

PHY 107 Practical Physics I (1Unit)

The experiments include: Mechanics: timing experiments, simple pendulum, compound pendulum, measurement of g , moments, determination of moment of inertia, measurement of viscosity, use of force board, law of momentum. Optics: reflection using plane mirror, convex/concave mirror, concave/convex lens, refraction using a prism, critical angle, apparent depth/real depth, simple microscope, compound microscope. Electricity: Ohm's law, heating effect of a current, internal resistance of a cell, meter/Wheatstone Bridge, potentiometer measurement of e , plotting of magnetic field. Heat: measurement of specific heat capacity of water and a solid, expansion of gas experiment using a long capillary tube, Joule's law. Sound: resonance tube, monometer.