

PHY 112: Heat, Sound and Optics 2 Units

Department of PHYSICS

Covenant University

1. PHY112

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Temperature and Zeroth law of thermodynamics, thermometers, Heat transfer, Kinetic theory of gases, Gas laws, First and second laws of thermodynamics; Concept of waves, transverse and longitudinal waves, standing waves, propagation of waves in pipes and strings, beats, Doppler effect; Electromagnetic spectrum, Huygenss Principle, Images formed by a single surface, spherical mirrors and thin lenses; aberrations; the eye, optical instruments, Interference, single slit, Diffraction, grating, Polarization, elementary examples.