

Yashwantrao Chavan College of Science, Karad

Department of Physics PHYSICS COURSE OUTCOMES Academic Year 2024-2025

B.Sc. (PHYSICS)-II

Annexure-c

Course Outcomes: BSc. II Paper V: DSC- C1 THERMAL PHYSICS & STATISTICAL MECHANICS-I

By the end of this Course student should be able to know about:

CO1:	Highlight different types of velocities of gas molecules.
CO2:	Acquire Knowledge of Maxwell's distribution of gas molecules.
CO3:	Visualize Merits and drawbacks of thermometers.
CO4:	Apply knowledge of thermodynamic processes in design of heat engine

BSc. II Paper VI: DSC- C2 WAVE AND OPTICS -I

By the end of this Course student should be able to know about:

CO1:	Apply superposition principle to develop mathematical model of harmonic oscillators.
CO2:	To develop the mathematical model for coupled oscillations.
CO3:	Understand the ultrasonic waves and their applications.
CO4:	Use of Basic principles of sound in context of acoustics of buildings

BSc. II Paper VII: DSC- D1 THERMAL PHYSICS & STATISTICAL MECHANICS-II

By the end of this Course student should be able to know about:

CO1:	Develop Conceptual clarity of thermodynamic functions and Clausius-Clapeyron equation.
CO2:	Appreciate the problem associated with the black body radiation spectrum.
CO3:	Know, how the problems can be solved by using Planck's law of radiation.
CO4:	Acquire preliminary knowledge of classical and quantum statistical mechanic

BSc. II Paper VIII: DSC- D2 WAVE AND OPTICS -I

By the end of this Course student should be able to know about:

CO1:	Draw ray diagrams to demonstrate Cardinal points.
CO2:	Determine the resolving power of prism and grating by making use of Rayleigh criterion.
CO3:	Qualitatively study phenomenon of polarization of light.
CO4:	Apply phenomenon of interference of light for determination of its wavelength.
BSc. II Sem-III & IV: DSC- PHYSICS Practical - III & IV	
By the end of this Course student should be able to know about:	
CO1:	Acquire skills in setting up of optics experiments.
CO2:	Develop the practical skills and techniques for accurate measurements.
CO3:	Acquire observational skills
CO4:	Determine Least counts of different measuring instruments



Head,
Department of Physics,
Yashwantrao Chavan
College of Science, Karad
(Satara) 415124
Maharashtra