



RAMCO INSTITUTE OF TECHNOLOGY RAJAPALAYAM

Department of Artificial Intelligence and Data Science

Academic Year: 2022- 2023 (Even Semester)

Active Learning Best practices: Map with Flip - Cooperative Learning Technique

Degree, Semester & Branch: II Sem. B.Tech. Artificial Intelligence and Data Science

Course Code & Title: - AD3251 & Data Structures Design

Name of the Faculty member: Mrs.C.Karpagavalli , AP/AI & DS

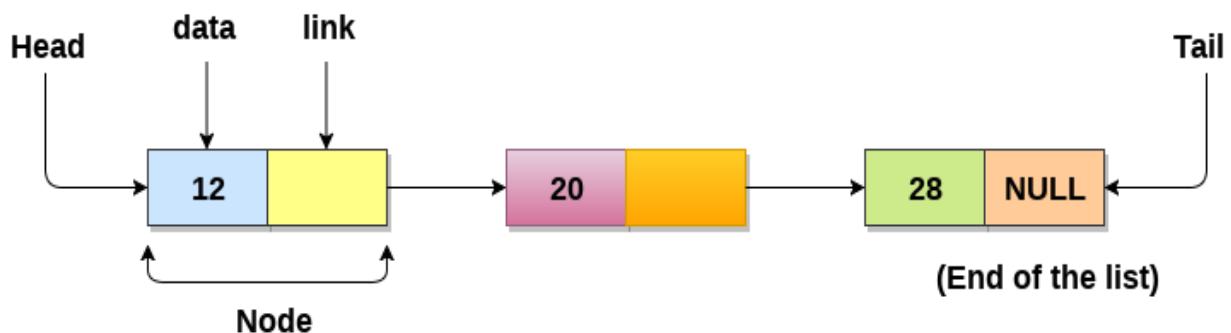
Theme of discussion: Linked List – Singly Linked List, Doubly Linked List
& Circular Linked List

Topics Covered: Unit- II

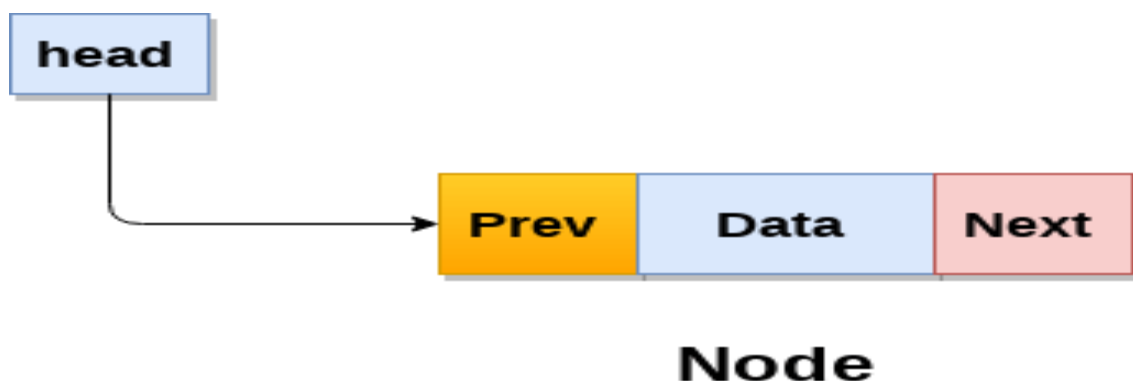
Date and Time: 02.06.2023 & 09.00 A.M to 09.50 A.M

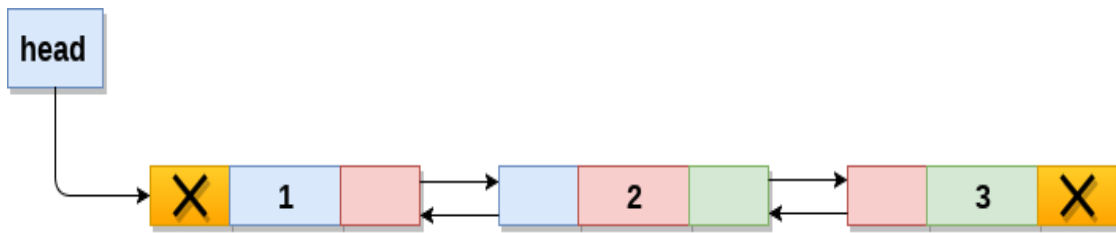
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Singly Linked List:



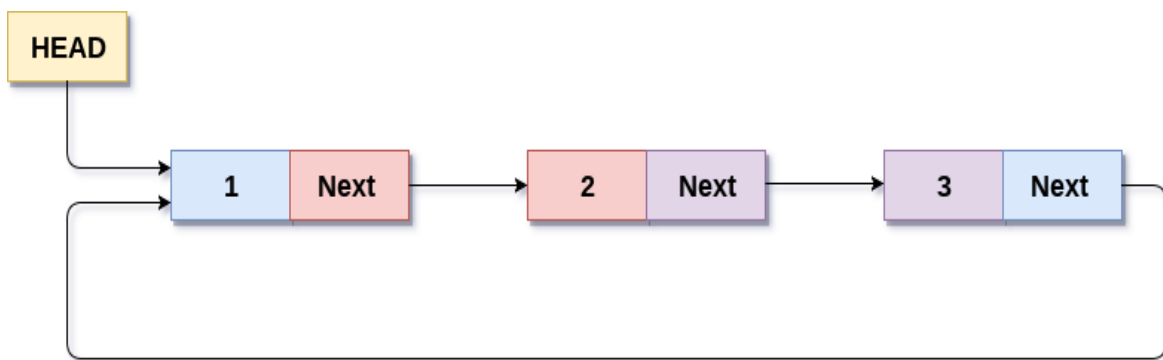
Doubly Linked List:



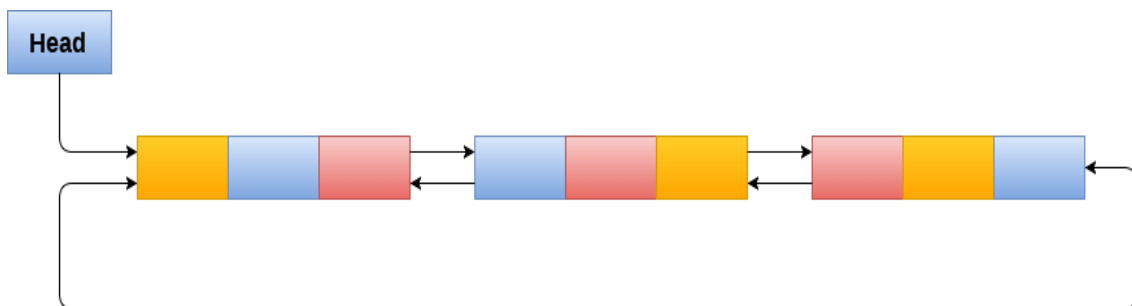


Doubly Linked List

Circular Linked List:



Circular Singly Linked List



Circular Doubly Linked List

Learning Outcomes

- Critical Thinking: Students will enhance their critical thinking skills by analyzing and interpreting information presented on the map, identifying patterns, and making connections between different elements.
- Through the use of this "Map with Flip," students will engage in problem-solving activities that require them to find solutions, make decisions, and apply their knowledge to overcome challenges.

Procedure:

Step 1: Introduction (5 minutes):

- Start the session by introducing the concept of mapping and its importance.
- Explain the objectives of the activity and the skills students will develop through the process.

Step 2:Map Exploration (15 minutes):

- Instruct students to spend a few minutes examining the map individually, taking note of key features, symbols, and any patterns they observe.

Step 3:Map Flipping (15 minutes):

- Instruct students to flip their maps to the other side, revealing additional information, a different perspective, or an alternative representation.
- Encourage students to explore the flipped side and compare it to their initial observations, noting any differences, surprises, or new insights.

Step 4:Group Discussion (10 minutes):

- Divide students into small groups and facilitate a discussion about the Topic.
- Encourage students to share their observations, interpretations, and thoughts about the flipped side.
- Prompt discussion questions to foster critical thinking and deeper analysis of the map's content.

Step 5:Conclusion and Reflection (5 minutes):

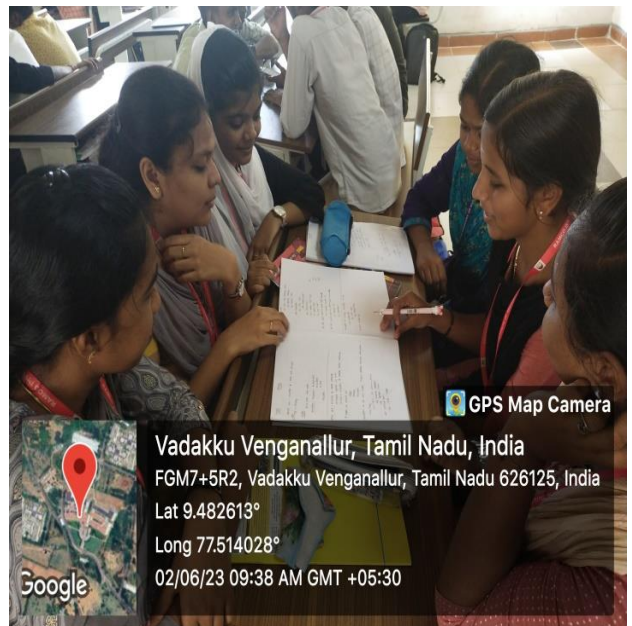
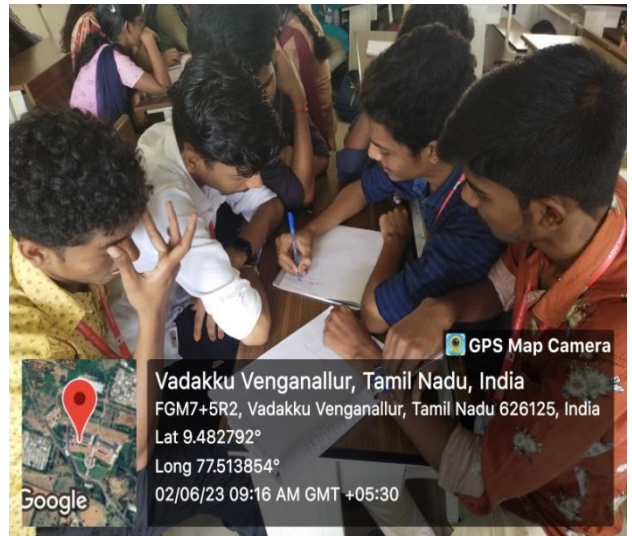
- Bring the whole class back together and summarize the key findings or insights from the group discussions.
- Ask students to reflect on how the activity challenged their initial assumptions or expanded their understanding.

Step 6:Wrap-Up and Closing (5 minutes):

- Conclude the activity by summarizing the importance of mapping and the benefits gained from the "Map with Flip" activity.
- Provide a brief opportunity for students to ask questions or share final thoughts.

At the end of the session, student from each group shared the knowledge what they learnt.

Glimpses:



Reflective Report

Challenges and strategies:

- One of the main challenges of implementing the "Map with Flip" activity is the limited time available within a class period. Completing the activity within the allotted time can be a challenge
- To overcome time limitations, identify the key concepts, features, or areas of the map that are most relevant to the learning objectives. Focus on these areas during the activity to ensure students gain a solid understanding of the core content.

Observations:

Using Map with Flip is one of the most common study methods, and it is the one many students are most familiar. Map with Flip help students to engage in active recall or a process wherein students actively engage in learning by stimulating our memories and creating lasting connections to the material. Map with Flip are a very useful revision activity for many reasons. They work across all subjects, they can be used with the recall of facts, topics, keywords and more. They are a very simple technique for learners to use – low effort but high impact.

Students Response:

- Bright students were actively participated to prepare the topic wise questions and concept notes.
- Slow learners expect to assist the topic towards searching online and also understanding the questions
- Most of the students were enjoyed the session.

Students response ensures the students could improve listening, communication, creativity and problem-solving skills.



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FEEDBACK

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Google form Link : <https://forms.gle/AuEVoBdCrZD8daR49>

Feedback Questions:

1. Did the plan align with your expectations?
Yes No
2. How effectively was the innovative practice plan implemented?
Excellent Good Satisfactory
3. How well did you understand the objectives and purpose of the innovative practice plan?
1 2 3 4 5
4. Were the necessary resources and support provided for successful implementation?
Yes No
5. Did you notice any specific benefits or changes resulting from the plan?
Yes No
6. Were there any unintended consequences or negative impacts?
Yes No

7. How engaged were you throughout the practice plan?

1 2 3 4 5

8. Did the plan provide opportunities for active participation and collaboration?

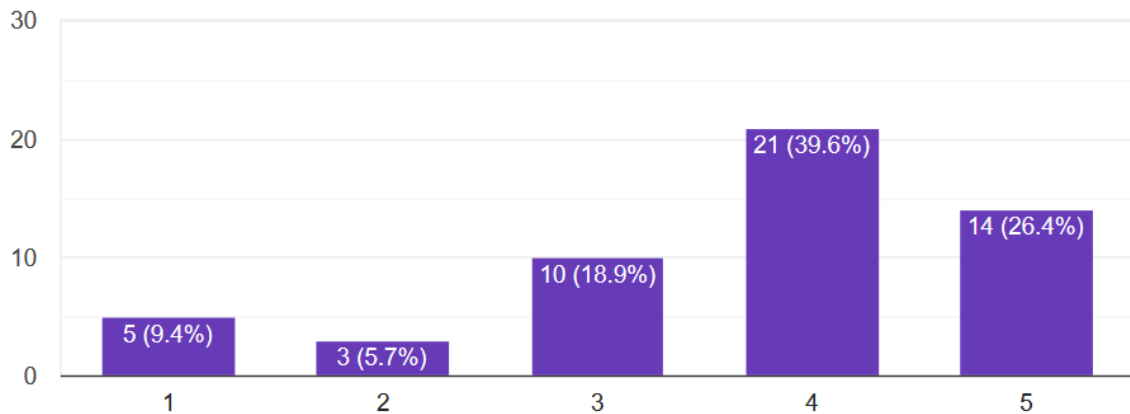
Yes No

Feedback Analysis:

How well did you understand the objectives and purpose of the innovative practice plan?

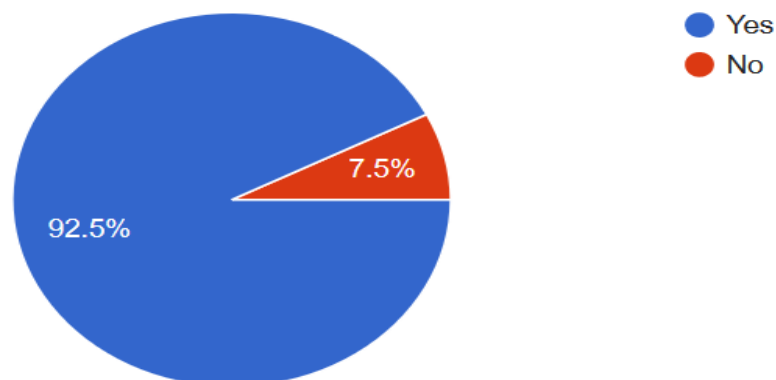
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53 responses



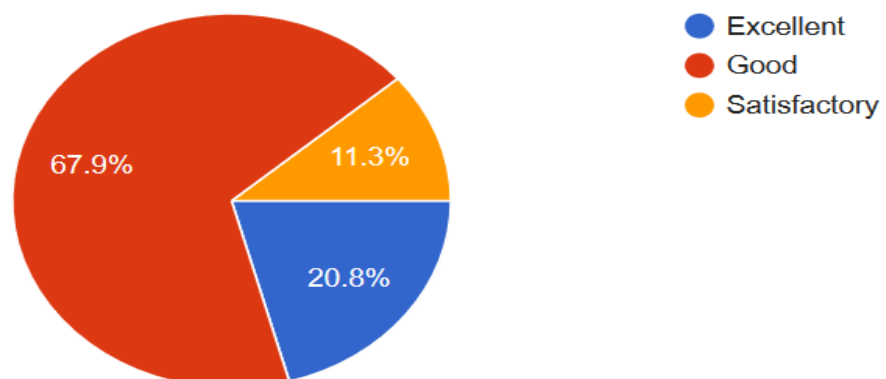
Did the plan align with your expectations?

53 responses



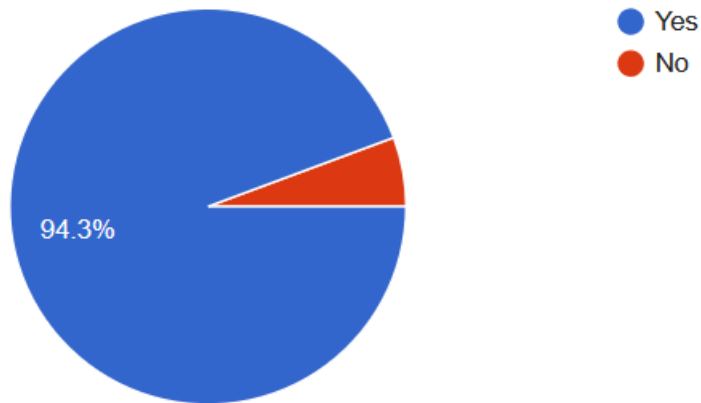
How effectively was the innovative practice plan implemented?

53 responses



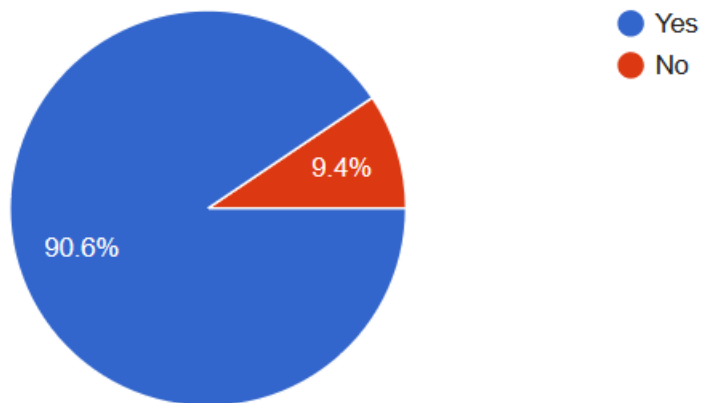
Were the necessary resources and support provided for successful implementation?

53 responses



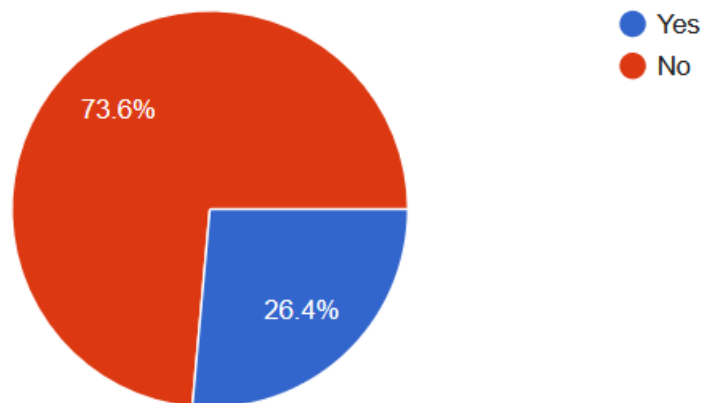
Did you notice any specific benefits or changes resulting from the plan?

53 responses



Were there any unintended consequences or negative impacts?

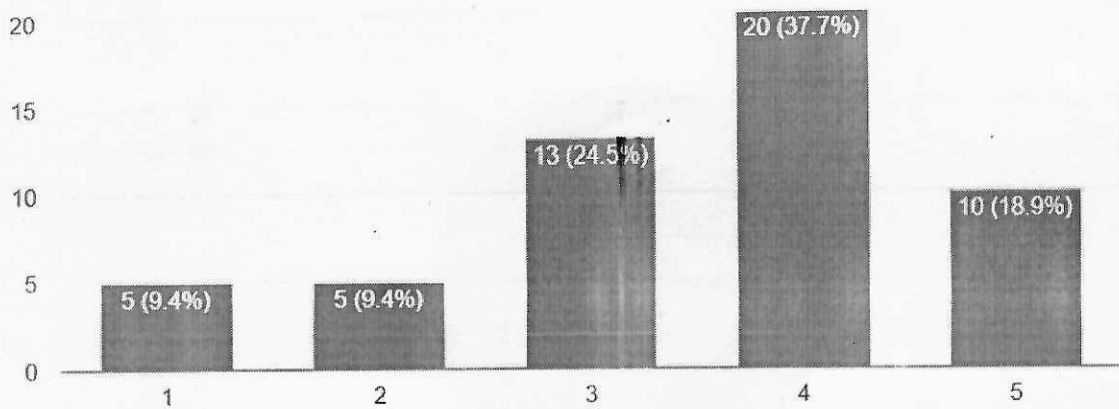
53 responses



How engaged were you throughout the practice plan?

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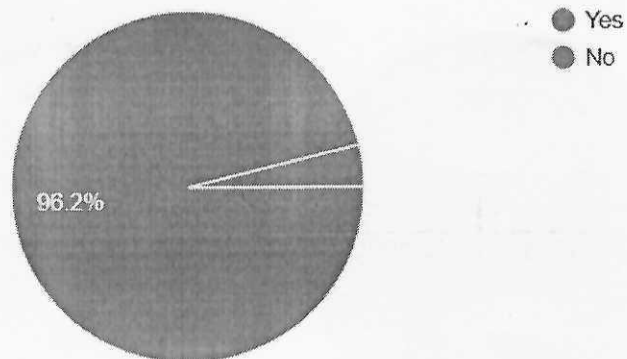
53 responses




Did the plan provide opportunities for active participation and collaboration?

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53 responses




Faculty In-charge


HoD/AD