PHYSICS SESSIONAL
COURSE NO: Phy 102

Department of CE, WRE & CHE
(LEVEL-1, TERM-1)

1-W_2 Determination of the frequency of a tuning fork by Melde's apparatus.

2-W_3 Determination of the spring constant and the effective mass of a loaded spring.

3-H_2 Determination of the pressure-coefficient of air by a constant volume air thermometer.

4-H_4 Determination of the thermal conductivity of a bad conductor by Lee's method.

5-O_4 Determination of the radius of curvature of a Plano-convex lens by the Newton's ring method.

6-O_5 Determination of the specific rotation of sugar solution by a polarimeter.

7-M_1 Determination of the threshold frequency for the material of a photo-cathode and hence find the value of the Planck's constant.

8-W_4 Determination of the acceleration due to gravity 'g' by means of a compound pendulum.

9-H_5 To plot the thermo-electromotive force vs. temperature (Calibration) curve for a given thermocouple.

10-H_6 Determination of the melting point of a solid using the calibration curve obtained in experiment H_5.

11-H_7 Determination of the mechanical equivalent of heat by the electrical method.

12-E_3 To verify Biot-Savart law and Tangent law.

13-E_1 Determination of unknown resistances and verification of the laws of resistances by P.O. (Post Office) Box.

14-E_5 Determination of the temperature coefficient of the resistance of the material of a wire.

15-M_2 Determination of the linear absorption coefficient and mass absorption coefficient of Aluminum using a ^{137}Cs radioactive source and verification of the inverse square law of gamma radiation.