PHYSICS SESSIONAL

Course No.: Phy 102

Department of EEE (LEVEL-1, TERM-2)

1-W_1	Determination of line frequency by Lissajous figures using an oscilloscope and a function generator and verification of the calibration of time/div knob at a particular position for different frequencies
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_3	Determination of the refractive index of the material of a prism with the help of a spectrometer
6-O_4	Determination of the radius of curvature of a Plano-convex lens by the Newton's ring method
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-M_2	Determination of the linear absorption coefficient and mass absorption coefficient of Aluminum using a ^{137}Cs radioactive source
9-E_3	Verification of Biot-Savart law and Tangent law
10-E_6	Determination of dielectric constant of materials using a parallel plate capacitor
11-H_5	Calibration of a given thermocouple
12-H_6	Determination of the melting point of a solid using the calibration curve obtained in experiment H_5
13-O_5	Determination of the specific rotation of sugar solution by a polarimeter
14-VL-M_3	Determination of lattice constant of NaCl crystal using an X-ray diffraction simulator
15-H_7	Determination of the mechanical equivalent of heat by the electrical method

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