

## Study Plan for B.Sc. in Physics

Year	Course Code	Course Name	Pre-requisites	Credit Hours	Course Code	Course Name	Pre-requisites	Credit Hours
Semester One (Pre-Major)					Semester Two			
1	ARAB100	Arabic Language I		3	ARAB101	Arabic Language II	ARAB100	3
	ENGL150	English Language I		3	ENGL152	English Language II	ENGL150	3
	HIST150	Islamic Civilization		3	PHYS101/L	General Physics I	MATH116	4
	COMP101/L	Computer Skills	COMP A/B Digital Literacy	3	MATH211	Calculus I	MATH116	4
	MATH116	Pre-Calculus		4	STAT101	Intr. to Statistics		4
	<b>Semester Total</b>				<b>16</b>	<b>Semester Total</b>		
Semester Three					Semester Four			
2	ENGL155	Communication Skills	ENGL152	3	CHEM101/L	General Chemistry I		4
	COMP151/L	Intr. to Algorithms	COMP101/L	4	PHYS204/L	Modern Physics	PHYS150/L	4
	MATH212	Calculus II	MATH211	3	PHYS260/L	Sound and Optics	PHYS101/L	4
	PHYS150/L	General Physics II	PHYS101/L	4	MATH215	Ordinary Differential Equations	MATH212	3
	MNGT100	Entrepreneurship : Creativity and Innovation		3	PHYS207/L	Thermodynamics	MATH211 PHYS150/L	4
	<b>Semester Total</b>				<b>17</b>	<b>Semester Total</b>		
Semester Five					Semester Six			
3	PHYS205/L	Exp. Methods in Electronics	PHYS150/L	3	PHYS256	Electro-magnetism & Applications I	PHYS150/L MATH215 (Co-req)	3
	PHYS220	Intr. Laser Science	PHYS204/L	3	PHYS311/L	Exp. Methods in Atomic & Nuclear Phys	PHYS205/L	3
		Department Elective		3	PHYS301	Quantum Mechanics I	PHYS204/L, MATH215	3
		Department Elective		3		Department Elective		3
		Department Elective		3		Department Elective		3
		College Elective		3		College Elective		3
	<b>Semester Total</b>				<b>18</b>	<b>Semester Total</b>		

		Semester Seven				Semester Eight			
4	PHYS404	Solid State Physics	PHYS301	3	PHYS490	Final Year Project	Completed 90 credits	3	
	PHYS365	Thermal & Statistical Phys	PHYS207/L MATH215	3	PHYS405/L	Nuclear Science Application	PHYS311/L	3	
		Department Elective		3		Department Elective		3	
	PHYS490	Final Year Project	Completed 90 credits	3		Department Elective		3	
		Department Elective		2					
		University Elective		3					
	<b>Semester Total</b>				<b>17</b>	<b>Semester Total</b>			
<b>Grand Total: 135</b>									