

Bachelor of Science in Radiologic Technology

Curriculum Overview - Courses and Credits

Program Structure

Total Credits: 132

Course Category	Credits
General Courses	23
Basic and Specialty Courses	65
Internships	16
Externships (Clinical Rotations)	28
Total	132

General Courses (23 Credits)

Course Name	Credits	Theory Hours	Practical Hours	Prerequisite
Islamic Thought (2 courses from the table below)	4	68	-	-
Islamic Ethics (1 course from the table below)	2	34	-	-
Islamic Revolution (1 course from the table below)	2	34	-	-
Islamic History and Civilization (1 course from the table below)	2	34	-	-
Introduction to Islamic Resources (1 course from the table below)	2	34	-	-
Persian Literature	3	51	-	-
General English	3	51	-	-
Physical Education (1)	1	-	34	-
Physical Education (2)	1	-	34	-
Population and Family Planning	1	17	-	-
Subtotal	23	-	-	-

Basic and Specialty Courses (65 Credits)

Course Name	Credits	Theory Hours	Practical Hours	Prerequisite
General Physics	3	34	34	-
Public Health	1	17	-	-
General Mathematics	2	34	-	-
Statistics	1	17	-	-
English for Specific Purposes	2	34	-	General English
Anatomy (Upper and Lower Limbs & Spine)	2	26	17	-
Anatomy (Thorax, Trunk & Pelvis)	2	26	17	-
Anatomy (Skull, Brain & Nerves)	2	26	17	-
Physiology	2	26	17	-
Cell Biology	2	34	-	-
General Pathology	2	34	-	09
Introduction to Modern Information Technology	1	17	-	-
Computer Applications in Medical Imaging	1	17	-	12
Professional Ethics	1	17	-	-
Hospital Management and Organizational Behavior	2	34	-	-
Medical Terminology in Radiology	1	17	-	-
Image Recording and Display in Medicine	2	34	-	-
Radiation Physics	3	51	-	01
Diagnostic Radiological Physics	3	51	-	18
Radiographic Methods 1	3	51	-	06
Radiographic Methods 2	2	34	-	07
Radiographic Methods 3	2	34	-	08
Pathophysiology	2	34	-	09, 11
Patient Care in Medical Imaging	2	17	34	09
Radiology	2	34	-	19, 23

Introduction to Structure and Properties of Contrast Media in Medical Imaging	2	34	-	-
Special Radiographic Methods	2	34	-	20, 21, 22
Radiobiology	3	51	-	01, 19
Practical Radiobiology and Radiation Protection	2	17	34	19
Radiographic Equipment and Darkroom	2	26	17	-
Quality Control in Radiology	2	26	17	18
Radiography of the Skull and Facial Bones	2	26	17	08, 27
Computed Tomography (CT)	2	26	17	27
Special Radiographic Procedures	2	34	-	27
MRI Imaging	2	26	17	17, 33
Medical Ultrasound (Sonography)	2	26	17	06, 07, 08, 09
Digital Imaging in Radiology	2	34	-	17, 25
Nuclear Medicine Technology	2	26	17	19, 25
Radiation Therapy Physics	2	26	17	19
Health Physics and Radiation Protection	2	26	17	19, 28
Management in Medical Imaging	1	17	-	-
Seminar in Radiologic Technology	1	17	-	-
Total	65	-	-	-

Internship Courses (16 Credits)

Course Name	Credits	Total Hours	Prerequisite
Darkroom Internship	2	102	30
Internship in Radiographic Methods 1	2	102	20
Internship in Radiographic Methods 2	2	102	21
Internship in Radiographic Methods 3	2	102	22

Internship in Radiography of Skull and Facial Bones	2	102	32
Internship in Patient Care in Medical Imaging	1	51	24
Internship in Radiation Protection	1	51	40
Internship in CT Scanning	2	102	33
Internship in MRI	2	102	35
Total	16	-	-

Externship Courses (Clinical Rotations) (28 Credits)

Course Name	Credits	Total Hours	Prerequisite
Externship in Radiography 1 (General Radiography)	4	204	43, 44
Externship in Radiography 2 (General Radiography)	4	204	43, 44
Externship in Special Radiographic Methods	4	204	34, 47
Externship in CT Scanning	4	204	46, 50
Externship in MRI	4	204	47, 51
Externship in Ultrasound (Sonography)	4	204	36, 45, 47
Externship in Special Radiographic Procedures	4	204	34, 46
Total	28	-	-

Credit Hour Conversion:

1 Theoretical Credit = 17 hours

1 Practical Credit = 24 hours (included in specialty courses)

1 Internship Credit = 51 hours

1 Externship Credit = 51 hours