K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109

DEPARTMENT OF COMPUTER AND COMMUNICATION ENGINEERING

TECHNICAL TALK
ON

"Block chain Technologies"

Date of Conduction: 18.09.2024

Venue: NB-404 Class Room

Time:10.30 AM

Duration: 2 Hrs

Sponsoring Bodies / Associating Organization:NA

Name: Mr. Srinivas Aprameya

Designation: Developer, Relations Engineer

Organization: Accelchain, Bangalore

BRIEF PROFILE ABOUT THE EXPERT:

At Accelchain Srinivas Aprameya is a passionate and dynamic Developer Relations Engineer with a robust background in **blockchain technology** and **Web 3 development** for more than 2 years. Skilled in bridging the gap between developers and the company, fostering a vibrant community, and advocating for user-centric development. Adept at creating educational content, conducting workshops, and providing top-notch support to developers. Committed to driving innovation and enhancing the developer experience within the decentralized ecosystem.

Aprameya Srinivas also holds a Bachelor of **Information Science** degree from **the National Institute of Engineering, Mysuru.** Srinivas is proficient in Blockchain Technology, Ethereum, Solidity, smart contracts, and decentralized applications (dApps) and also has experience with Web 3 Development frameworks like Truffle, Hardhat, and libraries such as Web3.js and Ethers.js. Srinivas

also has a proven record in Community Building in growing and engaging developer communities through events, forums, and social media.

With his Technical Writing skills and Expertise in creating clear and comprehensive documentation, tutorials, and blog posts he has done many tutorials and has guided developers to write a few posts about web 3 Srinivas is also skilled in Public Speaking and delivering engaging presentations and workshops at conferences and meetups

DESCRIPTION OF THE EVENT:

Introduction

Blockchain is a distributed ledger technology that enables secure, transparent, and tamper-proof recording of transactions across multiple computers. Originally designed to support the digital currency Bitcoin, blockchain has evolved into a revolutionary technology with applications spanning finance, supply chain management, healthcare, and more.

A blockchain is essentially a chain of blocks, where each block contains a list of transactions. Each block is linked to the previous one through cryptographic hashes, making it nearly impossible to alter past records without affecting the entire chain. This decentralized and immutable nature of blockchain ensures data integrity and enhances security, making it an attractive solution for various industries.

In the tech talk, the speaker covered various aspects of blockchain technology, including its core concepts, the underlying cryptographic principles, and its diverse applications. The talk provided insights into how blockchain works, its potential to disrupt traditional systems, and the challenges it faces in terms of scalability, regulation, and adoption.

OBJECTIVES / KEY HIGHLIGHTS:

Understanding Blockchain Technology: Introduction to the concept of distributed ledgers, consensus mechanisms, and cryptographic security in blockchain.

Applications of Blockchain: Exploration of real-world use cases such as cryptocurrency, smart contracts, supply chain transparency, and digital identity verification.

Blockchain in Finance: Discuss how blockchain is transforming the financial sector through cryptocurrencies, decentralized finance (DeFi), and cross-border payments.

Technical Foundations: Explanation of how blockchain technology works, including mining, proof-of-work, proof-of-stake, and other consensus algorithms.

Challenges and Future Trends: Addressing the challenges of blockchain, such as scalability

issues, energy consumption, and regulatory hurdles, and exploring emerging trends like block chain 3.0 and quantum-resistant cryptography.

PARTICIPANT DETAILS

- No. of participants in total:
- Students of CCE Dept:40
- Students of CSE(ICB) Dept:48
- Faculty: Prof. T Naga Jyothi(CCE)

PHOTOS (GEO TAGGED):

OUTCOMES/BENEFITS:

- **Enhanced Understanding of Blockchain Technology:** Students gained a comprehensive understanding of blockchain fundamentals, including its structure, functionality, and potential applications across various industries.
- **Insight into Real-world Applications:** The session provided practical insights into how blockchain is being used in areas such as cryptocurrency, supply chain management, and digital

identity, enabling students to see the technology's impact beyond theoretical concepts.

- **Knowledge of Financial Innovations:** Students learned about blockchain's role in revolutionizing the financial sector, particularly through decentralized finance (DeFi) and secure digital transactions.
- **Awareness of Technical and Regulatory Challenges:** The talk helped students understand the current challenges in blockchain technology, including scalability, security concerns, and regulatory issues, and discussed potential solutions.
- **Preparation for Future Trends:** The session highlighted emerging trends in blockchain, preparing students to stay ahead in this rapidly evolving field.

Attachments:

- **Communication with Resource Person.**
- **Resource Person Profile.**
- **Evaluation and Feedback.**

CO/PO&PSO mapping – CCE

CO/PO &PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Expert Talk	-	-	-	02	-	02	-	-	2	-	-	01	01	01
Average	-	-	-	02	-	02	-	-	2	-	-	01	01	01

- **PO4: Conduct Investigations**: Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

- **PO6: Engineer and Society**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

- **PO12: Lifelong learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

- **PSO1:** Graduates will demonstrate the technical skills to address real-world challenges in IoT, cyber security, and block chain technology while upholding ethical considerations and social responsibility.

- **PSO2:** Graduates will engage in continuous learning, collaborate cross-functionally, and adeptly create and implement inventive solutions for societal benefit while ensuring digital security and privacy.

T Naga Jyothi	Dr. Chanda V Reddy	Dr. Dilip Kumar K
Event Coordinator	(HOD – CCE)	Principal, KSIT