

Department: physics

Curricula for the bachelor's degree for four years and two semesters, according to the following table

First year							
First semester				Second semester			
	Subjects	Unit	Number of hours		Subjects	Unit	Number of hours
1	Electricity	2	2(Theory)	1	Magnetism	2	2(Theory)
2	Mechanics I	2	2(Theory)	2	Mechanics II	2	2(Theory)
3	Modern Physics I	2	2(Theory)	3	Modern Physics II	2	2(Theory)
4	Mathematics I	2	2(Theory)	4	Mathematics II	2	2(Theory)
5	Programing Language I	1	2(Theory),2 Practical	5	Programing Language II	1	2(Theory and 2 Practical)
6	General chemistry	2	2(Theory)	6	Astronomy	2	2(Theory)
7	Human rights	1	2(Theory)	7	Freedom & democracy	1	2(Theory)
8	Arabic Language 1	2	2(Theory)	8	English Language	2	2(Theory)
	Total Number of Units	14			Total Number of Units	14	

Second year

Second year			
First semester			
	Subjects	Unit	Number of hours
1	Thermodynamics I	3	2(Theory)
2	Electronics I	2	2(Theory)
3	Mathematics III	2	2(Theory)
4	Numerical Analysis I	2	2(Theory), 2 Practical
5	Analytical Mechanics I	2	2(Theory)
6	English Language	2	2(Theory),
7	Programing language I (Matlab)	2	2(Theory), 2 Practical
8	Practical Physics I	3	
	Total Number of Units	18	

Second semester			
	Subjects	Unit	Number of hours
1	Thermodynamics II	3	2(Theory)
2	Electronics II	2	2(Theory)
3	Quantum Mechanics I	2	2(Theory)
4	Mathematics IV	2	2(Theory)
5	Analytical Mechanics II	2	2(Theory)
6	Molecular physics	2	2(Theory)
7	Programing Language II (Matlab)	2	2(Theory), 2 Practical
8	Practical Physics II	3	
	Total Number of Units	18	

Third year

First semester			
	Subjects	Unit	Number of hours
1	Quantum Mechanics II	2	2(Theory)
2	optics I	3	3 (Theory)
3	Laser Physics I	2	2(Theory)
4	English Language	2	2(Theory)
5	Mathematical Physics I	3	3 (Theory)
6	Material science	2	2(Theory)
7	Semiconductors I	2	2(Theory)
8	Practical Physics I	3	
	Total Number of Units	18	

Second semester			
	Subjects	Unit	Number of hours
1	Quantum Mechanics III	2	2(Theory)
2	optics II	3	3 (Theory)
3	Laser Physics II	2	2(Theory)
4	Modeling& Simulation	2	2(Theory)
5	Mathematical Physics II	3	3 (Theory)
6	Statistical Mechanics	2	2(Theory)
7	Semiconductors II	2	2(Theory)
8	Practical Physics II	3	
	Total Number of Units	18	

Fourth year

First semester			
	Subjects	Unit	Number of hours
1	Nuclear Physics I	3	2(Theory)
2	Solid State Physics I	3	2(Theory)
3	Electromagnetic theory I	2	2(Theory)
4	Nanoscience I	2	2(Theory)
5	English Language	2	2(Theory)
6	Meteorology	2	2(Theory)
7	Nuclear spectrum	2	1(Theory)
8	Practical Physics I	3	4 (2 Nuclear Physics & 2 Solid State Physics)
	Total Number of Units	19	

second semester			
	Subjects	Unit	Number of hours
1	Nuclear Physics II	3	2(Theory)
2	Solid State Physics II	3	2(Theory)
3	Electromagnetic theory II	2	2(Theory)
4	Nanoscience II	2	2(Theory)
5	Medical physics	2	2(Theory)
6	High Energy physics	2	2(Theory)
7	Research Project	2	1(Theory)
8	Practical Physics II	3	4 (2 Nuclear Physics, 2 Solid State Physics)
	Total Number of Units	19	