

1 YR M.Sc. Program

CURRICULUM

SEMESTER I

Course Category	Course No.	Name of the course	L	T	P	L+T+P	C
C	PHY401	Adv. Mathematical Methods	3	1	0	4	4
C	PHY402	Adv. Classical Mechanics	3	1	0	4	4
C	PHY403	Electromagnetic Theory	3	1	0	4	4
OE	EEE	OPEN ELECTIVE-I (BY OTH. DEPT.)	3	1	0	4	4
TOTAL			12	4	4	16	16

SEMESTER II

Course Category	Course No.	Name of the course	L	T	P	L+T+P	C
C	PHY411	Advanced Quantum Mechanics	3	1	0	4	4
C	PHY412	Computational Physics	3	1	0	4	4
C	PHY412L	Physics Lab II Computational Physics Lab.	0	0	4	4	2
C	PHY413	Statistical Mechanics	3	1	0	4	4
C	PHY414	Electronics	3	1	0	4	4
C	PHY414L	Electronic Circuits Lab.	0	0	4	4	2
OE	EEE	OPEN ELECTIVE-II	3	1	0	4	4
TOTAL			15	5	8	28	24

Total Credits: 16 + 24 = 40 Credit

2 YR M.Sc. Program
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SEMESTER I

Course Category	Course No.	Name of the course	L	T	P	L+T+P	C
C	PHY401	Adv. Mathematical Methods	3	1	0	4	4
C	PHY402	Adv. Classical Mechanics	3	1	0	4	4
C	PHY403	Electromagnetic Theory	3	1	0	4	4
OE	EEE	OPEN ELECTIVE-I (BY OTH. DEPT.)	3	1	0	4	4
	TOTAL		12	4	4	16	16

SEMESTER II

Course Category	Course No.	Name of the course	L	T	P	L+T+P	C
C	PHY411	Advanced Quantum Mechanics	3	1	0	4	4
C	PHY412	Computational Physics	3	1	0	4	4
C	PHY412L	Physics Lab II Computational Physics Lab.	0	0	4	4	2
C	PHY413	Statistical Mechanics	3	1	0	4	4
C	PHY414	Electronics	3	1	0	4	4
C	PHY414L	Electronic Circuits Lab.	0	0	4	4	2
OE	EEE	OPEN ELECTIVE-II	3	1	0	4	4
	TOTAL		15	5	8	28	24

SEMESTER III

Course Category	Course No.	Name of the course	L	T	P	L+T+P	C
C	PHY 501R	Mini Project	0	0	8	8	4
C	PHY 502	Condensed Matter Physics	3	1	0	4	4
C	PHY 503	Laser, Photonics and Spectroscopy	3	1	0	4	4
C	PHY 504	Subatomic Physics	3	1	0	4	4
C	PHY 505	Instrumentation & Experimental Analysis	2	2	0	4	4
C	PHY 502L	Physics Lab III Condensed Matter Physics Lab.	0	0	4	4	2
	TOTAL		8	5	12	28	22

SEMESTER IV

Course Category	Course No.	Name of the course	L	T	P	L+T+P	C
C	PHY 511R	Research Project	0	0	24	24	12
DE	PHY 5XX	DEPARTMENT ELECTIVE-I	3	1	0	4	4
DE	PHY 5XX	DEPARTMENT ELECTIVE-II	3	1	0	4	4
	TOTAL		6	2	24	32	20

Total Credits: $16+24+22+20 = 82$