

B.Sc. PHYSICS
COURSE OUTCOME

F.Y.B.Sc. PHYSICS

2018-19

Paper-I: mechanics and heat and thermodynamics

CO1-Students can enable to understand newton's laws and applying them in calculation of the motion of simple systems.

CO2-This course helps to understand the concepts of energy, work, power, and the concepts of conservation of energy and be able to perform calculations using them.

CO3- students are able to understand concept of viscosity, surface tension elasticity.

CO4- To Understand the concept of thermodynamics, adiabatic, isothermal entropy diagram also analyze the refrigerators, heat pumps and calculate coefficient of performance.

Paper-II: physics principle and applications and electromagnetics

CO1-students can understand electromagnetic waves and its spectrum.

CO2-To understand the general structure of atom, spectrum of hydrogen atom.

CO3- To understand the electric force, field and potential, and related concepts, for stationary charges.

CO4- students can understand coulomb's law and Gauss's law, Biot-savart law, ampere's circuital law.

S.Y.B.Sc Physics

Paper I: Mathematical methods in physics and Oscillation waves and sounds

CO1. Understand the complex algebra useful in physics courses.

CO2. Helps to understand the concept of partial differential equation and helps in vector algebra in mathematics and physics.

CO3. Students can solve the equation of motion of simple harmonic, damped, and forced oscillations.

CO4. Explain the Doppler effects, and predict in qualitative terms the frequency.

Paper II: Instrumentation and Optics

CO1. Understand the functions of different instruments.

CO2. Use different instruments for measurement of parameters.

CO3. Students can understand the basics concept of wave optics.

CO4. Describe constructive and destructive interference and different optical phenomenon.