

WAVES, OSCILLATIONS, SOUND & LIGHT LAB

1. Introduction

Credits: 3

2. Course Outline

Lab Exercise:

1. Coupled Oscillator- Measurement of Normal Mode Frequencies
2. KUNDT'S TUBE Determination of Velocity of Sound in Air
3. SONOMETER –Resonance Modes of a Stretched String & Velocity of Wave Propagation
4. BREWSTER ANGLE METHOD –Measurement of Refractive Index of Dielectric Material
5. FRESNEL BIPRISM –Determination of Wavelength of Light by Interference
6. NEWTON'S RINGS –Determination of Radius of Curvature of a Lens
7. FABRY –PEROT INTERFEROMETER –Measurement of Airgap Thickness
8. DIFFRACTION GRATING –Determination of Wavelengths of mercury vapor lamp.