

Subject Code:1SC2050105

Subject Title: Practical

COURSE OBJECTIVE:

Physics is a science to understand the nature. This course is designed to get basic understanding of the physical world.

LEARNING OUTCOMES:

- To understand the application of physics in real world.

Teaching scheme (hours) per week		Credit		University Examination		Internal Examination		Total
Theory	Practical	Theory	Practical	Theory	Practical	Theory	Practical	
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Physics Practical

- Frequency response of LDR using different filters
- Determination of resistivity of a semiconductor using four probe method
- Arithmetic operations through combinational logic circuits
- LCR damped harmonic oscillator
- Wave shaping circuits (using R,C,D)
- Determination of e/k using a power transistor
- Thermistor characteristics and estimation of the band gap of the semiconducting material
- Measurement of dielectric constant of solid materials by resonance method
- Determination of the Planck's constant using LED
- Dead time determination of a Geiger-Muller counter
- Analysis of solar absorption spectra using hart-Mann formula
- Study of chaos through the logistic map of a population growth