

M.Sc. (Physics) Semester-wise pattern													
Year	Course Code	Semester-I	L	T	P	C	Course Code	Semester-II	L	T	P	C	
I	PH501	Mathematical Physics	3	1	0	4	PH507	Quantum Mechanics-I	3	1	0	4	
	PH502	Classical Mechanics	3	0	0	3	PH508	Electromagnetic theory-II	3	1	0	4	
	PH503	Electromagnetic theory-I	3	1	0	4	PH509	Numerical methods using Python	2	0	4	4	
	PH504	Research methods and applied statistical methods	3	0	0	3	PH510	Molecular Spectroscopy	3	0	0	3	
	PH505	Electronic devices and circuit theory	3	0	0	3	PH511	Laser Physics and applications	3	0	0	3	
	PH506	Modern Physics and Electronics lab	1	0	4	3	PH512	Optics and Spectroscopy lab	1	0	4	3	
Total No of Credits			16	2	4	20	Total No of Credits			15	2	8	21
Semester-III						Semester-IV							
II	PH513	Quantum Mechanics-II	3	1	0	4	PH518	Discipline elective-1	3	0	0	3	
	PH514	Nuclear Physics	3	0	0	3	PH519	Discipline elective-2	3	0	0	3	
	PH515	Statistical Physics	3	0	0	3	PH520	Discipline elective-3	3	0	0	3	
	PH516	Condensed Matter Physics	3	1	0	4	TS521	Thesis	0	0	0	10	
	PR517	Project	0	0	0	6							
Total No of Credits			12	2	0	20	Total No of Credits			9	0	0	19
Total No of Credits									80				
Discipline Electives (IV Sem)			L	P	T	C	Discipline Electives (IV Sem)			L	P	T	C
PH601	Non-linear dynamics chaos		3	0	0	3	PH605	Fiber optics		3	0	0	3
PH602	Introduction to Quantum optics		3	0	0	3	PH606	Non-conventional energy resources		3	0	0	3
PH603	Material Physics		3	0	0	3	PH607	Introduction to general theory of relativity		3	0	0	3
PH604	MOOC/NPTEL/SWAYAM		3	0	0	3							
Discipline Electives (IV sem)													
PH608	Monte-Carlo Methods												
PH609	Nanotechnology												
PH610	Acoustics												
PH611	Laser Physics												