

## DEPARTMENT OF PHYSICS

**Program duration: 2 Years**  
**Semester Pattern: 4 Semesters**

### M.Sc. Physics Syllabus (As per NEP 2020)

Sr. No.	Semester I	Semester II	Semester III	Semester IV
1	Semiconductor Physics and Devices	Fundamentals of Quantum Mechanics	<b>Major :</b> Paper-I : Nuclear & Particle Physics Paper-II : Advanced Condensed Matter Physics Paper-III : Atomic & Molecular Physics	<b>Major :</b> Paper -I : Optics and Optical Instruments Paper-II : Physics of LASER and its Applications
2	Electrodynamics	Solid State Physics		
3	Mathematical Physics	Classical and Statistical Mechanics		
4	Energy Physics (DSE)	Advanced Optoelectronics	<b>Elective :</b> Fundamentals of Nanoscience and Nanotechnology	<b>Elective :</b> Material Synthesis and Characterization
5	Research Methodology	OJT/FP	Research Project	Research Project
6	Practical -I	Practical-I	Practical-I Practical-II	Practical-I Practical-II