

M.Sc Physics Programme Structure

SEMESTER I

S.No.	Course Code	Course Title	Teaching Schedule			No. of Credit
			Lecture	Tutorial	Practical	
1.	PH-37	Classical Mechanics	3	1	-	4
2.	PH-38	Mathematical Physics	3	1	-	4
3.	PH-39	Electronics	3	1	-	4
4.	PH-40	Computational Physics	3	1	-	4
5.		Elective-I	2			2
6.	PH-41	Electronics Lab.	-	-	4	2
7.	PH-42	Computer Lab.	-	-	4	2
Total Credits in First Semester						22

SEMESTER II

S.No.	Course Code	Course Title	Teaching Schedule			No. of Credit
			Lecture	Tutorial	Practical	
1.	PH-43	Quantum Mechanics-I	3	1	-	4
2.	PH-44	Atomic and Molecular Spectroscopy	3	1	-	4
3.	PH-45	Statistical Physics	3	1	-	4
4.	PH-46	Electrodynamics	3	1	-	4
5.		Elective-II	2	-	-	2
6.	PH-47	General Physics Laboratory	-	-	8	4
Total Credits in Second Semester						22

SEMESTER III

S.No.	Course Code	Course Title	Teaching Schedule			No. of Credit
			Lecture	Tutorial	Practical	
1.	PH-48	Quantum Mechanics-II	3	1	-	4
2.	PH-49	Condensed matter physics	3	1	-	4
3.	PH-50	Plasma Physics	3	1	-	4
4.	PH-51	Nuclear and Particle Physics	3	1	-	4
5.	PH-52	Advanced Physics Lab.	-	-	6	3
6.	PH-53	Experimental Techniques	-	-	6	3
Total Credits in Third Semester						22

SEMESTER IV

S.No	Course title	No.of Credit
1	Research Project	9

List of Electives-I

S.No.	Course Code	Course Title	Teaching Schedule			No. of Credit
			Lecture	Tutorial	Practical	
1.	PH-61	Photonics	2	0	-	2
2	PH-62	Nanostructured Materials	2	0	-	2
3.	PH-63	Mathematical Physics-II	2	0	-	2

List of Electives-II

S.No.	Course Code	Course Title	Teaching Schedule			No. of Credit
			Lecture	Tutorial	Practical	
1.	PH-64	Nuclear Accelerator and Radiation Physics	2	0	-	2
2.	PH-65	Medical Physics	2	0	-	2
3.	PH-66	Astrophysics	2	0	-	2
4.	PH-67	Classical Field Theory	2	0	-	2
5	PH-68	Space Technology	2	0	-	2

