



THE B.Sc. CURRICULUM IN RADIOLOGY, KASHAN UNIVERSITY OF MEDICAL SCIENCES

SEMESTER: 1

COURSE CODE / LESSON NO.	COURSE TITLE	COURSE TYPE			CREDITS				PREREQUISITE
		CORE	MAJOR	COMPL EMENT ARY	THEORET ICAL	PRACTIC AL	PRACTIC UM	TOTAL	
1420121	GENERAL PHYSICS				2	1		3	
1420123	GENERAL MATHEMATICS				2			2	
1420138	RADIATION PHYSICS				3			3	
1420129	PHYSIOLOGY				1.5	.5		2	
1010101	ISLAMIC THOUGHT				2			2	
1420132	INTRODUCTION INFORMATION TECHNOLOGY				1	1		2	
1010201	PERSIAN LITERATURE				3			3	
1010203	SPORT AND FITNESS (1)					1		1	
1010202	PRE-UNIVERSITY ENGLISH				2			2	
TOTAL CREDITS OF THE SEMESTER								20	



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SEMESTER: 2

COURSE CODE / LESSON NO.	COURSE TITLE	COURSE TYPE			CREDITS				PREREQUISITE
		CORE	MAJOR	COMPLEMENTARY	THEORETICAL	PRACTICAL	PRACTICUM	TOTAL	
1420140	PHYSICS OF DIAGNOSTIC RADIOLOGY				3			3	RADIATION PHYSICS
1420137	REGISTRATION AND DISPLAY OF MEDICAL IMAGES				2			2	
1420126	ANATOMY I				1.5	.5		2	
1010102	ISLAMIC THOUGHT (2)				2			2	
1420122	GENERAL HEALTH				1			1	
1420136	MEDICAL TERMINOLOGY IN RADIOLOGY				1			1	
1420130	CELL BIOLOGY				2			2	
1010106	FAMILIARITY WITH ISLAMIC RESOURCES				2			2	
1420108	BASIC ENGLISH LANGUAGE				3			3	
1420124	STATISTICS				1			1	
								19	



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SEMESTER: 3

COURSE CODE / LESSON NO.	COURSE TITLE	COURSE TYPE			CREDITS				PREREQUISITE
		CORE	MAJOR	COMPLEMENTARY	THEORETICAL	PRACTICAL	PRACTICUM	TOTAL	
142.131	GENERAL PATHOLOGY				2			2	PHYSIOLOGY
1420127	ANATOMY II				1.5	.5		2	-
1420141	X-RAY METHODS I				3			3	ANATOMY ¹
1420145	PATIENT CARE IN MEDICAL IMAGING				1	1		2	PHYSIOLOGY
1420162	APPRENTICESHIP1							2	-
1420166	RADIATION DOSIMETRY				1.5	.5		2	RADIATION PHYSIC
1010105	HISTORY OF ISLAM				2			2	-
1420159	BASIC MAINTENANCE OF RADIOLOGY EQUIPMENT				1.5	.5		2	PHYSICS OF DIAGNOSTIC RADIOLOGY
1010103	ISLAMIC ETHICS				2			2	-
1420134	PROFESSIONAL ETHICS				1			1	-
TOTAL CREDITS OF THE SEMESTER								20	



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SEMESTER: 4

COURSE CODE / LESSON NO.	COURSE TITLE	COURSE TYPE			CREDITS				PREREQUISITE
		CORE	MAJOR	COMPLEMENTARY	THEORETICAL	PRACTICAL	PRACTICUM	TOTAL	
1420133	COMPUTER APPLICATIONS IN MEDICAL IMAGING				1	1		2	INTRODUCTION INFORMATION TECHNOLOGY
1420142	X-RAY METHODS II				3			3	ANATOMY I I
1420146	RADIOBIOLOGY				2			2	RADIATION PHYSICS CELL BIOLOGY
1420147	MATERIALS WITH CONTROLLED PROPERTIES CAUSING IN MEDICAL IMAGES				2			2	
1420128	ANATOMY III				1.5	0.5		2	
1420144	PATHOLOGY				2		2	2	GENERAL PATHOLOGY
1420163	APPRENTICESHIP2							2	
1420151	IMAGING WITH ULTRASOUND IN MEDICINE				3			3	
1420125	COMMUNITY LANGUAGES				2			2	GENERAL LANGUAGE
TOTAL CREDITS OF THE SEMESTER								20	



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SEMESTER: 5

COURSE CODE / LESSON NO.	COURSE TITLE	COURSE TYPE			CREDITS				PREREQUISITE
		CORE	MAJOR	COMPLEMENTARY	THEORETICAL	PRACTICAL	PRACTICUM	TOTAL	
1420153	PHYSICAL PRINCIPLES OF COMPUTED TOMOGRAPHY SYSTEMS(C.T. SCAN)				2			2	PHYSICS OF DIAGNOSTIC RADIOLOGY
1420143	X-RAY METHODS III				2			2	ANATOMY III
1420152	SECTIONAL ANATOMY				3			3	ANATOMY I. II. III
1420149	EVALUATION OF MEDICAL IMAGES I				2			2	PATHOLOGY
1420155	PHYSICAL PRINCIPLES OF IMAGING SYSTEMS(MRI)				2			2	
1010108	FAMILY AND POPULATION KNOWLEDGE				2			2	
1420158	PROTECTION AGAINST IONIZING RADIATION				2	1		2	RADIATION DOSIMETRY
1420160	SEMINAR1							1	
1420164	APPRENTICESHIP3						2	2	
1420148	DEDICATED X-RAY METHODS				2			2	
TOTAL CREDITS OF THE SEMESTER								20	



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SEMESTER: 6

COURSE CODE / LESSON NO.	COURSE TITLE	COURSE TYPE			PREREQUISITE				
		CORE	MAJOR	COMPLEMENTARY	THEORETICAL	PRACTICAL	PRACTICUM	TOTAL	
1420154	TECHNIQUES AND CLINICAL ASPECTS OF COMPUTED TOMOGRAPHY (C.T.SCAN)				2			2	SECTIONAL ANATOMY PHYSICAL PRINCIPLES OF COMPUTED TOMOGRAPHY SYSTEMS(C.T. SCAN)
1420157	QA AND QC MEDICAL IMAGING METHODS				2	1		3	PHYSICS OF DIAGNOSTIC RADIOLOGY IMAGING WITH ULTRASOUND IN MEDICINE PHYSICAL PRINCIPLES OF IMAGING SYSTEMS(MRI) PHYSICAL PRINCIPLES OF COMPUTED TOMOGRAPHY SYSTEMS(C.T. SCAN)
1420150	EVALUATION OF MEDICAL IMAGES II				2			2	SECTIONAL ANATOMY EVALUATION OF MEDICAL IMAGES I
1010107	CULTURE OF ISLAM AND IRAN				2			2	
1010104	ISLAMIC REVOLUTION OF IRAN				2			2	
1010204	SPORT AND FITNESS (2)					1		1	SPORT AND FITNESS (1)
1420156	IMAGING TECHNIQUE AND CLINICAL ASPECTS (MRI)				2			2	SECTIONAL ANATOMY PHYSICAL PRINCIPLES OF IMAGING SYSTEMS(MRI)
1420135	HOSPITAL MANAGEMENT				2			2	
1420161	SEMINAR2					1		1	
1420165	APPRENTICESHIP4						2	2	
TOTAL CREDITS OF THE SEMESTER								19	



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SEMESTER: 7

COURSE CODE / LESSON NO.	COURSE TITLE	COURSE TYPE			CREDITS					PREREQUISITE
		CORE	MAJOR	COMPLEMENTARY	THEORETICAL	PRACTICAL	PRACTICUM	FIELD WORK	TOTAL	
1420170	FIELDWORK1(C.T. SCAN)							4	4	ALL THEORETICAL AND PRACTICAL LESSONS
1420171	FIELDWORK2 (MRI)							4	4	ALL THEORETICAL AND PRACTICAL LESSONS
TOTAL CREDITS OF THE SEMESTER					-	-	8		8	



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SEMESTER: 8

COURSE CODE / LESSON NO.	COURSE TITLE	COURSE TYPE			CREDITS					PREREQUISITE
		CORE	MAJOR	COMPLEMENTARY	THEORETICAL	PRACTICAL	PRACTICUM	FIELD WORK	TOTAL	
1420172	FIELDWORK 3 (DEDICATED X-RAY METHODS)							4	4	ALL THEORETICAL AND PRACTICAL LESSONS
1420173	FIELDWORK 4(MEDICAL ULTRASOUND)							4	4	ALL THEORETICAL AND PRACTICAL LESSONS
TOTAL CREDITS OF THE SEMESTER									8	