



Annual Program Report

- (Bachelor)

Program: Bachelor of Radiological Sciences and Medical Imaging

Program Code (as per Saudi Standard Classification of Educational Levels and Specializations): 091406

Qualification Level: L6

Department: Radiological Sciences and Medical Imaging

College: Applied Medical Sciences

Institution: Majmaah University

Academic Year: 1444 -1445 H

Main Location: Building Number 5 – Main Campus

Branches offering the Program (if any):

• NA







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A. Program Statistics

Item	Number
Number of students enrolled in the program	40
Number of students who started the program (in reporting year)	133
Number of students who completed the program	11

B. Program Assessment

1. Program Learning Outcomes Assessment and analysis according to PLOs assessment plan *

#	Program Learning Outcomes	Assessment Methods (Direct and Indirect)	Targeted Performance (%)	Assessment Results
Know	vledge and Understanding			
K1	To describe patient positioning and anatomical structures radiographically techniques via research aspect solutions in societal and global context.	Theory Exam, Assignment and Quiz	70%	86%
К2	To explain problems-and solutions associate with critical-thinking skills in the performance of medical imaging procedures	Theory Exam, Assignment and Quiz	70%	85%
К3	To choose suitable ionizing radiation.	Theory Exam, Assignment and Quiz	70%	87%
К4	To explain problems via critical thinking in medical imaging procedures and conclude the solutions	Theory Exam, Assignment and Quiz	70%	86%
Skills				
S1	To produce diagnostic images and able to create conclusions.	Assignment, Quiz, presentation	70%	84%
S2	To select exposure factors considering radiation protection laws for the patients, competent and workers. Recognizing emergency patient conditions and, if	Assignment, Quiz, presentation	70%	85%





	necessary, initiating lifesaving first aid.			
S3	To interpret an appropriate information and communications technology in gathering, and communicating medical images performance and reconstruction	Assignment, Quiz, presentation and Practical Exam	70%	92%
S4	To use standard tests and measurements, to evaluate data and to apply patient care radiological procedures effectively	Assignment, Quiz, presentation and Practical Exam	70%	89%
Value	es, autonomy, and responsi	bility87		
V1	To demonstrate expected professional behavior within the profession's scope of practice and function effectively as a leader or member of the team	Assignment, Quiz, presentation and Practical Exam	70%	88%
V2	To demonstrate and enhance competence in written, oral, and graphical communication across diverse technical and non- technical settings.	Assignment, Quiz, presentation and Practical Exam	70%	95%
V3	To promote a positive learning environment for the education and clinical skills development in the field of radiology	Assignment, Quiz, presentation and Practical Exam	70%	92%

*Attach a separate report on the program learning outcomes assessment results for male and female sections and for each branch (**if any**).

Strengths:

- An ability to demonstrate and formulate written, oral, and graphical communication in both technical and non-technical environments.
- An ability to demonstrate expected professional behavior within the profession's scope of practice and function effectively as a leader or member of the team.





All the above mentioned are strength point gained during the course handling.

• An ability to explain problems-and tell solutions associate with critical-thinking skills in the performance of medical imaging procedures.

Aspects that need improvement with priorities:

- Initiating well-equipped radiological labs.
- Enhance competence in communication across diverse technical effect
- Follow-up of students' progress through direct observation
- Developing the student's skills in more advance medical images performance.
- Motivate the students through applying different class activities



2. Students Evaluation of Courses

Course Code	Course Title		Number of Students WhoPercentage of ParticipantsEvaluated 		Evalı Res	ation sults	Developmental Recommendations	
		Μ	F	М	F	Μ	F	
SEMESTER	ONE							
RMI 232	Principles of Anatomy	7	33	100%	100%	90	76.2	
RMI 233	Introduction to Medical Imaging	7	33	100%	100%	92.8	76.8	
RMI 234	Radiation Biology and Protection	7	33	100%	100%	94.3	87.2	
RMI 241	General Pathology	10	10	100%	100%	86.7	86.5	
RMI 242	Patient Care and Ethics in Radiology	10	10	100%	100%	75.3	87.5	
RMI 243	Radiographic Anatomy	10	10	100%	100%	87.5	88.3	
RMI 244	Radiographic Technique 1	10	10	100%	100%	78.9	74.1	
RMI 245	Computer Applications in Radiology	10	10	100%	100%	81.2	67.4	
RMI 246	Digital Imaging Systems	10	10	100%	100%	86.5	70	Developmental
RMI 247	Numerical Mathematics	10	10	100%	100%	82.3	71.0	recommendations for
RMI 351	Nuclear Medicine Physics and Instrumentations	5	27	1 00%	100%	86.7	89.9	each course are mentioned in the
RMI 352	Cross-Sectional Anatomy	5	27	100%	100%	76	76.3	course report in
RMI 353	CT Physics and Instrumentation	5	27	100%	100%	88.9	74.3	details
RMI 471	Trauma and Emergency Radiography	13	17	100%	100%	73.3	77.5	(1 st Semester CR)
RMI 472	Computed Tomography Techniques	13	17	100%	100%	74.7	71.3	
RMI 473	Image Processing Techniques	13	17	100%	100%	72.9	70.8	
RMI 474	Radiation Therapy Physics and Instrumentation	13	17	100%	100%	82.5	73.6	
RMI 591	Quality Assurance in Radiology	11	NA	100%	100%	68.2	NA	
RMI 592	Graduation Project	11	NA	100%	100%	66.4	NA	
RMI 543	Radiation Therapy Clinical Practice 1	11	NA	100%	100%	73.2	NA	
RMI 544	Radiation Therapy Clinical Practice 2	11	NA	100%	100%	72.3	NA	
RMI 545	Clinical Radiation Oncology Practice	11	NA	100%	100%	68.1	NA	
RMI 546	Advance Clinical Radiation Therapy	11	NA	100%	100%	77.3	NA	



Course Code	Course Title	Number of Students Who Evaluated the Course		Number of Students Who Evaluated the Course		Number of Students Who Evaluated the Course		Number of Students Who Evaluated the Course		Number of Students Who Evaluated the Course		Number of Students Who Evaluated the Course		Number of Students Who Evaluated the Course		Evaluation Results		Developmental Recommendations
		Μ	F	M	F	Μ	F											
SEMESTER	тwo			1	1	1	1											
RMI 235	Radiation Physics and Equipment	7	33	100%	100%	91.4	80											
RMI 237	Principles of Physiology	7	33	100%	100%	90	73.4											
RMI 241	General Pathology	7	33	100%	100%	91.4	74.6											
RMI 242	Patient Care and Ethics in Radiology	7	33	100%	100%	72.6	71.5											
RMI 351	Nuclear Medicine Physics and Instrumentations	10	10	100%	100%	77.8	76.8	Developmental										
RMI 352	Cross-Sectional Anatomy	10	10	100%	100%	84.4	80.3	recommendations										
RMI 353	CT Physics and Instrumentation	10	10	100%	100%	88.6	81.3	for each course are										
RMI 354	Radiographic Techniques 2	5	27	100%	100%	71	70.5	course report in										
RMI 355	Clinical Practicum 1	5	27	100%	100%	100	84	details										
RMI 361	Ultrasound Physics and Instrumentation	5	27	100%	100%	88	79.8	(2 nd Semester CR)										
RMI 362	Radiographic photography	5	27	100%	100%	88	80											
RMI 475	Nuclear Medicine Techniques	13	17	100%	100%	81.6	79.8											
RMI 476	Clinical Practicum 3	13	17	100%	100%	81.6	82.2											
RMI 441	Treatment Planning and Dosimetry	13	17	100%	100%	72.5	70.5											
RMI 481	Ultrasound Techniques	13	17	100%	100%	73.8	60.8											
RMI 482	Radiation Therapy Techniques	13	17	100%	100%	65.4	60											



Course Code	Course Title	Number of Students Who Evaluated the Course		Percent Partici	tage of pants	Evalı Res	uation sults	Developmental Recommendations
SEMESTER		IVI	F	IVI	F	IVI	F	
DIGOD		NIA	24	NA	100%	NIA	00	
RMI 232	Principles of Anatomy		24		100%	NA NA	05	
RMI 233	Introduction to Medical Imaging	NA	24	NA	100%	NA	81	
RMI 234	Radiation Biology and Protection	NA	24	NA	100%	NA	79	
RMI 243	Radiographic Anatomy	7	33	100%	100%	84.9	72.4	
RMI 244	Radiographic Technique 1	7	33	100%	100%	88.6	79.6	
RMI 245	Computer Applications in Radiology	7	33	100%	100%	82.8	82	
RMI 246	Digital Imaging Systems	7	33	100%	100%	88.6	81.3	
RMI 247	Numerical Mathematics	7	33	100%	100%	76.5	70.4	Developmental
RMI 354	Radiographic Techniques 2	10	10	100%	100%	75	88	recommendations for
RMI 355	Clinical Practicum 1	10	10	100%	100%	86	80	each course are
RMI 361	Ultrasound Physics and Instrumentation	10	10	100%	100%	87	82	report in details
RMI 362	Radiographic photography	10	10	100%	100%	77	84	(3 rd Semester CR)
RMI 363	MRI Physics and Instrumentation	5	27	100%	100%	86.6	73	
RMI 364	Image Analysis	5	27	100%	100%	80	70.4	
RMI 365	Radiographic Pathology	5	27	100%	100%	95.1	74	
RMI 366	Clinical Practicum 2	5	27	100%	100%	73.4	75	
RMI 483	Research Methodology	13	17	100%	100%	80	69.4	
RMI 484	MRI Techniques	13	17	100%	100%	78	73.4	
RMI 485	Clinical Practicum 4	13	17	100%	100%	90	65.4	
RMI 486	Introduction To Radiation Oncology	13	17	100%	100%	84	71.4	
RMI 442	Radiation Safety and Dosimetry	13	17	100%	100%	88.9	73.3	



Evaluation Date:	Number of Participants: 87 F, 46 M
Students Feedback	Program Response
 Strengths: The program provided me with suitable and available library resources whenever I needed them. The program developed my abilities to investigate and solve problems. The overall evaluation of the program at the intermediate level among students The program provided me with suitable facilities to perform religious constitutional rights. 	Strengths will be enhanced and good performance will be maintained
 Areas of Improvement: Duration of practice field training Registration procedures for courses Extra-curricular activities 	The department is studying the various method and suitable solutions that will lead to the solve all weakness points
 Suggestions for improvement: Increasing the duration of practice field training Making registration procedures easier for the students. Providing the program with extra-curricular activities 	The department is studying the various method and suitable solutions that will lead to the solve all weakness points

3. Students Evaluation of Program Quality

4. Scientific research and innovation during the reporting year

Number
The average in Male and Female = 5
5
0
0
0
0

Discussion and analysis of scientific research and innovation activities:

Over all percentage of full-time faculty members who provided professional development activities inside or outside the university during the year to the total teaching staff in the program was 90%.





5. Community Partnership

Activities Implemented	Brief Description*
Saudi National Day	The public health volunteer campaign in the Majmaah Mall
30-9-2022	educated the local community about many health problems and many free examinations were provided to the beneficiaries.
International Day of Radiology	International Day of Radiology
8-11-2022	Incritational Day of Radiology

*including timing of implementation, number of participants, and outcomes.

Comment on community partnership activities**

The participation of the department in community services was humble. These activities increased the community awareness regarding health and diseases, strengthened the relations between the College and the Community

**including overall evaluation of the program's performance in these activities (if any).

6. Other Evaluation (if any)

(e.g., independent reviewer, program advisory committee, and stakeholders (e.g., faculty members, alumni, and employers)

Evaluation method: FFS	Date:	Number of Participants: M =5, F 3			
Summary of Evaluator Review	w		Program Response		
 Strengths: The faculty staff members were hig with his Contribution of his winstitutional mission and the Instituti awareness of staff needs, Availabil equipment and supplies and Receiver recognition for contributions and accomplishments. Faculty also appreciates of Being rehis managers/supervisors and his abic complaints without fear of retaliation Also, happy with Sense of personal work environment as well as the effect Human Resources services. 	ghly satisfied vork to the onal leaders' lity of office iving formal d individual ecognized by ility to report n. safety in the ectiveness of	Strer	ngths will be enhanced and good erformance will be maintained		
Points for Improvements:Some point just needs to have an eye	on them like	The de method to the so	partment is studying the various and suitable solutions that will lead lve all weakness points		





the office spacings in female section. Library sources also needs some care . Personal safety in the work environment needs to be improved according to female views. finally, over satisfaction

• Also, the technical support needs some modifications

Suggestions for development:

- Put more care on the technical support modification.
- In addition, some awareness of the staff demands needs to be considered .i-e well-equipped labs. and radiologic machines MRI,X-ray ,CT ,PET,SPECT nuclear medicine invitro radioimmunoassay (RIA lab.) ,,,,,, etc...

The department raise the request to head of the department to prepare well equipped lab

*Attach independent reviewer's report and stakeholders' survey reports (if any).

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C. Program Key Performance Indicators (KPIs)

Including the key performance indicators required by the NCAAA.

No	КРІ	Targeted Value	Actual Value	Internal Benchmark	Analysis	New Target
1	KPI-P-01: Students Evaluation of Quality of learning experience in the Program	4.2	4.4	4	This KPI implemented for Male and female sections, the target achieved	4.5
2	KPI-P02: Students' evaluation of the quality of the courses	4.5	4.5	4.4	Students evaluation achieved the targeted internal and external bench mark	4.6
3	KPI-P03: Completion rate	100%	100%	100%	100% of the male students completed the required courses in the require time	100%
4	KPI-P04: First-year students retention rate	100%	100%	100%	This KPI implemented for Male and female sections, the target achieved	100%
5	KPI-P05: Students performance in the professional and/or national examinations	55%	60%	52%	External benchmark was applied for this academic year 1444-1445.	60%
6	KPI-P06: Graduates employability and enrolment in postgraduate programs	EM=80%, EN=20%	EM=80%, EN=0%	EM=75%, EN=0%	The target of employee KPI was achieved in Employed graduates	EM=90 %, EN=10 %
7	KPI-P07: Employers evaluation of the program graduate proficiency	4.7	4.7	4.6	This KPI is giving an Employers evaluation of the program graduate proficiency for the male section as no	4.8





					graduated in the female one.	
8	KPI-P8: Ratio of students to teaching staff	10:01	11:01	14:01	This KPI implemented for Male and female sections	10.01
9	KPI-P09: Percentage of publications of faculty members	88%	88%	87%	Providing the Percentage of publications of faculty members.	100%
10	KPI-P10: Rate of published research per faculty member	5	5	4	This KPI implemented for Male and female sections	6
11	KPI-P11: Citations rate in refereed journals per faculty member	23	24	21	The faculties citation achieved the targeted internal and external bench mark	25
12	MUP-P1: Average rating of beneficiaries' satisfaction with the community services provided by the program on a five- level scale in an annual survey	4.4	4.5	4.3	Student's evaluation achieved the targeted internal and external bench mark.	4.6
13	MUP-P2:The percentage of students who received a warning or more in the program to the total number of students in the program	0%	0%	0%	Students evaluation achieved the targeted internal and external bench mark.	0%
14	MUP-P3:Thepercentageofstudentswhoweredenieddeniedentrytothefinalexaminationthecourseforexceedingthe	0%	0%	0%	This KPI implemented for Male and female sections	0%





	legally permitted percentage of the total number of students in the program					
15	MUP-P4: The number of student papers that have been published or presented in scientific conferences during the past year	2	0	0	This KPI implemente d for Male and female sections.	2
16	MU-P5: The percentage of full- time faculty members who provided professional development activities inside or outside the university during the year to the total teaching staff in the program	90%	90%	88%	This KPI implemented for Male and female sections, the target achieved	100%

Comments on the Program KPIs and Benchmarks results:

> Strengths:

- KPI implemented for Male and female sections.
- External benchmark implemented for this academic year 1444-1445.
- Student's evaluation achieved the targeted internal and external benchmark and new target benchmark initiated.
- Areas and priorities for Improvement:
 - Encouraging faculty members who provided professional development activities inside or outside the university.
 - Encouraging the students to publish research





- Some motivation of outstanding students could be initiated for such alike excellent behaviors.
- Encourage the students to participate in community services in Majmaah city or other local cities.
- Motivation to the faculties by supporting them to publish their research work in international, high impact factor, ISI Q1 with high citation rate as such a journal are of very high charge and costive.
- Employ and contracting with new teaching staff.
- Promotion the contact process with the graduates, in order inform them the available related vacancies.
- To encourage the graduated students applying for postgraduate degrees and supporting them by finding scholarships and fully funded postgraduate partnerships and collaborations (at home universities and abroad) in RMI different specialties.

Note: MUPs ((1 to 5) were initiated especially for Majmaah University, and we will do our best to find similar and related KPI statement from other university to have them as external benchmark.

D. Challenges and difficulties encountered by the program (if any)

Teaching	NA
Assessment	NA
Guidance and counseling	NA
Learning Resources	NA
faculty	NA
Research Activities	NA
Others	NA



No.	Priorities for Improvement	Actions	Action Responsibility
1	Place of practice field training	Recommend a appropriate hospital for training at the beginning of semester	Training committee – Head of the department
2	Increase the percentage of post graduate studies among graduates	To encourage the graduated students applying for postgraduate degrees and keep them in contact with the department through the whatsup group	Scientific Research & Innovations Committee
3	Increase the passing rate among graduate in SCFHS exam.	The programwillorganizeseriesofworkshoprelatedtoSCFHSexamination	Interns and health professional Committee
4	Registration procedures for courses	Prepare Orientation to the students	Academic affair committee – Head of the department
5	Extra-curricular activities	Encourage the students to participate in extracurricular activities	Community service committee – Head of the department
6	Initiating well-equipped radiological labs.	Raise the request to head of the department	Lab committee – Head of the department
7	Enhance competence in communication across diverse technical effect	Orientation day	Community service committee – Head of the department
8	Follow-up of students' progress through direct observation	Activate all facilities in Blackboard	Academic affair committee – Head of the department
9	Motivate the students through applying different class activities	Revise assessment method	Community service

E. Program development Plan





			committee – Head of the department
10	Encouraging faculty members who provided professional development activities inside or outside the university.	Encouraging faculty members who provided professional development activities	Faculty affairs committee – Head of the department
11	Encouraging the students to publish research	Orientation lecture for students	Scientific research committee – Head of the department
12	Developing the student's skills in more advance medical images performance	Encouraging students to provide training in summer vacation as a volunteers	Training committee – Head of the department

• Attach any unachieved improvement plans from previous report.

• The annual program report needs to be discussed in department council

F. Approval of Annual Program Report

COUNCIL / COMMITTEE	RMI DEPARTMENT COUNCIL		
REFERENCE NO.	3		
DATE:	14/2/1445		