

Physics Department (Study Plan)

Year	Course Code	Course Title	Required or Elective	* Pre-Requisite Courses	CH	College or Department
1stYear - Level1	101ISLM	Islamic Culture 1	R	----	2	Col. Humanities
	105ENGL	English Language	R	----	6	ELTC
	101BIO	General Biology	R	----	4	Biology
	101MATH	General Mathematics	R	----	3	Mathematics
	101COMP	Introduction Computer Sci.	R	----	3	Coll. Comp. & IT
1stYear - Level2	102ISLM	Islamic Culture 2	R	----	2	Col. Humanities
	101ARAB	Linguistic Skills	R	----	2	Col. Humanities
	101PHYS	General Physics	R	----	4	Physics
	101CHEM	General Chemistry	R	----	4	Chemistry
	106ENGL	Scientific English	R	105 ENGL	3	ELTC
2nd Year - Level3	102ARAB	Arabic Editing	R	----	2	Col. Humanities
	221PHYS	Properties of Matter and Heat	R	----	4	Physics
	231PHYS	Electricity and Magnetism	R	----	4	Physics
	251PHYS	Classical Mechanics	R	----	3	Physics
	201MATH	Differentiation and Integration	R	----	3	Mathematics
2nd Year - Level4	103ISLM	Islamic Culture 3	R	----	2	Col. Humanities
	202MATH	Differential Equation	R	201MATH	3	Mathematics
	211PHYS	Geometrical Optics	R	----	3	Physics
	212PHYS	Waves and Vibrations	R	251 PHYS	2	Physics
	222PHYS	Thermodynamic	R	221 PHYS	3	Physics
	252PHYS	Mathematical Physics	R	201MATH	3	Physics
3rdYear - Level5	301STAT	Statistics	R	----	2	Mathematics
	311PHYS	Electronics (1)	R	231 PHYS	3	Physics
	312PHYS	Physical Optics	R	211 PHYS	4	Physics
	331PHYS	Electrodynamics	R	231 PHYS	3	Physics
	341PHYS	Modern Physics (1)	R	----	3	Physics
	351PHYS	Analytical Mechanics	R	251 PHYS	3	Physics
3rdYear - Level6	104ISLM	Islamic Culture 4	R	----	2	Col. Humanities
	301COMP	Computer Programming	R	101 COM	3	Coll. Comp. & IT
	342PHYS	Atomic Physics & Spectroscopy	R	312 PHYS	4	Physics
	352PHYS	Quantum Mechanics (1)	R	252 PHYS	3	Physics
	353PHYS	Statistical Physics	R	222 PHYS & 301 STAT	2	Physics
	371PHYS	Solid State Physics (1)	R	311 PHYS	3	Physics
4thYear - Level7	411PHYS	Electronics (2)	R	311 PHYS	4	Physics
	412PHYS	Laser & Its Applications	R	312 PHYS	3	Physics
	451PHYS	Quantum Mechanics (2)	R	352 PHYS	3	Physics
	461PHYS	Nuclear Physics (1)	R	352 PHYS	3	Physics
	491PHYS	Graduation Project	R	Dept. Approval	2	Physics
4th Year - Level8	441PHYS	Modern Physics (2)	R	342 PHYS	4	Physics
	452PHYS	Plasma Physics	R	353 PHYS	3	Physics
	462PHYS	Nuclear Physics (2)	R	461 PHYS	4	Physics
	471PHYS	Solid State Physics (2)	R	371 PHYS	4	Physics