

Study Plan of the Program of physics

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030119	English Language (1)	3	6	-----
42041103	Calculus (1)	4	4	-----
42011103	General Biology	4	5	-----
11010101	Islamic culture (1)	2	2	-----
11020204	Health Culture	1	1	-----
18091501	Arabic editing	2	2	-----
First Year: Second Term				
11030219	English Language (2)	3	6	11030119
42032102	General Physics (1)	4	5	-----
42020102	General Chemistry (1)	4	5	-----
11020107	Holy Quran	2	2	-----
11010111	Islamic culture (2)	2	2	-----
Second Year: First Term				
42031219	General Physics (2)	3	5	42032102
42021218	General Chemistry for physics	3	3	42020102
42031207	Mathematical Physics (1)	3	3	-----
42041229	Calculus (2)	3	3	42041103
42031211	Waves and Vibrations	2	3	42032102
42031277	Specialized English Language	3	2	-----
11010113	Voluntary service (1)	0	0	-----
Second Year: Second Term				
42031213	Alternating Current Circuits	3	4	42031219
42031206	Mathematical Physics (2)	3	3	42031207
42031208	Classical Mechanics (1)	3	3	42031207
42031214	Electromagnetism	3	3	42031219
42031212	Thermodynamics	2	2	42032102
42031210	Physical Optics	3	4	42031211
11010123	Voluntary service (2)	0	0	-----
Third Year: First Term				
42031321	Mathematical Physics (3)	3	3	42031206
42031325	Classical Mechanics (2)	3	3	42031208
42031311	Electronics (1)	3	4	42031219
42031323	Scientific Programming	3	4	42031206
42031313	Modern Physics	3	4	42031219
42031315	Statistical Physics	3	3	42031212
Third Year: Second Term				

42031326	Solid State Physics (1)	3	4	42031219
42031306	Quantum Mechanics (1)	3	3	42031325
42031324	Nuclear Physics (1)	3	4	42031313
42031407	Computational Physics	3	4	42031323
42031320	Electronics (2)	3	4	42031311
42031322	Electrodynamics	3	3	42031214
Fourth Year: First Term				
42031434	Graduation Research	3	3	CrH 85
42031411	Atomic Physics	3	3	42031313
42031413	Solid State Physics (2)	3	4	42031326
	Elective Course (1)	2	2	-----
11010112	Research&Essay Writing Skills	2	2	-----
42031415	Radiation Physics	2	2	42031324
42031417	Introduction to Plasma Physics	2	2	42031322
Fourth Year: Second Term				
42031428	Nuclear Physics (2)	3	4	42031324
42031430	Laser Physics	2	2	42031411
42031432	Semi-conductor Physics	3	4	42031413
42031403	Quantum Mechanics (2)	3	3	42031306
	Elective Course (2)	2	2	-----
42031436	Molecular Spectroscopy	2	2	42031411
42031438	Material Physics	2	2	42031413
Electives (1)				
42031423	Biophysics	2	2	42031219
42031425	Physics of Thin Films	2	2	42031326
42031427	Advanced Laboratory Techniques	2	2	42031326
Electives (2)				
42031440	Nano Structures	2	2	42031413
42031444	Elementary Particles	2	2	42031324
42031446	Physics of Renewable Energy	2	2	42031413