

PHYSICS SESSIONAL
Course No.: PHY 154
Department of NCE (LEVEL-1, TERM-2)

- 1- O₃** Determination of the refractive index of the material of a prism with the help of a spectrometer
- 2- O₄** Determination of the radius of curvature of a Plano-convex lens by the Newton's ring method
- 3- E₂** Determination of the resistance of a galvanometer by half deflection method
- 4- E₃** Verification of Biot-Savart law and Tangent law
- 5- O₅** Determination of the specific rotation of sugar solution by a polarimeter
- 6- O₆** Study of the intensity distribution of Fraunhofer diffraction pattern due to a double slit
- 7- E₅** Determination of the temperature coefficient of the resistance of the material of a wire
- 8- E₆** Determination of dielectric constant of materials using a parallel plate capacitor
- 9- M₁** Determination of the threshold frequency for the material of a photo-cathode and hence find the value of the Planck's constant
- 10- M₄** Verification of Heisenberg's uncertainty principle using single slit diffraction pattern
- 11- VL-E₁** Verification of the Coulomb's law of electrostatics
- 12-VL-M₃** Determination of lattice constant of NaCl crystal using an X-ray diffraction simulator