

ENGINEERING PHYSICS LAB

B.Tech. I Year I Sem.

Course Code: **PH107BS/PH207BS**

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(Any TEN experiments compulsory)

- 1) Dispersive power of the material of a prism – Spectrometer.
- 2) Determination of wavelengths of white source – Diffraction grating.
- 3) Newton's Rings – Radius of curvature of Plano convex lens.
- 4) Melde's experiment – Transverse and longitudinal modes.
- 5) Charging, discharging and time constant of an R-C circuit.
- 6) L-C-R circuit – Resonance & Q-factor.
- 7) Magnetic field along the axis of current carrying coil – Stewart and Gees method and to verify Biot – Savart's law.
- 8) Study the characteristics of LED and LASER diode.
- 9) Bending losses of fibres & Evaluation of numerical aperture of a given fibre.
- 10) Energy gap of a material of p-n junction.
- 11) Torsional pendulum – Rigidity modulus.
- 12) Wavelength of light, resolving power and dispersive power of a diffraction grating using laser.
- 13) V-I characteristics of a solar cell.