INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI

M.Sc. Curriculum: Physics From the Academic Year 2020-21

Semester-I

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	PH506L	Mathematical Physics-I	3-0-0-3	PH5101	10
2.	PH503L	Classical Mechanics	3-1-0-4	PH5103	10
3.	PH502L	Classical Electrodynamics	3-1-0-4	PH5105	10
4.	PH510L	Quantum Mechanics-I	3-1-0-4	PH5107	10
5.	PH501M	Applied Electronics	2-0-3-4	PH5109	10
6.	PH508P	Physics Laboratory-I	0-0-3-2	PH5191	10
Total Credits			21		

Semester-II

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	PH507L	Mathematical Physics-II	3-0-0-3	PH5202	10
2.	PH511L	Quantum Mechanics-II	3-1-0-4	PH5204	10
3.	PH512L	Statistical Physics	3-1-0-4	PH5206	10
4.	PH505L	Condensed Matter Physics	3-1-0-4	PH5208	10
5.	PH504M	Computational Physics	2-0-3-4	PH5210	10
6.	PH509P	Physics Laboratory-II	0-0-3-2	PH5292	10
Total Credits			21		

Semester-III

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	PH601L	Atomic and Molecular Physics	3-0-0-3	PH6101	10
2.	PH602L	Classical and Quantum Optics	3-0-0-3	PH6103	10
3.	FRE1	Free Elective-1	3-0-0-3		
4.	PH603P	Advanced Physics Laboratory	0-0-6-4	PH6191	10
5.	PH693G	Seminar	1	PH6111	9
6.	PH691G	Project Phase-I	3	PH6150	9
Total Credits			17		

Semester-IV

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	PH604L	Nuclear and Particle Physics	3-0-0-3	PH6202	10
2.	DPE	Department Elective	3-0-0-3		
3.	FRE2	Free Elective-2	3-0-0-3		
4.	PH692G	Project Phase-II	6	PH6250	9
Total Credits			15		

Total credits: 74