

Department of Electrical Engineering

Activity: "Innovative Teaching Learning Pedagogy"

Date & Day: 03-02-2025

Activity Name: Game-Based Learning Activity - "Speed-Torque Matching Relay Race"

Subject : Advanced Electrical Drives and Control

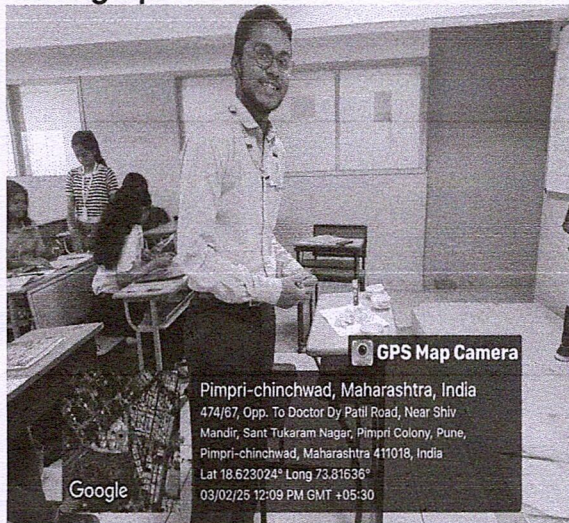
Venue: B-BS01

Activity conducted by: Dr.Manasi P.Deore

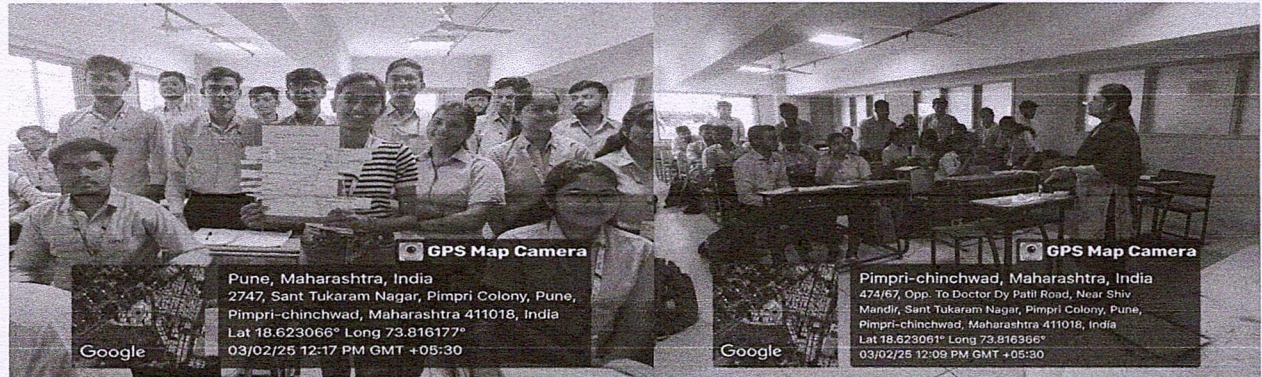
Objectives:

The primary objective of the Speed-Torque Matching Relay Race was to enhance students' understanding of the relationship between speed and torque in electrical drives through an interactive and engaging game-based approach. The activity aimed to foster collaborative learning, quick decision-making, and conceptual clarity in an enjoyable manner.\

Photographs:



Department of Electrical Engineering

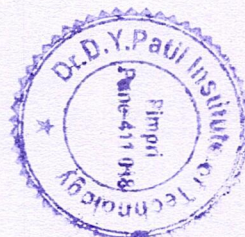


Outcome:

- The activity successfully encouraged **active participation** and **team collaboration** among students.
- Students demonstrated improved **conceptual clarity** regarding **speed-torque characteristics** in electrical drives.
- The quiz helped reinforce key learning points and identify areas requiring further explanation.

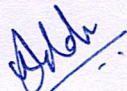
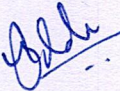
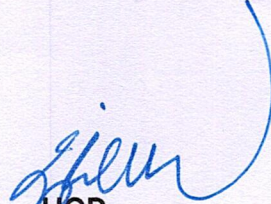
Mapping of Pedagogy with POs and PSOs :

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
✓	✓							✓	✓			✓	✓	✓



Mapping of POs and PSOs with Justification:

POs and PSOs Mapped	Justification
PO1	Students applied fundamental electrical engineering knowledge to match speed-torque characteristics.
PO2	The activity involved problem identification and analytical thinking to select appropriate matches.
PO9	The team-based relay promoted collaboration and effective role distribution among students.
PO10	Students communicated their logic and decisions efficiently during the interactive relay format.
PSO1	Students used technical reasoning to understand and analyze motor performance under varied conditions.
PSO2	The activity encouraged innovative matching strategies that reflect design thinking in control systems.
PSO3	The integration of control theory with game mechanics demonstrates multidisciplinary application.


Course Coordinator
DAC
HOD