

Scheme (w. e. f. August 2018 onwards)

M.Sc. 1st Semester							
S. No.	Course No.	Subject	LTP	Evaluation		Total Marks	Credit
				Internal	External		
1	PH 501	Classical Mechanics	400	40	60	100	4
2	PH 503	Mathematical Physics-I	300	40	60	100	3
3	PH 505	Quantum Mechanics-I	300	40	60	100	3
4	PH 507	Nuclear Physics	300	40	60	100	3
5	PH 509	Electronics-I	300	40	60	100	3
6	PH 511	Practical-I	0015	60	40	100	7
		Sub Total	31	260	340	600	23
M.Sc. 2nd Semester							
1	PH 502	Electrodynamics	400	40	60	100	4
2	PH 504	Mathematical Physics-II	300	40	60	100	3
3	PH 506	Quantum Mechanics-II	300	40	60	100	3
4	PH 508	Nuclear and Particle Physics	300	40	60	100	3
5	PH 510	Laser and Fiber Optics	300	40	60	100	3
6	PH 512	Practical-II	0015	60	40	100	7
		Sub Total	31	260	340	600	23
M.Sc. 3rd Semester							
1	PH 513	Atomic & Molecular Spectroscopy	400	40	60	100	3
2	PH 515* or PH 517*	Electronics II(discipline elective-I) or Condensed Matter Physics-I (discipline elective -II)	300	40	60	100	4
3	PH 519	Computational Physics	300	40	60	100	3
4	PH 521	Polymer Physics	300	40	60	100	3
5	PH 523	Solid State Physics	300	40	60	100	3
6	PH 525	Practical-III	0015	60	40	100	7
7	#	Open Elective–I (course code and title as per choice of students)	200	20	30	50	2
		Sub Total	33	280	370	650	25
M.Sc. 4th Semester							
1	PH 514	Statistical Physics	400	40	60	100	4
2	PH 516	Sensors & Transducers	300	40	60	100	3
3	PH 518* or PH 520*	Electronics-III (discipline elective-I) or Condensed Matter Physics-II (discipline elective -II)	400	40	60	100	4
4	PH 522	Physics of Nano materials	300	40	60	100	3
5	PH524* or PH 526* or PH 528*	Practical–IVPart-I(discipline Elective I) or Practical–IVPart-II(discipline Elective-II) or Project/Dissertation	0015	60	40	100	7
6	PH 530	Seminar	004	20	30	50	2
7	##	Open Elective–II (course code and title as per choice of students)	200	20	30	50	2
		Sub Total	35	260	340	600	25
		Grand Total					96

Note:

- *Student can choose either discipline elective-I (i.e. PH 515, PH 518 & PH 524) or discipline elective-II (i.e. PH 517, PH 520 & PH 526) and accordingly one specialization (either Electronics or Condensed Matter Physics respectively) will be given. Project/Dissertation (PH 528) may also be taken in place of Elective Practical –I / Elective Practical –II

Details of Discipline Electives:

	Electronics		Condensed Matter Physics	
Elective I	PH – 515	Electronics-II	PH-517	Condensed Matter Physics-I
Elective II	PH-518	Electronics-III	PH-520	Condensed Matter Physics-II
Practical	PH-524	Elective Practical-I	PH-526	Elective Practical-II

- #, ## Course code and title for Open Elective–I and Open Elective–II will be as per the choice made by students.
- For the students of MSc (Physics), Open Elective–I and Open Elective–II will be out of the open elective papers offered by the departments other than the department of physics.
- For the students of other departments, the Department of Physics offers the following open elective papers.

Details of Open Electives:

	Option I		Option II	
Open Elective I	PH – 527	General Physics	PH-529	Radiation Physics
Open Elective II	PH-532	Material Characterizations techniques	PH-534	Remote Sensing