



Department of Computer Science and Business systems

Academic Year 2024-2025 (Even Semester)

Degree, Semester & Branch: VI Semester B.Tech -CSBS

Course Code & Title: CCS339-Cryptocurrency and Blockchain Technologies

Name of the Faculty member (s): Mrs. B.Yazhini

Innovative Practice Description

Unit: UNIT III /BITCOIN CONSENSUS

Topic: Block Propagation and Block relay

Course Outcome: CO 3

Learning Outcome: 3a,3b

Activity Chosen: Learning By teaching

Justification:

The main objective of the learning by teaching activity was to promote active learning and knowledge consolidation among the students. By assigning topics to the students and having them teach those topics to their peers, the activity aimed to reinforce their understanding, improve communication skills, and foster a collaborative learning environment.

Time Allotted for the Activity: 35 minutes

Details of the Implementation:

- Prior to the session, the instructor asked the students about willingness about teaching to the particular topic.
- Nithyalakshmi shown interest to take class.
- Student was assigned a topic of Block propagation and block relay
- Student was given time to prepare their assigned topics. She was encouraged to gather information from various sources, organize the content effectively, and plan their teaching approach.
- During the session, students took turns presenting their assigned topics to their classmates. She utilized different teaching techniques such as solving problem, and interactive activities to engage the class mates.
- After that, a question-and-answer session was held to encourage active participation and clarify any doubts

CO — PO / PSO mapping:

CO	POI	P02	P03	P04	P05	P03	PSOI	PSO3
CO 2	3	3	2	2	1	1	3	1

Innovative practice	POI	PO2	PO3	PO4	PO4	PO5
	2	1	1	1	1	1
Justification for correlation	Students will acquire in-depth knowledge of the abstract models of blockchain technology by applying engineering fundamentals	Students will analyze blockchain in use cases and scenarios using engineering sciences	Students will design and develop blockchain based solutions by implementing smart contracts and decentralized applications	Students will investigate complex problems related to abstract blockchain models, exploring potential improvements and innovative approaches.	Students will investigate complex problems related to abstract blockchain models, exploring potential improvements and innovative approaches.	Students will effectively use blockchain development tools and platforms to implement and gain hands-on experience in blockchain technology.

PO mapped:

PSO mapped:

Innovative practice	PSOI	PSO3
	3	1
Justification for correlation	To apply analytic technologies to arrive at actionable foresight, Insight, hindsight from	To enrich the critical thinking skills in emerging technologies such as Hybrid Mobile application development, cloud technology stack, and cyber-physical systems with mathematical aid to foresee the research findings and provide the solutions

	data for solving business and engineering problems	
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- Images / Screenshot of the practice:

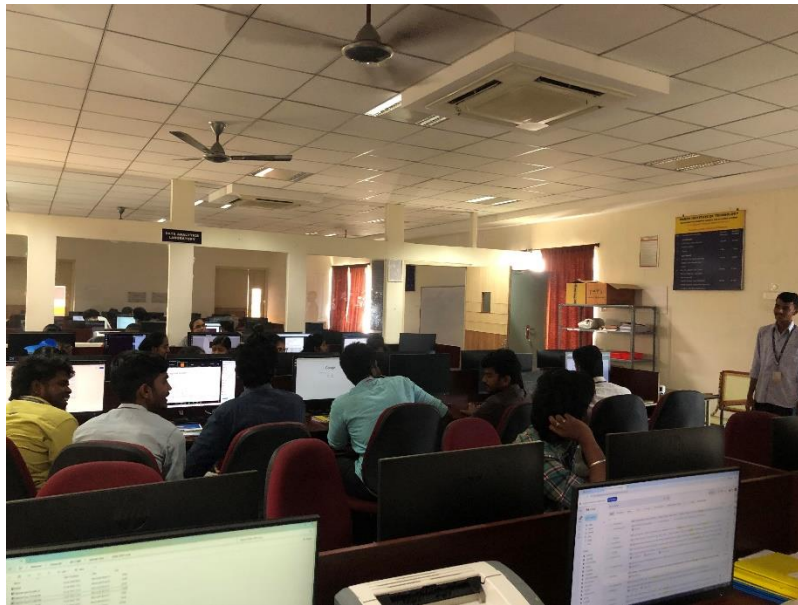


Image of the Student teaching the concept

- **Reflective Critique:**
 - Feedback of practice from students and other stakeholders:
 - Gokul Arun kumar informed the instructor that the activity encouraged him to have a deeper understanding of the subject matter and improve his retention of the information.
 - All the students were eagerly listened the class. Students felt they are able to understand the topic.
 - Students highlighted that this practice helped them improve their communication skills, such as clarity, organization, and the ability to present complex ideas in a simplified manner.
 - **Benefit of the practice:** (E.g.: Outcome attainment would have increased due to innovative practice over conventional practice)
 - This activity helped the student to improve communication skills.
 - Students spent their time in self-learning.
 - This activity encouraged the students to share their knowledge with others.

- **Challenges faced in implementation:**

Effectively motivate students who are not participating in the activity due to shyness, fear of public speaking, or lack of confidence. Motivate the students to overcome their shyness and engage in active learning

References:

1. <https://effectiviology.com/protege-effect-learn-by-teaching/>
2. https://www.researchgate.net/publication/351905566_Impact_of_Seminars_on_Student_Soft_Skills_Development
3. https://www.ritrjpm.ac.in/images/compter-science/2022-2023/5_VA_CS3362_Learning%20by%20teaching.pdf

Faculty In-Charge

HOD

