

# **First year Project**

## **Expo**

On 21.01.2023

Venue: BEE Lab, Electrical Department

In this project expo, all students have participated with high enthusiasm. The objective of the event was to encourage students to learn different skills like hard wiring, tools handling, trouble shooting of electrical wiring , team building, project planning and costing.

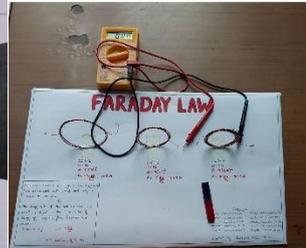
Faculty Coordinator:

Asst. Prof. Fedrik Macwan

Asst. Prof. Rachana Patel

The Petron of the events: Prof.(Dr) Ketan Badgujar, Head of the Electrical department, LDCE.

# Faraday law Project:



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- Whenever a conductor is placed in a varying magnetic field, an electromotive force is induced. Likewise, if the conductor circuit is closed, a current is induced, which is called induced current.
- When the magnetic flux or the magnetic field changes with time, the electromotive force is produced.

# MCB Project:

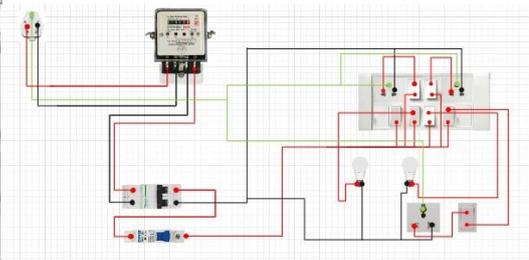
- An MCB (Miniature Circuit Breaker) is an automatically operated electrical switch. Miniature circuit breakers are intended to prevent damage to an electrical circuit as a result of excess current. They are designed to trip during an overload or short circuit to protect against electrical faults and equipment failure.

- MCB is the key component for the safety and efficient functioning of electric machines and is used in most electrical appliances that are used for industrial or domestic purposes. In domestic usage, appliances like lights, heaters, and fans require MCB to constantly check and protect the connection.



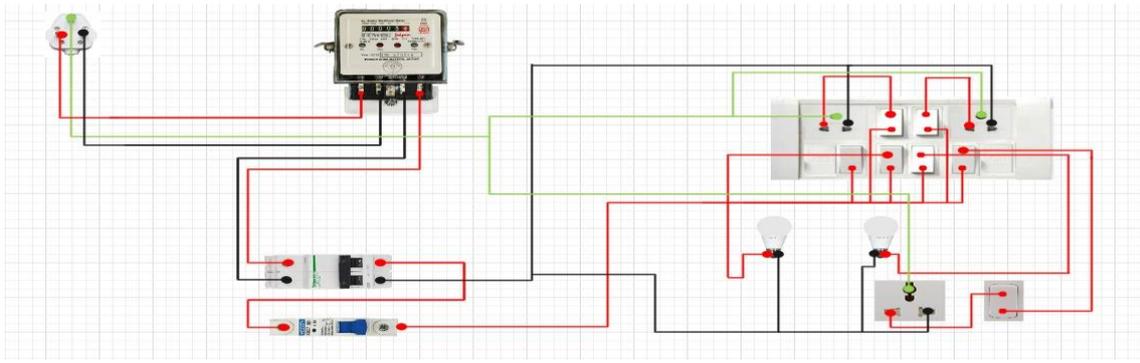


## PRACTICE KIT WITH ENERGY METER DEMONSTRATION



➤ Basically, our project is about the electrical wiring of our house and is demonstrated with the help of an energy meter.

➤ Energy meters are used in every house so as to know how much power is consumed. Connections of the wire should be tight because we are working with AC voltage and loose connection may lead to unwanted



# Earthing demonstration with poster Project:





- Earthing is the safe and the best method of offering safety. Metal can be used in electrical installations without looking for its conductivity, proper earthing ensures that metal does not transfer current.
- A sudden surge in voltage or overload does not harm the device and person if proper earthing measures are done.
- It prevents the risk of fire hazards that could otherwise be caused by the current leakage.

## **Extension board and different wiring demonstration kit:**

- Extension boards are multiple electrical sockets in a shockproof box. They extend the reach of electrical wall sockets by means of a flexible power cable.





