



# RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University

Accredited by NAAC & An ISO 9001: 2015 Certified Institution

NBA Accredited UG Programs: CSE, EEE, ECE and MECH

## Department of Artificial Intelligence and Data Science

Academic Year: 2023- 2024 (Odd Semester)

**Degree, Semester & Branch** : B.Tech,III & AI & DS  
**Course Code & Title** : AL3391& Artificial Intelligence  
**Name of the Faculty member** : Mrs. C.Usharani, AP/AD

### Active learning practices: JIGSAW Cooperative Learning Technique

**Theme of Discussion:** Uninformed Search Strategies

**Date & Time:** 30.10.2023 & 04.00 pm to 4.45 pm.

#### ➤ **Justification:**

The uninformed searching methods does not have any additional information about the states except the information provided in the problem definition.They can only generate the successors and distinguish a goal state from a non-goal state. This type of search does not maintain any internal state, that's why it is also known as Blind search. The prime objective of Jigsaw is to encourage both self- and peer teaching, which requires students to understand the concept very clearly and engage in discussion and learning.

#### ➤ **Time Allotted for the Activity:** 45 Minutes

#### ➤ **Details of the Implementation:**

The students are given a group activity to discuss about the types of uninformed search strategies. The students are made to work into groups to discuss and clearly understand the searching algorithm.

#### ➤ **Learning Outcomes:**

The students are able to find the order of exploration in given graph.  
To improve listening, communication, and presentation skills

#### ➤ **Procedure:**

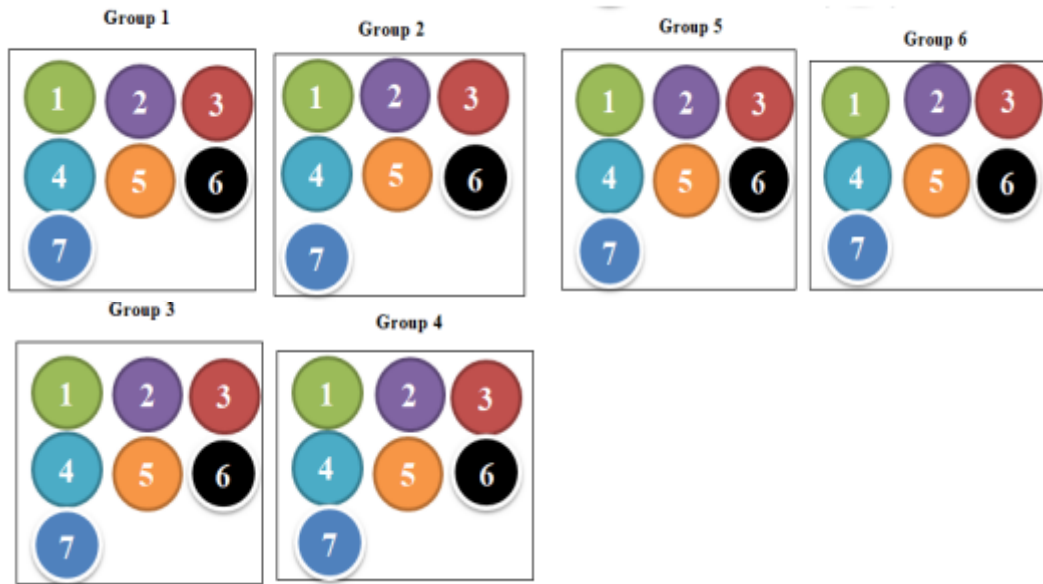
Step 1 (2 minutes)

- Students were divided into 6 groups with 7 members in each group based on the student's academic performance

Step 2 (2 minutes)

- Appoint one student from each group as the **leader**.
- Each student in a group is given a number from 1 to 6.

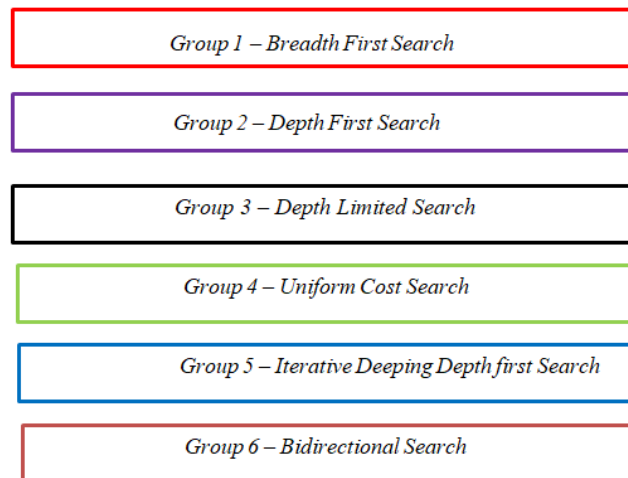
## Jigsaw Groups



Step 3 (3 minutes)

- Divide students into 7-person Jigsaw groups as an expert group
- Divide the topic into 6 segments and assign it to each Expert Group.

The topics are given below:

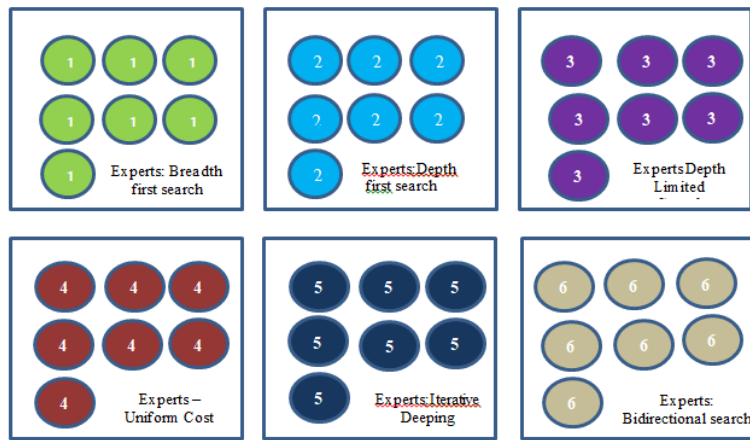


Step 4 (15 minutes)

- Assign each student to learn one segment and time is allotted for discussion
- Give students time to read over their segment at least twice and become familiar with it.

Step 5 (2 minutes)

- Form temporary “expert groups” by having one student from each jigsaw group join other students assigned to the same segment.



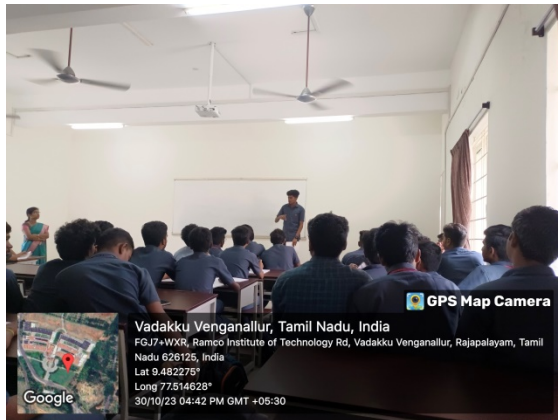
Step 6 (15 minutes)

- Bring the students back into their jigsaw groups.
- Ask each student to explain her or his segment to the other team members in the group.
- Encourage others in the group to ask questions for clarification.

Step 7 (6 minutes)

- At the end of the session, give a quiz on the algorithm.

*Images / Screenshot of the practice:*





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## **FEEDBACK Active Learning Best practices: JIGSAW Cooperative Learning Technique**

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Theme of discussion : Uninformed Search Strategies  
Date and Time : 30.10.2023 & 04.00 pm to 4.45 pm.  
Feedback collected in class and also through online

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### **FEEDBACK QUESTIONS**

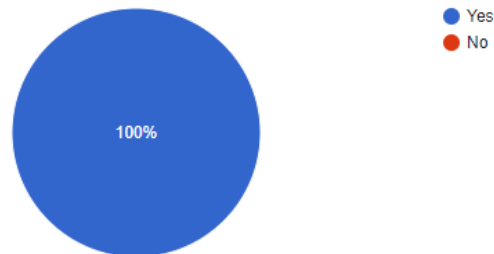
1. Does it encourage cooperative Learning Practices among yourself?  
**Yes / No**
2. Connection with course material in a creative and engaging way to describe the Properties of searching strategies.  
**Excellent /Good /Fair**
3. Does this activity learning improve listening, communication and problem solving skills?  
**Excellent /Good /Fair**

Googleform Link: <https://forms.gle/uF8XCUDtiNumg4rT7>

**Feedback Analysis:**

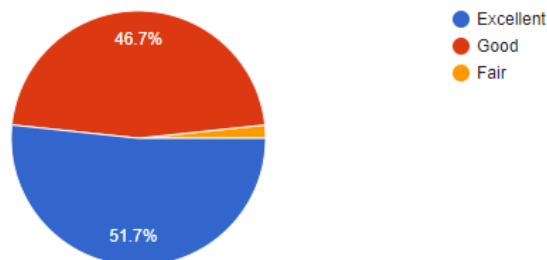
1. Does it encourage cooperative Learning Practices among yourself?

60 responses



2. Connection with course material in a creative and engaging way to describe the properties of searching strategies.

60 responses



3. Does this activity learning improve listening, communication and problem solving skills?

60 responses

