

PANIMALAR INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering

Academic Year: 2019-2020 (Odd Semester)

INNOVATIVE TOOLS

Degree, Semester & Branch: V Semester B.E. Computer Science and Engineering

Course Code & Title: CS8591 Computer Networks

Name of the Faculty member: Dr.S.Hemalatha, Mr.K.Gopinath & Mrs.M.Vidhya

Innovative Tool: **Think – Pair – Share (TPS)**

TOPIC: ROUTING ALGORITHMS

Date: 21.08.2019

THINK – PAIR – SHARE (TPS)

Collaborative, active learning strategy, in which students work on a problem posed by instructor, first individually (Think), then in pairs (Pair) or groups, and finally together with the entire class (Share).

- **T (Think):** Teacher asks a specific question about the topic. Students "think" about what they know or have learned, and come up with their own individual answer to the question. [Takes 1-3 Minutes].
- **P (Pair):** Teacher asks another question, related to the previous one, that is suitable to deepen the students' understanding of the topic. Each student is paired with another student. They share their thinking with each other and proceed with the task. [Takes 5-10 Minutes].
- **S (Share):** Students share their thinking (or solution) with the entire class. Teacher moderates the discussion and highlights important points. [Takes 10-20 minutes].

Benefit of TPS

- Students are actively engaged.
- Students learn from each other.
- Makes class interactive.
- Builds a friendly, yet academic atmosphere.
- Includes all the students in the teaching-learning process.

Objectives

- Students should be able to demonstrate conceptual understanding.
- Students should be able to analyse the pros and cons of different ways.

Outcomes:

The students were able to demonstrate conceptual understanding and actively participated in learning.

CO 4: Analyse and design routing algorithms.

How we implemented Think – Pair – Share

Think:

The instructors posed a question to analyze and explain the Routing algorithm and its types. The students were grouped and discussed about the Routing algorithm.



Pair:

The students were asked to discuss their neighbour's and work with their neighbor to understand the given problem. The students worked with their neighbours to complete the task.



Share:

The students from group presented their concepts and participated in the discussion.

