

Branch Code: PH

M.Sc. Physics

2021 Batch

Semester 1

S.No	Course No	Course Name	L	T	E	P	O	C
1	PH5010	Mathematical Physics I	3	1	0	0	6	10
2	PH5030	Classical Mechanics	3	1	0	0	6	10
3	PH5100	Quantum Mechanics I	3	1	0	0	6	10
4	PH5040	Electronics	3	0	0	0	6	9
5	PH5060	Physics Lab. I (PG)	0	0	0	9	3	12
Total Credits :								51

Semester 2

S.No	Course No	Course Name	L	T	E	P	O	C
1	PH5020	Electromagnetic Theory	3	1	0	0	6	10
2	PH5080	Statistical Physics	3	0	0	0	6	9
3	PH5170	Quantum Mechanics II	3	0	0	0	6	9
4	PH5160	Condensed Matter Physics I	3	1	0	0	6	10
5	PH5250 (or) PH5720	Advanced Electronics & Lab (or) Numerical Methods and Programming Lab	3	0	0	3	6+0	12
6	PH5120	Physics Lab. II (PG)	0	0	0	9	3	12
Total Credits :								62

Semester 3

S.No	Course No	Course Name	L	T	E	P	O	C
1	PH 5410	Atomic and Molecular Physics	3	1	0	0	6	10
2	PH5110 (or) PH5050	Optics and Photonics (or) Mathematical Physics II	3	0	0	0	6	9
3	PH5210 (or) PH5211	Condensed Matter Physics II (or) High Energy Physics	3	0	0	0	6	9
4	DPE1	Elective - I	3	0	0	0	6	9
5	PH5270	Physics Lab. III (PG)	1	0	0	6	2+2	11
6	PH5291 (or) DPE4	Project I (or) Elective IV	0	0	0	0	9	9
Total Credits :								57

* Project (PH5291*) Grades will be awarded at the end of 4th semester

Semester 4

S.No	Course No	Course Name	L	T	E	P	O	C
1	DPE2	Elective - II	3	0	0	0	6	9
2	DPE3	Elective -III	3	0	0	0	6	9
3	PH5230	Seminar	0	0	0	0	3	3
4	PH5240	Viva voce	0	0	0	0	6	6
5	PH5292 (or) DPE5 & DPE6	Project II (or) Elective V and Elective VI	0	0	0	0	18	18
Total Credits :								45

Instead of PH5291 (Project I) in Semester 3 and PH5292 (Project II) in Semester 4, the students have the option to take Department Elective IV in Semester 3 and Department Electives V & VI in Semester 4.

Semester	I	II	III	IV	Total
Credits	51	62	57	45	215