PHYSICS SESSIONAL
COURSE NO: Phy 102
Department of ME, NAME & IPE
(LEVEL-1, TERM-2)

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

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

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

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

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

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

7-O_1 Determination of the focal length of (i) a convex lens by the displacement method and (ii) a concave lens by the auxiliary lens method.

8-O_2 Determination of the refractive index of a liquid by plane mirror and pin method using a convex lens.

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

10-G_3 Determination of the rigidity modulus of the material of a wire by the static method.

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

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

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

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

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.