

<b>Subject Code: PH1P001</b>	<b>Name: Physics Laboratory</b>	<b>L-T-P-C: 0-0-3-2</b>
<b>Prerequisite:</b> None		
<p><b>Syllabus:</b></p> <p>To determine the damping constant of the pendulum for different eddy damping current. To verify Malus's Law of polarization of light. To determine the wave length of the prominent lines of mercury source by a plane transmission diffraction grating and to calculate the resolving power and dispersive power of the grating. To study the intensity distribution of Fraunhofer diffraction pattern by a single slit and measure the width of the slit for a given wavelength of laser light. To determine the wavelength of the given source using the Michelson interferometer. To determine the wave length of the given source using Fresnel's biprism. To find out the resonance and beat time period of the coupled pendulum and find out the spring constant. To study the interference pattern and determine the radius of curvature of the plano convex lens using Newton's rings apparatus. To determine Young's Modulus of different materials through uniform and non-uniform bending methods.</p> <p><b>Text/Reference Books:</b></p> <ol style="list-style-type: none"> <li>1. Ghatak A. Optics, McGraw-Hill.</li> <li>2. Pain H. J. The Physics of Vibrations and Waves, Wiley.</li> </ol>		