

### Department of Electrical Engineering

#### Activity: "Innovative Teaching Learning Pedagogy"

Date & Day: 4th February 2025, Tuesday

Activity Name: *Peer Learning Group Activity on "Vector Groups of Three-Phase Transformers"*

Subject: EM - I

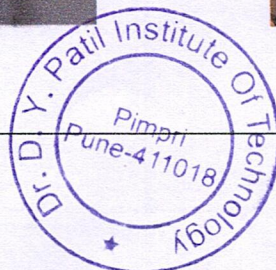
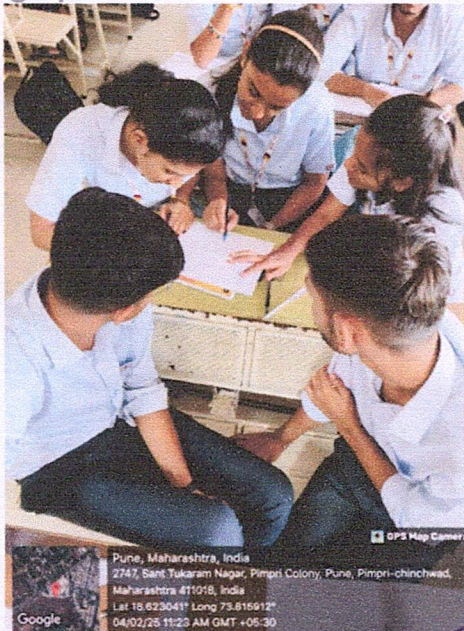
Venue: Electrical Classroom

Activity conducted by: Dr. Haripriya Kulkarni

#### Objectives:

The primary objective of this session was to enhance students' understanding of **vector groups in three-phase transformers** through an **interactive and participative learning** approach. Instead of traditional lecture-based teaching, a **collaborative learning** methodology was adopted to encourage discussion, teamwork, and peer learning.

#### Photographs:









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**Outcome:**

- **Collaborative & Peer Learning** – Encouraged teamwork, critical thinking, and problem-solving skills.
- **Active Participation & Engagement** – Increased involvement and interest in the topic through **discussion-based learning**.

**Mapping of Pedagogy with POs and PSOs:**

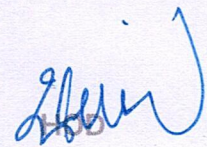
| PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 2   | 2   |     |     |     |     |     |     | 2   | 2    |      |      |      |      |      |

**Mapping of POs and PSOs with Justification:**

| POs and PSOs Mapped           | Justification   |
|-------------------------------|---|
| PO1: Engineering Knowledge    | Students applied fundamental concepts of vector groups in three-phase transformers, understanding their role in phase shifting, load balancing, and system compatibility. |
| PO2: Problem Analysis         | The activity required students to analyze different vector group configurations, identifying their applications in power systems.   |
| PO9: Individual and Team Work | The peer learning approach encouraged students to collaborate, discuss, and clarify doubts, fostering teamwork and cooperative learning.                                  |
| PO10: Communication           | Students presented and explained vector group concepts, enhancing their technical communication and presentation skills.  |

  
Course Coordinator

  
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