



Kashan University of Medical Sciences

The Curriculum of the Medical Physics [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	
10	Nuclear Physics			*	2				-
09	Physics of Diagnostic Radiology			*	2				-
11	Medical information systems			*	0/5	0/5			-
08	Cell Biology and Genetics			*	2				-
07	Anatomy and Physiology			*	3				-
20	Technical language	*			2				General language
02	Mathematics			*	2				-
03	Biostatistics			*	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	
05	Research Methods in Medical Sciences			*	1/5	0/5			-
04	Principles of computer and its application in medicine			*	2	1			-
19	Ultrasound and its application in medicine	*			1/5	0/5			-
12	Principles of radiation detection and Dosimetry	*			1/5	0/5			Nuclear Physics
14	Radiobiology	*			2				-
13	Medical imaging systems	*			2				Physics of Diagnostic Radiology
32	Physical principles of devices Laboratory Sciences		*		1/5	0/5			-
Total Credits of the Semester									



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Semester: 3

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
15	Health protection ionizing radiation	*			1/5	0/5			Principles of radiation detection and Dosimetry
16	Physics of Nuclear Medicine	*			1/5	0/5			Principles of radiation detection and Dosimetry
17	Radiotherapy Physics 1	*			1/5	0/5			Principles of radiation detection and Dosimetry
18	MRI imaging method	*			1				Medical imaging systems
34	Image Processing		*		1/5	0/5			Medical imaging systems
21	Seminar	*			2				-
28	Quality control in radiology systems		*		1	1			Medical imaging systems
30	Light and optical physics		*		0/5	0/5			-
Total Credits of the Semester									



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**Semester: 4**

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
22	Thesis	*				6			-
Total Credits of the Semester									

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