

Bachelor's Program Course Schedule in Radiology

First Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	4190012	Introduction to Modern Information Technology	-	2	1	1	2
2	12121212	Pre-University English	-	3	3	-	3
3	2222222	Islamic Thought (1)	-	2	2	-	2
4	4190046	General Physics	-	3	2	1	3
5	4190023	General Mathematics	-	2	2	-	2
6	4190026	Statistics	-	1	1	-	1
7	4190045	Anatomy 1	-	2	1.5	0.5	2
8	4180003	Physiology	-	2	1.5	0.5	2
9	503000008	Life Skills	-	-	-	-	-

Total Credits: 17

Second Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	4190044	Anatomy 2	-	2	1.5	0.5	2
2	4190028	General English	Pre-University English	3	3	-	3
3	4190036	Image Registration and Display in Medicine	-	2	2	-	2
4	4190038	Radiation Physics	-	3	3	-	3
5	4190037	Radiographic Techniques 1	Anatomy 1	3	3	-	3
6	4190039	Internship 1	-	2	-	2	2

7	4190056	Patient Care in Medical Imaging Department	Physiology	2	1	1	2
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Total Credits: 17

Third Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	3333333	Islamic Thought 2	Islamic Thought 1	2	2	-	2
2	4190032	Anatomy 3	-	2	1.5	0.5	2
3	4190040	General Pathology	Physiology	2	2	-	2
4	4190062	Computer Applications in Medical Imaging	Introduction to IT	2	1	1	2
5	4190017	Medical Terminology in Radiology	-	1	1	-	1
6	4190018	Diagnostic Radiology Physics	Radiation Physics	3	3	-	3
7	4190069	Radiographic Techniques 2	Anatomy 2	3	3	-	3
8	4190035	Persian Literature	-	3	3	-	3
9	4190071	Internship 2	-	2	-	2	2

Total Credits: 20

Fourth Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	8888888	Physical Education 1	-	1	-	1	1
2	4190053	Technical English	General English	2	2	-	2
3	4190008	Cell Biology	-	2	2	-	2

4	4190009	Radiographic Techniques 3	Anatomy 3	2	2	-	2
5	4190011	Pathology	General Pathology	2	2	-	2
6	4190054	Sectional Anatomy	Anatomy 1, 2, 3	3	3	-	3
7	4190042	Internship 3	-	2	-	2	2
8	4190033	Internship 4	-	2	-	2	2
9	7777777	Islamic Culture and Civilization	-	2	2	-	2

Total Credits: 18

Fifth Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	6666666	History of Islam	-	2	2	-	2
2	4190024	Radiobiology	Radiation Physics, Cell Biology	2	2	-	2
3	4190066	Introduction to the Structure and Characteristics of Contrast Materials	-	2	2	-	2
4	4190065	Specialized Radiographic Techniques	-	2	2	-	2
5	4190013	Medical Image Evaluation 1	Pathology	2	2	-	2
6	4190025	Dosimetry of Ionizing Radiation	Radiation Physics	2	1.5	0.5	2
7	4190031	Physical Principles of Tomography Systems (CT Scan)	Diagnostic Radiology Physics	2	2	-	2
8	4190030	Internship in Specialized Radiographic Techniques	-	4	-	4	4

Total Credits: 18

Sixth Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	1111112	Family and Population Education	-	2	2	-	2
2	5555555	Islamic Ethics	-	2	2	-	2
3	4190034	Professional Ethics	-	1	1	-	1
4	4190021	Public Health	-	1	1	-	1
5	4190055	Techniques and Clinical Aspects of Tomography (CT Scan)	Sectional Anatomy, Physical Principles of Tomography Systems (CT Scan)	2	2	-	2
6	4190043	Physical Principles of MRI Imaging Systems	-	2	2	-	2
7	4190052	Ultrasound Imaging in Medicine	-	3	3	-	3
8	4190049	Internship in CT Scan Techniques	-	4	-	4	4

Total Credits: 17

Seventh Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	1111111	Islamic Revolution of Iran	-	2	2	-	2
2	4190063	Hospital Management	-	2	2	-	2

		and Organizational Behavior					
3	4190061	Medical Image Evaluation 2	Medical Image Evaluation 1, Sectional Anatomy	2	2	-	2
4	4190048	Techniques and Clinical Aspects of MRI Imaging	Sectional Anatomy, Physical Principles of MRI Imaging Systems	2	2	-	2
5	4190060	Radiation Protection	Dosimetry of Ionizing Radiation	2	2	-	2
6	4190016	Seminar 1	-	1	-	1	1
7	4190058	Internship in MRI Imaging	-	4	-	4	4

Total Credits: 15

Eighth Semester

No.	Course Code	Course Title	Prerequisite	Credits	Theoretical	Practical	Total
1	9999999	Physical Education 2	Physical Education 1	1	-	1	1
2	4444444	Thematic Interpretation of the Quran	-	2	2	-	2
3	4190050	Basic Maintenance and Repair of Radiology Equipment	Diagnostic Radiology Physics	2	1.5	0.5	2
4	4190014	Quality Assurance and Quality Control in Imaging Techniques	Physical Principles of CT Scan, Diagnostic Radiology Physics, Physical Principles of	3	2	1	3

			MRI Imaging Systems, Ultrasound Imaging				
5	4190047	Seminar 2	-	1	-	1	1
6	4190057	Internship in Medical Ultrasound Imaging	-	4	-	4	4

Total Credits: 13

Total Program Credits: 135