

Educational Subjects for Departments of Medical Physics in Iraqi Colleges of Science



First Level

First Semester

number of units	Practical hours	Theoretical hours	The Subject in English Language	No.
3	2	2	Mechanics (1)	1
3	2	2	Electricity and Magnetism	2
3	2	2	Analytical Chemistry	3
2	--	2	Mathematics (1)	4
3	2	2	General Biology (1)	5
1	2	--	Computer Science (1)	6
2	--	2	Arabic Language	7
1	--	1	Human Rights	8
18 units	Total units for first semester			

Second Semester

number of units	Practical hours	Theoretical hours	The Subject in English Language	No.
3	2	2	Mechanics (2)	1
3	2	2	Biophysics	2
3	2	2	Organic Chemistry	3
2	--	2	Mathematics (2)	4
3	2	2	General Biology (2)	5
1	2	--	Computer Science (2)	6
2	--	2	English (1)	7
1	--	1	Democracy	8
18 units	Total units for second semester			

Total units for first level (36 units) semester

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Second Level

First Semester

number of units	Practical hours	Theoretical hours	The Subject in English Language	No.
3	2	2	Heat and Thermodynamic	1
3	2	2	Optics	2
3	2	2	Biostatistics	3
2	--	2	Mathematics (3)	4
3	2	2	Atomic Physics	5
1	2	--	Computer Science (3)	6
3	2	2	Physiology	7
2	--	2	Electromagnetic Waves	8
20 units	Total units for first semester			

Second Semester

number of units	Practical hours	Theoretical hours	The Subject in English Language	No.
3	2	2	Medical Imaging	1
3	2	2	Molecular Biology	2
3	2	2	Bioelectronics	3
2	--	2	Mathematics (4)	4
2	--	2	Healthy Culture	5
1	2	--	Computer Science (4)	6
2	--	2	English (2)	7
2	--	2	Phonetics Science	8
18 units	Total units for second semester			

Total units for second level (38 units) semester

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Third Level



First Semester

number of units	Practical hours	Theoretical hours	The Subject in English Language	No.
3	2	2	Medical Physics (1)	1
3	2	2	Anatomy (1)	2
2	--	2	in Medicine Quantum Mechanics	3
2	--	2	Medical Terminology	4
3	2	2	Physics of Diagnostic Radiology (1)	5
3	2	2	Laser Basics	6
3	2	2	Analog Electronics	7
2	--	2	Optional (1)	8
21 units	Total units for first semester			

Second Semester

number of units	Practical hours	Theoretical hours	The Subject in English Language	No.
3	2	2	Medical Physics (2)	1
3	2	2	Anatomy (2)	2
3	2	2	Biochemistry	3
3	2	2	Physics of Nuclear Medicine	4
3	2	2	Medical Laser Applications	5
2	--	2	English (3)	6
3	2	2	Digital Electronics	7
2	--	2	Optional (2)	8
22 units	Total units for second semester			

Total units for third level (43 units) semester

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Fourth Level

First Semester

number of units	Practical hours	Theoretical hours	The Subject in English Language	No.
3	2	2	Medical Physics (3)	1
3	2	2	Medical Image Processing and Analysis	2
3	2	2	Medical Instrumentation Physics	3
3	2	2	Radiotherapy Physics	4
2	--	2	English (4)	5
2	4	--	Research Project	6
2	--	2	Optional (3)	7
18 units	Total units for first semester			

Second Semester

number of units	Practical hours	Theoretical hours	The Subject in English Language	No.
3	2	2	Medical Physics (4)	1
3	2	2	Neurophysics	2
2	--	2	Material Science and Nanotechnology	3
2	--	2	Biomaterials	4
2	4	--	Research Project	5
2	--	2	Optional (4)	6
14 units	Total units for second semester			

Total units for fourth level (32 units) semester

Graduation research is recorded at four units at the end of the year

The Total Number of Graduation Units :

$$**36 + 38 + 43 + 32 = 149 UNITS**$$