



Engineering Physics Lab		
Course code	EPHY151	
Category	Basic science Course	
Course title	Engineering Physics Lab (Lab)	
Scheme and Credits	Credits: 0+1	
Pre-requisites (if any)	-	
<u>Group A:</u>		
EXP-1 To determine the wavelength of monochromatic light by Newton's ring.		
EXP-2 To determine the wavelength of monochromatic light with the help of Fresnel's biprism.		
EXP-3 To determine the focal length of two lenses by nodal slide and locate the position of cardinal points.		
EXP-4 To determine the specific rotation of cane sugar solution using polarimeter.		
EXP-5 To determine the wavelength of spectral lines using plane transmission grating.		
EXP-6 To study the polarization of light by simple reflection using laser.		
EXP-7 Measurement of Wavelength of a laser (He- Ne) light using single slit diffraction.		
<u>Group B:</u>		
EXP-8 To determine the specific resistance of a given wire using Carey Foster's bridge.		
EXP-9 To study the variation of magnetic field along the axis of current carrying - circular coil and then to estimate the radius of the coil.		
EXP-10 To verify Stefan's law by electrical method.		
EXP-11 To calibrate the given ammeter and voltmeter by potentiometer.		
EXP-12 To study the Hall effect and determine Hall coefficient, carrier density and mobility of a given semiconductor.		
EXP-13 To determine the energy band gap of a given semiconductor material.		
EXP-14 To determine electro chemical equivalent of copper using Tangent or Helmholtz galvanometer.		
EXP-15 To study hysteresis curve of ferromagnetic material and to determine magnetic susceptibility and permeability of the given specimen.		
EXP-16 To determine the ballistic constant of a ballistic galvanometer.		
EXP-17 To determine the coefficient of viscosity of a liquid.		
EXP-18 To measure the attenuation and aperture of fiber.		
EXP-19 To determine resistance by leakage method.		
EXP-20 To determine magnetic susceptibility of paramagnetic solution.		