

القسم: الفيزياء

المناهج الدراسية لمرحلة البكالوريوس لأربع مراحل وللصفين الدراسيين، وحسب الجدول الآتي

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	