

M.Sc (Physics with Specialization in Electronics)

Semester I								
S.N	Course	Code	Title	L	T	P	C	H
1	core		Advanced Mathematical Physics	3	1	0	4	4
2	core		Electrodynamics	3	1	0	4	4
3	core		Linear integrated circuits and applications	3	1	0	4	4
4	skill		Programming language C	3	1	0	4	4
			Data structure					
5	core		Advanced quantum mechanics	3	1	0	4	4
6	core		Analogue Electronics Lab	0	0	2	1	2
7	skill		Programming lab	0	0	2	1	2
8	skill		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		Solid state physics	3	1	0	4	4
2	core		Statistical physics	3	1	0	4	4
3	core		Atomic and molecular spectroscopy	3	1	0	4	4
4	core		Nuclear and particle physics	3	1	0	4	4
5	core		Digital Electronics	3	1	0	4	4
6	Elective-1		IC fabrication technology	3	0	0	3	3
			Polymer Science & Technology					
7	core		HDL programming lab	0	0	2	1	2
8	core		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		Condensed matter physics	3	1	0	4	4
2	core		Non-linear optics and applications	3	1	0	4	4
3	core		Superconductivity and its applications	3	1	0	4	4
4	core		Microprocessor and Microcontroller	3	1	0	4	4
5	Elective-2		Sensors and transducers	3	0	0	3	3
			Laser and its applications					
6	core		Microprocessor lab	0	0	2	1	2
7	core		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		Digital signal processing	3	1	0	4	4
2	core		Communication systems	3	1	0	4	4
3	Elective-3		Dielectric, Magnetic and optical materials	3	0	0	3	3
			Physics of thin film technology					
4	Elective-4		Antenna and Wave propagation	3	0	0	3	3
			Solar photovoltaic, principles and applications					
5	core		MATLAB	0	0	2	1	2
6	Elective		Project	0	0	12	6	12
			core:9, Elective: 12	12	2	14	21	28

Total credit	90
Core	66
Elective	18
Skill	6
	90