

SCHEME

M.Sc. (Applied Physics)

Semester-I

S. No.	Subject Code	Subject	L	T	P	Credits		Th.	CW	SW	Pr	Total
						T	P					
1.	PH97105	Classical and Statistical Mechanics	4	-	-	4	-	70	30	-	-	100
2.	PH97106	Communication and Digital Electronics	4	-	-	4	-	70	30	-	-	100
3.	PH97107	Electrodynamics and Relativity	4	-	-	4	-	70	30	-	-	100
4.	PH97108	Mathematical Methods and Numerical Analysis	4	-	-	4	-	70	30	-	-	100
5.	PH97173	Analog and Digital Electronics Lab	-	-	8	-	4	-	-	40	60	100
6.	PH97174	Applied Physics Lab and Workshop Practice	-	-	8	-	4	-	-	40	60	100
7.	PH97198	Comprehensive Viva	-	-	-	-	4	-	-	-	100	100
Total			16	-	16	16	12	280	120	80	220	700

Semester-II

S. No.	Subject Code	Subject	L	T	P	Credits		Th.	CW	SW	Pr	Total
						T	P					
1.	PH97205	Atomic and Molecular Physics	4	-	-	4	-	70	30	-	-	100
2.	PH97206	Computer Programming	4	-	-	4	-	70	30	-	-	100
3.	PH97207	Quantum Mechanics	4	-	-	4	-	70	30	-	-	100
4.	PH97208	Solid State Physics	4	-	-	4	-	70	30	-	-	100
5.	PH97273	Computer Programme Lab and Engg. Drawing	-	-	8	-	4	-	-	40	60	100
6.	PH97274	Basic Laser and Fiber Optics Lab	-	-	8	-	4	-	-	40	60	100
7.	PH97298	Comprehensive Viva	-	-	-	-	4	-	-	-	100	100
Total			16	-	16	16	12	280	120	80	220	700

Semester-III

S. No.	Subject Code	Subject	L	T	P	Credits		Th.	CW	SW	Pr	Total
						T	P					
1.	PH97305	Nuclear and Particle Physics	4	-	-	4	-	70	30	-	-	100
2.	PH97308	Lasers and Applications	4	-	-	4	-	70	30	-	-	100
3.		Elective-I	4	-	-	4	-	70	30	-	-	100
4.		Elective-II	4	-	-	4	-	70	30	-	-	100
5.	PH97389	Advanced Lasers and Fiber Optics Lab	-	-	8	-	4	-	-	40	60	100
6.	PH97390	Optical Communication and Nanomaterial Lab	-	-	8	-	4	-	-	40	60	100
7.	PH97398	Quiz/Assignment/Seminar-III	-	-	-	-	2	-	-	50	-	50
8.	PH97399	Comprehensive Viva	-	-	-	-	4	-	-	-	50	50
Total			16	-	16	16	14	280	120	130	170	700

Semester-IV

S. No.	Subject Code	Subject	L	T	P	Credits		Th.	CW	SW	Pr.	Total
						T	P					
1.	PH97499	Dissertation	-	-	44	-	26	-	-	120	180	300
TOTAL					44		26	-	-	120	790	300

Elective – I (Semester – III)

S. No.	Subject Code	Subject	L	T	P	Credits		Th.	CW	SW	Pr.	Total
						T	P					
1.	PH97306	Fiber and Integrated Optics	4	-	-	4	-	70	30	-	-	100
2.	PH97307	Nano Science and Nano Technology	4	-	-	4	-	70	30	-	-	100

Elective – II (Semester – III)

S. No.	Subject Code	Subject	L	T	P	Credits		Th.	CW	SW	Pr.	Total
						T	P					
1.	PH973XX	Industrial Lasers and Applications	4	-	-	4	-	70	30	-	-	100
2.	PH973XX	Applied Photonics and Applications	4	-	-	4	-	70	30	-	-	100
3.	PH973XX	Optoelectronics and Applications	4	-	-	4	-	70	30	-	-	100