

Structure of 2-year 4-semester M. Tech course in Optics & Optoelectronics						
SEMESTER – 1		L	T	P	Credit	Full Marks
M111	Optical Communication System	3	0	0	3	100
M112	Analog and Digital Image Processing	3	0	0	3	100
M113	Lasers, Optoelectronic detectors and display	3	0	0	3	100
M114	Elective I	3	0	0	3	100
MP11	Information Optics	0	0	6	4	100
MP12	Fiber Optics	0	0	6	4	100
		12	0	12	20	600
SEMESTER – 2						
M121	Optical System Analysis and Design	3	0	0	3	100
M122	Advanced Optical Instrumentation and Measurement	3	0	0	3	100
M123	Nonlinear Optics	3	0	0	3	100
M124	Elective II	3	0	0	3	100
M125	Elective III	3	0	0	3	100
MP21	Laser and Nonlinear Optics	0	0	6	4	100
MP22	Optical Design	0	0	6	4	100
		15	0	12	23	700
SEMESTER – B3						
M231	Research Methodology	2	0	0	2	100
M232S	General Seminar	-	-	-	3	100
M233D	Project-Phase I	-	-	-	3	100
		2	-	-	8	300
SEMESTER – 4						
B241D	Project -Phase II (Project Implementation)	-	-	-	10	300
B242V	Grand Viva	-	-	-	4	100
		-	-	-	14	400
	Total Credit				65	2000

	M114-Elective I	M124-Elective II	M125-Elective III
a)	Illumination Engineering	Nanophotonic devices and System	AI based Photonic Systems
b)	Statistical and Quantum Optics	Advanced Microscopy	Remote Sensing
c)	Diffractive and Micro Optics	Biomedical Optics and Biophotonics	Green Photonics