Subject Name	Description
Atomic & Molecular Spectroscopy	Provide the study of isolated, separated ions and atoms, along with electron arrangement and excitation. Molecular physicists investigate molecules that have several atoms.
Condensed Matter Physics-I (Elective-1)	It deals with the physical properties of condensed phase of matter. It gives information about band gap, magnetic properties, dielectric and optical properties of solids.
Computational Physics	This course introduces programming language and information about numerical methods.
Electronics-II (Elective-I)	It covers Logic Circuits, Circuit Analysis and Design, Data Processing Circuits and Number Systems, Flip Flops, Shift Registers and counters.
Polymer Physics	Provides brief history of the development of synthetic polymers, chains and crystallinity, some physical techniques for studying polymers, electrical and optical properties.
Solid State Physics	It provides the information of crystallography, X-ray diffraction, thermal properties and superconductivity.
Practical-III	It provide exposure to students to observe and explore with the experiments related to condensed matter physics and quantum physics.

Statistical Physics	This course is intended to provide a firm foundation of macroscopic system, ensembles, classical, Quantum statistics, their applications and statistical thermodynamics.
Sensors and Transducers	It provide information about basic function of sensors and transducers and there application in various fields.
Condensed Matter Physics-II (Elective-II)	It deals with electron transportation, electron approximation, and characterization techniques.
Electronics-III (Elective-II)	It provides information about communication system, signal transmission including various radar system and satellite communication
Physics of Nano-materials	This course describes classification of Nano-materials, properties of Nano-particles, particle size and surface structure determination.
Practical- IV (Elective Practical-I or Elective Practical-II)/ Dissertation	Practical or Dissertation is optional to the students. Dissertation work involves integration and implementation of knowledge and skills acquired during the program.