PHYSICS SESSIONAL

Course No.: Phy 102

Department of ChE (LEVEL-1, TERM-1)

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-O_3	Determination of the refractive index of the material of a prism with the help of a spectrometer
4-O_4	Determination of the radius of curvature of a Plano-convex lens by the Newton's ring method
5-M_1	Determination of the threshold frequency for the material of a photo-cathode and hence find the value of the Planck's constant
6-M_2	Determination of the linear absorption coefficient and mass absorption coefficient of Aluminum using a ^{137}Cs radioactive source
7-E_3	Verification of Biot-Savart law and Tangent law
8-E_5	Determination of the temperature coefficient of the resistance of the material of a wire
9-E_2	Determination of the resistance of a galvanometer by half deflection method
10-O_5	Determination of the specific rotation of sugar solution by a polarimeter
11-E_6	Determination of dielectric constant of materials using a parallel plate capacitor
12-VL-M_3	Determination of lattice constant of NaCl crystal using an X-ray diffraction simulator
13-W_2	Determination of the frequency of a tuning fork by Melde's apparatus

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