# 17SH11P2 - ENGINEERING PHYSICS LABORATORY

(Common to EEE, ECE, CSE & IT Branches)

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| **Course Category:** | Basic Sciences | **Credits:** | 2 |
| **Course Type:** | Practical | **Lecture - Tutorial - Practical:** | 0-0-3 |
| **Prerequisite:** | Engineering Physics | **Sessional Evaluation:**  **Univ. Exam Evaluation:**  **Total Marks:** | 40  60  100 |
| **Objectives** | * The main objective is to provide students to learn about some important experimental techniques in physics with knowledge in theoretical aspects so that they can excel in that particular field. | | |

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| **Course Outcomes** | 1. These experiments in the laboratory are helpful in understanding important concepts of physics through involvement in the experiments by applying theoretical knowledge. 2. It helps to recognize where the ideas of the students agree with those accepted by physics and where they do not. |
| **Course Content** | Minimum of 8 experiments to be completed out of the following:  LIST OF EXPERIEMENTS   1. Determination of Rigidity modulus of a material – Torsional pendulum 2. Melde’s Experiment – Transverse and Longitudinal modes 3. Time constant of RC circuit 4. Resonance in LCR circuit 5. Magnetic field along the axis of a coil (Stewart-Gees Method) 6. Study of characteristics of LED and LASER Sources 7. Evaluation of Numerical Aperture of a given fiber 8. Energy Gap of a material of p-n junction 9. Diode Characteristics 10. Transistor Characteristics 11. Characteristics of Solar cell 12. Logic Gates 13. Hall Effect |