



Madanapalle Institute of Technology & Science

(UGC- AUTONOMOUS INSTITUTION)

Madanapalle-517325, Annamayya Dist., Andhra Pradesh

TECHNICAL SKILL DEVELOPMENT INSTITUTE (t-SDI)

APSSDC SIEMENS -ELECTRICAL HOME LAB

Description

Electrical Home Lab is initiated to educate learners in the fields of:

- Electrical Terms and Circuits,
- Domestic Wiring,
- Electrical Safety,
- Estimation of Electrical Wiring,
- Electrical Symbols and Reading of Electrical Drawings.

OBJECTIVES:

The lab's main objective is to teach learners about the basics of Domestic wiring, Electrical Motor controllers, Electrical protective devices, Materials, and Tools used. After completion of the course, students will be able to:

- ✓ Interpret electrical wiring diagram for domestic applications,
- ✓ Use various electrical measuring instruments,
- ✓ Conduct inspection and maintain electrical wiring circuit by following safety norms,
- ✓ Understand Indian Electricity Rules and perform domestic wiring installation,
- ✓ Enumerate various protective devices,
- ✓ Understand the Illumination concept,



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Major Equipment and Tools:

- Industrial training circuit board,
- Variable Frequency Drive Kit,
- Removable and constructional Step-Down Transformers,
- Electric hot plate 1500 Watts,
- CRO,
- DC Power Supply,
- Flux Meter and RPS,
- Discrete Component Trainer Kit,
- Digital IC Trainer,
- 3 Point and 4 Point Starters,
- Single phase Variac,
- Electrical Machine Trainer,
- DC Motors - Series, Shunt, Compound,
- Single phase core type transformer 230/415 V,
- 3 Phase Induction motor Cut Section model,
- DOL Starters,
- Stepper Motor with Digital Controller,
- Shaded Pole Motor,
- Motor - Generator Set with control unit,
- Generator - Motor Set with control unit,
- Single Phase Capacitor motor & AC Series Motor,
- Universal Motor etc.



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View of Electrical Home Lab:



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View of Electrical Home Lab



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View of Electrical Home Lab



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During Training Session



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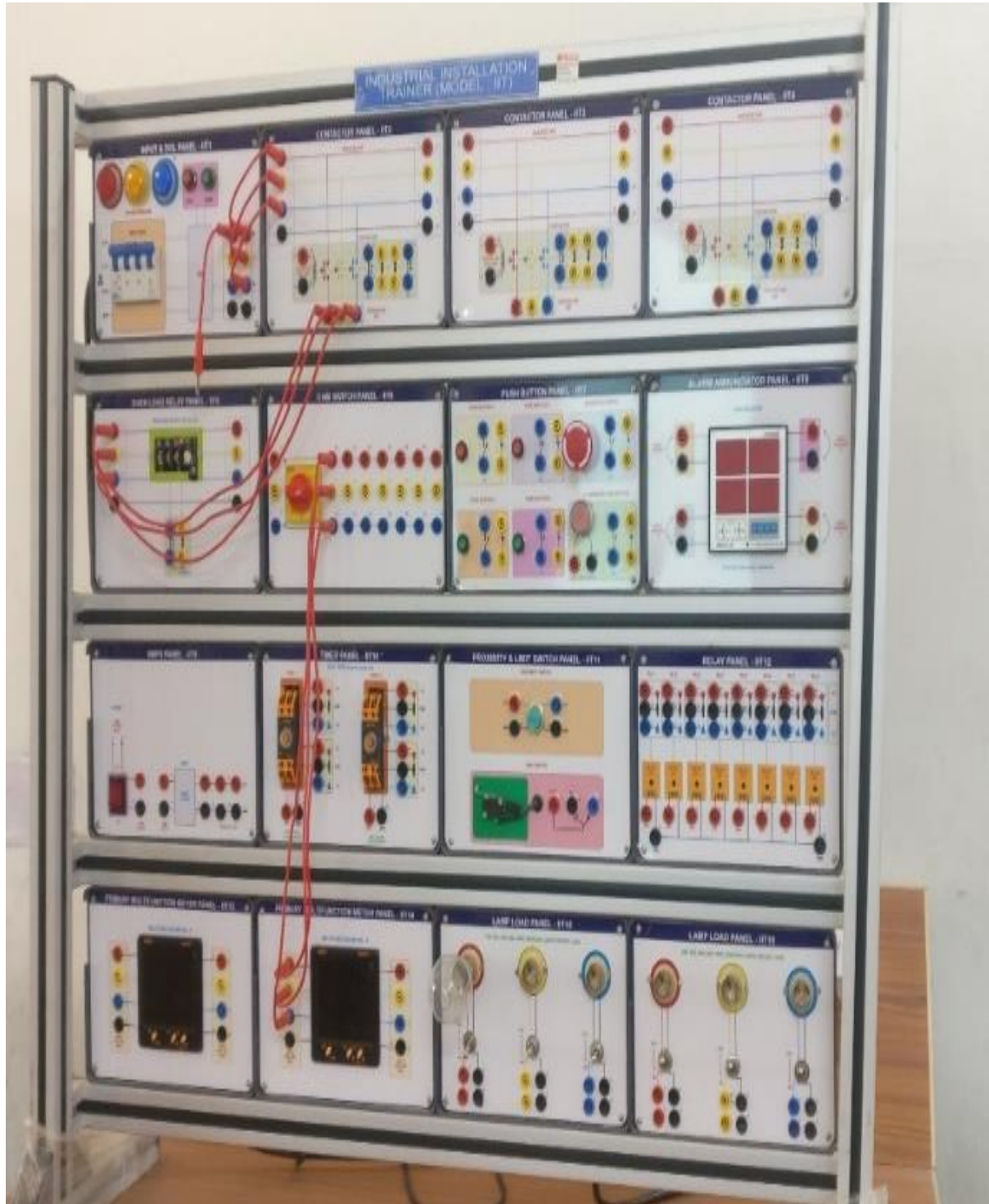
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Industrial Installation Trainer Module



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Control Panel of Electrical Machines Trainer Module



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During Training Session



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