

Radiology Technologist

Degree: Bachelor of Science (BSc)

Total Course Credits

- General: 22
- Basic and Specialized: 92
- Field Internship: 16
- Total: 130

Course Summary

Medical imaging is one of the important branches of medical science and has a special role in diagnosing and treating diseases and ultimately “human health”. Bachelor's degree program of Radiology Technologist is aimed at educating medical imaging technologists with the ability to use medical imaging systems and technologies in the field of medical imaging. In this way, the program focuses on theoretical and clinical experience training that leads to the construction of competencies required to be an expert technologist in the field of medical imaging. During this course, students will receive fundamental education in various fields of imaging from routine radiography techniques to advanced imaging techniques, including computer tomography, magnetic resonance imaging of magnetic resonance imaging (MRI), ultrasound... and will acquire clinical experiences in these fields.

Study mode: Full time

Duration: 4 years

Tables of the Courses

Table 1. General Courses

Code of the course	Title of the course	Number of Credits			Teaching Hours			Prerequisite or concurrent
		Theoretical	Practical	Total	Theoretical	Practical	Total	
01	Islamic Basic Theoretical Lessons	4	-	4	68	-	68	-
02	Islamic Ethics	2	-	2	34	-	34	-
03	Islamic Revolution	2	-	2	34	-	34	-
04	Islamic History and Civilization	2	-	2	34	-	34	-
05	Familiarization with Islamic Texts	2	-	2	34	-	34	-
06	Persian Literature	3	-	3	51	-	51	-
07	General English	3	-	3	51	-	51	-
08	Physical Education (1)	-	1	1	-	34	34	-
09	Physical Education (2)	-	1	1	-	34	34	-
10	Population and Family Planning	2	-	2	34	-	34	-
Total		22						

Table 2. Basic and Specialized Courses

Code of the course	Title of the course	Number of Credits	Teaching Hours			Prerequisite or concurrent
			Theoretical	Practical	Total	
11	General Physics	3	34	34	68	-
12	General Hygiene	1	17	-	17	-
13	Mathematics	2	34	-	34	-
14	Medical Statistics	1	17	-	17	-
15	Specialized English	2	34	-	34	07
16	Anatomy (1) (Upper and lower limbs)	2	26	17	34	-
17	Anatomy (2) (Thorax, trunk and pelvis)	2	26	17	34	-
18	Anatomy (3) (Skull, brain and nerves)	2	26	17	34	-
19	Physiology	2	26	17	34	-
20	Cellular biology	2	34	-	34	-
21	General pathology	2	34	-	34	19
22	Information Technology (IT)	2	17	34	51	-
23	Image Processing	2	17	34	51	22
24	Ethical and Legal Considerations in Medicine	1	17	-	17	-
25	Hospital management and organizational behavior	2	34	-	34	-
26	Medical terminology	1	17	-	17	-
27	Record and display images in Radiology	2	34	-	34	-
28	Radiation Physics	3	51	-	51	-
29	Diagnostic Radiology Physics	3	51	-	51	28
30	Medical Imaging Techniques (1)	3	51	-	51	16
31	Medical Imaging Techniques (2)	3	51	-	51	17
32	Medical Imaging Techniques (3)	3	51	-	51	18
33	Physiopathology	2	34	-	34	-
34	Patient care in medical imaging	2	17	34	51	19
35	Radiobiology	2	34	-	34	20-28
36	Contrast media in medical imaging	2	34	-	34	-

37	Special Radiographic Techniques	2	34	-	34	-
38	Evaluation of Imaging Clichés (1)	2	34	-	34	33
39	Evaluation of Imaging Clichés (2)	2	34	-	34	38
40	Ultrasound imaging in medicine	3	51	-	51	-
41	Radiation Dosimetry	2	26	17	43	28
42	Sectional Anatomy	3	51	-	51	-
43	Physical principles of Computed Tomography	2	34	-	34	29
44	CT scan techniques	2	34	-	34	42-43
45	Physical Principles of Magnetic Resonance imaging Systems	2	34	-	34	-
46	MRI techniques	2	34	-	34	-
47	Quality Control in Radiology	3	34	34	68	29-40-43-45
48	Radiation Protection in medical Imaging	2	34	-	34	41
49	maintenance of radiology devices	2	17	34	51	29
50	Seminar (1)	3	51	-	51	-
51	Seminar (2)	2	34	-	34	33
52	Apprenticeship General Radiography (1)	2	-	102	102	-
53	Apprenticeship General Radiography (2)	2	-	102	102	-
54	Apprenticeship General Radiography (3)	2	-	102	102	-
55	Apprenticeship General Radiography (4)	2	-	102	102	-
Total		92				

Table 3. Field Internship Courses

Code of the course	Title of the course	Number of Credits	Teaching Hours		
			Theoretical	Practical	Total
56	Field Internship- CT scan	4	204	-	204
57	Field Internship- In MRI	4	204	-	204
58	Field Internship (Special Radiology Techniques)	4	204	-	204
59	Field Internship In Sonography	4	204	-	204
Total			16		