

**Degree Plan for B.Ed. in Physics -2018**

<b>Minimum No. of Credits for Graduation in this degree plan = 135</b>			
<b>University Requirements = 24 Credits</b>			
<b>Course Code</b>	<b>Course Description</b>	<b>No. of Credits</b>	<b>Pre-requisites</b>
ARAB100	Arabic Language I	3	
ARAB101	Arabic Language II	3	ARAB100
HIST150	Islamic Civilization	3	
ENGL150	English Language I	3	
ENGL152	English Language II	3	ENGL150
ENGL155	Communication Skills	3	ENGL152
COMP101	Computer Skills	3	COMP-A,COMPB - Digital Literacy
MNGT100	Entrepreneurship: Creativity and Innovation	3	
<b>University Electives = 3 Credits</b>			
<b>College Requirements = 20 Credits</b>			
MATH116	Pre-Calculus	4	
MATH211	Calculus I	4	MATH116
STAT101	Introduction to Statistics	4	
COMP151/L	Introduction to Algorithms	4	COMP101
PHYS101/L	General Physics I	4	MATH116
<b>College Electives = 3 Credits</b>			
<b>Physics Requirements = 43 Credits</b>			
MATH212	Calculus II	3	MATH211
MATH215	Ordinary Differential Equations	3	MATH212
PHYS150/L	General Physics II	4	PHYS101/L
PHYS204/L	Modern Physics	4	PHYS150/L
PHYS205	Experimental Methods in Electronics	3	PHYS150/L
PHYS207/L	Thermodynamics	4	PHYS150/L, MATH211
PHYS225	Physics for Teachers	3	PHYS150/L
PHYS256	Electromagnetism and Applications I	3	PHYS150, MATH215(co-req)
PHYS260/L	Sound and Optics	4	PHYS101/L
PHYS311	Experimental Methods in Atomic & Nuclear Physics	3	PHYS205
PHYS315/L	Radiation and Health Physics	3	PHYS204/L
PHYS490	Final Year Project	6	Completed 90 Credits
<b>Education Requirements = 30 Credits</b>			
EDUC103	Educational Psychology	3	
EDUC113	Foundations of Education	3	
EDUC200	Curriculum and Instruction	3	EDUC103
EDUC202	Systems of Education and Administration in the GCC	3	
EDUC204	Technology of Education	3	COMP101
EDUC301	Methods of Teaching	3	EDUC200
EDUC302	Guidance and School Counselling	3	EDUC103
EDUC402	Practical Education	6	EDUC301
EDUC400	Psychological Measurement and	3	STAT101



	Educational Evaluation		
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<b>Department Electives = 12 Credits</b>
Students have to take one of the 12-credit approved university minors listed below: <ul style="list-style-type: none"><li>• Computer Science</li><li>• Mathematics</li><li>• Statistics</li></ul>