Aadishakti DhandaiMata Shikshan Prasarak Sanstha's

LATE ANNASAHEB R D DEORE ARTS AND SCIENCE COLLEGE, MHASADI

Department of Physics

Outcomes of the Physics Courses taught in the B Sc Programme

Class	Course	Course Outcomes
F.Y.B.Sc Sem-I	PHY-101: Basic Mechanics	 Apply the concept of use of knowledge of mechanics to real life problems The students would learn about the behaviour of physical bodies it provides the basic concepts related to the motion of all the objects around us in our daily life The velocity and acceleration parameter give the knowledge about how the vehicles Move Understanding of the course will create scientific temperament
F.Y.B.Sc Sem-I	PHY-102: Dynamics and Elasticity Mechanics	 To make the students to understand the dynamics involved in a rigid body. Study the behaviour of rigid body dynamics Students will understand the dynamics involved in a rigid body. Learn how Young's modulus and rigidity modulus are defining and how they are evaluated for different shapes of practical relevance
F.Y.B.Sc Sem-II	PHY- 201 :Electricity and	 Gain knowledge of Gauss laws and solve the electric field for various geometric objects To understand the basic concepts of Electric field and Electric Potential

	Electrostatics	
F.Y.B.Sc Sem-II	PHY-202: Dielectrics, Magnetism and Electromagnetis m	 Enable to understand the concept of magnetic field. Understand the faradays laws of electromagnetic induction Thorough knowledge in the basic concept of electromagnetic induction Able to derive the Maxwell's equation in free space and material media Department of Physics 5. S.Y.B. Sc Sem-III Understand the concept of thermodynamics and their laws
S.Y.B.Sc Sem-III	PHY-301: Thermodynamic s and Kinetic theory of gases	 Understand the concept of thermodynamics and their law Understand the Heat Engine and there uses Describe the thermodynamic function and their relations To study Maxwell Relations and Application.
S.Y.B.Sc Sem-III	PHY-302 (A): Electronics –I	 Make them to Understand the basics of diode and working of rectifier circuits and characteristics Analyse the characteristics of transistor and transistor biasing circuits Make them understand the basic knowledge of semiconductor physics Understand the fundamentals of codes and number system Understand the binary arithmetic, logics and Boolean functions.
S.Y.B.Sc Sem-III	304: Skill Enhancement Course	 To know the need of renewable energy resources, historical and latest developments Describe the use of solar energy and the various components used in the energy production with respect to applications like - heating, cooling, desalination, power generation, drying, cooking etc Appreciate the need of Wind Energy and the various components used in energy generation and know the classifications. Understand the concept of Biomass energy resources.
S.Y.B.Sc Sem-IV	PHY 401: Waves, Oscillations and Acoustics	 Apply the concept of use of use of knowledge of Waves and Sound to real life problems Familiarise with general terms in acoustics like intensity, loudness, reverberation etc, and study in detail about production, detection, properties and uses of ultrasonic waves Understand the natural behaviour of aberration
		 Orderstand the natural behaviour of aberration in lens Study the theory and experiment of interference

S.Y.B.Sc Sem-IV	PHY 402: Optics and LASERS	 using air wedge, newtons rings etc Study the theory of diffraction by Fresnel's and Fraunhofer methods Study the theories for production of polarization of light Explain different Laser used and make a comparison between them Apply the gained basic knowledge of laser and working of different type of lasers.
S.Y.B. Sc Sem-IV	PHY 404: Electrical Circuits and Network Skills	 After the completion of the course the student will acquire necessary skills/ hands on experience /working knowledge on millimetres, voltmeters, ammeters, electric circuit elements, dc power sources, ac/dc generators, inductors, capacitors, transformers, single phase and three phase motors, interfacing dc/ac motors to control and measure, relays and basics of electrical wiring. Study circuits in a systematic manner suitable for analysis and design Analyse the electric circuit using network