

Subject Code:2SC1050403

Subject Title: Physics 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:

- Develop actual ideas of the physics theory.
- To know the basic concept of physics theory.
- Understand the physics theory by practical.

Teaching scheme (hours) per week		credit		Theory Marks		Practical Marks		Total
Theory	Practical	Theory	Practical	University Assessment	Cont. Assessment	University Assessment	Cont. Assessment	
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Physics Practical:

1. Resonance pendulum. Determination of 'l', 'r' & 'a'
2. Study of X-ray diffraction (Powder) Pattern.
3. Decay of Temperature when body is allowed to cool.(thermocouple)
4. To study elliptically polarized light using photocell and quarter wave plate.
5. To determine λ using Hartzmann formula
6. Activation energy of a semiconductor
7. Absorption co-efficient of liquid using photocell.
8. Study of B.G.: To determine current sensitivity, volt sensitivity, figure of merit and Rg of B.G.
9. High resistance by equal deflection method.
10. Low resistance by Carry foster bridge.
11. To determine low value of 'C' using Schering bridge.
12. Characteristics of UJT & Determination of RBB, VD & η
13. Characteristics of a Photodiode
14. To verify De Morgan's Theorems using IC-7400.