Course Outcome for B.SC PHYSICS

PROPERTIES OF MATTER AND ACOUSTICS

- Study the elastic behaviour and working of torsional pendulum
- Study of bending behaviour beams and analyse the expression for young's modulus
- Understand the surface tension and viscosity of fluid
- Analyse waves and oscillations
- Study the basic properties and production of ultrasonics by different methods

MECHANICS AND RELATIVITY

- Understand the definition for centre of gravity in hemisphere, hollow hemisphere etc.,
- Understand the dynamics and gravitation
- Study the behaviour of rigid body dynamics
- Analyse the performance of hydrostatic and hydrodynamics
- Understand the negative result of michelson morley experiment , galilean and lorentz transformation

THERMAL AND STATISTICAL PHYSICS

- Understand the nature of calorimetry by specific heat of solids and law of thermodynamics and entropy
- Analyses of zeroth law of thermodynamics and entropy
- Understanding the low temperature physics

- Analyses thermal conducitivity and black body radiation
- Understanding the statistical methods

PHYSICS PRACTICAL

- Study the elastic behaviour of materials
- Analyse the relationship between various types of experiments
- Perform the procedure as per standard values
- Understan the applications

ELECTRICITY AND MAGNETISM

- Study the electric field using coloumbs inverse square law in electrostatics of current
- Analyse the chemcial and heating effect of current
- Analyse the relations between b, h and m
- Understand the faradays laws of electromagnetic induction by rayleigh's method
- Analyse he value of maxwell equation- boundary conditions

OPTICS AND SPECTROSCOPY

- Understand the natural behaviour of aberration in lens
- Study the theory and experiment of interference using air wedge, newtons rings and michelson interferometer
- Study the theory and experimental past of diffraction by fresnels and fraunhoffer methods
- Study the theeories for production of polarization of light
- Understand the theory and application of microwave, infrared and raman spectrocopy

ATOMICA ND NUCLEAR PHYSICS

- Understand the properties of positive rays, experimental proof by frank and hertz method
- Analyse the relationship between various types of couplings
- Understand the properties of x-ray s verification
- Analyse the ideas of basics of nucleus and their energy
- Perform the procedures for nuclear fission and fusion

PRACATICAL

- Study the emf, resistance, behaviour of the materials
- Analyse the relationship between tan a and tan b
- Analyse the specific eat capacity, refractive index, as per the standard procedure
- Understand the standard values of teh results

ANALOG ELECTRONICS

- Understand he basics of diode and working of rectifier circuits and characteristics
- Analyse the characteristics of transistor and transistor biasing circuits
- Perform the procedures for the working of single stage and multistage amplifier
- Analyse the relationship between amplifier and oscillators
- Understand the applications of op-amps i inverting and non inverting modes.

COMPUTER PROGRAMMING IN C

- Understand the basic concepts of fundametnals of operators and expressions
- Analyse the relationship between various statements
- Analyse the various types of function
- Perform the different types of arrays
- Understand the structure and unions

LASER AND FIBRE OPTICS

- Understand the basic principle of laser and characterisitcs
- Undertand the theory of types of lasers
- Perform the procedures into applications oriented one
- Understand the basic concepts of optical fibres
- Understand the applicataions part of optical fibre into communiations systems

ELEMENTS OF THEORETICAL PHYSICS

- Understand the basic significance of mechanics of a system of particles
- Understand the old quantum theory
- Perform the theories of quantum mechanics into scrodinger wave equation
- Understand the application of schrodinger equation into potential well, barrier
- Analyse the basic functions of eigen values and eigen functions

DIGITAL ELECTRONCIS

- Understand the fundamentals of codes and number system
- Understand the binary arithmetic , logics and boolean functions
- Understand the functions and working of flipflop circuits register s and counters
- Perform the procedures into applications
- Understand the applicattions into memory circuits

SOLID STATE PHSYICS

- Understand the basic concepts of force between atoms and bonding between molecules
- Analyse the relationship between conductors and insulators and super conductivity
- Understand the properties of matter and classifcations - polarization
- Understand the properties of semi conducotrs
- Analyse the relationship between semiconducotor devices and understand the applications of semiconductor devices

GENERAL PRACTICAL - III

- Study the basic ideas of the experiment
- studty the basic working, conditions of the experiments
- Perform the procedure as the labarotary standards
- Understand the applications

PROJECT

- Understand the basic ideas about the project
- Understand the working procedure of the project
- Perform the procedure as the labarotary standards
- Understand the calues obtained and its applications