

Department of Physics
Academic Course Description
General Physics Branch

First year							
First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Mechanics and Properties of Materials (1)	2	2	3	Mechanics and Properties of Materials (2)	2	2	3
Electricity	2	2	3	Magnetism	2	2	3
Mathematics (1)	2	-	2	Mathematics (2)	2	-	2
Computers (1)	-	2	1	Computers (2)	-	2	1
General Astronomy	2	-	2	General Chemistry	2	2	3
Human Rights	1	-	1	Democracy	1	-	1
Arabic Language	2	-	2	English (1)	2	-	2

Second year							
First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Modern Physics (1)	2	2	3	Modern Physics (2)	2	2	3
Heat and Thermodynamic	2	2	3	Thermodynamic and Statistical	2	2	3
Analytical Mechanics(2	-	2	Analytical Mechanics (2)	2	-	2
Analog Electronics	2	2	3	Digital Electronics	2	2	3
Mathematics (3)	2	-	2	Mathematics (4)	2	-	2
English (2)	2	-	2	Sound and Wave Motion	2	-	2
Computers (3)	-	2	1	Sound and Wave Motion	-	2	1

Third year							
First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Geometrical Optics	2	2	3	Physical Optics	2	2	3
Laser Physics (1)	2	2	3	Leaser Physics (2)	2	2	3
Quantum Mechanics (1)	2	-	2	Quantum Mechanics (2)	2	-	2
Material Physics (1)	2	2	3	Material Physics (2)	2	2	3
Numerical Analytic	2	2	2	Molecular Physics	2	-	2
English (3)	2	-	2	Mathematics (5)	2	2	3
				Spectra	2	-	2
				Optional (2)	2	-	2

Fourth year

First semester

Second semester

Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Nuclear Physics (1)	2	2	3	Nuclear Physics (2)	2	2	3
Solid State Physics (1)	2	2	3	Solid State Physics (2)	2	2	3
Electromagnetic Theory (1)	2	-	2	Electromagnetic Theory (2)	2	-	2
Mathematical Physics (1)	2	-	2	Mathematical Physics (2)	2	-	2
Nano- science	2	-	2	Plasma Physics	2	-	2
English (4)	2	-	2	Bio-Physics	2	-	2
Optional (3)	2	-	2	Optional (4)	2	-	2
Research Project	2	-	2	Research Project	2	-	2