

Sem ester: I

M athem atical Physics and Classical Physics

M athem atical Physics and Classical M echanics

Solid State Electronic Devices and circuits

Q uantum m echanics I

E lectrodynamics and Plasm a Physics

Laboratory - I

Laboratory - II

Sem ester: III

N uclear and Particle Physics

Physics and Chem istry of Nanom aterials

Laboratory - V

Laboratory - VI

Synthesis of M aterials

Analog and Digital System s

N uclear Radiation Detectors & Accelerators

Physics of Ionosphere-M agnetosphere System

Space Technology

N eutron Physics and Nuclear Reactor Theory

Semester: II

Quantum Mechanics II & Statistical Mechanics

Atomic & Molecular Physics

Solid State Physics

Space physics

Laboratory - III

Laboratory - IV

Semester: IV

Material Characterization

Functional Materials

Nuclear Reactions, Nuclear Energy and Nuclear Models

Remote Sensing Applications

Pulse and microwave electronics

Electronic communication

Numerical Analysis and Computer Programming

Experimental Techniques with interdisciplinary applications

Project Work