Course Outcome B.Sc. Physics Semester-I (CBCS)	
Course	**Outcomes** After completion of these courses Students should be able to;
USPHT01 : **Mechanics and Relativity**	01: To understand the concept of Newton's laws of motion and its limitations. 02: Understanding the relation in to frame of referencein relativity. 03: : Imparting the knowledge of gravitation, oscillationand properties of matter 04: To know the concept of collision. 05: To know the concept of dynamics of rigid body.06: To study the rotational motion. 07 To study the concept of special theory of relativity.
USPHT02 : **Gravitation, Oscillation and Properties ofMatter**	01: To study the Newton's law of gravitation. 02:To study the motion of particle in a central force.03: To study the gravitational field and potential. 04: To know the concept of gravitation.05: To study the concept of oscillations. 06: To study the resonance, quality factor and bandwidth. 07:To understand the concept of elasticity 08: To study theandgain knowledge about the viscosity. 09:To understand the concept of surface tension.
USPHP01: Physics Practical's	01: To study the compound pendulum. 02: To study and determine 'g' by Kater's pendulum03: To study the motion of a spring and calculate (a).Spring constant (b). Value of g. 04: To gain practical knowledge about modulus of rigidity. 05: To know the concept and method about the modulus of rigidity by torsional pendulum. 06: To gain practical knowledge about Young's modulusby bending of beam. 07: To gain practical knowledge about Young's modulusby vibration method. 08:To know the concept about the determination of modulus of rigidity of a wire by Maxwell's needle.

Course Outcome B.Sc. Physics Semester-II (CBCS)	
Course	**Outcomes** After completion of these courses Students should be able to;
USPHT03: **Vector Analysis and Electrostatics**	01: To understand the concept and study of vector Analysis 02: To study the electric field, field intensity and potential due to point charge. 03: To understand the concept and study of dipole 04: To know the concept of Gauss theorem and its applications. 05: To study the electric potential due to dipole. 06: To study the electric field due to dipole. 07: To study the capacitance of different type of capacitor 08: To gain knowledge about thedielectrics.
USPHT04: **Magnetostatics and Electromagnetic waves**	01: To understand the concept and study Biot-Savart's law and its application. 02: To study the divergence and curl of magnetic field. 03: To understand the concept of magnetic properties of materials. 04: To gain knowledgeand introduction of diamagnetic, paramagnetic and ferromagnetic materials. 05: To study the Faraday's law EMI and Lenz's law. 06: To study the self-inductance(L) and mutual inductance(M). 07: To gain knowledge about the transformer parameters and its applications. 08: Study of Maxwell's equations . 09: To understand the concept of electromagnetic wave propagation. 010: Study of Kirchoff's law and its application. 011: To study the current rise and decay in LR,CR and LCR-circuit. 012: To Study alternating electric current.
USPHP02: **Physics Practical's**	01:Study to compare capacitance using De'Sauty's bridge 02:Study to measurement of capacitance using impedance of different frequencies. 03: To study the decay of current in LR-circuit. 04:To study the response curve of LCR-circuit, response frequency and quality factor 05:Study of transformer. 06: study to determine a low resistance by Carey-Foster bridge. 07:To verify the Thevenin's theorem. 08: To verify the Norton's theorem.

	09: To verify the Milliman's theorem. 010: To determine low resistance by potentiometer.
Course Outcome B.Sc. Physics Semester-III (CBCS)	
Course	**Outcomes** After completion of these courses Students should be able to;
USPHT05: Thermal Physics	01: To understand the assumption of kinetic theory of gases and pressure exerted by gas. 02: To study the Maxwell's distribution of velocities and experimental verification. 03: To understand the concept of degrees of freedom. 04: To know the concept of equipartitionof energy. 05: To understand the concept of mean free path and its expression. 06: To study the transport of momentum and viscosity,transport of energy, transport of mass. 07: To study and concept of thermodynamic system, variablesand equilibrium. 08: To gain knowledge about the thermodynamic process. 09: To understand the concept ofZeroth law of thermodynamics and its importance. 010: To know the concept of internal energy, First law of thermodynamics and its applications and limitations. 011: To study the work done during thermodynamic process. 012: To understand the concept of reversible and irreversible process. 013: To study and concept ofheat engine and its efficiency, Carnot's ideal heat engine, Carnot's theorem and Carnot's cycle. 014: To understand the concept of entropy, second lawof thermodynamics and TS-diagram. 015: To understand the concept of third law of thermodynamics. 016: To gain the knowledge thermodynamics function. 017:To study the latent heat, first and second latent heat equation.
USPHT06: Radiation and Statistical Physics	01: To study the theory of radiation. 02: To study the statistical basis of thermodynamics. 03: To study the M.B. statistics 04: To know the concept and study of B.E and F.D statistics.

USPHP03: **Physics Practical's**	01: to determine the temperature coefficient of resistance by platinum resistance thermometer. 02: To study the variation of thermo- emf across two junctions of a thermocouple with temperature. 03:To determine the heating efficiency of electrical kettle using voltages. 04: To verify the law of probability distribution throwing one coin, two coin and ten coins. 05: To show the deviations of probability from theoretical value decrease with increase the number of event. 06: To Study of statistical distribution from the given data and to find most probable average and rms value. 07: To record and analyze cooling temperature of a hot object as function of time.
Course Outcome B.Sc. Physics **Semester-IV (CBCS)**	
Course	**Outcomes** After completion of these courses Students should be able to;
USPHT07: **Wave Acoustics & Laser**	01: To study the superposition of two harmonic oscillations. 02: To know the concept and study offormation of Lissajous's figure by CRO and its application. 03: To study the wave motion and Fourier's theorem. 04:To gain the knowledge of ultrasonic and acoustics. 05: To know the concept and study ofLASER.
USPHT08: **Optical Physics**	01: To know the concept and study of Interference of light. 02: To study the Newton's rings and Michelson's Interferometer. 03: To know the concept and study of diffraction. 04: To know the concept and study of polarization**.**
USPHP04: **Physics Practical's**	01: To study the Lissajous figure by using CRO. 02: To determine the frequency of a tuning fork using sonometer. 03: To determine the velocity of transverse wave on stretched string using sonometer. 04:To study the characteristics of Loudspeaker. 05:To determine the refractive index of the material of a given prism using mercury light. 06: To determine the dispersive power of the materialof a given prism using mercury light. 07: To determine the resolving power of the prism. 08: To determine the wavelength of sodium light using Newton's ring.

	09: To determine the value of Cauchy constants of a material prism. 010: To determine the focal length of long focus convex lens using short focus convex lens.
Course Outcome B.Sc. Physics Semester-V (CBCS)	
Course	**Outcomes** After completion of these courses Students should be able to;
USDSEPHT09: Elements of Modern Physics	01: To know the concept and study of Quantum theory and its importance. 02: To study the Schrodinger's wave equations for non-relativistic particles and physical significance. 03: To study the application's Schrodinger's equations 04: To know the concept and study of Nucleus Stability.05: To study of radioactivity and emission of α, β and γ-ray 06:To know the concept and study ofβ and γ emission. 007: To study the concept of fission and fusion.
USDSEPHT10: Solid State Physics	01: To Study of crystal structure. 02:To study the concept of diffraction of crystal 03: To know the concept and study of magnetic properties of matter. 04: To study the dielectric properties of materials. 05: To study of elementary band theory. 06: To study the superconductivity.
USDSEPHP05: Physics Practical's	01: To study the V-I characteristics of P-N junction diode. 02: To determine the work function of material of filament of directly heated vacuum diode 03: To study on photo electric effect 04: to study the diffraction patterns of single and double slits using laser source. 05: To study the identification of unknown element from line emission spectra. 06: To know the concept ofthe construction and studyof various crystal structure using ball and spokes. 07: to determine the band gap energy of semi-conductor using junction diode.
USSECPH01: Skill Enhancement Course(SEC): Physics Workshop Skill	01: To know the concept of study of measurement. 02: To gain the knowledge of electrical and electronicskill. 03: To study of introduction of prime mover(machine). 04: To study of use bread board for designing the basic gates.

Course Outcome B.Sc. Physics Semester-VI (CBCS)	
Course	**Outcomes** After completion of these courses Students should be able to;
USDSEPHT-13: **Nuclear and Particle Physics**	01: To study of general properties nuclei. 02: To know the concept of nuclear model. 03: To understand the concept of nuclear reaction 04: To study of interaction of nuclear radiation with matter. 05: To study of detector for nuclear radiations. 06: To know the concept of particle accelerators.
USDSEPHT-14: **Digital and Analog Circuits and Instrumentation**	01: To study of digital circuits. 02: To study of semi-conductor devices and its applications. 03: To understand the concept of power supply. 04: To study of Bi-polar junction transistors. 05: To study ofvoltage amplifier Class A,B and C. 06: To know the concept of operational amplifier and its applications.
USDSEPHP06: **Physics Practical's**	01: To verify and design AND,OR,NOT and XOR gate using NAND gates. 02: To verify and design AND,OR, NOT and XOR gate using NOR gates. 03: To minimize a given logic circuit and verification of their truth table. 04: To gain practical knowledge of Half adder and Full adder. 05: To gain practical knowledge of Adder and Subtractor using full adder I.C. 06: To study of Astable- multivibrator using transistorcircuit. 07: To study of V-I characteristics of P-N junction diode and Zener- diode. 08: To study of the characteristics of a transistor in CE-configuration. 09: To design and study the common emitter amplifier. 010: To design and study OPAMP as an adder.
USSECPH03: Skill Enhancement Course(SEC): **Basic Instrumentation Skills**	01: Imparting the knowledge of basic measurement anduse multimeter. 02: To gain practical knowledge of use of electronic voltmeter. 04: To gain practical knowledge of digital instruments and digital multimeter.