



Kashan University of Medical Sciences

The Curriculum of [Degree: BSc/MSc/MD/PhD/Specialty] in Clinical Laboratory sciences

Semester: 1

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1429127	Cell and Molecular Biology	*			2	1		3	-
1429128	Anatomy	*			2			2	-
1429129	Anatomy (Practical)	*				1		1	At the same time Anatomy
1429123	General Chemistry	*			2			2	-
1429124	General Chemistry (Practical)	*				1		1	At the same time General Chemistry
1429138	Biostatistics	*			2			2	-
1429137	Computer	*			2			2	-
Total Credits of the Semester					10	3		13	

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Semester: 2

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1429125	Basic Biochemistry	*			3			3	General Chemistry
1429126	Basic biochemistry (Laboratory)	*				1		1	At the same time Basic Biochemistry
1429133	Histology	*			1			1	Anatomy
1429134	Histology (Laboratory)	*				1		1	At the same time Histology
1429143	General Microbiology	*			2			2	Cell and Molecular Biology
1429144	General Microbiology (Laboratory)	*				1		1	At the same time General Microbiology
1429178	Clinical Genetics	*			1			1	Cell and Molecular Biology
1429130	Physiology	*			2			2	Cell and Molecular Biology
1429131	Physiology (Practical)	*				1		1	At the same time Physiology
1429108	English	*			3			3	-
Total Credits of the Semester					12	4		16	

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Semester: 3

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1429121	General Physics	*			2			2	-
1429122	General Physics (Laboratory)	*				1		1	At the same time Physics
1429141	Clinical Biochemistry I		*		3			3	Basic Biochemistry
1429142	Clinical Biochemistry I (Laboratory)		*			1		1	At the same time Clinical Biochemistry I
1429160	Terminology		*		2			2	-
1429147	Clinical Immunology		*		3			3	Physiology
1429148	Clinical Immunology (Laboratory)		*			2		2	At the same time Clinical Immunology
Total Credits of the Semester					10	4		14	

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Semester: 4

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1429155	Clinical Biochemistry II		*		2			2	Clinical Biochemistry I
1429156	Clinical Biochemistry II (Laboratory)		*			1		1	At the same time Clinical Biochemistry II
1429145	Parasitology I (worms)		*		2			2	Cell and Molecular Biology
1429146	Parasitology I (Laboratory)		*			1		1	At the same time Parasitology I
1429175	Clinical Bacteriology		*		3			3	General Microbiology
1429176	Clinical Bacteriology (Laboratory)		*			1		1	At the same time Clinical Bacteriology
1429157	pharmacology	*			2			2	Clinical Biochemistry I Physiology
1429131	Biophysics	*			2			2	Physics
Total Credits of the Semester					11	3		14	

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Semester: 5

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1429149	Clinical Virology		*		2			2	General Microbiology
1429150	Clinical Virology (Laboratory)		*			1		1	At the same time Clinical Virology
1429151	Parasitology II (protozoa and insects)		*		2			2	Parasitology I
1429152	Parasitology II (Laboratory)		*			1		1	At the same time Parasitology II
1429162	Hematology I		*		3			3	Physiology
1429163	Hematology I (Laboratory)		*			2		2	At the same time Hematology I
1429164	Technical & Maintenance the laboratory equipment		*		1			1	Clinical Biochemistry II Biophysics
Total Credits of the Semester					8	4		12	

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Semester: 6

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1429171	Hematology II		*		2			2	Hematology I
1429172	Hematology II (Laboratory)		*			1		1	At the same time Hematology II
1429169	Clinical Mycology		*		2			2	General Microbiology
1429170	Clinical Mycology (Laboratory)		*			1		1	At the same time Clinical Mycology
1429153	Pathology		*		2			2	Histology
1429154	Pathology (Laboratory)		*			1		1	At the same time Pathology
1429135	Public Health and Epidemiology	*			2			2	-
1429158	Toxicology	*			1			1	pharmacology
1429159	Toxicology (Laboratory)	*				1		1	At the same time Toxicology
1429161	Safety and protection in the laboratory		*		1			1	Clinical Immunology Clinical Virology
Total Credits of the Semester					10	4		14	

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Semester: 7

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1429165	Immunoematology		*		2			2	Clinical Immunology
1429166	Immunoematology (Laboratory)		*			1		1	At the same time Immunoematology
1429167	Hormone		*		1			1	Clinical Biochemistry II
1429168	Hormone (Laboratory)		*			1		1	At the same time Hormone
1429174	Quality control methods in clinical laboratories		*		1			1	Hematology II Clinical Biochemistry II
1429179	Seminar		*		1			1	Hematology II Clinical BiochemistryII
1429177	Introduction to Internal Medicine		*		2			2	Hematology II Clinical Biochemistry I
1429173	Management principles and rules Laboratory		*		1			1	Safety and protection in the laboratory
1429180	Clinical Training I		*				4	4	-
Total Credits of the Semester					8	2	4	14	

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Semester: 8

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1429181	Clinical Training II (Hematology Rotation)		*				4		All theoretical and Laboratory lessons
1429181	Clinical Training II(Parasitology Rotation)		*				4		All theoretical and Laboratory lessons
1429181	Clinical Training II(Biochemistry Rotation)		*				4		All theoretical and Laboratory lessons
1429181	Clinical Training II(Bacteriology Rotation)		*				4		All theoretical and Laboratory lessons
Total Credits of the Semester							12	12	All theoretical and Laboratory lessons