

# PHYSICS SESSIONAL

## COURSE NO: Phy 102

Department of CSE

(LEVEL-1, TERM-1)

- 1-W<sub>2</sub>** Determination of the frequency of a tuning fork by Melde's apparatus.
- 2-W<sub>3</sub>** Determination of the spring constant and the effective mass of a loaded spring.
- 3-G<sub>2</sub>** Determination of the moment of inertia of a fly-wheel about its axis of rotation.
- 4-G<sub>3</sub>** Determination of the rigidity modulus of the material of a wire by the static method.
- 5-H<sub>2</sub>** Determination of the pressure-coefficient of air by a constant volume air thermometer.
- 6-H<sub>4</sub>** Determination of the thermal conductivity of a bad conductor by Lee's method.
- 7-O<sub>4</sub>** Determination of the radius of curvature of a Plano-convex lens by the Newton's ring method.
- 8-O<sub>5</sub>** Determination of the specific rotation of sugar solution by a polarimeter.
- 9-M<sub>1</sub>** Determination of the threshold frequency for the material of a photo cathode and hence find the value of the Planck's constant.
- 10-W<sub>4</sub>** Determination of the acceleration due to gravity 'g' by means of a compound pendulum.
- 11-H<sub>5</sub>** To plot the thermo-electromotive force vs. temperature (Calibration) curve for a given thermocouple.
- 12-H<sub>6</sub>** Determination of the melting point of a solid using the calibration curve obtained in experiment H<sub>5</sub>.
- 13-H<sub>3</sub>** Determination of thermal conductivity of a good conductor by Searle's apparatus.
- 14-O<sub>3</sub>** Determination of the refractive index of the material of a prism with the help of a spectrometer.