TERNA ENGINEERING COLLEGE
AN ISO 9001:2000 | NBA ACCREDITATION

# Department of Electronics and Telecommunication Engineering

## BASIC ELECTRONICS LABORABORY

Lab location: 1nd Floor, Room No. 113

Area of the lab in carpet: 75.66sq. meters.

Objectives: The objectives of a basic electronics lab may include:

1. Understanding the basic concepts of electronics: A basic electronics lab aims to provide a fundamental understanding of the principles of electronics such as voltage, current, resistance, capacitance, and inductance.
2. Familiarizing with electronic components: The lab allows students to get hands-on experience with electronic components such as resistors, capacitors, diodes, transistors, and ICs. It helps in developing skills in identifying and using these components.
3. Learning basic circuits: A basic electronics lab teaches students how to build and analyze basic electronic circuits such as voltage dividers, amplifiers, and filters. It helps in understanding the relationship between components and their impact on the circuit.
4. Learning software's to solve comparatively complex problems virtually.

Strength: Along with the required instruments the lab is also equipped with ample numbers of desktop computers.

**Hardware Available:**

1. DESKTOP PC'S HP-I5→ Total Count 5.
2. CRO-APLAB 30MHZ→ Total Count 10.
3. DSO-APLAB→ Total Count 01
4. FUNCTION GENERATOR-APLAB → Total Count 18
5. DC POWER SUPPLY → Total Count 18
6. DIGITAL MULTIMETER→ Total Count 7
7. BREADBOARD TRAINER KITS→ Total Count 14

**Courses:**

1. Electronic Devices and Circuits(EXTC-S.E → Semester III)
2. Mini Project(EXTC-S.E → Semester VI)
3. Linear Integrated and Circuits(EXTC-SE→ Semester IV)