

Semester I								
S.N	Course	Code	Title	L	T	P	C	H
1	core	12M11PH102	Advanced Mathematical Physics	3	1	0	4	4
2	core	12M11PH101	Electrodynamics	3	1	0	4	4
3	core	17M11PH103	Classical Mechanics	3	1	0	4	4
4	skill	12M11CI101	Programming language C	3	1	0	4	4
		12M11CI102	Data Structure					
5	core	12M11PH103	Advanced Quantum Mechanics	3	1	0	4	4
6	core	12M17EC171	Analogue Electronics Lab	0	0	2	1	2
7	skill	12M17CI171	Programming lab	0	0	2	1	2
8	skill	12M11CI172	Computational Skill	0	0	2	1	2
			core:17, skill:6	15	5	6	23	26

Semester II								
S.N	Course	Code	Title	L	T	P	C	H
1	core	12M11PH201	Solid state physics	3	1	0	4	4
2	core	12M11PH302	Statistical physics	3	1	0	4	4
3	core	12M11PH203	Atomic and molecular spectroscopy	3	1	0	4	4
4	core	12M11PH204	Nuclear and particle physics	3	1	0	4	4
5	core	12M11EC201	Digital Electronics	3	1	0	4	4
6	Elective-1	12M14EC202	IC Fabrication Technology	3	0	0	3	3
		12M14CH201	Polymer Science & Technology					
7	core	12M17CI271	HDL programming lab	0	0	2	1	2
8	core	12M17PH271	Physics lab-1	0	0	2	1	2
			core: 22, elective:3	18	5	4	25	27

Semester III								
S.N	Course	Code	Title	L	T	P	C	H
1	core	12M11PH301	Condensed matter physics	3	1	0	4	4
2	core	12M11PH303	Non-linear optics and applications	3	1	0	4	4
3	core	17M11PH303	Plasma Physics	3	1	0	4	4
4	core	12M11PH305	Microprocessor and Microcontroler	3	1	0	4	4
5	Elective-2	12M14PH301	Sensors and transducers	3	0	0	3	3
		12M14PH302	Laser and its applications					
6	core	12M17EC371	Microprocessor lab	0	0	2	1	2
7	core	12M17PH371	Solid state lab	0	0	2	1	2
			core:18, elective:3	15	4	4	21	23

Semester IV								
S.N	Course	Code	Title	L	T	P	C	H
1	core	17M11PH401	Solid State Electronics	3	1	0	4	4
2	core	12M11EC402	Communication systems	3	1	0	4	4
3	Elective-3	17M11PH403	Nanomaterials	3	0	0	3	3
		12M14PH404	Physics of thin film technology					
4	Elective-4	12M14EC402	Antenna and Wave propagation	3	0	0	3	3
		12M14PH402	Solar photovoltaic, priciples and applications					
5	core	12M17PH471	MATLAB	0	0	2	1	2
6	Elective	12M19PH491	Project	0	0	12	6	12
			core:9, Elective: 12	12	2	14	21	28

Total credit 90

Core 66

Elective 18

Skill 6