PHYSICS SESSIONAL

Course No.: Phy 102 Department of CE, WRE (LEVEL-1, TERM-1)

	1-W1	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-W3	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
	5-04	Determination of the radius of curvature of a Plano-convex lens by the Newton's ring method
	6-05	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-M ₂	Determination of the linear absorption coefficient and mass absorption coefficient of Aluminum using a ¹³⁷ Cs radioactive source
	9-E3	Verification of Biot-Savart law and Tangent law
	10-E5	Determination of the temperature coefficient of the resistance of the material of a wire
	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-VL-M ₃	Determination of lattice constant of NaCl crystal using an X-ray diffraction simulator
	14-E ₆	Determination of dielectric constant of materials using a parallel plate capacitor
	15-H7 16-W2	Determination of the mechanical equivalent of heat by the electrical method Determination of the frequency of a tuning fork by Melde's apparatus