

PHYSICS SESSIONAL (VIRTUAL LAB)

Course No: PHY 102

Department of ChE (Level-1, Term-1)

- 1. VL-W1** Determination of the spring constant and the effective mass of a loaded spring
- 2. VL-E2** Determination of dielectric constant of a material using a parallel plate capacitor
- 3. VL-O1** Determination of the wavelength of monochromatic light by Young's double slit experiment
- 4. VL-M1** Determination of the threshold frequency for the material of a photo cathode and hence find the value of the Planck's constant
- 5. VL-W2** Determination of acceleration due to gravity 'g' and verification of conservation of energy of a simple pendulum
- 6. VL-E3** To plot the I-V characteristic curves for an ohmic conductor, a thermistor and a diode
- 7. VL-O3** Verification of Malus' law of polarization of light
- 8. VL-M2** Determination of the linear absorption coefficient and mass absorption coefficient of Lead (Pb) and Aluminum (Al) using ^{60}Co radioactive source