



CEMCA

SOFOCLE Labs



AMITY
UNIVERSITY

Commonwealth Educational Media Centre for Asia (CEMCA)

in collaboration with

**Sofocle Labs
&
Amity University**

presents

BLOCKCHAIN INTRODUCTION FOR DEVELOPERS

ABOUT BLOCKCHAIN

A blockchain is a permanent, sequential list of transaction records distributed over a network. Each block in the chain contains a hash of the previous block, along with a timestamp and transaction data. This makes the blockchain inherently resistant to attack or manipulation.

Blockchain technology is ideal for recording various types of transactions where data is sensitive or targeted by hackers for unauthorized duplication or other fraudulent activity. Bitcoin and other cryptocurrencies use blockchain technology to record transactions. Blockchain for business applications can include recording of contracts, medical records, monetary transactions and much more.

ABOUT THE COURSE

- **Course start date - 18th May 2021**
- **Course End date - 18th June 2021**
- **Minimum %age for certification - 75%**
- **Number of modules - 4**
- **Total number of hours – 12**

| Module | Topic |
|--------|---|
| 1 | Databases to Web to Blockchain - (Historic journey to where we are today) |
| | Blockchain & its Impact |
| | Cryptography & Blockchain Concepts |
| 2 | Distributed Ledgers & P2P Networks |
| | Use Cases & Applications |
| | Decentralization |
| 3 | Understanding Immutability & Consensus Mechanisms |
| | Blockchain Classifications |
| | Smart Contracts & Logic Tier |
| 4 | Wallets, Currencies & Token-economics |
| | Other Blockchain Development Networks |
| | Multilayer, Middleware and Design |
| | d-Governance: Impact of Blockchain |

HIGHLIGHTS

1. The course has 4 modules and each module has an assessment at the end of the module
2. The minimum %age for each assessment is to be 75% for students to go to next module
3. There is a cooling period of 12 hours between two modules. That is, once a module is complete, the next will be available after 12 hours.
4. The entire course has to be completed within one month: i.e. between 18th May to 18th June
5. A qualification certificate is issued to all students who secure 75% or above in all modules and complete the same in one month. The certificate is issued jointly by Commonwealth Education Media Centre for Asia, Sofocle Labs and Amity.

PARTICIPANTS

This course is open to All. Students from MBA, Commerce, Science and Economic background can attend too.

FEES

- The course is on MOOC (Massive Open Online Course)
- No fees will be charged

PEDAGOGY

- Lectures
- Presentation
- Case Study
- Assignment
- Assessment

REGISTRATION

To register, Please go to

https://app.sofoclelabs.com/home/sign_up

POINT-OF-CONTACT

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| Sofocle Labs | Mr. Jeevan Saini  jeeven.saini@sofocle.com  +91-8527165552 |
| Amity University | Dr. Himdweep Khurana  hkhurana@amity.edu  +91-9818225262 |

ORGANIZING CHAIR



Prof. (Dr.) Ajay Rana
Sr. Vice President – RBEF (Trust of Amity)
Chairman – AUN Research Labs
Dean – Amity University

Dr. Ajay is an Educationalist, a Teacher by heart, an Innovator, Strategist and a Committed Philanthropist with deep organizational Ethics, Equality and holding hands of every individual who wish to succeed in life as the core of his life philosophy. His areas of interests include Machine Learning, Internet of Things, Augmented Reality, Software Engineering and Soft Computing. He has 60 patents under his name and has published more than 271 Research Papers in reputed Journals like ACM, Springer, Elsevier, Taylor and Francis. He has co-authored 08 books and co-edited 36 conference proceedings. He is Member of the Consultative Group NEP 2020 CBSE (Ministry of Education, GOI). He is also the Director of Rathan Assest Management Co. Pvt. Ltd. (Rajasthan).

RESOURCE PERSONS



Jeeven Saini
Sofocle Labs

Jeeven is an Intrapreneur & Entrepreneur with 30+ years of experience in global IT organizations & Banks across the world. His experience includes setting up technology delivery units, delivering TCO reduction, delivering innovative business solutions, managing technology risk & security and large transformational programs for global IT organizations and Banks across India, APAC, Middle-East, Europe and North America. He is a leader with more than 4000 hours of global experience in mentoring, coaching and training covering more than 1000 professionals at different levels. Currently he is co-founder and CEO of SofocleLabs, a Blockchain EdTech company engaged in building robust end-to-end Blockchain Ecosystem.



Ghan Vashishtha
Sofocle Labs

Ghan is technology enthusiast and inventive speaker on Blockchain, IOT, AI/ML with more than a decade of expertise in niche industry sets including Telecommunication, Defense & Aerospace and Media & Broadcasting. Exploring futuristic technology trends and innovating Blockchain platforms for supply chains, Fintech and Energy segments intriguing IoT, Big Data & AI/ML. In the past, he has played an Integral role in migration to VOIP when twisted pairs ruled the world. Led game changing, futuristic & combat ready solutions for the international Defense market. Currently he is co-founder and CTO of Zeeve, A DevOps platform company for Blockchain Applications.

COORDINATOR



Mr. Saurabh Mishra
CEMCA

Saurabh carries a blended mix of decade long project management experience in Education, Skill and IT sector. He is presently working with Commonwealth of Learning as Programme Officer whereas his past experience are in behemoths like Ministry of Skill Development, Keane International and Subex. He comes from a background of computer science graduate from VTU, Belgaum and MBA from IIT Kharagpur.



Dr. Himdweep Khurana
Amity University

Dr. Himdweep is having 15 years of experience in academics. Her areas of interest include Artificial Intelligence, Natural Language Processing, Internet of Things Blockchain. She has published 02 book chapters and 20 research papers in reputed Journals like Springer, Elsevier, Taylor and Francis. She is Member of ACM And IEE. Additionally she is also handling industry-academic alliance and has been managing accounts with TCS iON, ZTE and Sofocle Technologies.

ABOUT THE ORGANIZATIONS

Commonwealth Education Media Centre for Asia (CEMCA)

The Commonwealth Educational Media Centre for Asia (CEMCA) was established by Commonwealth of Learning (COL) in response to needs expressed by the Commonwealth countries of the Asian region for a more effective utilization of educational media resources for Distance Education. The Vision of CEMCA is to be the foremost agency in Commonwealth Asia that promotes media enabled learning for development and the Mission is to assist governments and institutions to expand the scale, efficiency, and quality of learning by using multiple media in open, distance and technology-enhanced learning.

Amity University

Amity University, Noida (also known as Amity University Uttar Pradesh) is a private research university located in Noida, India. It was established in 2005 by an Act of the State Legislature of Uttar Pradesh. The University is recognized by University Grants Commission and accredited by the NAAC with grade 'A+'. Amity University offers programs on campus and through distance mode, in a number of fields of study at undergraduate, postgraduate, and doctoral levels. It has campuses in India and overseas branch campuses in London, Dubai, Singapore and New York.

Sofocle Labs

Sofocle Labs offer the way for universities and colleges to setup innovation hub for inculcating the culture of innovation in harnessing the power of emerging technologies like Blockchain. This is done by integrating content into University degree course curriculum or elective courses. Our course has been designed using analytical and hands-on approach to Blockchain, so as to enable the budding engineers to become proficient Blockchain engineers and architects of tomorrow. Many more such initiatives is the need of the hour to create a better Blockchain ecosystem and be at the forefront of industry 4.0.

