



GOVERNMENT ENGINEERING COLLEGE, SECTOR-28 GANDHINAGAR

Expert Lecture organized by Electrical Engineering Department on “Electrical Safety Awareness”

Name of Department/Organizer	:	Electrical Engineering Department.
Date & Time	:	20/04/2024 at 11:30 PM
No of Participants	:	54

The online expert lecture is organized for first year Electrical Engineering students for aware about Electrical Safety.

Objective and Outcome of this Expert Lecture is as follows.

- **Objective of the Expert Lecture :**
 - Raise awareness of potential electrical hazards.
 - How to recognize electrical hazards.
 - Provide ways to eliminate, remove, and prevent electrical hazards.
 - Emphasizing the extreme importance of observing all electrical safety requirements and practices.
 - What to do in the event of an electrical accident.
- **The Outcome of the Expert Lecture :**
 - Students will be able to explain the principles of electricity, and safety aspects during handling electric equipment.
 - Students can demonstrate their knowledge of hazards, injuries, and controls associated with electricity.
 - Selection and suitability of electrical equipment and protective systems.
 - Inspection and maintenance requirements for the safe execution of electrical work/use of electrical equipment.

Glimpse of Expert Lecture on “Electrical Safety Awareness”:

Electrical Safety Awareness

By
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PREVENTING ELECTRICAL ACCIDENTS

Protection from electrical hazards is one way to prevent accidents. Methods of control are:

- Insulation
- Electrical protective devices
- Guarding
- Grounding
- PPE

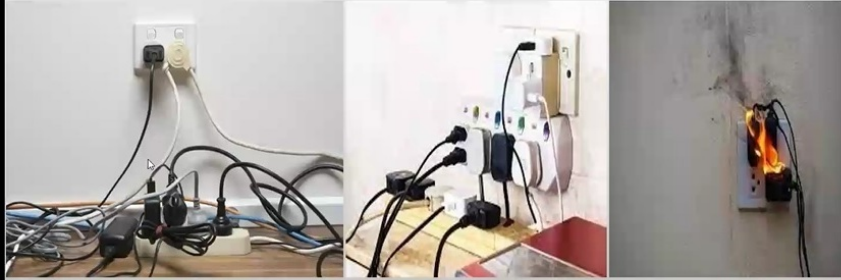
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Electrical Safety Awareness

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Overloaded Circuits

- Circuits can only cope with a limited amount of electricity. Overload happens when you draw more electricity than a circuit can safely handle – by having too many things running on one circuit.



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Niravk... Maulik Pandya (...)
Priyan... Keval...
AN P2
Abhay... Palak 2...
M 83
Mahet... Participants



Electrical Safety Awareness

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MP AN P2 M 2 Participants

Maulik Pandya (...)
Abhay ...
Palak 2...
Mahet...
22013...
Participants

Summary

- Electricity will try to reach ground even if it means going through a person
- **Earthing has an important role in ES**
- Always inspect power tools and cords and do not use them if damaged
- **Do not attempt to repair electrical equipment unless trained and qualified**
- Understand effects of Lightning- it could save your life!
- **Major fires, explosions occurred due to ESD , lightning in flammable atmospheres**

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