



UGC RECOGNIZED

PDEU PANDIT
DEENDAYAL
ENERGY
UNIVERSITY

Formerly Pandit Deendayal Petroleum University (PDPU)



SCHOOL OF ENERGY TECHNOLOGY

Department of Electrical Engineering

Name of Laboratory : Elements of Electrical Engineering Lab

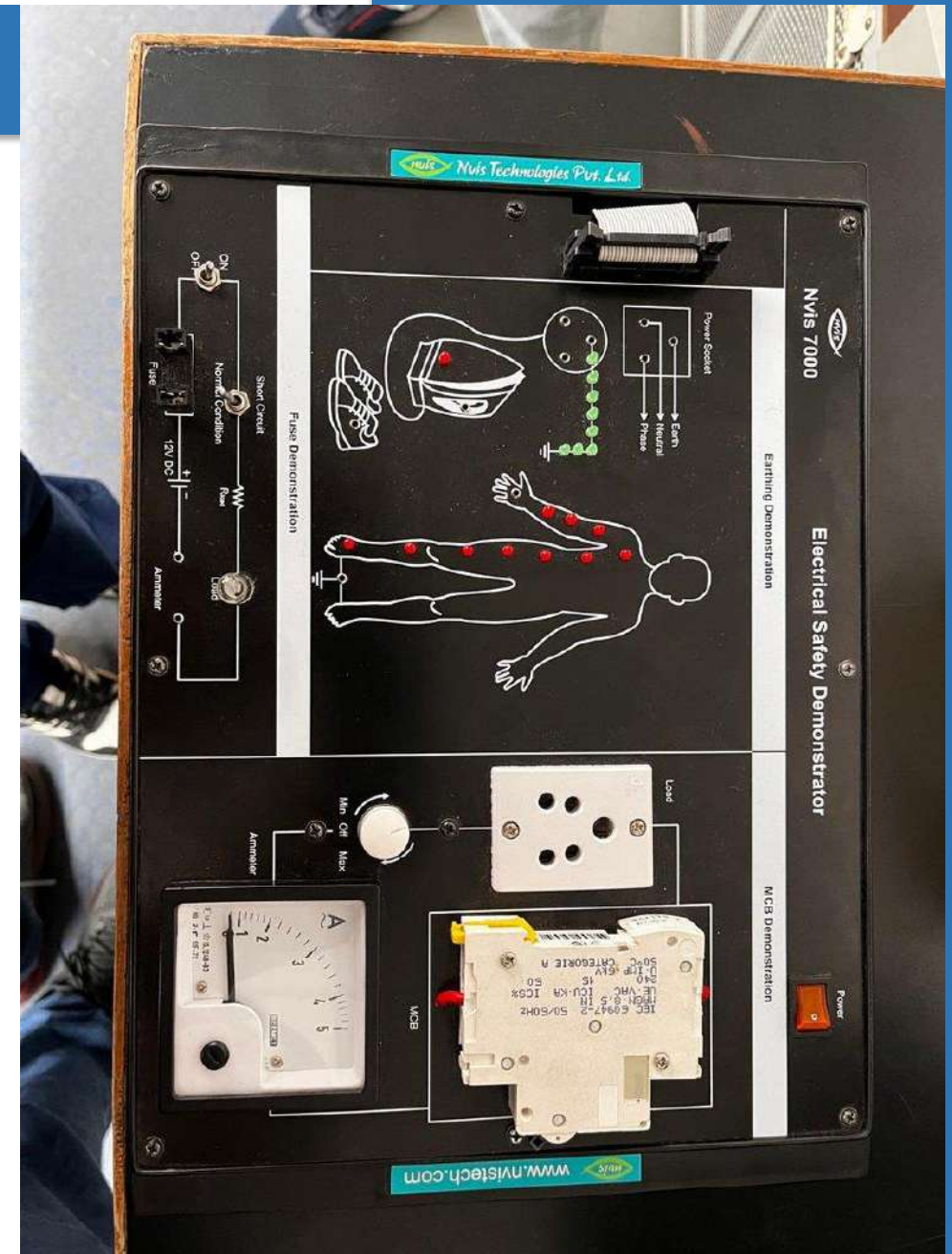
www.pdeu.ac.in

NAME OF EQUIPMENT :

Electrical Safety Demonstrator

TECHNICAL SPECIFICATIONS :

- Nvis 7000
- Earthing, MCB, Fuse Demonstration
- Model: Nvis 7000
- Input Voltage: 230V AC, 50Hz Single Phase
- Demonstrations: Earthing, MCB, ELCB, Fuse, RCD
- MCB Rating: 6A, 10A, 16A (Type B & C)
- Fuse Types: Rewirable & Cartridge fuse demonstration
- Safety Features: IP20 enclosure, colour-coded terminals
- Operating Temp: 0°C to 50°C



NAME OF EQUIPMENT :

Single Phase Variac (Auto Transformer)

TECHNICAL SPECIFICATIONS :

- Variac
- Manish Electrical Instruments
- Variable AC Output
- Make: Manish Electrical Instruments, Mumbai
- Input: 230V AC, 50Hz, Single Phase
- Output: 0 – 270V AC, Variable
- Current Rating: 5A / 10A (Model dependent)
- Core: Toroidal wound, silicon steel laminations
- Regulation: $\pm 1\%$ at full load
- Knob: Calibrated dial with locking facility
- Enclosure: Mild steel powder-coated cabinet



NAME OF EQUIPMENT :

AC Ammeter and AC Voltmeter (Analog)

TECHNICAL SPECIFICATIONS :

- Automatic Electric Limited
- Panel type
- Various ranges
- Make: Automatic Electric Limited (AEL), Mumbai
- Type: Moving Iron, Panel Mounting
- Voltmeter Ranges: 0-150V, 0-300V, 0-600V AC
- Ammeter Ranges: 0-1A, 0-5A, 0-10A AC
- Accuracy Class: 1.5 (as per IS 1248)
- Frequency: 50Hz
- Mounting: 96×96 mm panel cut-out (DIN standard)
- Scale: White dial, black lettering

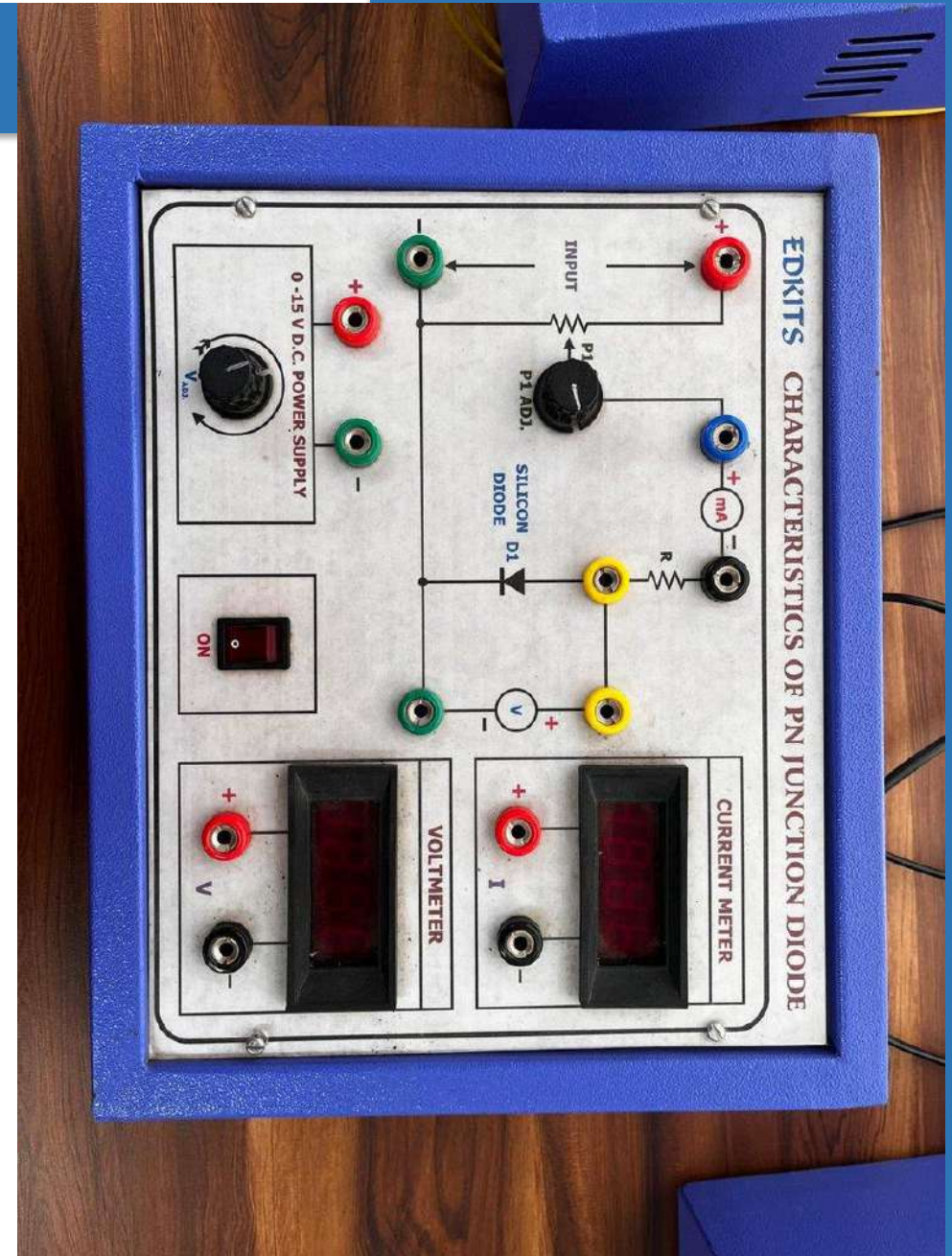


NAME OF EQUIPMENT :

Diode Characteristics Trainer

TECHNICAL SPECIFICATIONS :

- EDKITS
- PN Junction Diode Characteristics
- 0-15V DC Power Supply
- Make: EDKITS Educational Instruments
- Diode Type: PN Junction, Zener Diode
- DC Power Supply: 0–15V variable, regulated
- Measurement: Built-in digital voltmeter & ammeter
- Breakdown Voltage (Zener): 6.2V / 9.1V
- Forward Characteristics: 0 to 1V plot range
- Reverse Characteristics: 0 to 30V plot range
- Connectors: 2mm safety banana jacks



NAME OF EQUIPMENT :

Single Phase Variac (Standalone)

TECHNICAL SPECIFICATIONS :

- Variable AC Output 0-270V
- Rotary Type
- Type: Single Phase Autotransformer (Variac)
- Input: 230V AC, 50Hz
- Output: 0 – 270V AC, Continuously Variable
- Current Rating: 10A
- Core Type: Toroidal, grain-oriented silicon steel
- Waveform Distortion: < 0.1%
- Mounting: Bench-top with rubber feet
- Regulation: $\pm 2\%$ at full load

