**I Year I Semester**                                         L    T    P    C

**Code: 20PH1101**                                          0    0    3    1.5

# ENGINEERING PHYSICS LAB

**(Any 10 of the following listed 15 experiments)**

1. Determine the thickness of the fiber using wedge shape method.

2. Determination of the radius of curvature of the lens by Newton's ring method.

3. Determination of wavelength by plane diffraction grating method.

4. Dispersive power of a diffraction grating.

5. Magnetic field along the axis of a circular coil carrying current.

6. To determine the energy gap of a semiconductor.

7. Rigidity modulus of material by wire-dynamic method (Torsional pendulum)

8. Characteristics of a Zener Diode.

9. Measurement of resistance with varying temperature

10. Melde's Experiment – Transverse and Longitudinal modes

11. Resolving power of a grating.

12. Study the variation of B versus H by magnetizing the magnetic material

13. Variation of dielectric constant with temperature.

14. Characteristics of Thermistor – Temperature Coefficients.

15. Determination of resistivity of semiconductor by four probe method