

COGNIZANCE 2K24

CSPIT EE

Title: CABLE and WIRE Testing Workshop

Event Coordinators:

Faculty Coordinators

1. Dr. Mihir Bhatt - 9913277673

Student Coordinators

1. Preksh Soni (Student Id: 22EE003, 7874403801)

Keynote Speaker:

Dr. Mihir Bhatt, EE Department, Cables & Wire Testing Lab, CSPIT

Target Audience: (Max 25 Participants)

Students from Electrical & Mechanical Engineering disciplines

Event Description:

Workshop Overview:

Electric cables play an important role when it comes to lightening or powering the world with electricity. The major factor that should decide the choice of cables is “Safety”. This one-day workshop enables the students to understand the variety of tests conducted on cable to ensure the safety aspects.

Workshop Topics:

- Introduction to an Importance of Cable Testing:
 1. Overview
 2. Different tests conducted as per the Indian Standards on cables to ensure the safety

The following tests will be discussed during this workshop.

- Preparation of test samples using Two-roll mill machine and dumbbell press machine
- Volume resistivity test (on both PVC sheet and Cable)
- Specific gravity test
- Thermal Stability test
- Conductor resistance test
- Oxygen Index Test/Smoke density test

Workshop Format:

- Lecture and Presentation: Experts in the field will deliver presentation on the importance of testing the insulation of cable.
- Hands-on Sessions: Participants engage in practical exercises to work with the test equipments available in cable testing laboratory.
- Q&A Sessions: Opportunities for participants to ask questions and discuss specific concerns with the instructor.

Workshop Outcome:

By the end of the workshop, the participants should have a solid understanding of various tests conducted on cable insulation to ensure the safety.