

Engineering Physics - NEW curriculum (Updated on 18th November 2019)

Semester	Course No	Course Name	Credits	Offered by...
1	ID1054	Digital Fabrication	2	ME
1	ID1035	Independent Project	1	ID
1	EP1567	Maths for Physics - I	1	PH
1	MA1220	Basic Calculus - II	2	PH
1	EP1017	Classical Physics	1	PH
1	ID1303	Introduction to Programing	2	CSE
1	ID1310	Electric Circuits	1	EE
1	ID1320	Magnetic Circuits	1	EE
1	MA1110	Basic Calculus I	1	MA
1	XXxxxx	Free elective	2	FE
1	ID1340	Digital System Design	1	EE
1	ID1330	Applied Digital Logic Design	1	EE
1	EP2217	Classical Electromagnetism	1	PH
1	ID1393	Introduction to Drones	1	EE
			18	
2	EP1587	Tensors and differential forms	1	PH
2	EE1040	Matrix Analysis	1	MA
2	CS1353	Introduction to Data Structures	3	CSE
2	CY1020	Dynamics of Chemical Systems - 1	1	CY
2	EP1027	Electromagnetism and Maxwell Eqn	1	PH
2	EP2817	Modern Physics	1	PH
2	EP2827	Thermodynamics	1	PH
2	EP2027	Quantum Physics	1	PH
2	XXxxxx	Free elective	3	
2	Laxxxx	LA/CA	2	FE
			15	
3	CS2233	Data Structure	3	CSE
3	EE2137	Analog electronics	2	EE
3	EE2230	Power Electronics	2	EE
3	CY1031	Chemistry Lab	2	CY
3	EP1031	BTech Physics Lab	2	PH
3	EP2117	Photonics	1	PH
3	EP2017	Relativity	1	PH
3	Mexxxx/ID	Fluid Mechanics	2	ME

3	EP3288	Analytical Mechanics	2	PH
			17	
4	EE2134	Analog System Design	1	EE
4	XXxxxx	Free elective	3	FE
4	CS2440	Algorithm	3	CSE
4	EP2127	Astroparticle Physics	1	PH
4	EP3317	Statistical Physics - I	1	PH
4	EP2041	Engineering Physics Lab - I	2	PH
4	Laxxxx	LA/CA	2	LA
			13	
5	EE2188	Electronic Devices and Circuits	1	EE
5	EP3117	Wave formalism of Quantum Mechanics	1	PH
5	EP3127	Hydrogenic Atoms	1	PH
5	EP3267	Symmetries in Quantum Mechanics	1	PH
5	EP3367	Experimental techniques- I	1	PH
5	EP2177	Linear Vector Spaces	1	PH
5	EP2187	Fourier Series and Integral Transforms	1	PH
5	EP2197	Complex Analysis	1	PH
5	EP3227	Nonlinear Dynamics	1	PH
5	EP3095	Project	2	PH
5	EP3051	Engineering Physics Lab - II	2	PH
5	EP2218	Electrodynamics	2	PH
5	EP3588	Computational Physics I	1	PH
5	LAxxxx	LA/CA	2	
			19	
6	EE2189	Physics of CMOS Transistors	2	EE
6	EP2287	Special functions and Differential Eqn	1	PH
6	EP2297	Group theory	1	PH
6	EP3257	Scattering Theory	1	PH
6	EP3237	Approx methods in Quantum Mechanics	1	PH
6	EP3277	Relativistic Quantum Mechanics	1	PH
6	EP3337	High Energy Physics	1	PH
6	EP3347	Crystal Structure	1	PH
6	EP3348	Statistical Physics - II	2	PH
6	EP3338	Photonics & Laser	2	PH
6	PHxxxx	Core elective	2	PH
6	EP4275	Project	3	PH
6	EP3061	Engineering Physics Lab - III	2	PH

			20	
7	EP4268	Solid State Physics	2	PH
7	EP3478	Particle Physics	2	PH
7	EP3287	Atomic & Mol Phys	1	PH
7	EP3537	Nuclear Physics	1	PH
7	EP3358	Spectroscopy	2	PH
7	PHxxxx	Core elective	2	PH
7	EP3027	Accelerator Physics	1	PH
7	EPxxxx	Core Elective	2	PH
7	EP4071	Engineering Physics Lab - IV	2	PH
7	LAxxxx	LA/CA	2	LA
			18	
8	XXxxxx	Free elective	2	
8	PHxxxx	Core-Electives	2	PH
8	PHxxxx	Core-Electives	2	PH
8	Laxxxx	Professional Ethics	1	LA
8	XXxxxx	LA/CA	2	FE
			9	
			127	