Alva's Institute of Engineering & Technology
Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Inter-Department Level Workshop on Blockchain Technologies

Organized by,

Department of Computer Science and Engineering

In association with

EMURGO Academics

www.emurgo.in

27th Sep to 4th Oct 2019

Conducted for All Internal Participants from Various Departments,

Workshop Coordinator
Mr. Sushant Mangasuli

2019-20 ODD

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Eight days National Level Workshop on
"Blockchain Technologies"

WORKSHOP BRIEF REPORT

Alva's Institute of Engineering and Technology conducted a **two days** National Level Workshop on "**Blockchain Technologies**" for **for all external participants from various Departments,** organized by Department of Computer Science and Engineering in Association with EMURGO Academics on **27th Sep to 4th Oct 2019**.The workshop was inaugurated by the Principal Dr. Peter Fernandes, AIET, Dr. Praveen J Dean (Aca), Prof. Manjunath Kothari, H.O.D, Dept. CSE and all The HODs of various departments and all staff members and student volunteers were also present during the inauguration function and also total **52 participants** had been attended in this workshop.

Why EMURGO?

- EMURGO Global is the official commercial and venture arm of the Cardano project, registered in Tokyo since June 2017 and in Singapore since May 2018. Being a pioneer in the space of Blockchain, EMURGO enables pragmatic solutions by leveraging "3rd Generation Blockchain Technology- Cardano". We work closely in a unique affiliation with IOHK, to promote Cardano's adoption and growth of its ecosystem, globally by building, investing, and advising projects and organizations that adopt Cardano's decentralized blockchain ecosystem. With a strong presence in Singapore, New York, and Indonesia; we have now recently set foot in India.
- EMURGO Academy is a Global Blockchain Learning Solutions entity of EMURGO Global established in Jan 2019 to focus on incubation, Training and evangelising Blockchain to foster deep fundamental understanding of blockchain technology and thus establish an education program to drive practical usage of blockchain technology around the globe.
- Education and Training have always been the most important tools for transformation and empowerment. EMURGO Academy will skill students, developers, industries & institutions

to create blockchain experts, drive the adoption of blockchain ecosystem globally and bridge the gap in demand for skilled Blockchain developers.

Workshop Overview

Introduction to Blockchain

- What is a Blockchain?
- Blockchain Implementations
- Blockchain Instances
- Public Blockchain as Tricameral Systems
- Immutable Ledger
- Understanding SHA256
- P2P Network
- The Nonce
- Byzantine Fault Tolerance
- Consensus Protocol (Defense against Attackers)
- Creating a Blockchain

Cryptography

- Hashing Functions
- Merkle Trees
- Asymmetric Cryptography

Cryptocurrency

- What is Bitcoin?
- Bitcoin's Monetary Policy
- Mining Pools
- Orphaned Blocks

Smart Contract

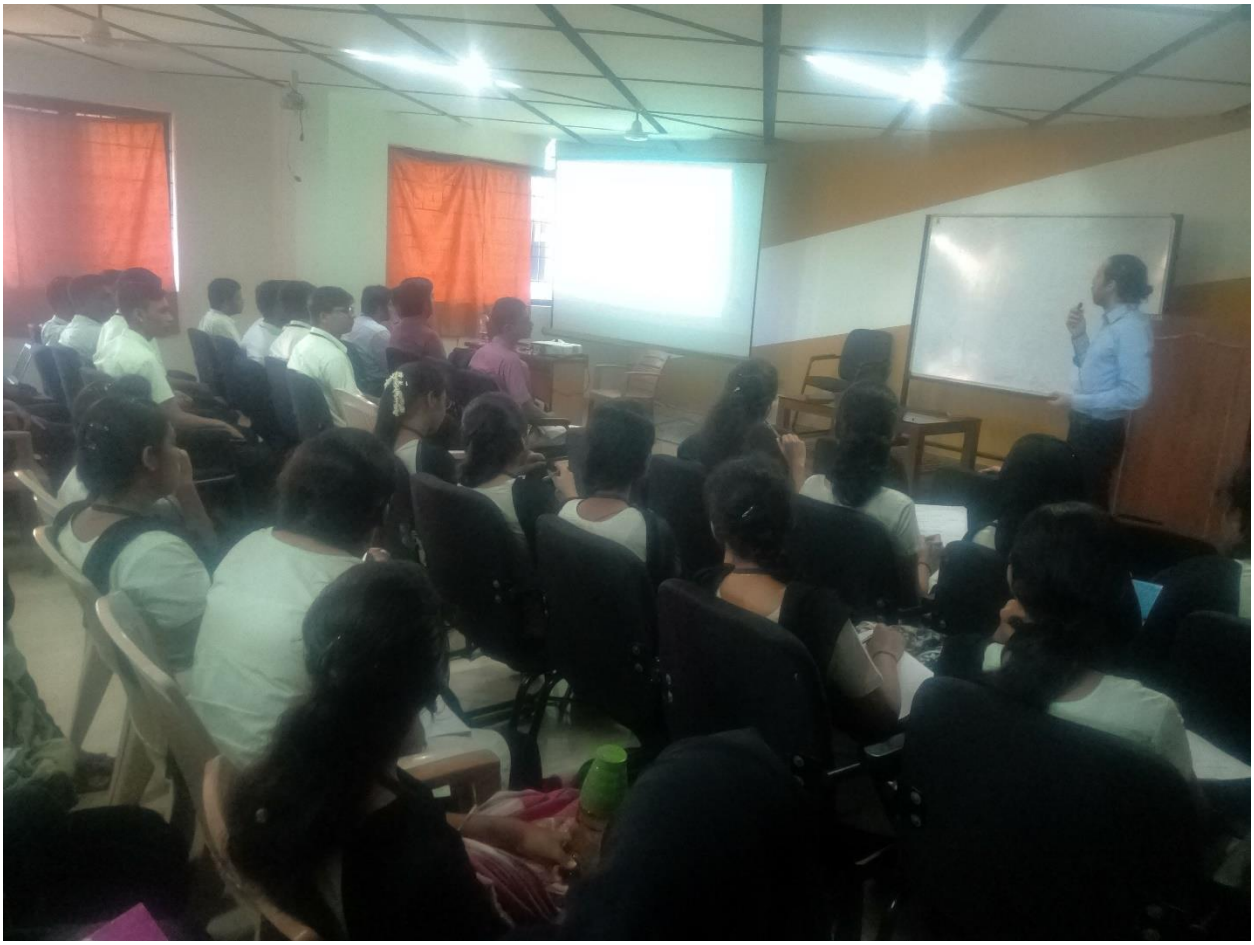
- What is Smart Contract?
- Decentralized Applications
- Decentralized Autonomous Organizations
- The DAO Attack

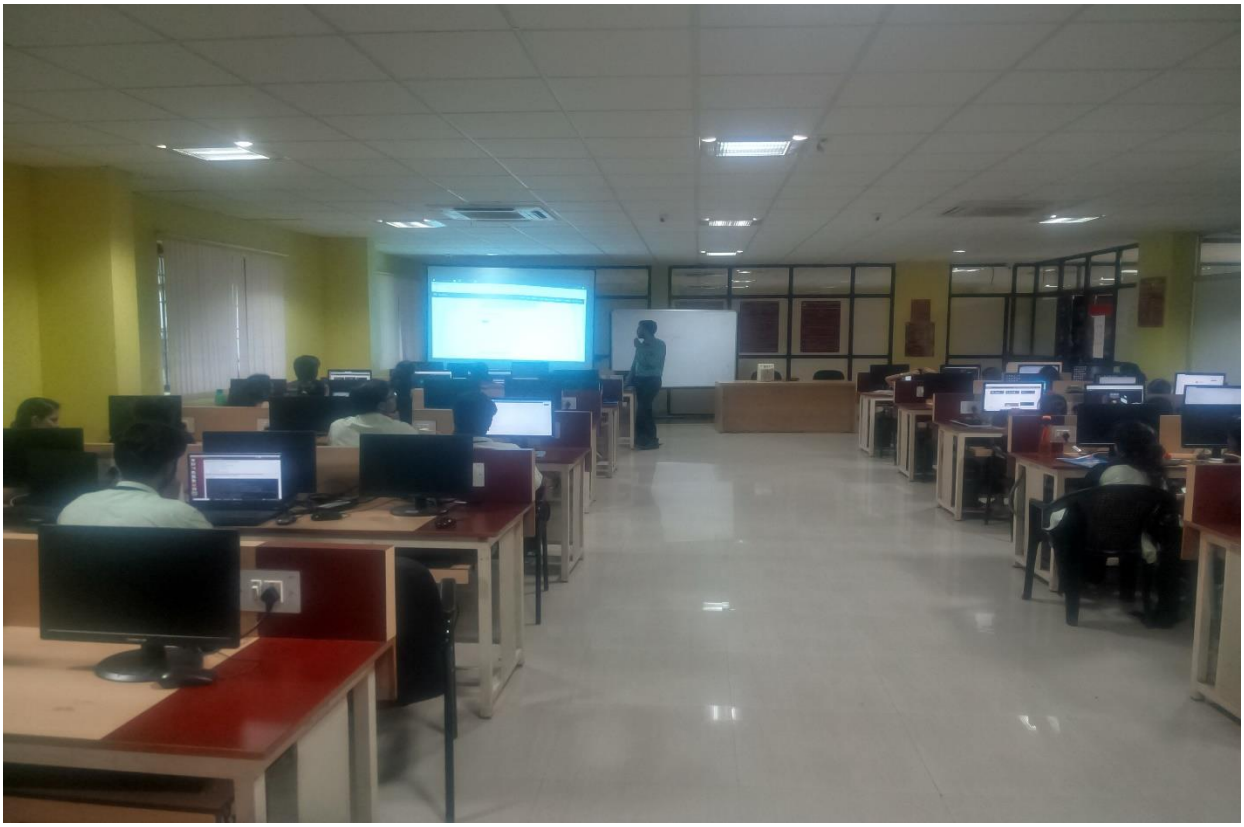
Resource Person :	**Convener:**	**Workshop coordinator:**
Mr. Sudeep Sagar	Prof. Manjunath Kothari	Mr Sushant Mangasuli
EMURGO Academics	H.O.D Department of CSE	Assistant Professor
sudeepjc@gmail.com		Department of CSE
Bharath.mallapur@emurgo.com		

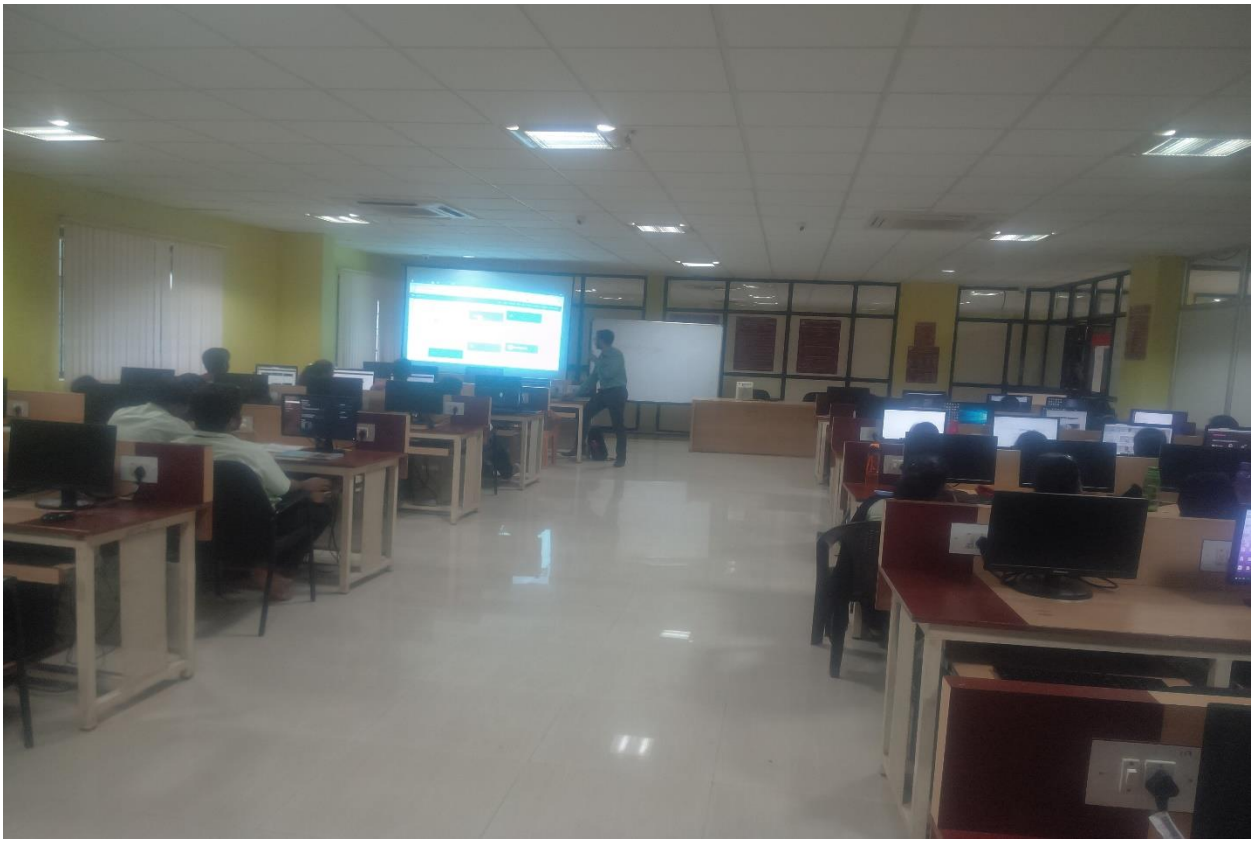
Venue: Research Lab and Network lab, Main Building, AIET, Mijar

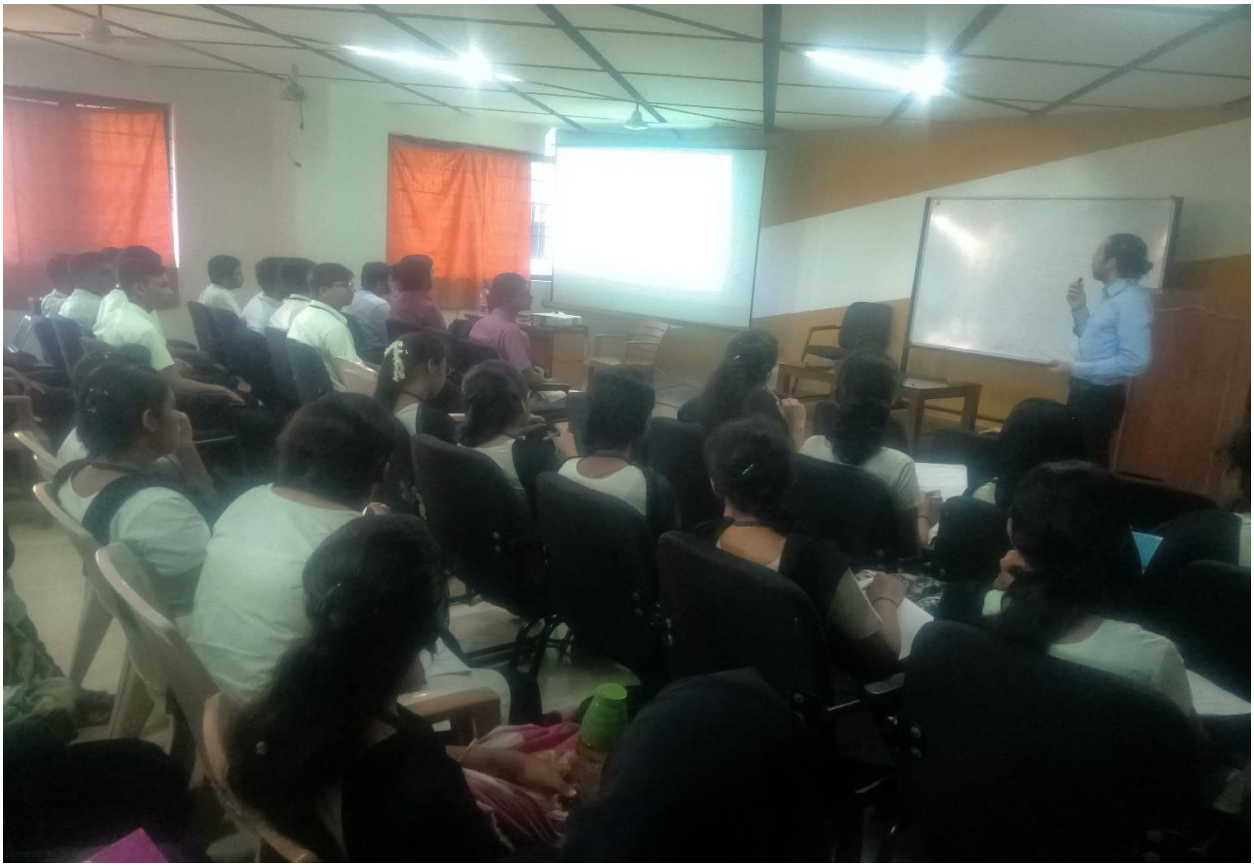
Workshop goals:

- Getting the participants familiar with the blockchain technology and understanding what makes it revolutionary.
- After the workshop, participants should be able recognize the advantages of the blockchain technology as well as its limitations.
- Besides that, they should be able to roughly asses how the blockchain technology might be implemented in their company/organization, what benefits it would bring, what challenges would arise and what resources would be needed for the implementation.









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List of Students Participated in Workshop

III SEM -CSE-A- Section

S. No	USN	Name
1.	4AL18CS001	Abhishek Joshi
2.	4AL18CS002	Abhishek S Harsoorkar
3.	4AL18CS004	Akash S
4.	4AL18CS011	Archana J C
5.	4AL18CS012	Ashish Gracion Menezes
6.	4AL18CS016	Chandana S
7.	4AL18CS017	C K Chethan
8.	4AL18CS020	D Richard Franklin
9.	4AL18CS021	Felina Simon Menezes
10.	4AL18CS022	Felomina Jancy
11.	4AL18CS023	Gudugunti Anirudh
12.	4AL18CS024	Hanan Saleem Baji
13.	4AL18CS025	Hymha N Raj
14.	4AL18CS029	Jasline Sharon Tauro
15.	4AL18CS030	Jyothi B R
16.	4AL18CS031	K Isha Hegde
17.	4AL18CS034	Karthik S
18.	4AL18CS037	Khatheeja Safreena
19.	4AL18CS039	Krishnitha
20.	4AL18CS041	Lavanya D M
21.	4AL18CS046	M R Jeevan
22.	4AL18CS049	Mohammed Mukarram
23.	4AL18CS052	Nihal Rafiq
24.	4AL18CS040	Lanson
25.	4AL18CS032	Prajwal K S
26.	4AL18CS033	Karthik H B
27.	4AL18CS047	Venkataramana chari

III SEM -CSE-B- Section

Sl.No.	USN	Name
1.	4AL18CS059	Pramod R

2.	4AL18CS065	Rachana B S
3.	4AL18CS075	Sanjana
4.	4AL18CS077	Shailashree
5.	4AL18CS078	Shiza Amreen J
6.	4AL18CS079	Shraddha Acharya
7.	4AL18CS084	Sneha G
8.	4AL18CS085	Sneha H R
9.	4AL18CS089	Sujana
10.	4AL18CS090	Sujaya
11.	4AL18CS091	Swathi B C
12.	4AL18CS093	Tushit Shukla
13.	4AL18CS094	V Anjana Pai
14.	4AL18CS095	Vandana
15.	4AL18CS096	Vanishree Binjadagi

V SEM -CSE-A- Section

Sl.No.	USN	Name
1.	4AL16CS078	Harshith S

V SEM -CSE-B- Section

Sl.No.	USN	Name
1.	4AL17CS087	Shetty Disha Ravindra
2.	4AL17CS103	Sushmitha B Poojary
3.	4AL17CS106	Varshitha

VII SEM -CSE-A- Section

Sl.No.	USN	Name
1.	4AL16CS079	S K Rahul

ISE branch 3rd sem

Sl.No.	USN	Name
1.	4AL18IS014	Naveen
2.	4AL18IS004	Ashmitha
3.	4AL18IS021	Sachin

ECE branch

Sl.No.	USN	Name
1.	4AL16EC061	Safiya 7th sem B
2.	4AL17EC068	Pavithran 5th sem B

End of the session collected oral feedback from the Resource person and also from participants for the better enhancement of training programs in future.

FEEDBACK ANALYSIS

TOTAL FEEDBACK FORMS RECEIVED: 52

Major Comments/suggestions received from participants:

- Students learnt new concepts of blockchain technology.
- Need more practical sessions.
- Need practical sessions regarding design and development of algorithms.

Co-ordinator
[Mr. Sushant Mangasuli]

H.O.D
[Dr. Manjunath Kothari]