

ENGINEERING PHYSICS

Course No	Course Name	Credits	A full Semester					
			Time Segments when it runs					
			1/6	2/6	3/6	4/6	5/6	6/6
SEM – 1								
ID1054	Digital Fabrication	2						
ID1035	Independent Project	1						
MA1110	Calculus-I	1						
MA1220	Calculus-II	2						
PH1017	Classical Physics	1						
ID1200	Introduction to Programming	1						
ID1201	Introduction to Programming (Lab)	2						
EE1010	Electric Circuits	1						
EE1020	Magnetic Circuits	1						
EE1110	Boolean Algebra	1						
CY1031	Chemistry Lab	2						
CY1017	Environmental Chemistry-I	1						
Laxxxx	Liberal and Creative Arts Electives	2						
		18						
SEM – 2								
MA1130	Vector Calculus	1						
MA1140	Linear Algebra	1						
MA1150	Differential Equations	1						
PH1027	Electro Magnetism and Maxwells Equation	1						
CY1027	Dynamics of Chemical Systems-I	1						
BO1010	Introduction to Life Sciences	1						
CS1270	Introduction Data Base Management System	1						
CS1271	Introduction Data Base Management System (Lab)	1						
CS1230	Introduction to Data Structures	1						
CS1231	Introduction to Data Structures (Lab)	2						
CS1280	Introduction to Operating System	1						
EE1170	Embedded programming	1						
XXxxxx	Free Elective	1						
XXxxxx	Free Elective	1						
Laxxxx	Liberal and Creative Arts Electives	2						
		17						
SEM – 3								
CS2230	Data Structures	2						
CS2231	Data structure (Lab)	2						
CS2250	Computer Networks-I	1						
CS2200	Algorithm-I	1						
CS2210	Theory of Computation-I	1						
EE2120	Computer Organization	1						
EE2310	Information Science	1						
EE2020	Linear Electronics	1						

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PH1031	Physics Lab	2						
PH2017	Relativity	1						
PH2117	Photonics	1						
MA2110	Probability	1						
ID1041	Engineering Drawing	2						
BM1030	Bio-engineering	1						
Laxxxx	Liberal and Creative Arts Electives	2						
		20						
SEM – 4								
EE2140	CMOS Fabrication	1						
EE2210	Power Electronics	1						
EE2130	Advance Analog Electronics	2						
CS2300	Algorithm-II	2						
CS2370	Database Management System Internals	2						
CS2371	Database Management System Internals (Lab)	2						
CS2310	Theory of Computation-II	2						
PH2027	Quantum Physics	1						
PH2127	Astroparticle Physics	1						
PH2041	Physics Lab	2						
Laxxxx	Liberal and Creative Arts Electives	1						
		17						
SEM – 5								
EE2110	Digital systems and Design	1						
EE2511	Basic Electrical Engineering Lab	2						
EE2320	Digital Modulation Technique	1						
EE2010	Device Physics	2						
PH3127	Hydrogenic Atoms	1						
PH3237	Approx methods in Quantum Mechanics	1						
PH3317	Thermal Physics	1						
PH2197	Complex Analysis	1						
PH2177	Linear Vector Spaces	1						
PH2187	Fourier Series and Integral Transforms	1						
PH3227	Nonlinear Dynamics	1						
PH3367	Experimental techniques	1						
PH3117	Wave Formalism of Quantum Mechanics	1						
PH3051	Physics Lab	2						
Laxxxx	Liberal and Creative Arts Electives	2						
XXxxxx	Free elective	2						
		21						
SEM - 6								
PH3288	Analytical Mechanics	2						
PH2287	Special functions and Differential Equation	1						

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PH3348	Statistical Physics	2						
PH3338	Photonics and Laser	2						
PH3347	Crystal Structure	1						
PH3337	High Energy Physics	1						
PH3287	Atomic and Molecular Physics	1						
PH3257	Scattering Theory	1						
PH3267	Symmetries in Quantum Mechanics	1						
PH3277	Relativistic Quantum Mechanics	1						
PH2297	Group theory	1						
PH2218	Electrodynamics	2						
PH3061	Physics Lab	2						
LAxxxx	Liberal and Creative Arts Electives	2						
		20						
SEM – 7								
PH4268	Solid State Physics	2						
PH3478	Particle Physics	2						
PH3537	Nuclear Physics	1						
PH3358	Spectroscopy	2						
PH4368	Characterization Techniques	2						
PHxxxx	Core Elective	2						
PH4075	Project	3						
PH4071	Lab	2						
Laxxxx	Liberal and Creative Arts Electives	2						
XXxxxx	Free Electives	2						
		20						
SEM - 8								
PHxxxx	Core-Electives	2						
PHxxxx	Core-Electives	2						
PHxxxx	Core-Electives	2						
XXxxxx	Free Electives	2						
XXxxxx	Free Electives	2						
LAxxxx	Liberal and Creative Arts (Professional Ethics)	2						
		12						