One Week Faculty Development Program/Short Term Course

On

Ethereum Blockchain: From Fundamentals to Advanced Development

📅 **19th May 2025 – 23rd May 2025**

Being Organised By

Department of

Computer Science & Engineering, Delhi Technological University

in Collaboration with

Kerala Blockchain Academy

Venue: Seminar Room, AB4, Dept. of CSE, DTU

About the Institute

Delhi Technological University (DTU), formerly known as the Delhi College of Engineering (DCE), is a public engineering university located in New Delhi, India. It was established in 1941 as Delhi Polytechnic and was under the control of the Government of India. The college has been under the government of the National Capital Territory of Delhi since 1963 and was affiliated with the University of Delhi from 1952 to 2009. In 2009, the college was given the state university status, thus changing its name to Delhi Technological University. It offers courses for Bachelor of Technology (B.Tech.), Master of Technology (M.Tech.), Doctor of Philosophy (Ph.D.), and Master of Business Administration (M.B.A.) and contains fourteen academic departments with a strong emphasis on scientific and technological education and research.

About the Department

The Department of Computer Science & Engineering was established in 1989, initially offering a B.Tech. in Computer Engineering with an intake of 20 students. Over the years, it has grown into a center of excellence, offering B.Tech. in Computer Science and Engineering, M.Tech. in Computer Science and Engineering, M.Tech. in Artificial Intelligence, and Ph.D. in Computer Science and Engineering. Our curriculum emphasizes design principles, system software development, Artificial Intelligence, Machine Learning, Blockchain, Cybersecurity, and Data Science, ensuring students are well-prepared for emerging technological challenges.

About the Program

This program offers a comprehensive introduction to blockchain technology with a focused exploration of the Ethereum ecosystem. Designed specifically for educators, it covers foundational concepts such as wallets, smart contracts, and tokens, along with hands-on training in Solidity and decentralized application (DApp) development. Participants will gain practical experience in deploying smart contracts, interacting with Ethereum clients, and exploring advanced topics like DAOs, Layer 2 solutions, and zero-knowledge proofs. By equipping faculty with in-demand technical skills and pedagogical insight, the program enables effective integration of blockchain technologies into academic curricula and research.

Resource Persons

Experts from the Kerala Blockchain Academy will deliver the session, offering in-depth insights into cutting-edge developments in blockchain technology. The session will emphasize academic significance, research opportunities, and cross-disciplinary applications, and will also feature a hands-on practical demonstration to provide participants with real-world exposure to Blockchain implementation.

Program Outcome

By the end of the Ethereum Developer Program, participants will:

- Gain a strong understanding of the Ethereum blockchain, smart contracts, and decentralized applications (DApps).
- Acquire practical skills in Solidity programming and deploying smart contracts on the Ethereum network.
- Develop DApps, including contract design, implementation, and deployment, along with user interface development.
- Explore advanced Ethereum concepts such as DAO, Layer 2 solutions, zero-knowledge proofs, and private network deployments.
- Understand token standards like ERC-20 and ERC-721 and their applications in real-world scenarios.
- Be equipped to integrate blockchain technologies into academic research and curricula.
- Receive blockchain-powered certification upon successful completion of the program.

Organising Committee

Chief Patron

Prof. Prateek Sharma
Vice Chancellor, DTU

Patron

Prof. Manoj Kumar
HoD, CSE, DTU

Convenor

Prof. Shailender Kumar
Associate HoD, CSE, DTU

Prof. Vinod Kumar
Professor, CSE, DTU

Dr. R.K Yadav
Associate Professor, CSE, DTU

Coordinator

Dr. Sanjay Kumar
Assistant Professor, CSE, DTU

Dr. Rajeev Kumar
Assistant Professor, CSE, DTU

Ms. Anukriti Kaushal
Assistant Professor, CSE, DTU

Co-Coordinator

Dr. Rahul Kumar
Assistant Professor, CSE, DTU

Dr. Piyush Rawat
Assistant Professor, CSE, DTU

Dr. Bhawana
Assistant Professor, CSE, DTU

Registration Details

- There are no registration fees for attending the FDP/STC.
- Selection will be based on first-come-first-serve basis.
- The certificates shall be issued to those participants who have attended the program with a minimum 80% attendance.

Link for Registration:

https://forms.gle/jTU5smn88fvCpAeG7

For any query, please contact:
anukritikaushal@dtu.ac.in