LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)
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ISO 21001:2018,14001:2015,50001:2018 Certified Institution
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

"Future of Blockchain :Industry Trends & Practical Implementations"

Event Type : Workshop

Date : 09th December – 14th December 2024

Venue : CSE Seminar Hall, 2nd Floor.

Resource Person(s) : **Mr.V.Sai pavan**,
Entrepreneur, Trainer,Space Enthusiant, Brain O Vision
Mr.B.Obul, Technical Trainer at Brain O Vision

Name of the Convener : **Dr.D.Veeraiah**, Professor &HoD,Department of CSE

Name of the Co-Convener : **Dr.J.Nageswara rao,**Assoc.professor,Dept.of CSE

Name of the Co-ordinators(s) : **Mrs.B.Swathi,** Sr. Asst.Prof, Dept of CSE
Mr. M.Kiran Kumar, Sr.Asst.Prof, Dept of CSE

Name of the Co-Coordinators(s):**Mr.N.Srikanth**, Sr.Asst.Prof, Dept of CSE
Mr.Ch.Srinivasa Rao,Sr.Asst.Prof,Dept of CSE

In Association With : **Brain O Vision Solutions India Pvt. Ltd..**
ACM Student Chapter

Targeted Audience : B.Tech VI Sem CSE Students

Total No.of Students : 80 Students

Objective of the Event:

The objective of events about the future of blockchain is to discuss how blockchain technology can transform industries, and how it can be practically implemented. This level of security is particularly valuable for financial transactions and sensitive data. Increased transparency is another key benefit. Since all transactions are recorded on a public ledger, stakeholders can easily verify and audit the data

Learning Objective of the event:

- **Understand the fundamentals of blockchain technology:** Gain a clear understanding of how blockchain works, including its decentralized nature, consensus mechanisms, cryptography, and how it ensures security and transparency.
- **Explore real-world applications of blockchain:** Learn about the various industries that benefit from blockchain, such as finance, healthcare, supply chain management, and government services.

- **Identify key features of blockchain systems:** Understand the concepts of distributed ledgers, smart contracts, tokens, and cryptocurrency, and how they interact within a blockchain environment.
- **Assess the benefits and challenges of adopting blockchain technology:** Learn about the advantages, such as enhanced security, transparency, and efficiency, as well as potential challenges like scalability, regulatory concerns, and environmental impact.
- **Evaluate emerging trends and future developments in blockchain**: Stay informed about new innovations in the blockchain space, such as DeFi (decentralized finance), NFTs (non-fungible tokens), and the integration of blockchain with AI and IoT (Internet of Things).

Description of the event :

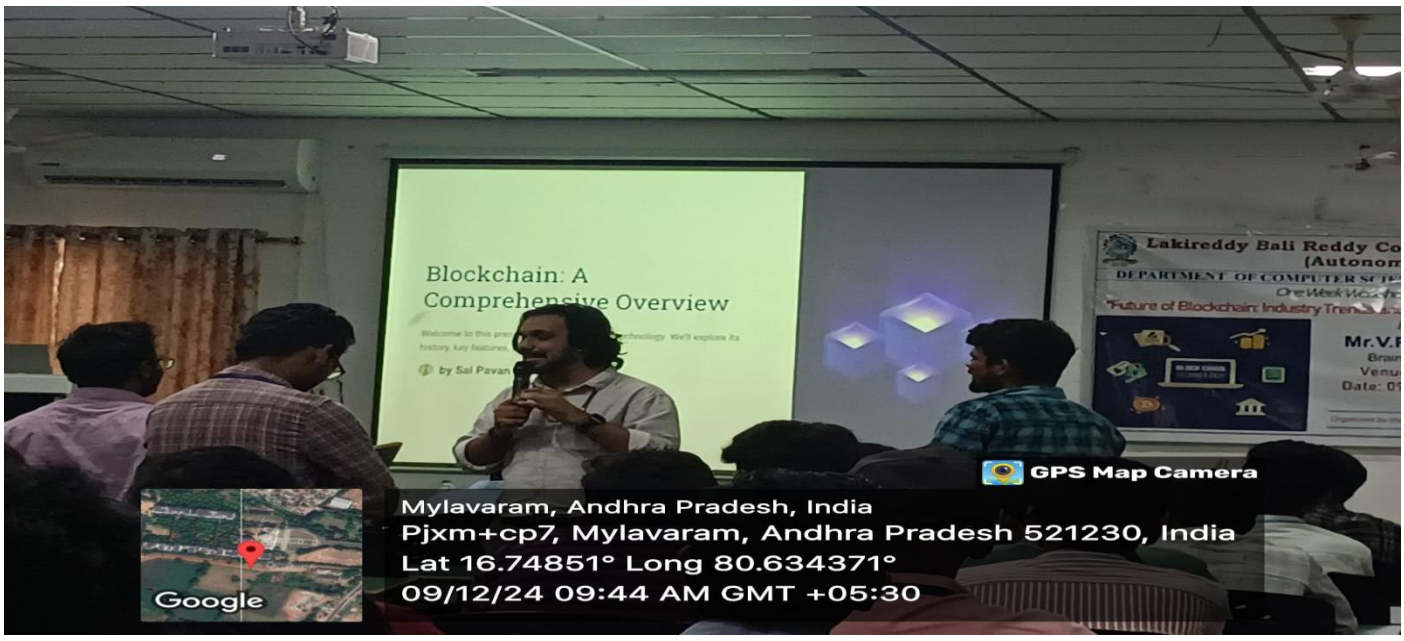
Day 1: 09-12-2024

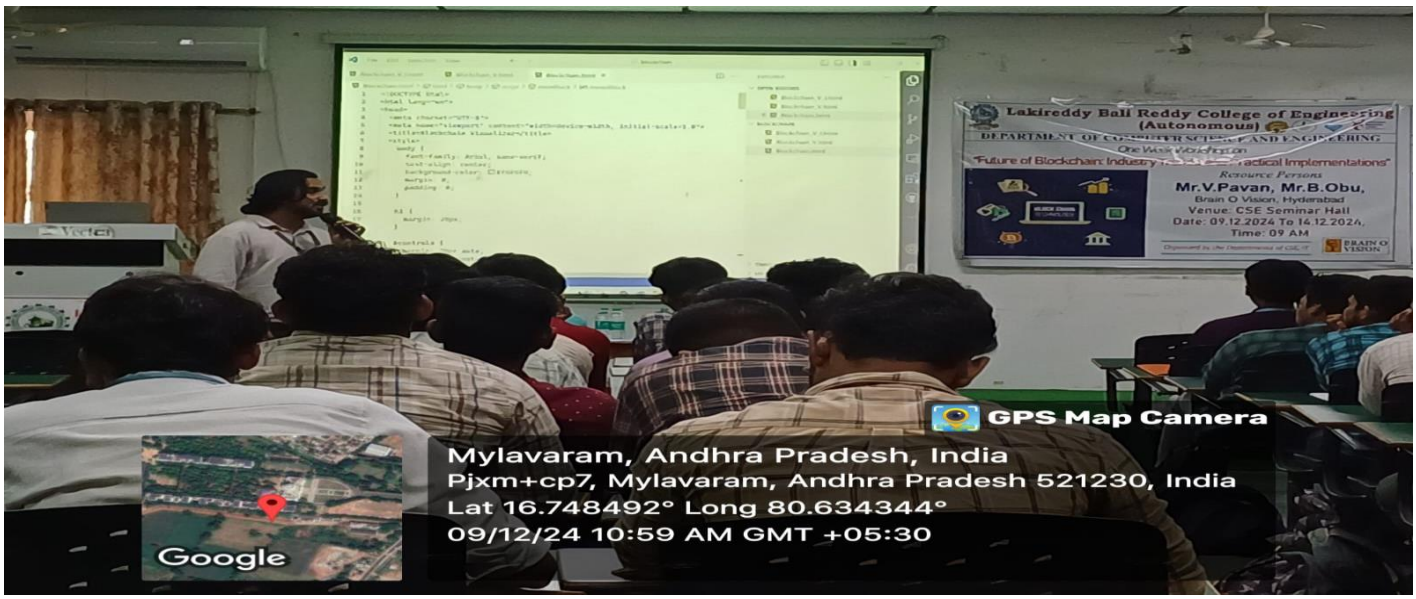
- Workshop was inaugurated on 09/12/2024 by Dr D. Veeraiah, HOD – CSE,Convener(s) of the workshop, along with Mr.V.Sai pavan & Mr.B.Obul Resource Persons, Brain O Vision Soft Solutions, Hyd.
- Coordinators of the Workshop, **Mrs.B.Swathi**,and **Mr.M.Kiran Kumar** welcomed all the dignitaries and delegates. In his welcome speech, he highlighted the importance and objectives of organizing this Workshop. The convener of the Workshop, **Dr. D. Veeraiah** started the speech by thanking LBRCE Management and congratulating all the participants who registered for this workshop. Then they thanked the Resource Person **Mr.V.Sai pavan &Mr.B.Obul** and his Team, for accepting our request irrespective of his busy schedule. They added the importance of Blockchain Technology. They encouraged all the students to utilize this opportunity, which will help them in identifying/doing projects in Data Science.
- Resource Person **Mr.V.Sai pavan** started this workshop and explained overview of Blockchain Technology applications .
- Resource Persons team handled hands-on sessions for Industries leveraging Blockchain (Finance, Healthcare, Supply Chain, etc.) and Explore a blockchain explorer like Etherscan.




Lakireddy Bali Reddy College of Engineering
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ORGANIZED BY THE DEPARTMENT OF CSE, IT
One Week Workshop on
"Future of Blockchain: Industry Trends and Practical Implementations"
Resource Persons
Mr.V.Pavan, Mr.B.Obu,
Brain O Vision, Hyderabad
Venue: CSE Seminar Hall
Vectra
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Mylavaram, Andhra Pradesh, India
Pjxm+cp7, Mylavaram, Andhra Pradesh 521230, India
Lat 16.748497° Long 80.634328°
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Google


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Blockchain: A
Comprehensive Overview
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Day2: 10-12-2024

- Resource Person **Mr.V.Sai pavan** explained about Types of Blockchain:Public, Private, Consortium, Hybrid,Differences and use cases,Distributed Ledger Technology (DLT), Understanding DLT and how it differs from Blockchain.
- Resource Persons team handled hands-on sessions on Compare different Blockchain networks (Bitcoin, Ethereum, Hyperledger).Analyze transaction speed, scalability, and use cases.

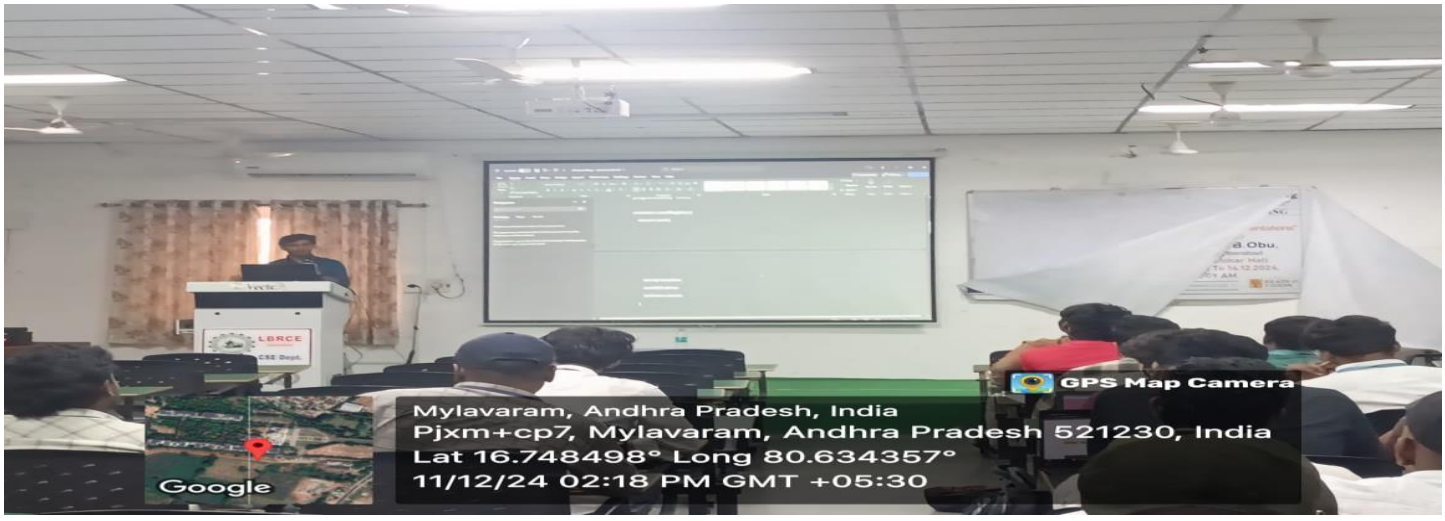


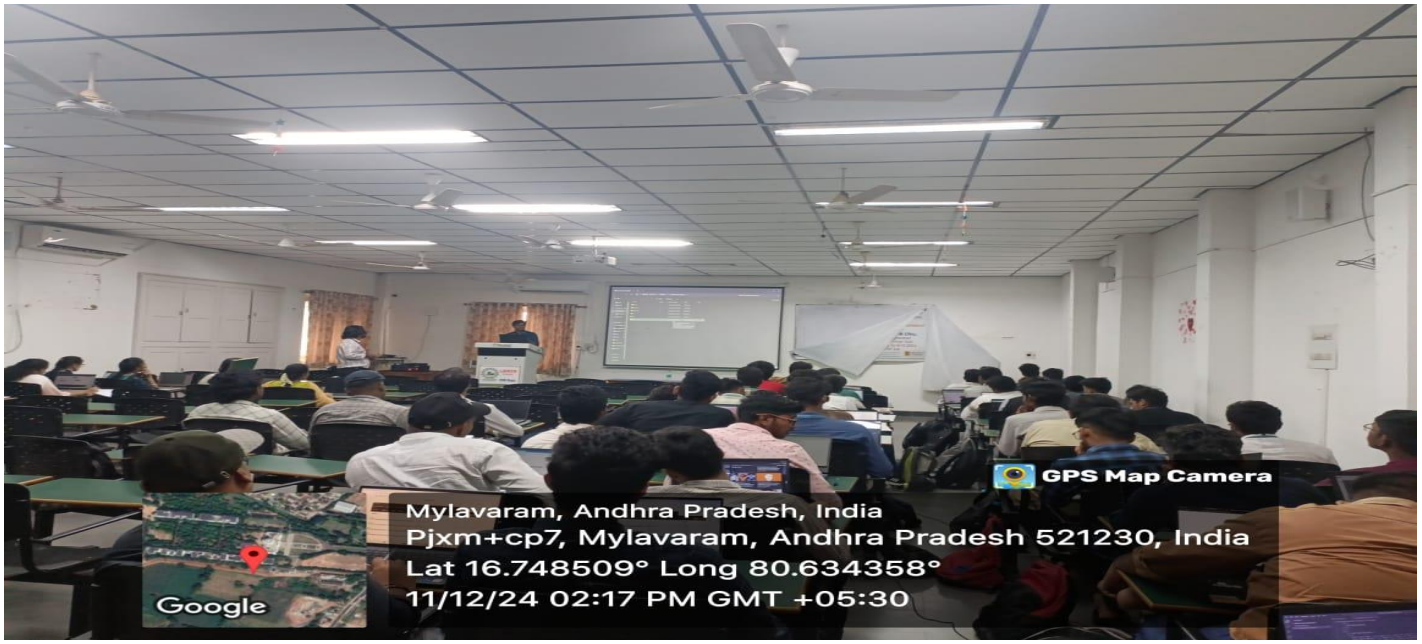




Day3: 11-12-2024

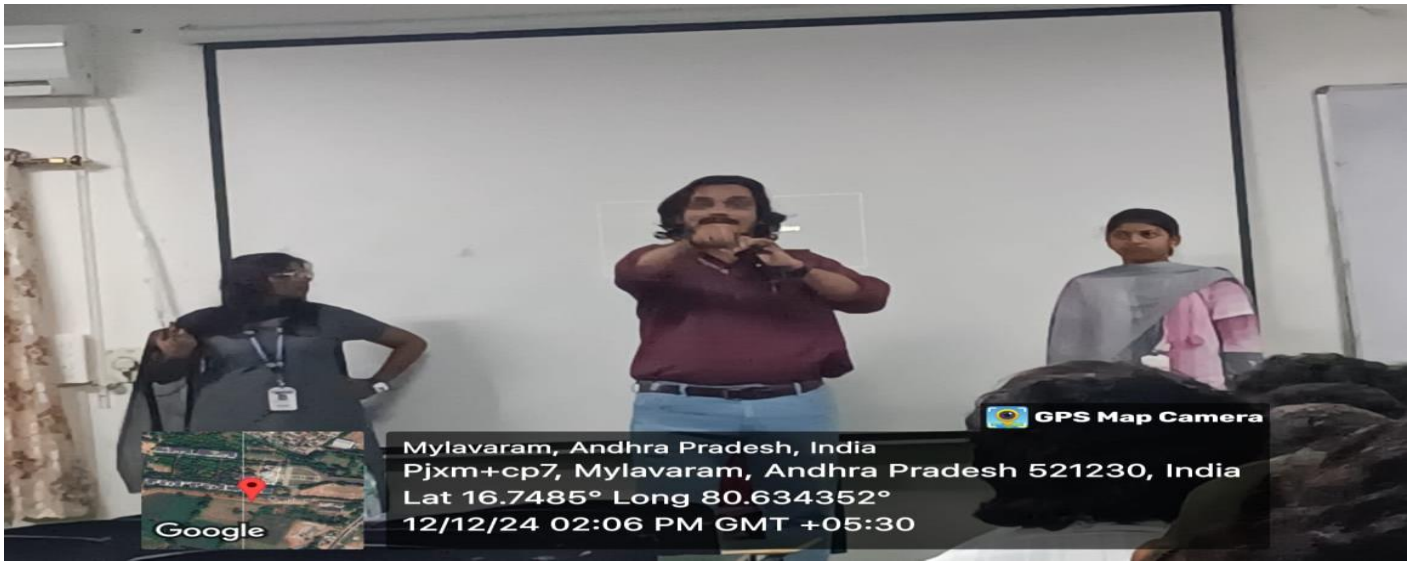
- Resource Person **Mr.V.Sai pavan** covered Blockchain Architecture, How Transactions Are Validated,Smart Contracts:Definition, Features, and Examples
- Resource Persons team handled hands-on sessions on Create a basic Blockchain in Python or JavaScript.Implement simple block addition and validation Hands-on Activity:





Day 4: 12-12-2024

- Resource Person **Mr.V.Sai Pavan** covered Introduction to Ethereum, Ethereum Network:Types: Mainnet, Testnet , Private Network, Deploying on Ethereum.
- Resource Persons team handled hands-on sessions on Explore an Ethereum wallet like MetaMask.Send test transactions on the Rinkeby or Goerli Testnet.



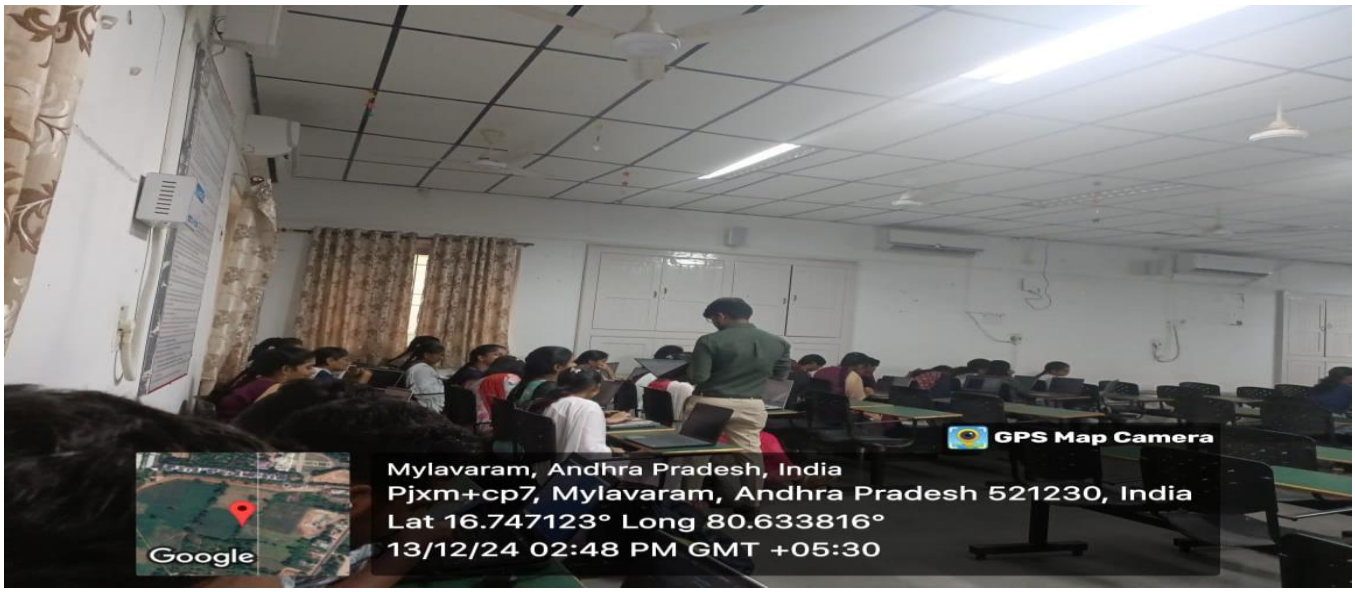




Day 5: 13-12-2024

- Resource Person **Mr.V.Sai pavan** explained Solidity Programming and Remix IDE
- Resource Persons team handled Hands-on-session on Build and deploy a 'Hello World' contract.Implement a simple Voting or Token smart contract.





Day 6: 14-12-2024

- Resource Person **Mr.V.Sai pavan** explained Hyperledger Overview:Introduction to Hyperledger projects,Differences between Hyperledger and Ethereum,Hyperledger Fabric:Architecture and Components,Conducted Online-Quiz on real time scenarios in which Data analytics is used.

- Resource Persons team handled Hands-on-session on Deploy a simple Hyperledger Fabric network.Write and deploy chaincode.

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DEPARTMENT OF INFORMATION TECHNOLOGY
Mr.V.Pavan, Mr.B.Obu
LBRCE
CSE Dept.


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Impact Analysis:

- Students got to know the applicability Cryptocurrency and Digital Assets in an innovative way.
- Students got awareness on a Supply Chain Management & decentralized energy markets where users can trade energy directly, increasing efficiency and reducing reliance on centralized grids.
- Students gained knowledge on various online resource how to crack a technique interview in Blockchain.

Feedback & Suggestions:

- We thoroughly enjoyed the workshop.
- By attending this Workshop, we can find blockchain concepts challenging to grasp initially, especially the underlying cryptography and consensus mechanisms. Understanding the difference between different types of blockchains (e.g., public vs. private) and how they operate can be overwhelming.
- We got to know the different challenges one can face in Industry.

Suggestions:

- More beginner-friendly resources, tutorials, and hands-on experiences could be beneficial. Offering real-world examples and case studies would help students see the practical applications of blockchain..
- Try to make awareness to the students to participate in learning.
- Thank you so much Brain O Vision for this one-week Workshop session

OUTCOME OF THE EVENT:

- **Knowledge Acquisition**: Participants leave with a deeper understanding of blockchain technology, its current uses, and its potential.
- **Practical Skills**: Attendees develop hands-on experience, particularly if the event includes workshops or technical sessions.
- **Networking**: Connections are made with peers, professionals, and industry experts, fostering future collaborations.
- **Career Development**: Many attendees may consider pursuing careers in blockchain or look for new opportunities based on what they learned.

Convener