Course Type	Course Code	Name of Course	L	T	P	Credit
IDC3	**NPHI102**	**ENGINEERING PHYSICS LAB**	0	0	2	1

S. No.	Name of the experiments*
1	To calculate the band gap (E_g) of a Semiconductor by measuring the resistivity at different temperatures.
2	To study the Hall – Effect of a Semiconductor.
3	To determine the Thermal Conductivity (K) of a bad conductor by Lee's method.
4	To determine wavelength of monochromatic light (λ) using diffraction grating (grating element ~ 15000 lines/inch).
5	To measure the diameter (d) of a circular aperture using Fresnel's diffraction by using He – Ne laser.
6	To measure the Brewster's angle of a glass plate and hence the refractive index (μ) of a glass by using He –Ne laser.
7	Study of the hysteresis curves of ferrites and other magnetic materials of different shapes and determination of their energy losses.
8	Determination of Young's Modulus of a beam of uniform thickness.
9	To verify the Stefan's law of radiation by Incandescent lamp.
10	To determine the coefficient of viscosity of water in a capillary using the Poiseuille's method

*Any 8 experiments will be conducted