

Lab Name : Measurement & PED Laboratory

Room No: 231
EE Department (NBA Accredited)
A D Patel Institute of Technology
New Vidyanagar
Lab in-charge name : M. K. Joshi
www.adit.ac.in

Lab Area: 228.87 Sq.m

Measurement Lab Introduction:

In this laboratory Practicals based on Electrical Measurement are performed. In detail,

- To measure unknown value of Resistance by various methods like Wheatstone Bridge, Kelvin's Double Bridge, Maxwell's Bridge Methods, Loss of Charge Methods are performed.
- Extended. Range of Ammeter, Voltmeter and wattmeter are performed.
- Calibration of Voltmeter, Ammeter, Wattmeter and energy are carried out.
- Power measurement through different methods like Barlow Method using C.T. and P.T. and two wattmeter methods are performed.
- The department has nice facility to perform the entire practical mentioned above.

Major Instruments available in lab:

There are trainer Kits of all bridges, C.T. and P.T., Resistance Decade Boxes, Resistive Load bank (Star and Delta Configuration), Multimeters, watt meters, ammeters, voltmeters, Galvanometers, e analog Boards are available in the laboratory.

Lab Photograph:



Department of Electrical Engineering (NBA Accredited),
A D Patel Institute of Technology, New Vidyanagar

Lab name: Power electronics & Drives

Room No: 231

EE Department (NBA Accredited)

A D Patel Institute of Technology

Lab in-charge name :

Mr. Vishal S Sheth

Lab Area: 228.87 Sq. M.

Lab Introduction:

The Power Electronics lab aims is imparting practical knowledge of Power Electronics converter of UG level students. . It is accordingly well equipped with equipment's and trainer kits to teach practical from fundamentals to high level concepts to UG students. In this lab students learn the characteristics of different types of power electronic device, understand and analyze the operation of controlled rectifiers, choppers, inverters, multi level inverter, multi pulse converter. This lab also provides the platform for the UG students to perform and check their minor project, multi-disciplinary design and major project.

Major Instruments available in lab:

- (1) High Power Inverter
- (2) Multi Level Inverter (5-Level)
- (3) Multi Pulse Converter(12-Pulse)
- (4) DSP Controller
- (5) ARM Controller
- (6) Sensor Card
- (7) ADC/DAC card
- (8) DSO, MSO

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Lab/ Instruments Photograph:



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