



Kashan University of Medical Sciences

The Curriculum of the BSc in Environmental Health Engineering

Semester: 1

CourseCode / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1724201	Math 1	*	-		4	-	-	4	-
1724205	General Physics	*	-		2	1	-	3	-
1724206	General chemistry	*	-		2	1	-	3	-
1724209	Survey	*	-		1	1	-	2	-
1724210	Biostatistics	*	-		2	-	-	2	-
1724002	English pre-university Language	-	-		2	-	-	2	-
1010101	Islamic opinion 1	-	-		2	-	-	2	-
Total Credits of the Semester					<u>15</u>	<u>3</u>	-	<u>18</u>	



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Semester: 2

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1724202	Math 2	*	-		3	-	-	3	Math 1
1724220	Environmental chemistry	-	*		1	1	-	2	General chemistry
1724208	Principles of Epidemiology	*	-		2	-	-	2	-
1724204	Computer and its application	*	-		1	1	-	2	-
1724207	Pathobiology	*	-		1	1	-	2	-
1724237	Principles of Health Care Management	-	*		1	-	-	1	-
1010201	Farsi Literature	-	-		3	-	-	3	-
1010103	Islamic opinion 2	-	-		2	-	-	2	Islamic opinion 1
Total Credits of the Semester					<u>14</u>	<u>3</u>	-	<u>17</u>	



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Semester: 3

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1724203	differential equations	*	-		3	-	-	3	Math 2 or At the same time courses
1724229	Food Health	-	*		1	1	-	2	Principles of Epidemiology - Pathobiology
1724236	Safety of application of chemicals material and pesticides	-	*		1	-	-	1	General chemistry - Environmental chemistry
1724218	Radiation hygiene and protection	-	*		1	1	-	2	General Physics
1724226	Technical drawing and Cartography	-	*		0.5	1.5	-	2	Survey- Computer and its application
1724003	General English 1	-	-		3	-	-	3	English pre-university Language
1010103	Islamic ethics	-	-		2	-	-	2	-
1724234	Environmental Disinfectants	-	*		1	-	-	1	General Physics - General chemistry- Pathobiology
1724238	Hydrology and geo-hydrology	-	*		2	-	-	2	Pathobiology
Total Credits of the Semester					<u>14.5</u>	<u>3.5</u>	-	<u>8</u>	

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Semester: 4

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1724211	Statistics and Construction Materials Strength	*	-		3	-	-	3	Math 1- Math 2- differential equations
1724213	Fundamentals of Thermodynamics and Heat Transfer	*	-		2	-	-	2	Math 1- Math 2- differential equations
1724228	Municipal and industrial solids waste	-	*		2	1	-	3	Pathobiology - Principles of Epidemiology
1724219	Environmental Microbiology	-	*		1	1	-	2	Path biology
1724214	Fluid Mechanics	-	*		2	-	-	2	Math 1- Math 2- differential equations- General Physics
1724235	Environmental health management in emergencies	-	*		1	-	-	1	-
1724215	Specialized English	-	*		2	-	-	2	-
1010203	Exersise1	-	-		-	1	-	1	-
1010106	Introduction to Islamic sources	-	-		2	-	-	2	-
Total Credits of the Semester					<u>15</u>	<u>3</u>	-	<u>18</u>	



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Semester: 5

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1724240	Water quality management	-	*		2	-	-	2	Environmental chemistry- Environmental Microbiology- Hydrology and geo-hydrology
1724230	Hydraulics	-	*		2	-	-	2	Fluid Mechanics
1724224	Engineering Economics	-	*		2	-	-	2	-
1724217	Unit Operation and Unit processes in environmental health	-	*		2	-	-	2	General Physics- General chemistry - Environmental Microbiology- Environmental chemistry
1724212	Soil Mechanics	*	-		2	-	-	2	Statistics and Construction Materials Strength
1724233	principal safety and occupational health	-	*		2	-	-	2	General Physics - General chemistry
1724246	Environmental Epidemiology	-	*		2	-	-	2	Principles of Epidemiology
1010105	Inferential Analysis of history Islam Manifestation	-	-		2	-	-	2	-
Total Credits of the Semester					<u>16</u>	<u>0</u>	-	<u>16</u>	



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Semester: 6

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1724221	water Transmission and distribution systems	-	*		1	1	-	2	Fluid Mechanics- Hydraulics
1724225	Wastewater treatment	-	*		2	-	-	2	Unit Operation and Unit processes in environmental health - Environmental Microbiology - Environmental chemistry
1724227	Vector Control methods	-	*		2	-	-	2	Pathobiology - Hydraulics
1724242	Environmental laws and regulations and environmental health	-	*		1	-	-	1	-
1724249	house and Common places Health	-	*		1	-	-	1	General Physics - General chemistry
1010108	Family planning and population Learning	-	-		2	-	-	2	-
1724223	water treatment	-	*		2	-	-	2	Unit Operation and Unit processes in environmental health - Environmental Microbiology - Environmental chemistry
1724222	Wastewater and surface water	-	*		1	1		2	Fluid Mechanics- Hydraulics

	collection systems								
1010204	Exercise 2	-	-		-	1	-	1	-
1010107	Iran and Islamic Culture and Civilization	-	-		2	-	-	2	-
1724216	air pollution	-	*		2	1	--	3	Fundamentals of Thermodynamics and Heat Transfer - Fluid Mechanics
Total Credits of the Semester					<u>16</u>	<u>4</u>		<u>20</u>	



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Semester: 7

Course Code / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1724248	Industrial wastewater	-	*		2	-	-	2	Environmental Microbiology - Environmental chemistry- Unit Operation and Unit processes in environmental health - Wastewater treatment
1724232	Operation and maintenance of water and wastewater facilities	-	*		-	2	-	2	water Transmission and distribution systems - Wastewater and surface water collection systems - water treatment - Wastewater treatment
1724231	Application of motor Pumps in water and wastewater facilities	-	*		1	-	-	1	water Transmission and distribution systems - Wastewater and surface water collection systems - Technical drawing and Cartography
1724239	Introduction to Modeling in Environmental Health systems	-	*		2	-	-	2	-
1724241	Application of biotechnology in environmental health	-	*		1	-	-	1	Environmental Microbiology - Environmental chemistry
1724243	Project	-	*		-	1	-	1	-
1010104	Islamic Revolution	-	-		2	-	-	2	-
Total Credits of the Semester					<u>8</u>	<u>3</u>	-	<u>11</u>	



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Semester: 8

CourseCode / Lesson No.	Course Title	Course Type			Credits				Prerequisite
		Core	Major	Complementary	Theoretical	Practical	Practicum	Total	
1724252	Clerkship (1 and 2)	-	*		-	-	8	8	-
1724253	Clerkship (3 and 4)	-	*		-	-	8	8	Clerkship (1 and 2)
Total Credits of the Semester					-	-	<u>16</u>	<u>16</u>	