

Study Plan

Degree : Bachelor	Faculty : College of Science and Human	Plan Hrs.: 135
Semester : 461	Department : Physics	Plan Type : Major
Edition : 6	Gender : Both	
Major : PHY58	Physics	

Council Session:	Deanship Session :	Faculty Session :	Dept Session:
Council Date:	Deanship Date:	Faculty Date:	Dept Date :

Group Type : 1 إجبارية

First						
code	course name	H	G	L	H	requisite
CHEM 1301	Chemistry 1	3				-
CIT 1301	Computer Skills	3				-
MATH 1304	Introduction to Probability & Statistic	3				-
MATH 1307	Calculus 1	3				-
PHYS 1401	Physics 1	4				-
SLM 1202	Social Values in Islam	2				-
Total						18

Second						
code	course name	H	G	L	H	requisite
CUR 1201	Academic Skills	2				-
ENGL 1301	English Language	3				-
MATH 1308	Calculus 2	3				MATH 1307 - / P
PHYS 1321	Classical Mechanics 1	3				PHYS 1401 - / P
PHYS 1402	Physics 2	4				PHYS 1401 - / P
PHYS 1403	Methods of Theoretical Physics 1	4				MATH 1307 - / P
Total						19

Third						
code	course name	H	G	L	H	requisite
MATH 1306	Differential Equations	3				MATH 1308 - / P
PHYS 2311	computer application in physics	3				PHYS 1403 - / P
PHYS 2312	Electricity and Magnetism 1	3				PHYS 1402 - / P
PHYS 2313	Classical Mechanics 2	3				PHYS 1321 - / P
PHYS 2314	Vibrations and Waves	3				PHYS 1402 - / P
PHYS	Methods of	4				PHYS 1403 - / P

Group Type : 1 إجبارية

Third						
code	course name	H	G	L	H	requisite
2415	Theoretical Physics 2					
Total						19

Forth						
code	course name	H	G	L	H	requisite
PHYS 2221	Electromagnetic Lab	2				PHYS 2312 - / P
PHYS 2224	Wave Physics Lab	2				PHYS 2314 - / P
PHYS 2322	Electricity and Magnetism 2	3				PHYS 2312 - / P
PHYS 2323	Optics	3				PHYS 2314 - / P
PHYS 2325	Modern Physics	3				PHYS 1402 - / P
Total						13

Fifth						
code	course name	H	G	L	H	requisite
ARB 1201	Language Skills	2				-
PHYS 3213	Modern Physics Lab	2				PHYS 2325 - / P
PHYS 3311	Electronics	3				PHYS 1402 - / P
PHYS 3314	Nuclear Physics	3				PHYS 2325 - / P
PHYS 3412	Quantum Mechanics	4				PHYS 2325 - / P
SLM 1201	Principles of Islam	2				-
Total						16

Sixth						
code	course name	H	G	L	H	requisite
PHYS 3223	Introduction to Nanoscience and Nanotechnology	2				PHYS 3422 - / C
PHYS 3225	Nuclear Physics Lab	2				PHYS 3314 - / P
PHYS	Laser Physics	3				PHYS 2325 - / P

P : Pre-requisite

G : GPA level

H : Requisite HRS

C: Co- requisite MC : Mandetory Co--requisite NC: None Co- requisite L : Pre-course Level

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Group Type : 1 إجبارية

Group Type : 1 إختيارية (9)

Sixth							
code	course name	H	G	L	H	requisite	Yrl
3324							
PHYS 3326	computational physics	3				PHYS 1402 - / P PHYS 1403 - / P	-
PHYS 3421	Thermal & Statistical Physics	4				PHYS 2325 - / P	-
PHYS 3422	Solid-state physics	4				PHYS 3412 - / P	-
Total							18

Seventh							
code	course name	H	G	L	H	requisite	Yrl
PHYS 4113	Physics Seminar	1				-	-
PHYS 4211	Solid state Physics Lab	2				PHYS 3422 - / P	-
PHYS 4312	Atomic & Molecular Physics	3				PHYS 3412 - / P	-
PHYS 4314	Semiconductor Physics	3				PHYS 3422 - / P	-
PHYS 4315	Selected Topics in Applied Physics	3				PHYS 3422 - / P	-
PHYS 4399	Undergraduate Research Projects	3				PHYS 4211 - / C	-
Total							15

Eighth							
code	course name	H	G	L	H	requisite	Yrl
PHYS 4699	Collaborative training	6				PHYS 4399 - / P	-
Total							6

Forth							
code	course name	H	G	L	H	requisite	Yrl
CHEM 1302	Physical Chemistry	3				CHEM 1301 - / P PHYS 1401 - / P	-
PHYS 3327	Physics of Solar cells	3				PHYS 3422 - / P	-
PHYS 3328	Introduction to Materials Science	3				PHYS 3422 - / P	-
PHYS 3329	Plasma Physics	3				PHYS 2312 - / P	-
PHYS 3330	Renewable energy	3				PHYS 1402 - / P	-
PHYS 4325	Physical spectroscopic analysis	3				PHYS 2325 - / P	-
PHYS 4326	Introduction to Quantum Information and Computing	3				PHYS 3412 - / P	-
PHYS 4327	Cosmology and the Early universe	3				PHYS 1402 - / P	-
PHYS 4328	Radiation and Health Physics	3				PHYS 3314 - / P	-
Total							27

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Category :

Group Type : 2 إختيارية (2)

Forth							
code	course name	H	G	L	H	requisite	Yrl
ARB 2201	Arabic Writing	2				-	-
BA 2201	Entrepreneurship	2				-	-
CIS 2201	Digital Transformation	2				-	-
HIS 2201	National History	2				-	-
SLM 2201	Jurisprudence of Worship	2				-	-
SLM 2202	Contemporary Issues	2				-	-
Total							12