



**Kashan University of Medical Sciences**

**The Curriculum of the radiology** [Degree: **BSc**/MSc/MD/PhD/Specialty] **in** ..... [Major]

**Semester: 1**

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
01	General physics	*			2	1			-
03	General mathematics	*			2				-
18	Radiation physics	*			3				-
09	physiology	*			1/5	0/5			-
12	Introduction Information Technology	*			2				-
Total Credits of the Semester									



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Semester: 2

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
19	Physics of Diagnostic Radiology	*			3				Radiation physics
17	Registration and Display of Medical Images	*			2				-
06	Anatomy I	*			1/5	0/5			-
02	General Health	*			1				-
16	Medical Terminology in Radiology	*			1				-
24	Patient Care in Medical Imaging	*			2				physiology
04	Statistics	*			1				-
Total Credits of the Semester									


**The Curriculum of the radiology** [Degree: **BSc**/MSc/MD/PhD/Specialty] **in** ..... [Major]

**Semester: 3**

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
10	Cell Biology	*			2				-
07	Anatomy II	*			1/5	0/5			-
20	X-ray Methods I	*			3				Anatomy I
11	General pathology	*			1				physiology
42	Apprenticeship1	*					2		-
31	Radiation Dosimetry	*			1/5	0/5			Radiation physics
14	Professional Ethics	*			1				-
39	Basic maintenance of radiology Equipment	*			1/5	0/5			Physics of Diagnostic Radiology
Total Credits of the Semester									


**The Curriculum of the radiology [Degree: BSc/MSc/MD/PhD/Specialty] in ..... [Major]**
**Semester: 4**

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
13	Computer Applications in Medical Imaging	*			2				Introduction Information Technology
21	X-ray Methods II	*			3				Anatomy II
25	Radiobiology	*			2				Radiation physics Cell Biology
26	Materials with Controlled Properties Causing in medical Images	*			2				-
08	Anatomy III	*			2				-
23	pathology	*			2				General pathology
43	Apprenticeship2	*					2		-
30	Imaging with Ultrasound in Medicine	*			3				-
05	Community Languages	*			2				General Languages
Total Credits of the Semester									



**The Curriculum of the radiology** [Degree: **BSc**/MSc/MD/PhD/Specialty] **in** ..... [Major]

**Semester: 5**

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
33	Physical Principles of Computed Tomography Systems(C.T. Scan)	*			2				Physics of Diagnostic Radiology
22	X-ray Methods III	*			2				Anatomy III
32	Sectional Anatomy	*							
28	Evaluation of Medical Images I	*			2				pathology
35	Physical Principles of Imaging Systems(MRI)	*			2				-
38	Protection Against Radiation	*			2				Radiation Dosimetry
40	Seminar1	*				1			-
44	Apprenticeship3	*					2		-
27	Dedicated X-ray Methods	*			2				-
Total Credits of the Semester									


**The Curriculum of the radiology [Degree: BSc/MSc/MD/PhD/Specialty] in ..... [Major]**
**Semester: 6**

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
34	Techniques and clinical Aspects of Computed Tomography (C.T.Scan)	*			2				Sectional Anatomy Physical Principles of Computed Tomography Systems(C.T. Scan)
37	QA and QC Medical Imaging methods	*			2	1			Physics of Diagnostic Radiology Imaging with Ultrasound in Medicine Physical Principles of Imaging Systems(MRI) Physical Principles of Computed Tomography Systems(C.T. Scan)
29	Evaluation of Medical Images II	*			2				Sectional Anatomy Evaluation of Medical Images I
36	Imaging Technique and clinical Aspects (MRI)	*			2				Sectional Anatomy Physical Principles of Imaging Systems(MRI)
15	Hospital management	*			2				-
41	Seminar2	*				1			-
45	Apprenticeship4	*					2		-
Total Credits of the Semester									