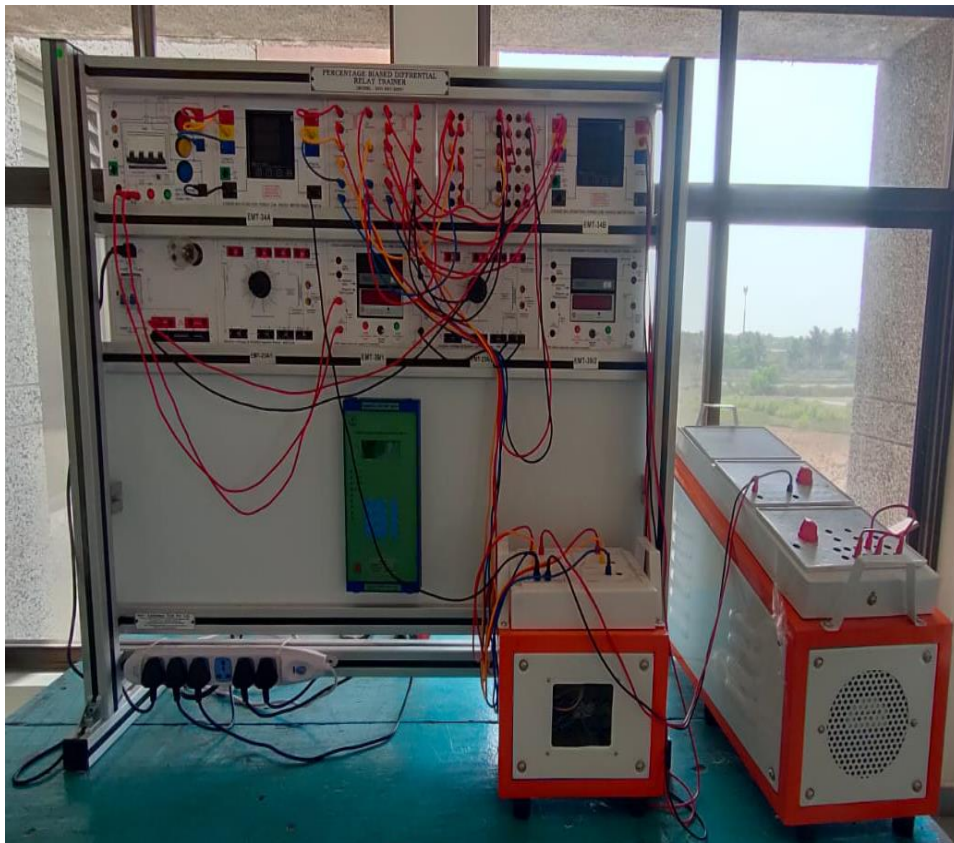


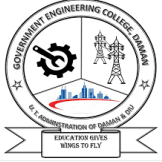
**GOVERNMENT ENGINEERING COLLEGE, DAMAN**  
**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**SWITCHGEAR & PROTECTION LABORATORY**

**PERCENTAGE BIASED DIFFERENTIAL PROTECTION OF**  
**TRANSFORMER TRAINER**



**Basic Details: -**

- 4 pole MCB – 415V/2A
- 1 PHASE MCB- 4A/1.6A
- 1 phase dimmer -230V/1A
- SC Transformer – 230VAC/1A (Pri), 2-8V/12A(sec)
- 3 phase bidirectional power cum energy meter panel
- Overcurrent & elapsed time measurement panel
- Differential relay panel
- CT panel



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**RADIAL FEEDER PROTECTION TRAINER**



**Basic Details: -**

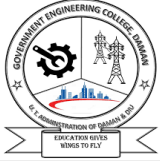
1 phase AC input- 2 MCBs (4A/1.6A).

Variable voltage & current injector panel

- 1 phase dimmer -230V/1A
- SC Transformer – 230VAC/1A (Pri), 2-8V/12A(sec)

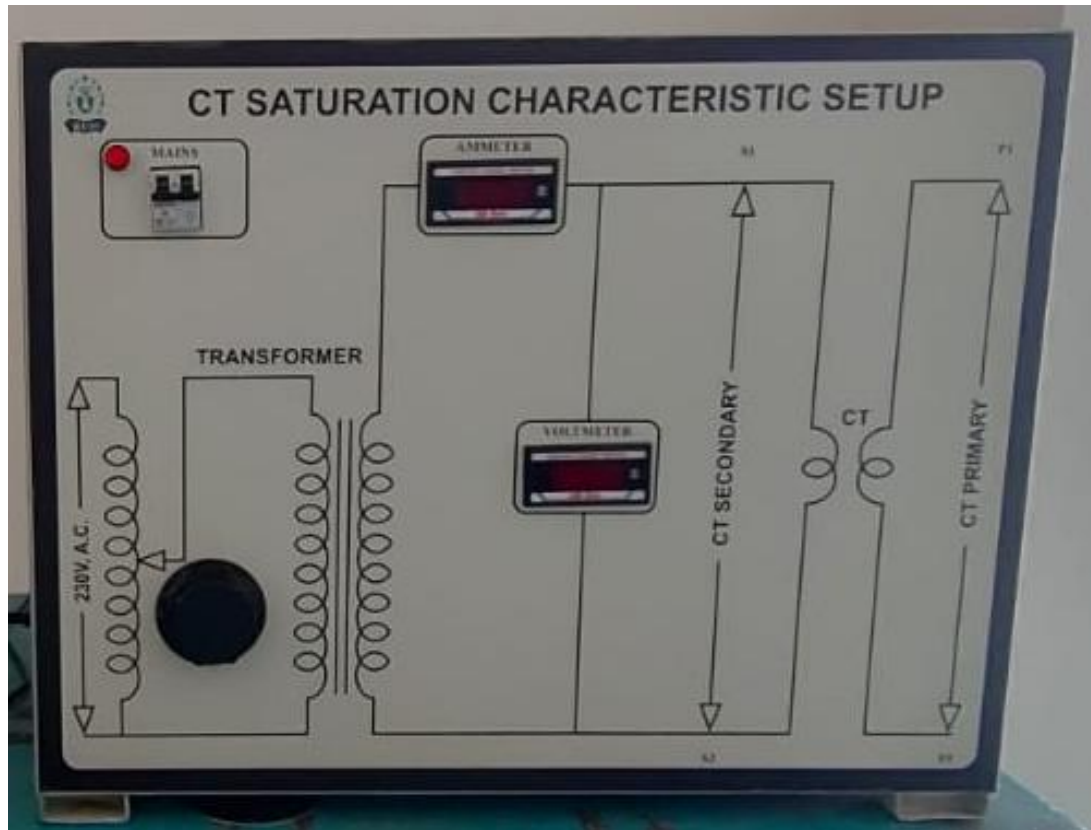
Overcurrent & elapsed time measurement panel

OC & earth fault relay panel



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**SWITCHGEAR & PROTECTION LABORATORY**

**CT SATURATION CHARACTERISTIC TRAINER**



**Basic Details: -**

4 pole MCB - 415V/2A

Integrated AC measurement panel - 1 phase

Integrated AC measurement panel - 3 phase

PT panel

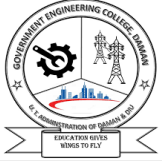
CT PANEL

1 PHASE MCB- 4A/1.6A - 2A

Resistor load panel

LC load panel

Variable AC voltage & current injector panel



## GOVERNMENT ENGINEERING COLLEGE, DAMAN DEPARTMENT OF ELECTRICAL ENGINEERING SWITCHGEAR & PROTECTION LABORATORY

### NUMERICAL PROTECTION OF INDUCTION MOTOR TRAINER



#### **Basic Details: -**

Motor rating - 415 v, 50Hz, 1500 rpm

- CT Ratio - 10/1 A.
- PT Ratio - 415/110V
- 7SR17 Siemens Motor Protection relay

Generator rating

- CT Ratio - 10/1 A.
- PT Ratio - 415/110 V.
- 7SR1004 Siemens make Motor Protection relay