ROEVER ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
(Inclusion under Sections 2(f) AND 12(B) of the UGC Act, 1956)
(Accredited with 'B++' Grade by NAAC 2nd Cycle)
ELAMBALUR, PERAMBALUR – 621 220

Academic Year 2024-25

Batch2022-26

ACTIVITY BASED LEARNING

Name of the Course/Code: EE3009-Special Electrical Machines

Year/Sem : III/V

Department : Electrical and Electronics Engineering

Name of the Faculty : N.JEEVITHA

Unit / topc : Unit -III/ Fundamentals of Permanent Magnets, Types& Principle of operation

Name of the activity : Think-pair-share

Date : 11.3.2025

No of students in the class : 56

No of students participated : 30

Introduction:

A Think-Pair Share activity can create a more interactive and supportive learning environment that helps students better understand and apply the concept of "Fundamentals of Permanent Magnets, Types& Principle of operation" the type of motor that features two sets of rotor windings, or "cages," which are designed to improve performance characteristics, especially under varying load conditions This activity helps the students to tackle these problems collaboratively, leading to more effective problem-solving strategies and solutions.

Details of the Implementation:

- Time Allotted for the Activity: 10 Minutes
- **Think:** In the first three minutes, students are given a question, problem, or topic to think

about individually. This allows each student to process the information independently.

- **Pair& Share:** Students are paired up with a partner. They then discuss the concept of Fundamentals of Permanent Magnets, Types & Principle of operation. This allows students to learn from one another. Finally, pairs or groups are invited to share their conclusions, insights, or solutions with the whole class. It also provides the teacher with an opportunity to assess student understanding and address any misconceptions.

Activity Highlights:

- After conducting this activity ,the students will be able to explain the concept of Fundamentals of Permanent Magnets, Types & Principle of operation.
- The Success of the activity was evaluated by asking the same question in the Internal Assessments test-II –Around 80% of students answered well.

Images/Screenshot of the practice:

Reflective Critique:

Time Management: Think-pair share can be time-consuming, especially in larger classes where it takes longer for students to pair up and share their ideas with the group. This can reduce the time available for other instructional activities.

Feedback and Improvement:

- In some instances, students may have felt rushed during the sharing phase, limiting the depth of discussion. Providing adequate time for each stage of the activity is crucial for meaningful engagement.
- Providing adequate time for discussion and set the clear objectives during the discussion to reduce the time.

MAPPING OF COURSE OUTCOME AND PROGRAM OUTCOME														
CO.No	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
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Conclusion:

This activity learning session on "Fundamentals of Permanent Magnets, Types& Principle of operation " proved to be a resounding success. Student felt that the think pair share activity was largely positive, highlighting its effectiveness in promoting critical thinking, communication skills, and engagement. Students found the activity to be challenging yet rewarding, providing them with an opportunity to develop essential skills for academic success.

Faculty –In charge **HoD/EEE**