



Course Description Guide in Bachelor of Medical Laboratory Sciences (Continuous)

First semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Introduction to laboratory sciences	1	0.5	0.5	General chemistry
2	General chemistry	2	2		
3	General Chemistry Lab	1		1	General chemistry
4	anatomy	2	1.5	0.5	
5	Cellular & Molecular Biology	2	2		General chemistry
6	Public Health & Epidemiology	1	1		
7	Research method and biostatistics	2	2		
8	Theoretical Foundations of Islam (1)	2	2		
9	Physical education (1)	1		1	
10	Persian literature	3	3		
11	Medical emergencies	1	0.75	0.25	
Total		18 credits			



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Second semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	General biochemistry	3	3		General chemistry
2	General biochemistry lab	1		1	General biochemistry
3	Parasitology (1)	2	2		Cellular & Molecular Biology
4	Parasitology lab (1)	1		1	Parasitology (1)
5	General Pathology	1	1		
6	General Pathology lab	1		1	General Pathology
7	Physiology	2	2		Anatomy
8	Physiology lab	1		1	Physiology
9	General Microbiology	2	2		Cellular & Molecular Biology
10	General Microbiology lab	1		1	General Microbiology
11	Computer sciences	2	1.5	0.5	
12	Islamic ethics	2	2		
Total		19 credits			



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Third semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Clinical Biochemistry (1)	2	2		General biochemistry
2	Clinical Biochemistry lab (1)	1		1	Clinical Biochemistry (1)
3	Clinical immunology (1)	2	2		General microbiology
4	Clinical immunology lab (1)	1		1	Clinical immunology (1)
5	Parasitology (protozoans & insects) (2)	2	2		Parasitology (1)
6	Parasitology lab (protozoans & insects) (2)	2		2	Parasitology (2)
7	Biophysics	2	2		General biochemistry
8	Theoretical Foundations of Islam (2)	2	2		Theoretical Foundations of Islam (1)
9	General English	3	3		
10	Practicum (1)	2		2	
Total		18 credits			



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Forth Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Hormonology	2	1.75	0.25	Orientation to surgical technology
2	Medical Bacteriology	2	2		Microbiology and parasitology (1)
3	Medical Bacteriology lab	2	1.5	0.5	Medical Bacteriology
4	Hematology (2)	2	2		Hematology (1)
5	Hematology lab (2)	1		1	Hematology (2)
6	General pathology	2	2		Histology and hematology (1)
7	General pathology lab	1		1	General pathology
8	Technical Principles & Maintenance of Laboratory Equipment	1	1		Physics and general chemistry
9	Medical Virology	2	1.75	0.25	General microbiology
10	Medical Genetics	2	2		Medical biochemistry and biology
Total		18 credits			



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Fifths Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Medical mycology	2	2		General microbiology
2	Medical mycology lab	1		1	Medical mycology
3	Toxicology and pharmacology	2	2		Pathology
4	Toxicology and pharmacology lab	1		1	Toxicology and pharmacology
5	Principles of Safety & Protection in Laboratory	2	2		Hematology (2)
6	Immunohematology and blood transfusion	2	2		Hematology (2)
7	Immunohematology and blood transfusion lab	1		1	Immunohematology and blood transfusion
8	Quality Control Methods in Clinical Laboratories	1		1	
9	Iran Islamic Revolution	2	2		
Total			18 credits		



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Sixth Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Medical biochemistry (2)	3	3		Medical biochemistry (1)
2	Medical biochemistry lab (2)	1		1	Medical biochemistry (2)
3	Hematology (1)	3	3		Physiology
4	Hematology lab (1)	2		2	Hematology (1)
5	Medical Immunology (2)	1	1		Medical Immunology (1)
6	Medical Immunology lab (2)	1		1	Medical Immunology (2)
7	Medical terminology	2	2		General English
8	Population and family planning	2	2		
9	Physical education (2)			1	Physical education (1)
10	Thematic Commentary of the Quran	2	2		
Total		18 credits			



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Seventh Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Internship	4		4	
2	Basic and Advanced Laboratory Techniques in Histopathology and Cytology	1	1.5	0.5	Medical genetics
3	Seminars	1	1		
4	Islamic History & Civilization	2	2		
5	Introduction to Islamic Sources	2	2		
Total		11 credits			



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Eighth Semester

No	Title	No of credit	Course hours		Prepositions
			Theoretical	Practical	
1	Internship	10		10	
Total		10 credits			