

Degree Plan

Degree : BACHELOR	Faculty : Sciences & Arts Najran	Plan hrs : 135
Semester : 445	Dept : Physics	Plan Type : Main
Edition : 1	Major : 340404	Gender : All

Group : إجبارية (127)

First					
code	Course Name	Hr.	requisite	Year	Activities Desc
101-BIO-1	General Biology(Practical)	1	-	-	Practical (1)
101-BIO-3	General Biology	3	-	-	Theoretical (3)
101-MAT-3	Calculus	3	-	-	Theoretical (3)
101-PHY-1	Introduction to Physics (Practical)	1	-	-	Practical (1)
101-PHY-3	Introduction to Physics	3	-	-	Theoretical (3)
101-CIS-2	Digital Skills and Artificial Intelligence	2	-	-	Theoretical (2)
103-PEN-2	General English	2	-	-	Theoretical (2)
111-TQF-2	Muslim Culture(1)	2	-	-	Theoretical (2)
Total					17

Second					
101-CHM-1	General Chemistry (Practical)	1	-	-	Practical (1)
101-CHM-3	General Chemistry	3	-	-	Theoretical (3)
110-PHY-3	Classical Mechanics (1)	3	101-PHY-3 - S	-	Theoretical (3)
112-MAT-3	Integral Calculus	3	101-MAT-3 - S	-	Theoretical (3)
130-PHY-3	Electricity and magnetism (1)	3	101-PHY-3 - S	-	Theoretical (3)
150-PHY-3	Mathematical physics (1)	3	101-MAT-3 - S	-	Theoretical (3)
212-TQF-2	Muslim Culture(2)	2	-	-	Theoretical (2)
Total					18

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Third

code	Course Name	Hr.	requisite	Year	Activities Desc
101-ARB-2	Language Skills and Writing	2	-	-	Theoretical (2)
210-MAT-3	Advanced calculus	3	112-MAT-3 - S	-	Theoretical (3)
211-PHY-3	Classical Mechanics (2)	3	110-PHY-3 - S 112-MAT-3 - S	-	Theoretical (3)
231-PHY-3	Electricity and magnetism(2)	3	130-PHY-3 - S	-	Theoretical (3)
232-PHY-1	Electricity and magnetism Lab.	1	-	-	Practical (1)
240-PHY-3	Heat and thermodynamics	3	101-PHY-3 - S	-	Theoretical (3)
251-PHY-3	Mathematical physics (2)	3	150-PHY-3 - S	-	Theoretical (3)
Total					18

Forth

201-STAT-2	Statistics and probability theory	2	101-MAT-3 - S	-	Theoretical (2)
212-PHY-3	Classical Mechanics (3)	3	211-PHY-3 - S	-	Theoretical (3)
220-PHY-3	Vibrations and Waves	3	-	-	Theoretical (3)
222-PHY-3	Optics	3	220-PHY-3 - M	-	Theoretical (3)
223-PHY-1	Optics lab.	1	222-PHY-3 - M	-	Practical (1)
233-PHY-2	Electric Circuits	2	231-PHY-3 - S	-	Theoretical (2)
234-PHY-1	Electric Circuits lab.	1	233-PHY-2 - M	-	Practical (1)
241-PHY-1	Heat and thermodynamics lab.	1	240-PHY-3 - S	-	Practical (1)
Total					16

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Fifth					
code	Course Name	Hr.	requisite	Year	Activities Desc
102-NAT-2	National Identity	2	-	-	Theoretical (2)
313-PHY-2	Classical Mechanics (4)	2	212-PHY-3 - S	-	Theoretical (2)
315-PHY-2	Special relativity	2	212-PHY-3 - S	-	Theoretical (2)
321-PHY-1	Vibrations and Waves Lab.	1	220-PHY-3 - S	-	Practical (1)
352-PHY-3	Mathematical physics (3)	3	251-PHY-3 - S	-	Theoretical (3)
360-PHY-2	Modern Physics	2	-	-	Theoretical (2)
361-PHY-1	Modern Physics lab.	1	360-PHY-2 - M	-	Practical (1)
Total					13

Sixth					
314-PHY-1	Classical Mechanics lab.	1	-	-	Practical (1)
316-PHY-3	Quantum mechanics (1)	3	360-PHY-2 - S 352-PHY-3 - S	-	Theoretical (3)
335-PHY-3	Electromagnetic Theory	3	231-PHY-3 - S	-	Theoretical (3)
336-PHY-3	Electronics	3	231-PHY-3 - S	-	Theoretical (3)
337-PHY-1	Electronics lab.	1	336-PHY-3 - M	-	Practical (1)
342-PHY-3	Statistical Mechanics	3	240-PHY-3 - S	-	Theoretical (3)
362-PHY-2	Structure of Matter	2	360-PHY-2 - S	-	Theoretical (2)
Total					16

Seventh					
353-PHY-3	Computational Physics	3	-	-	Theoretical (2), Practical (1)
417-PHY-3	Quantum mechanics (2)	3	316-PHY-3 - S	-	Theoretical (3)
418-PHY-2	Fluid Mechanics	2	-	-	Theoretical (2)
463-PHY-2	Atomic and Molecular spectroscopy	2	360-PHY-2 - S	-	Theoretical (2)
470-PHY-3	Solid state physics	3	316-PHY-3 - S 362-PHY-2 - S	-	Theoretical (3)
471-PHY-1	Solid state physics Lab	1	470-PHY-3 - M	-	Practical (1)
Total					14

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Eighth

code	Course Name	Hr.	requisite	Year	Activities Desc
424-PHY-2	Laser physics	2	463-PHY-2 - S	-	Theoretical (2)
472-PHY-3	Nuclear Physics	3	362-PHY-2 - S	-	Theoretical (3)
473-PHY-1	Nuclear Physics Lab.	1	472-PHY-3 - M	-	Practical (1)
474-PHY-2	Semiconductor Physics	2	470-PHY-3 - S	-	Theoretical (2)
475-PHY-1	Semiconductor Physics Lab.	1	474-PHY-2 - M	-	Practical (1)
488-PHY-3	Graduation Project	3	316-PHY-3 - S 470-PHY-3 - S	-	Theoretical (2), Practical (1)
Total					12

Ninth

489-PHY-3	Cooperative Training	3	-	-	Training (3)
Total					3

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Group : إختيارية (4)

101-BUS-2	Professional Ethics	2	-	-	Theoretical (2)
102-BUS-2	Business Ethics	2	-	-	Theoretical (2)
code	Course Name	Hr.	requisite	Year	Activities Desc
110-BUS-2	Management Principles	2	-	-	Theoretical (2)
111-PEN-2	English for Academic Purposes	2	-	-	Theoretical (2)
201-HIST-2	The History of Saudi Arabia	2	-	-	Theoretical (2)
416-EDU-2	Volunteering and Social Responsibility	2	-	-	Theoretical (2)
Total					12
480-PHY-2	Atmospheric physics	2	418-PHY-2 - S	-	Theoretical (2)
481-PHY-2	Renewable Energy	2	-	-	Theoretical (2)
482-PHY-2	Biophysics	2	418-PHY-2 - S	-	Theoretical (2)
483-PHY-2	Nanoscience and nanotechnology	2	470-PHY-3 - S	-	Theoretical (2)
484-PHY-2	Accelerators and Reactors Physics	2	472-PHY-3 - S	-	Theoretical (2)
485-PHY-2	Radiation Physics	2	362-PHY-2 - S	-	Theoretical (2)
486-PHY-2	Medical Physics	2	463-PHY-2 - S	-	Theoretical (2)
487-PHY-2	Astrophysics	2	-	-	Theoretical (2)
Total					16