



# DELHI TECHNICAL CAMPUS

GREATER NOIDA

*Affiliated To GGSIPU, Approved by AICTE & COA*



## COLLABORATIVE LEARNING WITH SMARTBOARD APPROACH

**Name of the Faculty :-** Dr. Kimi Verma

**Name of the Course :-** Computer Networks

**Name of the Activity :-** Collaborative learning with usage of Smart board

**Students Involved :-** 3<sup>rd</sup> year B.Tech

### Collaborative learning

Collaborative learning is an education method that helps students solidify their knowledge by teaching each other. One student tutoring another in a supervised environment can result in better learning and retention.

### Description of the Activity

In this activity, students were given a task by the faculty. Each student is supposed to complete the task within the given time frame.

- Students in the 3<sup>rd</sup> year of B.Tech were asked to discuss and note these topics: Communication Network Architectures, Protocols, Types of networks, Network Security and Privacy, Wireless Multimedia Systems, Transmission networks, ISDN, MAC protocols, Error detection and correction techniques, IPv4, IPv6 etc. as a task to be completed at class. The time frame of 20 minutes was given to the students to complete the task.

### Required skills

Knowledge and deep study of Computer Networks

### Instructions about the Activity:

- Advise everyone to treat one another with respect. Make it clear there should be no name-calling, personal attacks, or profanity. You can argue with someone's idea or opinion, but cannot argue with that person on a personal level.
- Make sure people know not to interrupt. Remind everyone the point of this discussion is for everyone to share equally.
- Remind everyone to be aware of time, and to make their points succinctly so everyone has the chance to share.
- Encourage people to consider their comments seriously, and to avoid becoming defensive if someone disagrees.

### Outcome of the Activity

- Increased literacy scores of students.
- Developed their reasoning and critical thinking skills by taking real life examples.



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- Improved confidence and interpersonal skills of students.
- Increased comfort and openness.
- Enhances communication skills.
- Creates ideas and creativity.
- An accurate method of evaluating students' talents .
- Strengthens student presence and visibility on the internet.

## Conclusion

Collaborative learning make students to know about various new things related to networks and to engage students in several stages of problem-solving, like activity planning, activity performing, activity monitoring, and managing uncertainties presented during problem-solving related to network creations. Students gain information and abilities that help them deal with challenges and issues in the real world.

## Images





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