

Degree Plan for B.Ed. in Physics

Minimum No. of Credits for the Degree Plan = 135					
University Requirements = 24 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/ Co-requisites
			Theory	Practical	
ARAB100	Arabic Language I	3	3	0	
ARAB101	Arabic Language II	3	3	0	ARAB100
HIST150	Islamic Civilization	3	3	0	
ENGL150	English Language	3	3	0	
ENGL152	English Language II	3	3	0	ENGL150
ENGL155	Communication Skills	3	3	0	ENGL152
COMP101/L	Computer Skills	3	2	2	COMP-A,COMP-B, Digital Literacy
MNGT100	Entrepreneurship: Creativity and Innovation	3	3	0	
University Electives = 3 Credits					
College Requirements = 20 Credits					
MATH116	Pre-Calculus	4	3	2	
MATH211	Calculus I	4	3	2	MATH116
STAT101	Introduction to Statistics	4	3	2	
COMP151	Introduction to Algorithms	4	3	2	COMP101/L
PHYS101/L	General Physics I	4	3	2	MATH116
College Electives = 3 Credits					
Physics Requirements = 37 Credits					
MATH212	Calculus II	3	2	2	MATH211
MATH215	Ordinary Differential Equations	3	2	2	MATH212
PHYS150/L	General Physics II	4	3	2	PHYS101/L
PHYS204	Modern Physics	4	3	2	PHYS150/L
PHYS205/L	Experimental Methods in Electronics	3	2	2	PHYS150/L
PHYS207	Thermodynamics	4	3	2	PHYS150/L,MATH211
PHYS225	Physics for Teachers	3	2	2	PHYS150/L
PHYS256	Electromagnetism and Applications I	3	2	2	PHYS150/L, MATH215(co-req)
PHYS260/L	Sound and Optics	4	3	2	PHYS101/L
PHYS311/L	Experimental Methods in Atomic & Nuclear Physics	3	2	2	PHYS205
PHYS315	Radiation and Health Physics	3	2	2	PHYS204

Education Requirements = 30 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/ Co-requisites
			Theory	Practical	
EDUC103	Educational Psychology	3	3	0	
EDUC113	Foundations of Education	3	3	0	
EDUC200	Curriculum and Instruction	3	3	0	EDUC103
EDUC202	Systems of Education and Administration in the GCC	3	3	0	
EDUC204	Technology of Education	3	2	2	COMP101/L
EDUC301	Methods of Teaching	3	2	2	EDUC200
EDUC302	Guidance and School Counseling	3	3	0	EDUC103
EDUC400	Psychological Measurement and Educational Evaluation	3	2	2	STAT101
EDUC402	Practical Education	6	0	12	EDUC301
Department Electives = 18 Credits					
Students have to take one of the 18-credit approved university minors listed below:					
<ul style="list-style-type: none"> • Computer Science • Mathematics • Statistics 					