

## Engineering Physics - 2019 (Senate approved, April 2021)

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	EP3100	Quantum Mechanics-1	3	PH
5	PH3095	Project	3	PH
5	EP3110	Electrodynamics	3	PH
5	PH3348	Statistical Physics - II	2	PH
5	PH3051	Engineering Physics Lab - II	2	PH
5	LAxxxx	LA/CA	2	
5	EP3130	Mathematical Physics-1	3	PH
			17	
6	EP3200	Solid State Physics	3	PH
6	EP3210	Quantum Mechanics-II	3	PH
6	EP3230	Atomic and Molecular Physics	3	PH
5	EP3105	Project-1	2	PH
6	PHxxxx	Core elective	2	PH
6	EP5101	Core EP lab-4	2	PH
6	PH3588	Computational Physics I	1	PH
6	EP3208	Advanced Mathematical Physics	2	PH
6	PH3338	Photonics & Laser	2	PH
6	PH3227	Nonlinear Dynamics	1	PH
			21	
7	EP4108	Nuclear Physics	2	PH
7	EP4710	Particle Physics	3	PH
7	EPxxxx	Elective-II	3	PH
7	EP5201	Core-EP Lab-5	2	PH
7	FExxxx	Free Elective	3	FE
7	LAxxxx	LA/CA	2	LA
<b>Total</b>			<b>15</b>	
8	EPxxxx	Elective-III	3	PH
8	XXxxxx	Free Elective	3	FE
8	FExxxx	Free Elective	3	FE
8	XXxxxx	LA/CA	2	FE
8	Laxxxx	Professional Ethics	1	LA
			9	
			<b>125</b>	