

Subject Code:1SC2050205

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

1. Application of OP-AMP as Integrator and Differentiator
2. Schmidt Trigger Circuit
3. 555 As Multivibrator
4. Study of FLIP-FLOP circuit
5. UJT: Basic Characteristics and its application as Relaxation Oscillator
6. Characteristics of Solar cell
7. Determination of Beta ray absorption coefficient and inverse square law verification by Gamma ray detection
Using GM counter
8. Optical Absorption of I_2 molecule and estimation of its dissociation energy
9. Curie temperature measurement of a Ferroelectric material
10. Study of Hall Effect at Different temperature
11. Thermoelectric power of a semiconducting material
12. Linear least square method (Numerical)