

# Active Learning Techniques Plan

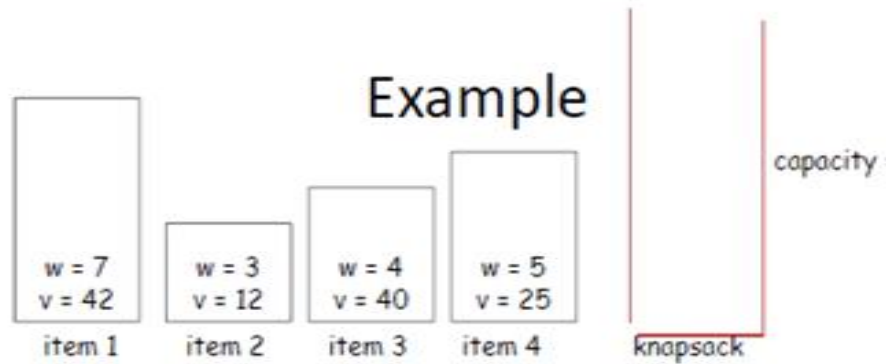
**Subject:** Computer Algorithms

**Name of Course In-charge:** P. T. Sawant

**Sem:** V

**Academic Year:** 2018-19

<b>Sr. No:</b>	<b>Activity Details</b>
1.	<p><b>Name of Activity:</b>Think Pair Share</p> <p><b>Topic:</b> Greedy Algorithms &amp; Dynamic Programming</p> <p><b>PlanDate/s:</b></p> <p><b>Description:</b> Students will work on problem posed by teacher.</p> <ul style="list-style-type: none"><li>a. Think: Students think about what they know and come up with their own individual answer to the problem.</li><li>b. Pair: Each student is paired with another student. They share their thinking with each other.</li><li>c. Share: Students share their thinking with the entire class.</li></ul> <p><b>I. Student Role:</b></p> <ul style="list-style-type: none"><li>a. Read the Problem statement</li><li>b. Write down the possible solutions to the problem in a group</li><li>c. Demonstrate the proposed solution in a group</li><li>d. Answer the Questions</li></ul> <p><b>II. Teachers Role:</b></p> <ul style="list-style-type: none"><li>a. Display the problem statement.</li><li>b. Tell students to write down the proposed solutions</li><li>c. Display correct solutions in terms of algorithms</li><li>d. Tell students to demonstrate each algorithm in a group</li><li>e. Ask to measure the time requirement</li></ul>



**III. Activity Plan:**

1. Display above problem statement.
2. Prepare group of two students
3. Tell students to individually calculate the most valuable subset of items that can fit in to the knapsack.(05 min)
4. Ask students to share the answer with their neighbor/group member.
5. If different answer then rethink and both agree on one solution(05min)
6. Few group members discuss the answer in front of all students(10min)
7. If any group having wrong answer, instructor correct it and tell where is wrong.(10min)
8. Finally all class agree on only one correct solution.

2.

3.