

MALLA REDDY COLLEGE OF ENGINEERING

(Approved by AICTE, Permanently Affiliated to JNTUH) Recognized under Section 2(f) & 12(B) of the UGC Act 1956, An ISO 9001:2015 Certified Institution.

Maisammaguda, Dhulapally, post via Kompally, Secunderabad - 500100

DEPT.OF CSE-DS & AI&DS

(True success is all about working towards meaningful goals and dreams)

Report



A 5 DAYs Faculty Development Program (ONLINE) ON

"BLOCKCHAIN TECHNOLOGY &ITS APPLICATIONS"

29-05-2024 TO 3 06-2024@5:30 pm to 9:30 pm

PARTICIPANTS

CSE-DS FACULTY



ALL ARE CORDIALLY INVITED !!!



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DEPARTMENT OF CSE-DS

To,

The Principal,

MRCE.

Respected Sir,

Sub: Request to conduct one Faculty Development Program on <u>"BLOCKCHAIN</u> <u>TECHNOLOGY &ITS APPLICATIONS"</u>-reg

Greetings!!!

Our department of CSE-DS has planned to organize a 5 day FDP on **<u>"BLOCKCHAIN TECHNOLOGY & ITS APPLICATIONS"</u>-dated on 29-05-2024 TO 3-06-2024@5:30 pm to 9:30 pm. Here with I attached the budget proposal for your kind attention.**

Kindly accept the same and do the needful.

SL.NO	NAME OF THE EVENT	TITLE	TARGET AUDIENCE	DATE
1	FDP	<u>"BLOCKCHAIN TECHNOLOGY &</u> <u>ITS</u> <u>APPLICATIONS"</u>	CSE-DS FACULTY	29-05-2024 30-05-2024 31-05-2024 1-05-2024 3-06-2024

Thanking you,

Your'sTruly,

hum

15-05-2024



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DEPARTMENT OF CSE-DS

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"BLOCKCHAIN TECHNOLOGY & ITS APPLICATIONS"

29-05-2024 TO 3-06-2024 @ 5:30 pm to 9:30 pm.



BUDGET

NAMES

AMOUNT

FREE PROGRAM

Dr.G.M.BRITTO,

HoD/CSE-DS

DR.M.ASHOK

Principal,MRCE.



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PARTICIPANTS CSE-DS FACULTY

RESOURCE PERSON Mr. JITENDER SHARMA Growth Regional Head for South @ CODING NINJAS



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Dr.G.M.BRITTO,

DR.M.ASHOK

HoD/CSE-DS

Principal, MRCE.



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PROGRAM SCHEDULE

TIME	<u>SCHEDULE</u>
<u>7:00 PM</u>	INAUGRATION
<u>7:05 PM</u>	ADDRESS BY HOD
<u>7:10 PM</u>	GUEST/ RESOURCE PERSON
	INTRODUCED BY COORDINATOR
<u>7:15 PM</u>	PROGRAM STARTS

HoD/CSE-DS

Principal,MRCE



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<u>7:00 PM</u>	INAUGRATION
<u>7:05 PM</u>	ADDRESS BY HOD
<u>7:10 PM</u>	GUEST/ RESOURCE PERSON INTRODUCED BY COORDINATOR
<u>7:15 PM</u>	PROGRAM STARTS
<u>8:25 PM</u>	QUERIES

Module	Objective	Content	Duration (HRS)
Introduction	The 'quick-start' guide to the SEMINAR	Blockchain technology is a decentralized, distributed ledger system that records transactions across multiple computers in a way that makes them tamper- resistant and immutable	1hr.30min
APPLICATIONS	Cryptocurrencies: Supply Chain Management Smart Contracts	Blockchain technology has a wide range of applications across various industries due to its decentralized, secure, and transparent nature. Here are some notable applications	1hr.30min
PRIVATE BLOCKCHAIN	Permissioned Access Centralized Governance Data Privacy and Confidentiality	Private blockchains are blockchain networks where the nodes are controlled by a single organization or a consortium of organizations rather than being open to the public like public blockchains such as Bitcoin or Ethereum	1hr.30min

PUBLIC BLOCKCHAIN	Decentralization Permissionless Access Transparency and Immutability	ublicblockchains are decentralized networks where anyone can participate, transact, and interact with the blockchain without needing permission. Here are some key characteristics and aspects of public blockchains	1hr.30min
CONCLUSION	driving efficiency, transparency, and trust in digital interactions.	Blockchain technology, whether applied in public or private settings, represents a significant advancement with transformative potential across various industries.	1hr.30min



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CSE-DS FACULTY



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"BLOCKCHAIN TECHNOLOGY & ITS APPLICATIONS"

Blockchain technology is a decentralized, distributed ledger system that records transactions across multiple computers in a way that makes them tamper-resistant and immutable. Each block in the chain contains a cryptographic hash of the previous block, a timestamp, and transaction data. This structure ensures that once a block is added to the chain, it becomes very difficult to alter past transactions without altering all subsequent blocks, which would require the consensus of the network majority.

Blockchain gained fame as the underlying technology for cryptocurrencies like Bitcoin, but its potential applications extend far beyond digital currencies. It can be used in various industries such as finance, supply chain management, healthcare, and more, to create transparent, secure, and efficient systems for recording and verifying transactions.

Smart contracts, which are self-executing contracts with the terms of the agreement directly written into code, can be deployed on blockchain platforms like Ethereum, enabling automated and trustless transactions. Overall, blockchain technology holds promise for revolutionizing many aspects of business and society by providing new levels of transparency, security, and efficiency.

Blockchain technology relies on several key components and technologies to function effectively. Some of the core technologies used in blockchain systems include:

1. **Cryptographic Hash Functions**: These are mathematical algorithms that convert input data into a fixed-size string of characters. Hash functions are used extensively in blockchain to create a unique identifier for each block and ensure the integrity of the data within the block.

- 2. **Distributed Ledger Technology (DLT)**: Blockchain is a type of distributed ledger technology where copies of the ledger exist on multiple nodes (computers) within a network. This decentralization ensures that no single entity controls the entire system, enhancing security and transparency.
- 3. **Consensus Mechanisms**: Consensus mechanisms are protocols used to achieve agreement among network participants on the validity of transactions and the order in which they are added to the blockchain. Popular consensus mechanisms include Proof of Work (PoW), Proof of Stake (PoS), and variants like Delegated Proof of Stake (DPoS) and Practical Byzantine Fault Tolerance (PBFT).
- 4. **Peer-to-Peer (P2P) Networking**: Blockchain networks rely on peer-to-peer communication protocols to propagate transactions and blocks across the network. P2P networking enables nodes to communicate directly with each other without the need for centralized servers, enhancing resilience and fault tolerance.
- 5. **Smart Contracts**: Smart contracts are self-executing contracts with the terms of the agreement directly written into code. Platforms like Ethereum allow developers to deploy smart contracts on the blockchain, enabling automated and trustless execution of transactions and agreements.
- 6. **Public/Private Key Cryptography**: Public/private key cryptography is used to provide secure digital signatures and control access to blockchain assets. Users have a pair of

cryptographic keys: a public key for encryption and a private key for decryption and signing transactions.

- 7. **Immutable Data Structures**: Blockchain data structures are designed to be append-only, meaning that once data is recorded in a block, it cannot be altered or deleted without consensus from the network participants. This immutability ensures the integrity of the transaction history stored on the blockchain.
- 8. **Decentralized Storage**: Some blockchain platforms utilize decentralized storage systems, such as InterPlanetary File System (IPFS), to store large files or data off-chain while maintaining a reference to the content on the blockchain. This approach helps reduce storage costs and improve scalability.

These are just a few of the technologies that contribute to the functionality and security of blockchain systems. Depending on the specific implementation and use case, other technologies and protocols may also be employed.

Types of blockchains:

Blockchain technology has evolved over the years, leading to the development of various types of blockchains tailored to specific use cases, consensus mechanisms, and accessibility. Here are some common types of blockchains:

1. **Public Blockchains**: Public blockchains are open and permissionless networks where anyone can participate, read, and write transactions without needing approval. Examples include Bitcoin and Ethereum. They offer decentralization and transparency but may have scalability and privacy limitations.

- 2. **Private Blockchains**: Private blockchains are permissioned networks where access and participation are restricted to authorized entities. These blockchains are often used by enterprises and organizations for internal processes, offering better privacy, scalability, and control over network governance. Examples include Hyperledger Fabric and R3 Corda.
- 3. **Consortium Blockchains**: Consortium blockchains are semi-decentralized networks managed by a group of trusted entities. While they maintain some decentralization, participation is limited to a predefined set of nodes, often controlled by organizations within a specific industry or consortium. Consortium blockchains offer a balance between public and private blockchains, providing shared control and privacy. Examples include Quorum and B3i.
- 4. **Hybrid Blockchains**: Hybrid blockchains combine elements of both public and private blockchains to leverage the benefits of each. They may have public-facing layers for transparency and decentralization, along with private or permissioned layers for specific use cases requiring privacy and control. Examples include Dragonchain and Aion.
- 5. **Permissioned Blockchains**: Permissioned blockchains require participants to be approved by a central authority or consortium before they can join the network. These blockchains offer greater control over governance, access, and validation mechanisms, making them suitable for enterprise applications and regulated industries. Examples include Ripple and IBM Blockchain Platform.

- 6. **Sidechains**: Sidechains are independent blockchains connected to a parent blockchain through two-way pegging mechanisms, enabling the transfer of assets and data between chains. They allow for scalability improvements, experimentation with new features, and interoperability between different blockchain networks. Examples include RSK and Liquid Network.
- 7. **Blockchain-as-a-Service (BaaS)**: BaaS platforms provide cloud-based infrastructure and tools for building, deploying, and managing blockchain applications without the need for extensive development and maintenance resources. They offer convenience, scalability, and cost-effectiveness for organizations seeking to integrate blockchain technology. Examples include Microsoft Azure Blockchain and Amazon Managed Blockchain.

Applications of Blockchain

Blockchain technology has a wide range of applications across various industries due to its decentralized, secure, and transparent nature. Here are some notable applications:

- 1. **Cryptocurrencies**: Blockchain is most commonly known for its application in cryptocurrencies like Bitcoin and Ethereum. It enables secure and decentralized peer-to-peer transactions without the need for intermediaries like banks.
- 2. **Supply Chain Management**: Blockchain can be used to track the movement of goods throughout the supply chain, from raw material sourcing to production, distribution, and delivery. This improves transparency, traceability, and accountability, reducing fraud and errors.
- 3. **Smart Contracts**: Blockchain enables the creation and execution of smart contracts, which are self-executing contracts with the terms of the agreement directly written into code. They automatically execute and enforce the terms when predefined conditions are met, eliminating the need for intermediaries and reducing the risk of disputes.

- 4. **Identity Verification**: Blockchain-based identity verification systems can provide secure and tamper-proof digital identities, allowing individuals to control their personal information and securely share it with third parties as needed. This has applications in areas such as voting, healthcare, and financial services.
- 5. **Financial Services**: Blockchain technology can revolutionize traditional financial services by enabling faster, cheaper, and more secure transactions, cross-border payments, remittances, and asset tokenization. It can also facilitate peer-to-peer lending, crowdfunding, and decentralized finance (DeFi) platforms.
- 6. **Digital Voting Systems**: Blockchain can be used to create secure and transparent digital voting systems, ensuring the integrity and verifiability of elections while reducing the risk of fraud or manipulation.
- 7. **Intellectual Property Protection**: Blockchain-based systems can provide secure and immutable records of intellectual property rights, such as patents, copyrights, and trademarks. This helps protect creators and innovators from piracy, plagiarism, and unauthorized use of their work.
- 8. **Healthcare**: Blockchain technology can improve the security, privacy, and interoperability of healthcare data by creating a decentralized and tamper-proof record of patient information, medical records, and transactions. This enables better data management, patient-centric care, and medical research.

- 9. **Real Estate**: Blockchain can streamline the process of buying, selling, and transferring property by providing transparent and immutable records of ownership, titles, and transactions. This reduces fraud, eliminates intermediaries, and speeds up transactions.
- 10. **Supply Chain Finance**: Blockchain-based supply chain finance platforms can provide efficient and transparent financing solutions by leveraging supply chain data to assess risk, facilitate trade finance, and provide liquidity to suppliers and buyers.



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PARTICIPANTS

II & III CSE-DS STUDENTS

PROGRAM OUTCOME

The participants are able to do..

Learning blockchain technology can lead to several outcomes, depending on your goals, interests, and how you choose to apply your knowledge. Here are some potential outcomes

- Enhanced Security.
- Enhanced Speed.

- Fraud control & Access levels.
- No hidden fees.
- Better Transparency.
- True Traceability.
- Improved Speed and Highly Efficient

FACULTY NAMELIST

S. No	Name of the Faculty
1	Dr.J.GLADSON MARIA BRITTO
2	E PAVITHRA
3	RADHAKRISHNAN M
4	T. NAGA PRAVEENA
5	A. MOHAIDEEN
6	M NAGA SRAVYA
7	SWATHI.B
8	V.THARMALINGAM
9	KRANTHI DEEP. N
10	AKASH DEY
11	KAMMARI SRAVANTHI
12	MALASHREE N
13	PALLE VITTAL HARIKA
14	R.RAVI
15	SAJIN R NAIR
16	DR M.SANDHYA RANI-
17	MR.HARISH KUMAR
18	AVINASH BABU .B
19	LIRINA. P
20	MR.KUMARASAMY
21	AFREEN BEGUM

ΡΗΟΤΟ

Speaker delivering lecture on blockchain and its applications

















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Department of Computer Science and Engineering-(Data Science) & AI&DS

INNOVISTA

Certificate of Participation This is to certify that

Mr./Mrs.

completed 5 days FDP on "BLOCK CHAIN TECHNOLOGY co-ordinator of CSE-DS & AI&DS has actively participated & K. Sravanthi

& IT'S APPLICATIONS" from 29-5-24 to 03-06-2024.

Faculty

HOD-CSD/AI&DS

Dr.J.Britto

Color-

Dr.M.Ashok I Annul

Principal



100 mm

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Department of Computer Science and Engineering-(Data Science) & AI&DS

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Certificate of Participation This is to certify that

Mr./Mrs. Dr. J. Gladson Maria Britto Professor &

5 days FDP on "BLOCK CHAIN TECHNOLOGY & IT'S Head Of the Department, has actively participated & completed

APPLICATIONS" from 29-5-24 to 03-06-2024.

Mrs.K.Sravanthi

Co-ordinator

Dr.J.Britto HOD-CSD/AI&DS

Dr.M.Ashok Principal 14 Amm