



RAMGO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
NAAC Accredited with 'A+' Grade & An ISO 9001: 2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Academic Year 2025 – 2026 (Even Semester)

Degree, Semester & Branch: II Semester B. Tech. AI&DS - 'A' & 'B'

Course Code & Title: CS25C06 & Digital Principles and Computer Organization

Name of the Faculty member (s): Mrs. M. Santhikala

Unit / Topic: Module 2 / Preparations of report on comparison of two CPU from different manufacturing

Course Outcome: CO2

Activity Chosen: Flipped Classroom

Justification:

A flipped classroom is a pedagogical model that reverses traditional instruction by delivering educational content, such as pre-recorded lectures, outside the classroom. A flipped classroom is a pedagogical model that reverses traditional instruction by delivering educational content, such as pre-recorded lectures, outside the classroom.

Time allotted for this activity: 45 Minutes

Objectives:

- To help students understand concepts clearly through self-learning before class.
- To use classroom time for active learning, discussions, and hands-on practice.
- To improve conceptual understanding of the topic.
- To promote critical thinking and problem-solving skills.
- To encourage student participation, collaboration, and interaction.

Implementation:

1. Plan:

- Students were divided into 5 groups and explain the about the activity. Select two students from each group and assigned to prepare for presentation.
- Course instructor sent the video link to the students.
<https://www.youtube.com/watch?v=QcxNdXnahOM>
<https://www.youtube.com/watch?v=TFvmsxlrrGA>
- Students were asked to watch study the video, and prepare the report on comparison of two CPU from different manufacturing.

2. In-Class Activities:

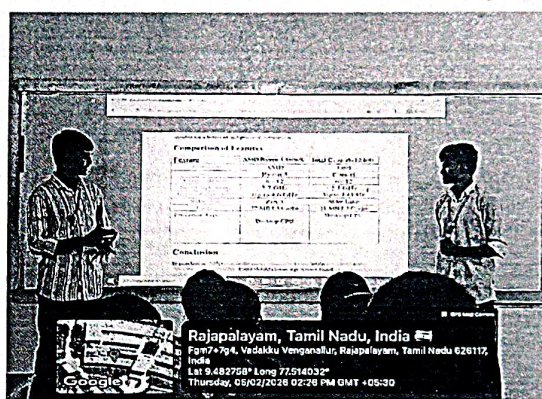
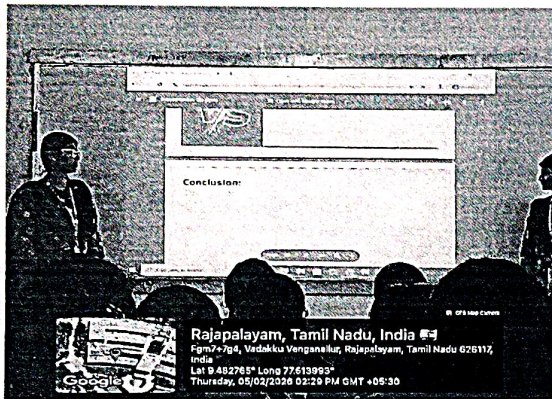
- The assigned students come with the report prepared by their team. And present the points on the comparison of Intel and AMD processors.
- They discussed about the features of these two processors and explained the overall benefits of the two processors.

CO/ PO and PSO mapping:

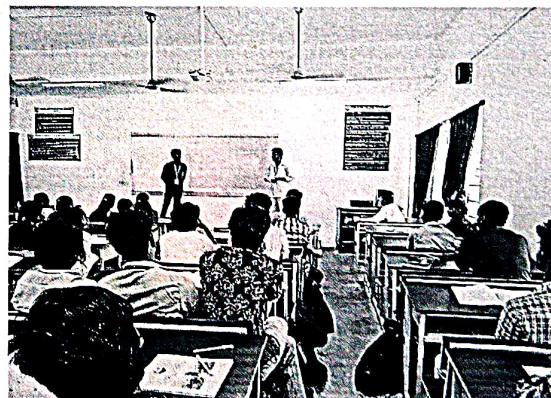
S No	Topic	PO1	PO2	PO8	PSO1	PSO2
1	Preparations of report on comparison of two CPU from different manufacturing	2	2	3	3	3

Glimpses of Activity:

A section:



B Section:



- **Feedback of practice from students and other stakeholders:**
 - Comparing CPUs from different manufacturers helped students understand real-world applications and differences in performance.
 - Many students felt more confident discussing technical topics during group activities.
 - The activity improved teamwork, communication skills, and independent learning.
 - Some students suggested providing more example videos or sample reports for better understanding

- ***Benefit of the practice:***
 - Students learn basic concepts before class, which helps them understand the topic better during discussions.
 - Improves analytical thinking by comparing CPUs from different manufacturers.
 - Enhances teamwork and collaboration through group activities.
 - Increases student participation and confidence in presentations.
- ***Challenges faced in implementation:***
 - Beginners found technical CPU concepts slightly difficult to understand initially.
 - Limited access to internet or devices for some students.
 - Time management issues during group discussion and presentations.
 - Difficulty in comparing technical specifications between different manufacturers.
 - Students required guidance in preparing structured reports.

References:

1. <https://bokcenter.harvard.edu/flipped- classrooms/>
2. https://en.wikipedia.org/wiki/Flipped_classroom
3. <https://omerad.msu.edu/teaching/teaching-skills-strategies/27-teaching/162-what-why-and-how-to- implement-a-flipped-classroom-mode>



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Academic Year 2025 – 2026 (Even Semester)

FEEDBACK Active Learning Best practices: Flipped Class Room

Degree, Semester & Branch : B.Tech, V & AI / DS

Course Code & Title : CS25C06 & Digital Principles and Computer Organization

Name of the Faculty member : Mrs. M. Santhikala, AP/AD

Theme of discussion : Preparations of report on comparison of two CPU from different manufacturing

Date and Time : 05.02.2026 & 01.55 am to 02.40 am. (A Section)
06.02.2026 & 09.45 am to 10.30 am. (B Section)

Feedback collected in class and also through online

Feedback Link: <https://forms.gle/v9EJXsEDDGKPA4Ki6>

FEEDBACK QUESTIONS:

1. The flipped classroom method helped me understand the topic better

Yes

No

2. The activity improved my analytical thinking skills

Yes

No

3. Comparing CPUs from different manufacturers improved my practical knowledge

Yes

No

4. Which part of the activity helped you the most?

Pre-class videos

Group discussion

Report preparation

Presentation

5. The activity was engaging and interesting

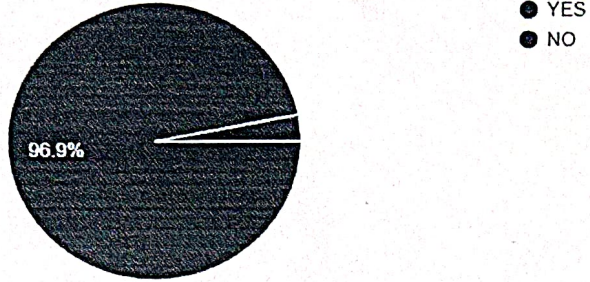
Yes

No

Feedback analysis:

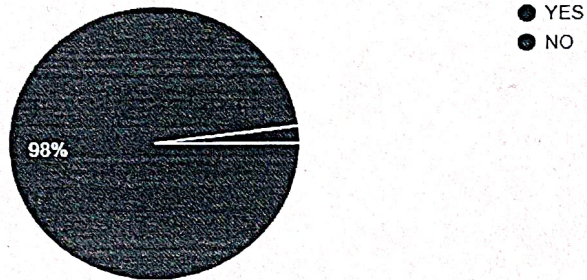
1. The flipped classroom method helped me understand the topic better

98 responses



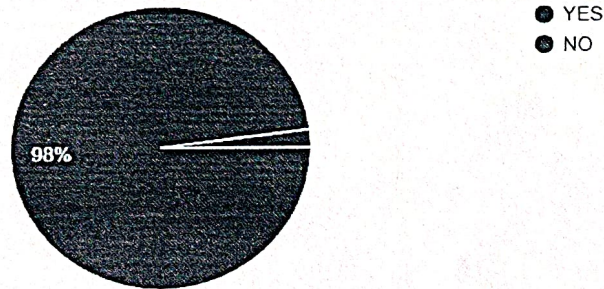
2. The activity improved my analytical thinking skills

98 responses



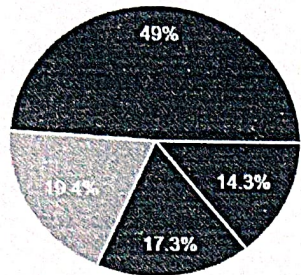
3. Comparing CPUs from different manufacturers improved my practical knowledge

98 responses



4. Which part of the activity helped you the most?

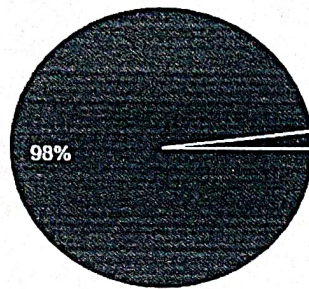
98 responses



- Pre-class videos
- Group discussion
- Report preparation
- Presentation

5. The activity was engaging and interesting

98 responses



- YES
- No

[Signature]
Faculty in-charge

[Signature]
HOD/AD