Course Type	Course Code	Name of the Course	L	T	P	Credits
DSC	NEEC102	Basics of Electrical Engineering-I Lab	0	0	2	1

Course Objective

The objective of this lab is to introduce undergraduate students to the basic aspects electrical engineering in terms of identification of components, validating network theorems, and AC circuits.

Learning Outcomes

Upon successful completion of this course, students will develop:

- an ability to identify the basic electrical equipment.
- an idea about the working of different network theorems and single-phase and three-phase circuits.

Unit No.	Topics to be Covered	Laboratory Hours	Learning Outcome
1.	Experiments on Network Theorems	4x2	Students will learn about verification of different network theorems.
2.	Experiments on Magnetic Circuits	2x2	Students will understand the basics of electrical circuits.
3.	Time Domain Analysis of Electrical Circuits	2x2	Students will learn about time domain analysis of electrical circuits.
4.	Experiments on Single Phase & Three-phase AC Circuits	2x2	Students will learn analysis and measurements of different electrical quantities of single-phase and three-phase AC circuits.

Text Books:

1. Electrical Engineering Fundamentals - V Del Toro, Publisher: Prentice - Hall International, Edition: 2

Reference Books:

1. Basic Electrical Engineering - D P Kothari and I J Nagrath, McGraw-Hill, Edition-3.
2. Fundamentals of Electrical Engineering – Ashfaq Husain and Haroon Ashfaq