VIGNAN'S NIRULA
INSTITUTE OF TECHNOLOGY & SCIENCE FOR WOMEN
(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)
Vignan Avenue, Peda Palakaluru, Guntur - 522009
Department of Information Technology

Innovative Teaching Practice

Course Information:

Faculty Name	**:** Dr. D.Anveshini, Dr.K.Baranitharan
Course Name	**:** Computer Networks
Class	**:** III B.Tech I Semester
Academic Year	**:** 2024-2025
Activity Name	**:** Collaborative Learning
Topic	**:** WLAN Protocol

Objective of the Activity:

The objective of the Collaborative Learning activity is to engage students in a group-based exploration of the concept of WLAN Protocol.

Pre-Class Preparation:

Students are required to:

- **Review the textbook or online resources** on WLAN Protocol, focusing on Frame, Frame Format, and the phenomenon of WLAN Protocol.
- **Prepare notes** on key topics like:
  - Definition and symptoms of WLAN Protocol.

In-Class Collaborative Learning Activity:

Instructions:

1. **Group Formation (5 minutes):**
   - Students will be divided into small groups of 4-5. Each group will be assigned a set of tasks related to thrashing, where they will collaborate to solve the problem and discuss the concepts in detail.
2. **Collaborative Exploration (15 minutes):**
   - Each group will work together on the following questions and tasks:

Discuss the WLAN Security protocols.

1.Propose potential solutions for preventing or mitigating WLAN, including how the Frame Format will be.

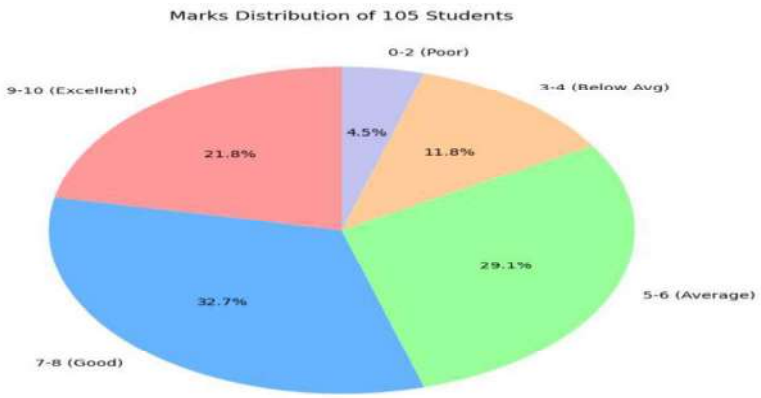
2.Case Study Discussion: Groups will be provided with a hypothetical scenario. They must propose a plan for how the Computer Networks could alleviate the WLAN and Network performance.

Images / Screenshot of the practice

Collaborative Learning	Screenshot of the practice
On the topic WLAN protocols Presented by 22NN1A1220 22NN1A1212 22NN1A1218	

Assessment analysis:

Marks Range	Number of Students	Percentage
9-10 (Excellent)	23	21.82%
7-8 (Good)	34	32.73%
5-6 (Average)	30	29.09%
3-4 (Below Avg)	12	11.82%
0-2 (Poor)	6	4.55%
Total	105	100%



Benefits of the Practice:

1. **Encourages Peer-to-Peer Learning:** The collaborative nature of the activity allows students to explain concepts to one another, reinforcing their understanding and clarifying any doubts.
2. **Promotes Critical Thinking:** By analyzing the causes and solutions to WLAN,students engage in critical thinking, applying their theoretical knowledge to real-world system challenges.

Signature of Faculty **Head of the Department**