

Branch Code: PH1

M.Tech. in FUNCTIONAL MATERIALS AND NANOTECHNOLOGY 2021 Batch

Semester 1

S.No	Course No	Course Name	L	T	E	P	O	C
1	PH5011	Science and Technology of Solid state	3	1	0	0	6	10
2	PH6022	Introduction to nanoscience	3	0	0	0	6	9
3	PH5310	Synthesis and Characterization of Functional Materials	3	0	0	0	6	9
4	PH5320	Techniques of Characterization of Materials and Physical Measurements	3	0	0	0	6	9
5	PH5330	Laboratory for Synthesis and characterization of Functional Materials	0	0	0	6	2	8
		Total Credits :	12	1	0	6	26	45

Semester 2

S.No	Course No	Course Name	L	T	E	P	O	C
1	PH6011	Nanomaterials and nanotechnology	3	0	0	0	6	9
2	PH6012	Fundamentals of Semiconductor Physics and Devices	3	0	0	0	6	9
3	PH6013	Functional Materials, Sensors and Transducers	3	0	0	0	6	9
4		Elective 1	3	0	0	0	6	9
5	PH5350	Laboratory for Physical Property Measurement and Transducer / Sensor Element Characteristics of Functional Materials	0	0	0	9	3	12
		Total Credits :	12	0	0	9	27	48

SUMMER

S.No	Course No	Course Name	L	T	E	P	O	C
1	PH5360*	Project	0	0	0	0	25	25
		Total Credits						25

* Project (PH5360*) grade will be assigned in 4th semester

Semester 3

S.No	Course No	Course Name	L	T	E	P	O	C
1	PH5360+	Project	0	0	0	0	20	20
2		Elective 2	3	0	0	0	6	9
3		Elective 3	3	0	0	0	6	9
		Total						38

* Project (PH5360+) grade will be assigned in 4th semester

Semester 4

S.No	Course No	Course Name	L	T	E	P	O	C
1	PH5360	Project	0	0	0	0	40	40
2	PH5380	Seminar	0	0	0	3	0	3
		Total						43

Semester	I	II	Summer	III	IV	Total
Credits	45	48	25	38	43	199