SEMESTER I

Subject Name	Subject Type	Subject Code	Subject Credit
Mathematical Methods in Physical Science	Regular	MPHY1MMP	4
Statistical Mechanics and Nuclear Physics	Regular	MPHY1SAN	4
Solid State Physics	Regular	MPHY1SAE	4
Computer Programming and Language C	Regular	MPHY1CMP	4
Magnetism in Solids	Elective	MELE1MIS	2
Soft Matter Physics	Elective	MELE1SMP	2
Electrodynamics and Relativity	Elective	MELE1EDR	2
Practical Module-I	Regular	MPHY1PRA	6

SEMESTER II

Subject Name	Subject Type	Subject Code	Subject Credit
Quantum Mechanics	Regular	MPHY2QTM	4
Nanoscience and Technology	Regular	MPHY2NAT	4
Digital Electronics	Regular	MPHY2DEL	4
Classical Mechanics	Regular	MPHY2CLM	4
Basic of Radiation Physics	Elective	MELE2BRP	2
Remote Sensing and Transducers	Elective	MELE2RAT	2
Nuclear Astrophysics	Elective	MELE2NAP	2
Practical Module-II	Regular	MPHY2PRA	6

SEMESTER III

Subject Name	Subject Type	Subject Code	Subject Credit
Dielectrics and Magnetism	Regular	MPHY3DAM	4
Transport Phenomena and Physics of Semiconductors	Regular	MPHY3TPS	4
Crystallography	Specialization	MPHY3CRY	4
Soft Skills and Development	Open	MOPE3SSD	2
Practical Module-III	Regular	MPHY3PRA	6
Project work – I	Regular	MPHY3PRO	8
Electronic Communication System	Specialization	MPHY3ECS	4

SEMESTER IV

Subject Name	Subject Type	Subject Code	Subject Credit
Crystal Growth Techniques	Regular	MPHY4CGT	4
Experimental Techniques in Crystallography	Regular	MPHY4ETC	4
Many Particle Physics	Specialization	MPHY4MPP	4
Practical Module-IV	Regular	MPHY4PRA	6
Project work – II	Regular	MPHY4PRO	8
Intellectual Property Rights	Elective	MELE4IPR	2
Computational Physics using Python	Elective	MELE4CPP	2
Microwave & Electronic communication System	Specialization	MPHY4MEC	4