#### CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY

# Department of Electrical Engineering A REPORT

#### ON

## A one-day Practical Workshop on "High Voltage Electrical Compliance and Safety Measures"

Title of the Expert Talk	High Voltage Electrical Compliance and Safety Measures
Organizing Department	Department of Electrical Engineering
Coordinators	Mr. Ranjit Rajak
Target Audience	Diploma Electrical Engineering (Girls Polytechnic)
Total Number of Participants	09
Date of Programme	9 <sup>th</sup> February, 2024
Expert	Mr. Snehal S Patel Department of Electrical Engineering, CGPIT, Uka Tarasadia University, Bardoli.

### **Schedule of Expert Talk**

Expert talk on ", **High Voltage Electrical Compliance and Safety Measures**" is schedule on 9<sup>th</sup> February, 2024, at C-009 from 9:00 A.M. to 3:00 P.M.

#### **Details of the Expert talk:**

In this session, Mr. Snehal S Patel has been discussed regarding what is importance of High Voltage in Electrical engineering. He has covered the following topics:

- **1.Layout of High Voltage Lab:** Understand the arrangement of equipment and safety measures.
- **2. Earth Resistance Measurement:** Measure the earth resistance of the high voltage lab and high-tension supply pole.
- **3.Breakdown of Air:** Study air breakdown using a 80 kV AC- DC test set with different electrode configurations (sphere-sphere gap, sphere-plane gap, and point-plane gap).
- **4. Testing of Liquid:** Determines the breakdown voltage of the liquid.
- **5. Testing of Solid:** Dielectric strength refers to the maximum electric field a material can withstand without breaking down.
- 6. Measurement of Breakdown Compliance in Electrical Equipment
- 7. Impulse Generator (0-150 kV)

## **Glimpse of the Expert Talk:**

### **During the talk**











The session was concluded with validatory function including students counselling for admission in D to D followed by the Group Photographs:





Group Photo at Chhotubhai Gopalbhai Patel Institute of technology