SUBJECT NO-PH19003, SUBJECT NAME- PHYSICS LABORATORY

LTP- 0-0-3,CRD- 2

SYLLABUS :-

1. Pohl’s Pendulum: To study forced oscillations and to plot resonance curves fordifferent damping.2. Coupled Pendula: To study normal modes and to determine the normal frequencies ofa coupled pendula.3. Newton’s Rings: To study the interference fringes of equal thickness to determine thewavelength of Sodium light.4. Michelson Interferometer: To study the interference fringes of equal inclination andto determine the wavelength of He-Ne laser light.5. Single Slit Diffraction: To study the single slit Fraunhofer diffraction and to plot theintensity distribution of diffraction pattern by a slit.6. Diffraction Grating: To study the multi-slit Fraunhofer diffraction and to determinethe wavelengths of Mercury spectral lines.7. Prism Spectrometer: To study the prism dispersion and to plot refractive index vswavelength curve.8. Polarimeter: To study polarised light and to determine the specific rotation of anoptically active substance by a polarimeter.9. Stretched Strings and Air Columns: To study transverse and longitudinal waves andto determine the phase velocity of waves produced in an ordinary string and todetermine the speed of sound in air.10. Photoelectric Effect: To study the Photoelectric effect and to determine Planck’squantum of action.