1 Orientation of New Teaching Staff

Describe briefly the process used for orientation of new, visiting, and part-time teaching staff:

- Orienting the new staff with the mission, goals and objectives of the program.
- Intended learning outcomes of the course.
- Variety of instructional technologies to be used, such as E-learning facility (Blackboard).
- Orienting the new staff with the annual assessment plan.
- Orienting the new staff to the workplace (offices, labs, classrooms, ...etc), team members (Radiological department, other departments teams and the administrative team) and provide them with an induction training.

2.2 Professional Development for Teaching Staff

Briefly describe the plan and arrangements for academic and professional development of teaching staff (e.g., teaching & learning strategies, learning outcomes assessment, professional development, etc.)

- Attendance and participation in workshops, seminars, and conferences (either held locally by Taif University or externally by other organizations).
- Activities focused on teaching and learning (e.g. held by e-training platform at Taif University (maharat.tu.edu.sa)).
- Effective use of instructional technologies.
- Course assessment and amendments.
- Analyze student performance data and identify student learning needs.
- Provide ongoing support for learning and implementation of new knowledge, skills, and processes.

- Design and implement staff development intervention(s) and evaluation.

F. Learning Resources, Facilities, and Equipment

1. Learning Resources.

The mechanism for providing and assuring the quality of learning resources (textbooks, references, and other resource materials, including electronic and web-based resources, etc.)

- The Saudi Digital Library (SDL) contains various learning materials and publications such as books, educational videos, scientific journals, and dissertations (<https://sdl.edu.sa/SDLPortal/Publishers.aspx>).
- The University Central library.
- A list of required books and textbooks is prepared and revised at the end of each academic year based on the suggestions of all staff members to be submitted to the Department Chair. It is further forwarded to the main committee responsible for the procurement of these learning resources.

2. Facilities and Equipment

(Library, laboratories, medical facilities, classrooms, etc.).

- The university's central library.
- Central laboratories.
- Central simulation laboratories.
- Classroom buildings.
- Radiology Department equipped with Digital X-ray.
- Ultrasound laboratory
- MRI and CT simulators.
- Computer laboratory.
- Radiation projection laboratory.
- Medical imaging equipment laboratory.
- Medical physics laboratory (X-ray, CT, MRI, and Ultrasound).
- Thermoluminescence dosimetry (TLD) readers laboratory.

3. Arrangements to Maintain a Healthy and Safe Environment (According to the nature of the program)

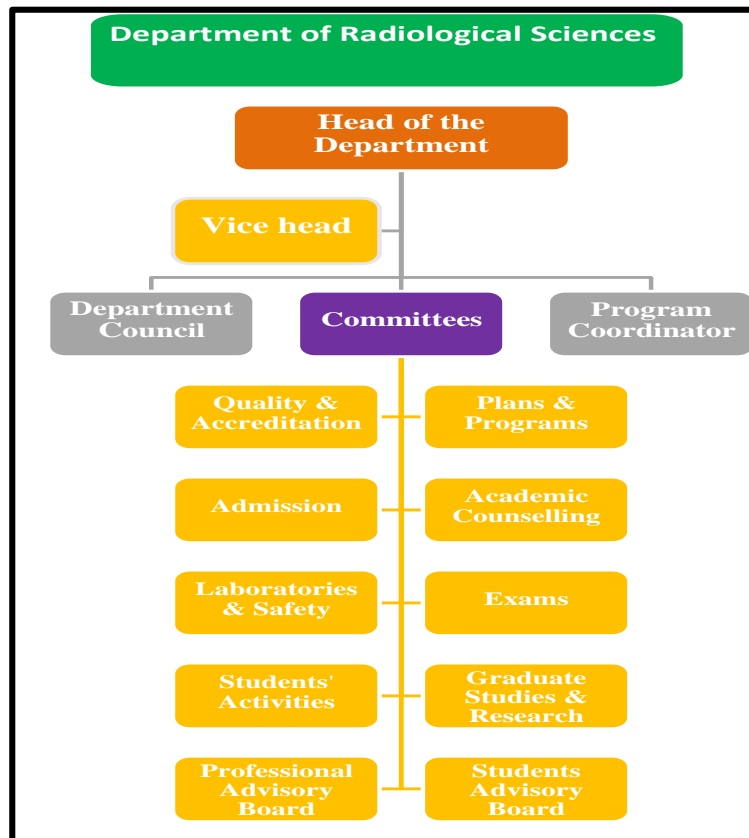
- Providing staff and students with TLDs to monitor the radiation dose rate.
- Providing lead aprons to protect the staff and students from radiation.
- Instructional signs.
- Lead shielding for the X-ray room walls.
- Electrical and fire safety precautions.

G. Program Management and Regulations

1. Program Management

1.1 Program Structure

(Including boards, councils, units, committees, etc.)



1.2 Stakeholders Involvement

Describe the representation and involvement of stakeholders in the program planning and development. (Students, professional bodies, scientific societies, alumni, employers, etc.)

Participation of stakeholders varies from being surveyed for the vision, mission, and graduate attributes, to responding to questionnaires regarding various aspects of the teaching process and college facilities.

The program held at least one meeting each semester for the following boards:

- **The Professional Advisory Board:** where professional bodies, scientific societies, and employers are involved in the department plans that serve the student, society and improve the quality of life for all citizens.
- **The Student Advisory Board:** where the nominated students' leaders from every academic level are involved in planning and developing the program effectively.

2. Program Regulations

Provide a list of related program regulations, including their link to online version: admission, study, exams, recruitment, appeals and complaint regulations, etc.)

1. [Academic program design and Development Guide at Taif University](#)
2. [Quality Management System Guide at Taif University](#)
3. [Guide to education, learning and evaluation strategies at Taif University](#)
4. [Study and Exams Regulation at Taif University](#)
5. [List of students' discipline at Taif University](#)
6. [Policies and Procedures Manual at Taif University.](#)
7. [Charter student rights and duties](#)
8. The Unified National Platform for Online Admission
<https://www.my.gov.sa/wps/portal/snp/servicesDirectory/serviceDetails/7975>

9. Student guide at the Deanship of Student Affairs https://www.tu.edu.sa/Attachments/893d1c33-3156-44d7-b4b8-e203d4cca737_.pdf
10. Research Ethics Guidelines
https://www.tu.edu.sa/Attachments/d2fdd3d1-ab64-491b-b902-28defe62199e_.pdf
11. General Regulations for the Compulsory Training Period (Internship) for Health Faculties at Taif University
https://www.tu.edu.sa/Attachments/f26bb36d-1262-4965-ac12-4b93d8c759bb_.pdf
12. Saudi Radiologic Technologist Licensure Examination Content Guideline
<https://www.scfhs.org.sa/examinations/Documents/Saudi%20Radiology%20Technologist%20Licensure%20Examination%20-%20-%20Final%20Version.pdf>

For more related regulations please visit the following link:

<https://tinyurl.com/2d5mtrtx>

H. Program Quality Assurance

1. Program Quality Assurance System

<https://1drv.ms/b/s!Atjwu6HV3Ub5n2pWqU6jcDVhyEyb?e=0YJDP3>

2. Program Quality Monitoring Procedures

- a) Program Key Performance Indicators KPIs.
- b) Application of the closed cycle quality program.
- c) Follow the approved control procedures in the Quality Management System Manual at Taif University.
- d) Follow the approved control procedures in the program's Quality Management Manual.

<https://1drv.ms/b/s!Atjwu6HV3Ub5n2xhF1LxIwAypChQ?e=LQmFMC>

3. Arrangements to Monitor Quality of Courses Taught by other Departments.

- a) Academic Programs Committee
- b) Course coordinators.
- c) Course descriptions.
- d) Course reports.
- e) Students' evaluation of the quality of courses.

4. Arrangements Used to Ensure the Consistency between Main Campus and Branches (including male and female sections)

- a) Representing members of all courses in relevant councils and committees.
- b) Course coordinators to ensure parity is achieved.
- c) Standardization of course descriptions.
- d) Standardization of tests and assessment methods

5. Arrangements to Apply the Institutional Regulations Governing the Educational and Research Partnerships (if any).

N/A.

6. Assessment Plan for Program Learning Outcomes (PLOs), and Mechanisms of Using its Results in the Development Processes

<https://1drv.ms/p/s!Atjwu6HV3Ub5n21cuR8E0RX7O-WF?e=wcHXTO>

7. Program Evaluation Matrix

Evaluation Areas/Aspects	Evaluation Sources/References	Evaluation Methods	Evaluation Time
Program leadership	Staff members	Surveys	End of the academic year
Learning resources	Students	Surveys	Beginning of semesters
Students' education services	Staff members and students	Surveys	Beginning of semesters
Effectiveness of teaching and assessment	Students and independent reviewers	Surveys and interview	End of the academic year

Evaluation Areas/Aspects (e.g., leadership, the effectiveness of teaching & assessment, learning resources, partnerships, etc.)

Evaluation Sources (students, graduates, alumni, faculty, program leaders, administrative staff, employers, independent reviewers, and others (specify))

Evaluation Methods (e.g., Surveys, interviews, visits, etc.)

Evaluation Time (e.g., beginning of semesters, end of the academic year, etc.)

8. Program KPIs*

The period to achieve the target (1) year.

No	KPIs Code	KPIs	Target	Measurement Methods	Measurement Time
1	KPI-PG-01	Percentage of achieved indicators of the program operational plan objectives.	50%	Percentage of the performance indicators of the objectives of the operational plan of the program that achieved the annual target level to the total number of indicators targeted for these objectives in the same year	Yearly
2	KPI-PG-02	Students' Evaluation of quality of learning experience in the program.	3.5	Average overall rating of final year students for the quality of learning experiences in the program on a five-point scale in an annual survey	Yearly
3	KPI-PG-03	Students' evaluation of the quality of the courses.	3.5	Average student rating for course quality on a five-point scale in an annual survey	Semester and then collect for the whole year
4	KPI-PG-04	Students' evaluation of the quality of scientific supervision.	3	Average students' rating for scientific supervision on a five-point scale in an annual survey	Yearly
5	KPI-PG-05	Virtual completion rate	80 %	Percentage of bachelor's students who completed the program in the minimum prescribed program period for each batch	Yearly
6	KPI-PG-06	First-year student retention rate	88 %	Percentage of first-year students in the program who continue in the program for the following year to the total number of first-year students in the same year	Yearly
7	KPI-PG-07	Employing graduates and enrolling them in postgraduate programs	40 %	Percentage of program graduates who were employed or enrolled in graduate programs during the first year of their graduation to the total number of graduates in the same year	Yearly
8	KPI-PG-08	Employers' evaluation of the program graduates' competency.	3.5	The average overall rating of employers for the efficiency of program graduates on a five-point scale in an annual survey	Yearly
9	KPI-PG-09	Students' satisfaction with provided services.	3	Average students' rating on the various services provided by the program (restaurants, transportation, sports facilities, academic advising...) on a five-point scale in an annual survey	Yearly
10	KPI-PG-10	The ratio of students to faculty members.	30:1	The ratio of the total number of students to the total number of full-time faculty	Yearly
11	KPI-PG-11	Percentage of faculty members' distribution based on academic ranking.	Professor = 15% Associate Professor = 40% Assistant Prof. = 60% Lecturer = 20% Teaching assistant = 10%	Percentage distribution of faculty categories in terms of gender and academic rank	Yearly

No	KPIs Code	KPIs	Target	Measurement Methods	Measurement Time
12	KPI-PG-12	The proportion of faculty members leaving the program.	0%	The ratio of faculty who leave the program annually for reasons other than reaching retirement age to the total number of faculty	Yearly
13	KPI-PG-13	Satisfaction of beneficiaries with learning resources.	3	Average satisfaction of beneficiaries with the adequacy and diversity of learning resources (references, periodicals, information bases...) on five-point scales in an annual survey	Yearly
14	KPI-PG-14	Satisfaction of beneficiaries with research facilities and equipment.	3	Average satisfaction of beneficiaries with the adequacy and diversity of research facilities and equipment ... on five-point scales in an annual survey	Yearly
15	KPI-PG-15	Percentage of publication of faculty members.	40%	Percentage of faculty members who published at least one research during the year to the total number of faculty members in the program	Yearly
16	KPI-PG-16	Rate of published research per faculty member.	2	The total number of refereed and published research to the total number of faculty members during the year	Yearly
17	KPI-PG-17	Citations rate in refereed journals per faculty member.	1:1	The total number of citations in refereed journals, from scientific research published by faculty members to the total published research	Yearly
18	KPI-PG-18	Percentage of students' publication.	50%	Percentage of students who published at least one research during the year to the total number of students in the program	Yearly
19	KPI-PG-19	The number of patents, innovative products, and awards of excellence.	3	The number of patents, innovative products and awards of excellence to the total number of students in the program	Yearly

* Including KPIs required by NCAAA

I. Specification Approval Data

Council / Committee	DEPARTMENT COUNCIL
Reference No.	11TH
Date	24TH MAY 2022

