

ELECTRICAL- HOME LAB

Description

Electrical- Home lab is designed to teach the theory, tools of electrical house wiring, estimating and installing of electrical wiring in a safe manner as per the Indian electricity rules.

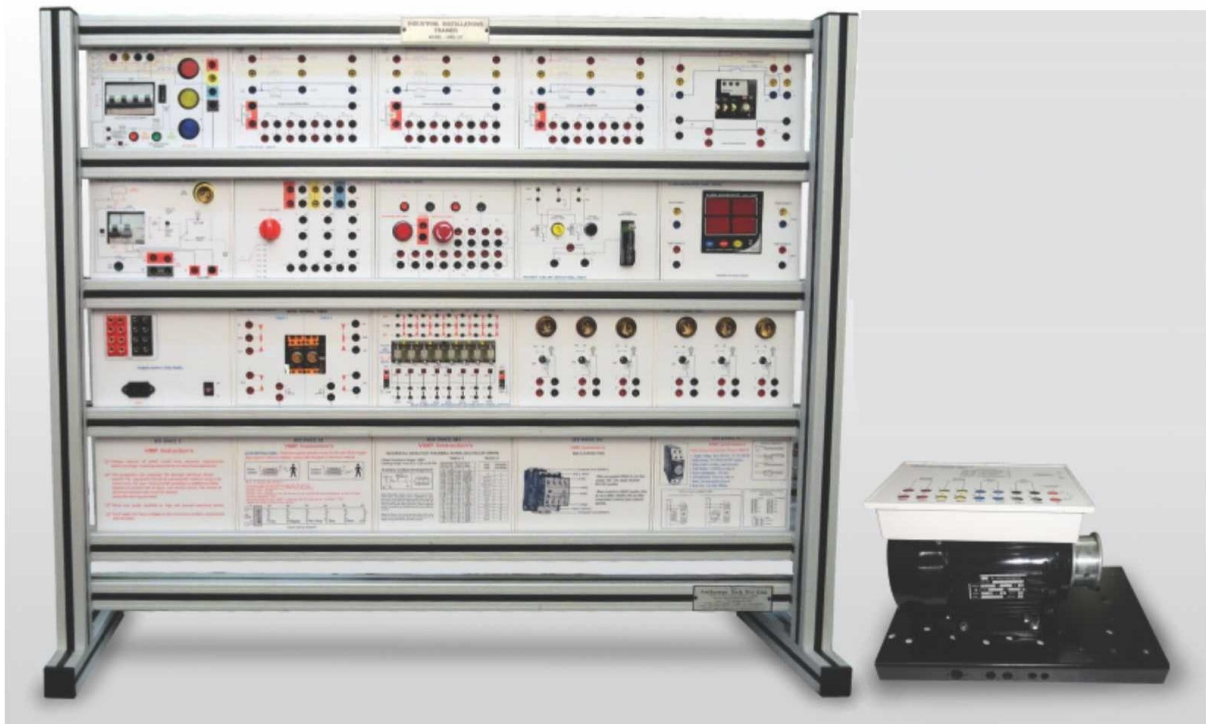


Inside view of the Electrical Home Lab

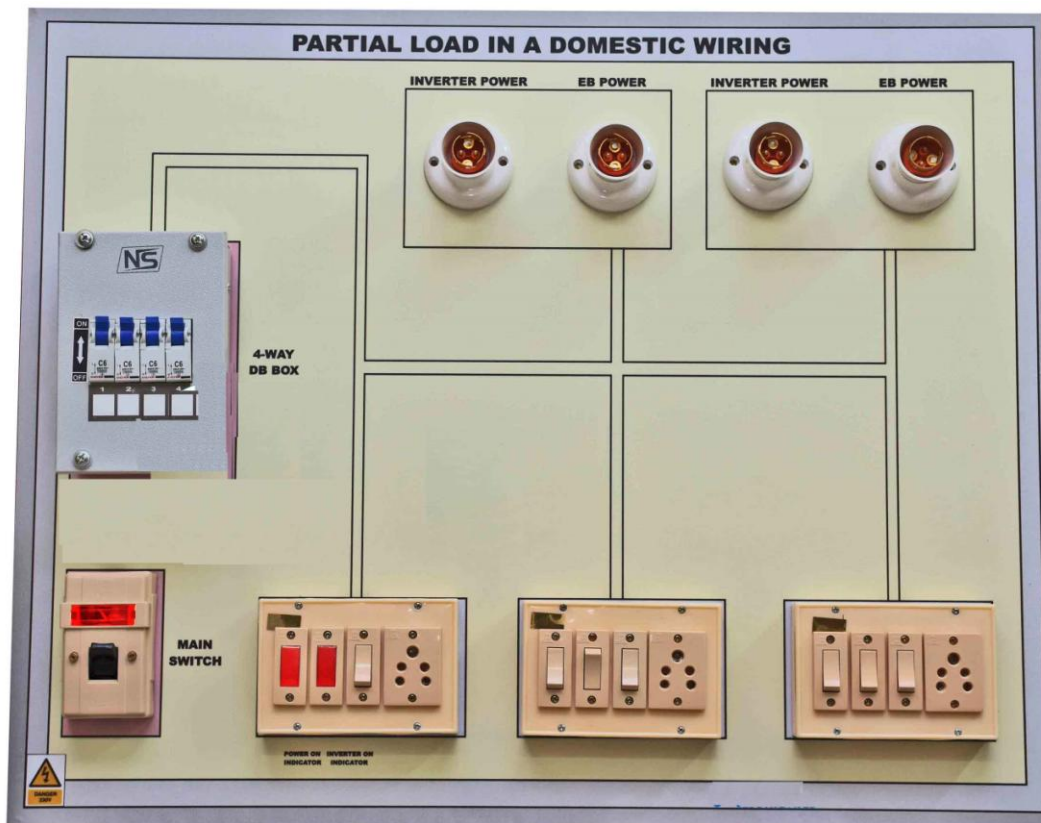
Objectives

The main objective of this lab is to teach students with the basic and advanced controlling devices, protective devices and tools necessary for wiring in respective of different applications. After completing this course, a student will be able to:

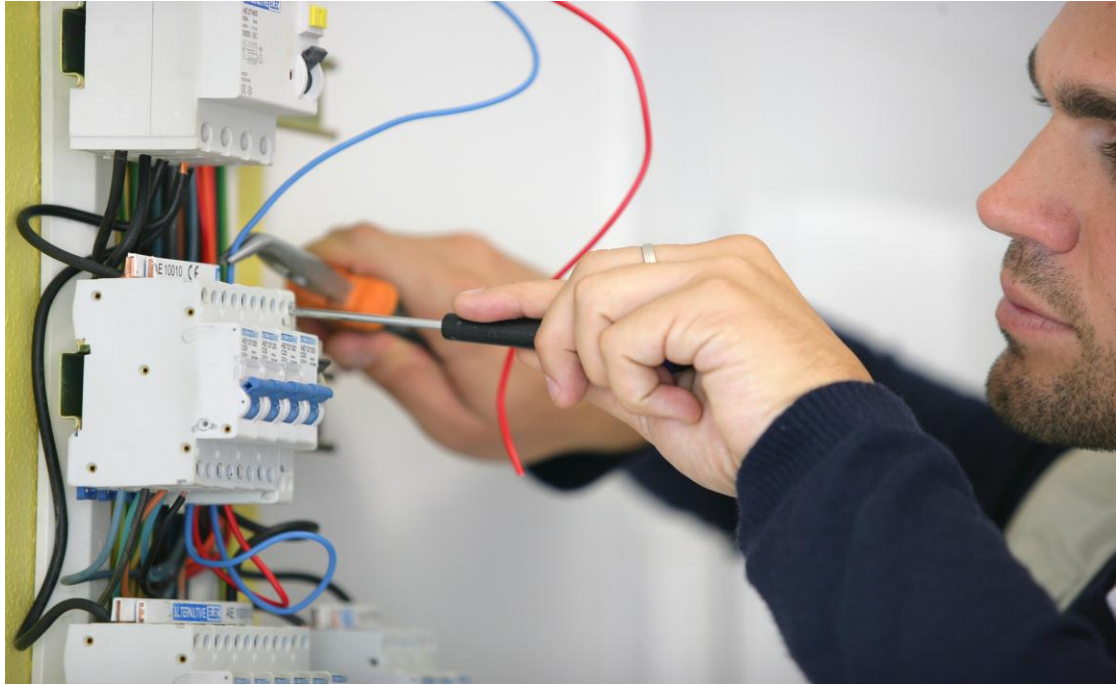
- Read blueprints or technical diagrams of electrical wiring.
- Select right and suitable components, devices for controlling and protecting the electrical items and peripherals
- Install and maintain electrical wiring circuits in a safe manner
- Inspect and make clearance for giving main supply by avoiding loose contacts in controllers, fuse and circuit breakers.
- Replace wiring, equipment and protective devices using hand tools and power tools.
- Learn and follow the Indian Electricity Rules during providing connection and in installation.



Installation Trainer Kit



Basic Electrical Home wiring



Students conducting experiments



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Key areas covered

1. Read blueprints, designing basic and completed circuits.
2. Selection and Installation procedures of wiring as per the drawing
3. Study and application of suitable protective devices for circuit protection
4. Safety precautions for avoiding accidents
5. POD software for online demonstration of electrical application through tutorials

Tools used

Electrical Workbenches

Panel Boards

Distribution board

Energy meter

Modular circuit breakers (MCB)

Switches

Cutting pliers

Stripping pliers

Crimping pliers

Tester

Screwdriver

Power drilling machine

Hammer

Wire strippers

Screw guns

Multi meter and

Lug crimper.



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