Parvatibai Chowgule College of Arts and Science
(Autonomous)

2019-20

	CO3 : Understand the working of transient circuits and alternating current circuits. CO4 : Correlate the theoretical basis of various concepts of electricity and magnetism while performing experiments.
Electromagnetic Theory – I	CO1: Apply vector calculus to understand concepts in electrostatics. CO2: Comprehend the interaction between charges in vacuum as well as in medium. CO3: Calculate the electric field and electrical potential for discrete charges and continuous distribution of charge. CO4: Apply suitable techniques to solve various electrostatic problems. CO5: Understand how ferroelectric materials can be used as memory devices.
Optics	CO1 : Understand the image formation for various optical systems. CO2 : Differentiate between optical phenomena like Interference, Diffraction and Polarization. CO3 : Correlate the theoretical basis of various concepts of Geometrical Optics and Physical Optics while performing experiments CO4 : Develop understanding towards the different phenomena exhibited by light.
Oscillations, Waves and Sound	CO1 : Set up an equation of motion for simple harmonic motion and obtain its solution. CO2 : Explain how superposition of waves leads to different Lissajous figures. CO3 : Set and solve the equation of motion for damped and driven damped harmonic oscillators and analyse the nature of oscillations. CO4: Understand the dependence of velocity of sound waves on various factors like temperature, pressure, density, humidity. CO5: Solve problems for different cases of Doppler effect.
Instrumentation	CO1 : Understand basic concepts related to the various types of measuring instruments and measuring techniques. CO2 : Comprehend basic principles involved in measuring