

**Subject Code: 2SC1050303**

**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 |       |
| --                               | 6         | --     | 3         | --                    | --               | 60                    | 40               | 100   |

**Physics Practical:**

1. Coaxial Viscometer
2. To determine wave length of bright lines of mercury light using grating.
3. R.P. of Telescope
4. Searl's Goniometer. Determination of cardinal points and 'do'
5. Kundt's tube. Determination of 'y'
6. Diffraction by Adser 'A' Pattern
7.  $e/k$  by Power Transistor
8. Absolute value of capacity using B.G. or S.G.
9. Low resistance by method of Projection
10. Comparison of capacity (C1/C2) by Desauty method
11. To determine self inductance by Anderson Bridge
12. Characteristics of a C.B. Transistor (PNP)
13. Characteristics of JFET & Determination of  $\mu$ ,  $r_d$ ,  $g_m$
14. Construction of AND, OR, NOT Gates using NAND & NOR Universal gates.