Engineering Physics Laboratory (NPH101): UG Laboratory

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S. No.	Experiment Name	Photograph
1	To determine the energy of band gap of an N-type Germanium (Ge) semiconductor using four-probe method.	
2	Verification of Stefan's fourth power law for black body radiation, determination of the exponent of the temperature.	

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Study of thermoelectricity: Determination of thermo-power of Copper-constantan thermocouple.

To study the variation of magnetic field with distance along the axis of current carrying coil and then to estimate the radius of the coil.





Study of Carrey Foster's bridge: determination of resistance per unit length of the bridge wire and of a given unknown resistance.

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Determination of specific charge (charge to mass ratio; e/m) for electron.



Study of tangent galvanometer: determination of reduction factor and horizontal component of Earth's magnetic field.



Determination of the wavelength of sodium light using Newton Rings' method.

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To determine the concentration of sugar solution using half shade Polarimeter.

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spectral lines of mercury (for violet, green, yellow-1 and yellow-2) using plane transmission grating.

Determination of wavelength of

11	Determination of charge sensitivity and ballistic constant of a ballistic galvanometer.	
12	To determine the wavelength of spectral lines of hydrogen & hence to determine the value of Rydberg Constant.	



13

Draw the V-I characteristic of Light Emitting Diode (LED) and determine the value of Planck's constant.

