



Department of Physics

w.e. f. Session 2020-21

M.Sc. PHYSICS

INTEGRAL UNIVERSITY, LUCKNOW

Evaluation Scheme

Semester-I

S. No.	Course Code	Course Title	Type of Paper	L	T	P	Evaluation Scheme (CA)			ESE	Subject Total	Credit	Total Credit
							CT	TA	Total				
THEORY													
1	PY401	Mathematical Physics	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	PY402	Classical Mechanics	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	PY403	Quantum Mechanics-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	PY404	Statistical Mechanics-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	PY405	Solid State Electronics	Core	3	1	0	40	20	60	40	100	3:1:0	4
PRACTICALS													
6	PY406	General and Optics Lab	Core	0	0	9	40	20	60	40	100	0:0:4	4
Total				15	5	9	240	120	360	240	600	24	24

Semester-II

S. No.	Course Code	Course Title	Type of Paper	L	T	P	Evaluation Scheme (CA)			ESE	Subject Total	Credit	Total Credit
							CT	TA	Total				
THEORY													
1	PY407	Quantum Mechanics-II	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	PY408	Electromagnetic Theory	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	PY409	Condensed Matter Physics	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	PY410	Nuclear and Particle Physics	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	PY411	Digital Electronics	Core	3	1	0	40	20	60	40	100	3:1:0	4
PRACTICALS													
6	PY412	Programming and Condensed Matter Physics Lab	Core	0	0	9	40	20	60	40	100	0:0:4	4
Total				15	5	9	240	120	360	240	600	24	24



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Semester-III

S. No.	Course Code	Course Title	Type of Paper	L	T	P	Evaluation Scheme (CA)			ESE	Subject Total	Credit	Total Credit
							CT	TA	Total				
THEORY													
1	PY501	Atomic and Molecular Physics	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	PY502	Electronics Instrumentation	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	PY503	Advanced Condensed Matter Physics	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	PY504	Communication Electronics	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	PY505	Numerical techniques and Statistical Mechanics-II	Core	3	1	0	40	20	60	40	100	3:1:0	4
PRACTICALS													
6	PY506	Electronics Lab	Core	0	0	9	40	20	60	40	100	0:0:4	4
Total				15	5	9	240	120	360	240	600	24	24

Semester-IV

S. No.	Course Code	Course Title	Type of Paper	L	T	P	Evaluation Scheme (CA)			ESE	Subject Total	Credit	Total Credit
							CT	TA	Total				
THEORY													
1		Elective-I	Elective-I	3	1	0	40	20	60	40	100	3:1:0	4
2		Elective-II	Elective-II	3	1	0	40	20	60	40	100	3:1:0	4
3	PY507	Physics Seminar		0	1	3	0	0	0	100	100	0:0:4	4
4	PY508	Physics Project		Three months			----	----	----	300	300	0:0:8	8
Total				6	3	3	80	40	120	480	600	20	20

List of Elective papers for IV semester

Note: A student has to choose any two elective papers from following electives.

1. **Physics of Nanomaterials (PY509)**
2. **Bio-Physics (PY510)**
3. **Computational Methods and Programming in 'C' Language (PY511)**
4. **Laser Physics (PY512)**
5. **Microprocessor and its Applications (PY513)**
6. **Renewable Energy Resources (PY514)**