



**Department of Artificial Intelligence and Data Science  
Academic Year 2023 – 2024 (Odd Semester)**

**Degree, Semester & Branch: B.Tech , III & Artificial Intelligence and Data Science 'B'**

**Course Code & Title: AD3351 & Design and Analysis of Algorithms**

**Name of the Faculty member (s): B.Revathi**

**Active Learning Practice Description**

❖ **Unit / Topic: Unit-2 /Heap Sort**

❖ **Course Outcome: CO 2**

❖ **Topic Learning Outcome: TLP 4,5**

❖ **Activity Chosen: Team Assisted Individualization(TAI)**

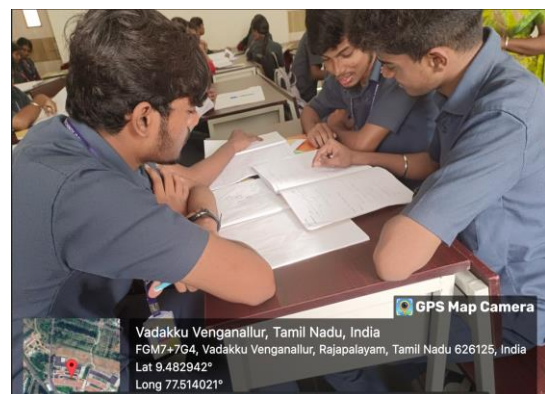
❖ **Justification:**

- Team Assisted Individualization (TAI), was found to improve the academic behavior of the students, to increase their Problematic knowledge more than traditional methods.
- Different types of sorting problems are available for arranging the numbers. More number of methods are used Sorting techniques so students are must practice to solve effectively. Due to this activity the students are able to solve the problem easily.
- **Time Allotted for the Activity: 50 minutes**

• **Details of the Implementation:**

- Team Assisted Individualization (Cooperating learning) innovative practice conducted for II AI & DS 'B' Sec students,
- At first the students are divided into groups of 5 members (12 groups). Each group can have the separate name.
- TAI Activity objectives and outcomes, rubrics are explained and provided the problem to be solved.

• **Images / Screenshot of the practice:**



• **Reflective Critique:**



❖ **Feedback of practice from students and other stakeholders:**

The students felt that this activity is very useful.

❖ **Benefit of the practice** (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)

The students can get more clarity in the particular topic by discussing and sharing their views with the other students in the class.

Attempts: 48 out of 48

Does the Activity encourage the collaborative learning among yourself?

	1 respondent	2 %	✓
Yes	47 respondents	98 %	
No		0 %	

Attempts: 48 out of 48

Do you have a clear understanding about Binary search trees?

		0 %	✓
Yes	47 respondents	98 %	
No	1 respondent	2 %	
		0 %	

Attempts: 47 out of 48

Does this activity learning improve Team work and problem solving skills?

		0 %	✓
Yes	47 respondents	98 %	
No		0 %	
No Answer	1 respondent	2 %	

❖ **Challenges faced in implementation:**

The main challenge faced is group conflict, must carry out supervision of each group in every learning implementation. Few Students are not ready to work together. when the students face complicated problems in the small group, the teacher is still available to solve them.

**References:**

1. <https://files.eric.ed.gov/fulltext/EJ1083611.pdf>
2. <https://psycnet.apa.org/record/1985-10827-001>
3. <https://eric.ed.gov/?id=ED232852>

