TLCE — TEACHING LEARNING CENTER OF EXCELLENCE, VIT, VELLORE — உழைப்பே உயர்வு தரும்	**Faculty Development Program**	VIT® Vellore Institute of Technology (Deemed to be University under section 3 of UGC Act, 1956)

Title : Un-hashing the cryptos of Blockchain

Date : 27-Nov-2023 - 01-Dec-2023
Time : 10:00 - 17:30
Venue : TT135-A

Discussion Points

- Introduction to Blockchain Consensus Protocols
- Introduction to blockchain technology
- Bitcoin transaction validation and mining
- Cryptography in blockchain
- Hashing and digital signature
- Distributed ledger Hyperledger
- Hands on Smart contract development
- Hands on DAPP development smart contract testing,
- Blockchain for Credential Verification
- Applications of blockchain and future scope

	Resource Person 1 - Details **Name :** Dr Amit Dua **Designation :** professor, Bits **University/ Company :** bits, rajasthan **Address :** india, 333031.
	Resource Person 2 - Details **Name :** Dr viney J ribeiro **Designation :** professor, cse **University/ Company :** IIT, Bombay **Address :** india, 400076.
	Resource Person 3 - Details **Name :** Dr Raju halder **Designation :** associate professor, cse **University/ Company :** IIT, patna **Address :** india, 801106.
	Resource Person 4 - Details **Name :** Dr s saroja **Designation :** assistant professor, cse **University/ Company :** NIT, Trichy **Address :** india, 620015.
	Resource Person 5 - Details **Name :** Dr souradyuti paul **Designation :** associate professor, cse **University/ Company :** iit, bhilai **Address :** india, 492015.
	Resource Person 6 - Details **Name :** Dr dorsala mallikarjun reddy **Designation :** assistant professor, cse **University/ Company :** iiits, chitoor **Address :** india, 517646.

Resource Person's Profile :

1. Profile of Dr Amit Dua

Dr Amit Dua is Assistant Professor in Computer Science and Information System Department in BITS Pilani.

Dr Amit is also the Honorary Adjunct Distinguished Scientist-Professor at Scientific Innovation Research Group (SIRG) and Head of Blockchain Branch (India) of SIRG.

Dr. Amit is associated with Neuro Labs International under Dana Brain Health Institute, Iran as Honorary Adjunct Research Scientist for the period of August 22, 2022 to August 21, 2025.

2. Profile of Dr viney J ribeiro

Awarded Shridhar Shukla Chair Professor in Digital Trust (Jan 20th, 2023). Many thanks to Shridhar Shukla who has initiated TRUST Lab at IIT Bombay.
Our paper which scales up Ethereum computation by 100x (without sharding) was presented at a top-tier conference ACM SIGMETRICS 2022 (paper)
US Patent granted on scaling up computation on blockchains (patent) an initiative to bolster science, technology, and education centered on Digital Trust
Blockchain researchers at IIT Bombay

3. Profile of Dr Raju halder

My current research interests are broadly in the areas of Blockchain Technology and Smart Contracts Machine Learning and AI in for Blockchain Technology Blockchain for Cybersecurity Formal Methods for Program Analysis and Verification Information Systems Security and Robotics.

4. Profile of Dr s saroja

Dr. S.Saroja obtained her B.Tech (Information Technology) from Anna University in 2009 by Securing 32nd University Rank. She completed her M.E. degree (Computer Science and Engineering) from Anna University in 2011 by Securing an 8th University Rank. She completed her Ph.D. in the area of Multiprocessor Scheduling at Anna University, Chennai 2020. Currently, working as Assistant Professor in the Department of Computer Applications, NIT Trichy.

5. Profile of Dr souradyuti paul

Nominated to lead multiple Indian initiatives (organized by the Bureau of Indian Standards) for standardizing Blockchain-based applications under various ISO (International Organization for Standardization) projects, 2019
Judge at Smart India Hackathon'19 (certificate from ministry for exceptional contribution)
Keynote speaker at BITCON'19 organized by Bhilai Institute of Technology

6. Profile of Dr dorsala mallikarjun reddy

Winner of 2018 Blockchain Buildathon (Rich track) held at Buffalo, New York, U.S.A.
Winner of 2022 EthIndia Blockchain Hackathon (Filecoin track), Bengaluru, India

Blockchain is an emerging technology for creating decentralized apps and data storage, beyond its use in the platform for cryptocurrency. Blockchain is an expanding list of records or blocks, connected by cryptography to ensure the security of transactions. Blockchain offers a public, decentralized ledger of all network transactions. Basically, this network is a series of computers that have to agree on a transaction before it can be confirmed and documented.

Python, MATLAB, Solidity

Coordinator's: **Prof. CHRISTOPHER CLEMENT J 11844 - Associate Professor Sr. - SENSE**
            Prof. SRIHARIPRIYA K C 16383 - Associate Professor Grade 1 - SENSE