

PHYSICS SESSIONAL
Course No.: Phy 102
Department of CE, WRE (LEVEL-1, TERM-1)

- 1-W₂** Determination of the frequency of a tuning fork by Melde's apparatus
- 2-W₃** Determination of the spring constant and the effective mass of a loaded spring
- 3-H₂** Determination of the pressure-coefficient of air by a constant volume air thermometer
- 4-H₄** Determination of the thermal conductivity of a bad conductor by Lee's method
- 5-O₄** Determination of the radius of curvature of a Plano-convex lens by the Newton's ring method
- 6-O₅** Determination of the specific rotation of sugar solution by a polarimeter
- 7-M₁** Determination of the threshold frequency for the material of a photo-cathode and hence find the value of the Planck's constant
- 8-M₂** Determination of the linear absorption coefficient and mass absorption coefficient of Aluminum using a ¹³⁷Cs radioactive source and verification of the inverse square law of gamma radiation
- 9-E₃** Verification of Biot-Savart law and Tangent law
- 10-E₅** Determination of the temperature coefficient of the resistance of the material of a wire
- 11-H₅** Calibration of a given thermocouple
- 12-H₆** Determination of the melting point of a solid using the calibration curve obtained in experiment H₅
- 13-VL-M₃** Determination of lattice constant of NaCl crystal using an X-ray diffraction simulator
- 14-E₆** Determination of dielectric constant of materials using a parallel plate capacitor
- 15-H₇** Determination of the mechanical equivalent of heat by the electrical method