PHYSICS SESSIONAL

Course No.: Phy 102 Department of MME (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-E ₃	Verification of Biot-Savart law and Tangent law
4-E ₅	Determination of the temperature coefficient of the resistance of the material of a wire
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-G ₁	Determination of the surface tension of water by capillary tube method
8-G ₃	Determination of the rigidity modulus of the material of a wire by the static method
9-H ₅	Calibration of a given thermocouple
10-Н6	Determination of the melting point of a solid using the calibration curve obtained in experiment H_5
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-O ₅	Determination of the specific rotation of sugar solution by a polarimeter
14-W ₂	Determination of the frequency of a tuning fork by Melde's apparatus