

## **Elements of Electrical Engineering**

### **Bridge Course –6 Weeks**

#### **Course Objectives:-**

- To develop technical skill in engineering student.
- To acquire technical knowledge practically.
- To develop analytical & creative skill of engineering student.

#### **Course Outcome:-**

- Students will be able to use different electrical tools and devices.
- Students will be able to measure different electrical quantities
- Student will be able to understand safety rules and safety devices.

#### **Course Structure:-**

#### **List of Activities:**

<b>Sr. No.</b>	<b>Type of Activity</b>	<b>Duration Hours/Week</b>
1.	To demonstrate different Electrical Tools used in Electrical Engineering Field such as Tester, Screw driver, Hand Drill etc. (Students will be given Different tools in a group for demonstration)	01
2	To demonstrate different Measuring meters such as Ammeter, Voltmeter, Wattmeter, Clamp on meter etc. (Students will be given Meters in a group for demonstration)	01
3.	To demonstrate different Cables/Wires uses for wiring purpose. (Students will be given Different size of cables in a group for demonstration)	01
4	To demonstrate different light sources such as Incandescent lamps, LED lamps, Fluorescent lamps etc. (Students will be given above light sources in a group for demonstration)	01
5	To familiarize different protective devices such as Fuse, MCB, ELCB etc. (Students will be given Different protective devices in a group for demonstration)	01
6	To demonstrate different safety rules and first aid treatment for electrical accidents. (Students will be shown Different charts in a group for demonstration)	01

#### **Evaluation :- ( Week 6)**

- Paper based MCQ test based on syllabus.

#### **Recommended References:**

- Any book of Basic of Electrical Engineering can be helpful.
- Wikipedia.
- YouTube videos