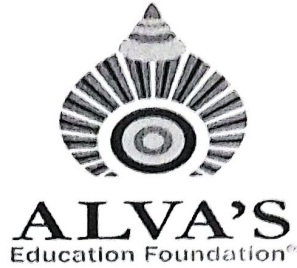


**ALVA'S INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

Shobhavana Campus, Mijar – 574225, Moodbidri.

Dakshina Kannada Karnataka, India.



Department of Computer Science and Engineering

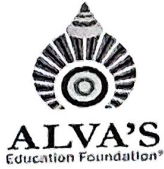
CERTIFICATION COURSE

on

“Block Chain Technologies”

ACADEMIC YEAR

2019-2020



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

Phone: 08258-262725 Fax: 08258-262726

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Ref No: AIET/CS/CC/2019-2020/001

Date: 5/09/2019

Place: AIET, Moodbidri.

APPROVAL LETTER

To,

The Principal,
AIET, Moodbidri

Respected Sir,

Sub: - Approval for Organizing the Students Certification/Training Program on
"Block Chain Technologies"-Reg.

With reference to the subject cited above, I would like to bring to your kind notice that, the Department is planning to host a Student Training Program/certification course on "**Block Chain Technologies**" from "**27th September 2019 to 04th October 2019**".

Kindly consider the above request and approve the same for further proceedings.

Thanking you Sir.


Coordinator:

Mr. Venkatesh Bhat


Head of the Department:

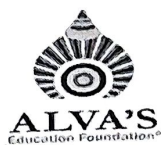
Dr. Manjunath Kotari
H. O. D.

Dept. Of Computer Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225


Principal:

PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

Phone: 08258-262725 Fax: 08258-262726

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Dated 24/09/2019

CIRCULAR

The Certification course/ Workshop on **Block Chain Technologies** in Association with **EMURGO Academics, Bengaluru**, will be conducting from **27th September 2019 to 4th October 2019** in **Network Lab**, Main Block, AIET, Mijar. All registered students are hereby informed to attend and actively participate in the course.

(HOD)
H. O. D.

Dept. Of Computer Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

Resource Person

Mr. Sudeep Sagar

EMURGO Academics

Bharath.mallapur@emurgo.com

Convener:

Prof. Manjunath Kothari

H.O.D Department of CSE

Coordinators:

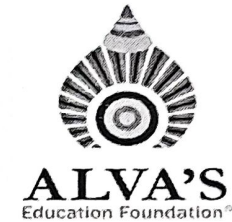
1. **Prof. Venkatesh Bhat, CSE, BMSCE**
Mob: 9449954834
Email id: venkateshbhat2007@gmail.com
2. **Mr. Sushanth Mangasuli**
Mob: 9742164671
Email id: sushantm04@gmail.com

ABOUT THE INSTITUTION

Alva's Education Foundation (AEF) established in 1995 with the vision of our Chairman Dr. M. Mohan Alva has succeeded in making Moodbidri, an Educational hub in the South Canara Region, with more than 25000 students pursuing various courses ranging from primary school to post-graduate courses in social sciences, pure sciences, engineering and management. There are 21 institutions functioning under the Alva's Education Foundation.

Alva's Institute of Engineering and Technology, Moodbidri is a Premier Engineering Institute of Alva's Education Foundation, established in the year 2008. The college is certified to the ISO 9001: 2008 standards. The institute offers top quality education in five under graduate programs in Engineering- Computer Science, Civil, Electronics & Communications, Information Science, and Mechanical Engineering- Three Post Graduate programs- Master of Technology in Thermal Power Engineering, Computer Science & Engineering, VLSI Design Embedded System and Master of Business Administration.

**Alva's Institute of Engineering
and Technology, Moodbidri**



**8 days Certification
course/Workshop on**

"Blockchain Technology"

From 27th Sep to 4th Oct 2019

Organized by

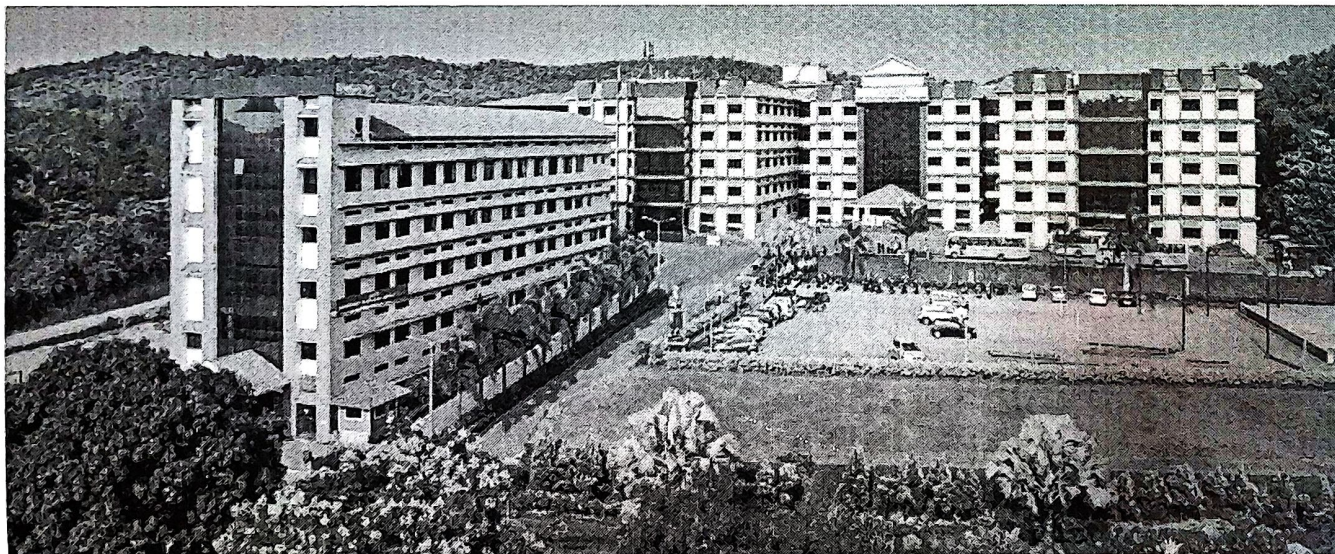
Department of Computer Science and Engineering

In Association with

Emurgo Academics



Venue: Network lab, Main Building, AIET, Mijar



ABOUT CSE DEPARTMENT

The Department was started in the year 2008 with an intake of 60 for the undergraduate program. The program has become popular among students due to the achievements and rigor. The department has well-equipped classrooms and computer laboratories with high-end systems as per the AICTE norms. The department is affiliated to Visvesvaraya Technological University (VTU).

The Department carries out various Industry-Institute interaction events for the benefit of the students. The Department conducts various Seminars and Technical talks in collaboration with various Companies also. Faculty members are of many Professional societies like IEEE, ISTE, etc. With an objective of developing core competence in the respective subject specializations and for learning newer technologies, the Department has formed the various Technical divisions.

COURSE CONTENT

Introduction to Blockchain
Understanding SHA256
Defense against Attackers
Creating a Blockchain
Cryptography
Cryptocurrency
Smart Contract

PROGRAM SCHEDULE

27-September- 2019

Inauguration: 09:30 am to 10:00 am
Keynote Address: 10:00 am to 11:00 am
Tea Break: 11:00 am to 11:15 am
Session 1: 11:15 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 2: 02:00 pm to 05:00 pm

28-September- 2019

Session 3: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 4: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 5: 02:00 pm to 05:00 pm

29-September- 2019

Session 6: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 7: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 8: 02:00 pm to 05:00 pm

30-September- 2019

Session 9: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 10: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 11: 02:00 pm to 05:00 pm

01-October- 2019

Session 12: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 13: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 14: 02:00 pm to 05:00 pm

02-October- 2019

Session 15: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 16: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 17: 02:00 pm to 05:00 pm

03-October- 2019

Session 18: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 19: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 20: 02:00 pm to 05:00 pm

04-October- 2019

Session 21: 09:00 am to 11:00 am
Tea Break: 11:00 am to 11:20 am
Session 22: 11:20 am to 01:00 pm
Lunch Break: 01:00 pm to 02:00 pm
Session 23: 02:00 pm to 05:00 pm

Workshop on Blockchain Technology 27th Sep to 4th Oct 2019

III SEM -CSE-A- Section

S. No	USN	Name	27/9	27/9	28/9	28/9	29/9	29/9	30/9	30/9	1/10	1/10	2/10	3/10	3/10	4/10	4/10
1.	4AL18CS001	Abhishek Joshi	1	2	3	4	5	6	7	8	8	9	A	10	11	12	13
2.	4AL18CS002	Abhishek S Harsoorkar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3.	4AL18CS004	Akash S	1	2	3	4	5	6	7	8	9	10	A	11	12	13	14
4.	4AL18CS005	Ambika V	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
5.	4AL18CS011	Archana J C	1	2	3	4	5	A	6	7	8	9	A	10	11	12	13
6.	4AL18CS012	Ashish Gracion Menezes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
7.	4AL18CS016	Chandana S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
8.	4AL18CS017	C K Chethan	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
9.	4AL18CS020	D Richard Franklin	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10.	4AL18CS021	Felina Simon Menezes	1	2	3	4	A	A	7	8	9	10	11	12	13	14	15
11.	4AL18CS022	Felomina Jancy	1	A	2	3	A	A	7	8	9	10	11	12	13	14	15
12.	4AL18CS023	Gudugunti Anirudh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
13.	4AL18CS024	Hanan Saleem Baji	1	A	2	3	4	5	6	7	8	9	10	11	12	13	14
14.	4AL18CS025	Hymha N Raj	A	A	1	2	3	A	4	5	6	7	A	8	9	10	11
15.	4AL18CS029	Jasline Sharon Tauro	1	2	A	A	3	4	5	6	7	8	9	10	11	12	13
16.	4AL18CS030	Jyothi B R	A	A	1	2	3	4	5	6	7	8	A	9	10	11	12
17.	4AL18CS031	K Isha Hegde	1	2	3	A	4	5	6	7	8	9	10	11	12	13	14
18.	4AL18CS034	Karthik S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
19.	4AL18CS037	Khatheerja Safreena	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
20.	4AL18CS039	Krishnitha	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
21.	4AL18CS041	Lavanya D M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

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		27/9	27/9	28/9	28/9	29/9	29/9	29/9	30/9	1/10	1/10	2/10	2/10	3/10	4/10	4/10
22.	4AL18CS046	M R Jeevan	1	2	3	4	5	6	7	8	9	10	11	12	13	14
23.	4AL18CS049	Mohammed Mukarram	A	A	A	A	A	A	1	2	3	4	5	6	7	8
24.	4AL18CS052	Nihal Rafiq	1	2	3	4	5	6	7	8	9	10	11	12	13	14
25.	4AL18CS040	Lanson	1	2	3	4	A	A	5	6	7	8	9	10	11	12
26.	4AL18CS032	Poojwal K S	1	2	3	4	5	6	7	8	9	10	A	11	12	13
27.	4AL18CS033	Karthik H B	1	2	3	4	5	A	6	7	8	9	A	10	11	12
28.	4AL18CS047	Venkataramana Chari	1	2	3	4	5	6	7	8	9	10	A	11	12	13
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30.																

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H.O.D.
Dept. Of Computer Science & Engineering
Alva's Institute of Engineering & Technology
Mijar, MOODBIDRI - 574 225

Workshop on Blockchain Technology 27th Sep to 4th Oct 2019

III SEM -CSE-B- Section

Sl.No.	USN	Name	27/9	27/9	28/9	28/9	29/9	29/9	30/9	30/9	1/10	1/10	2/10	2/10	3/10	4/10	4/10
1.	4AL18CS057	Prajwal			A		A	A	A								
2.	4AL18CS059	Pramod R	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3.	4AL18CS065	Rachana B S	A	A	1	2	3	4	5	6	7	8	A	9	10	11	12
4.	4AL18CS075	Sanjana	1	2	3	4	5	A	6	7	8	9	10	11	12	13	14
5.	4AL18CS077	Shailashree	A	A	(A)	1	A	A	2	3	4	5	6	7	8	9	10
6.	4AL18CS078	Shiza Amreen J	A	A	1	2	A	A	3	4	5	6	A	7	8	9	10
7.	4AL18CS079	Shraddha Acharya	1	2	3	4	A	A	5	6	7	8	9	10	11	12	13
8.	4AL18CS084	Sneha G	A	A	A	1	2	3	4	5	6	7	A	8	9	10	11
9.	4AL18CS085	Sneha H R	A	A	(A)	1	2	3	4	5	6	7	A	8	9	10	11
10.	4AL18CS089	Sujana	1	2	(A)	1	2	A	3	4	5	6	7	8	9	10	11
11.	4AL18CS090	Sujaya	1	2	(A)	1	2	A	3	4	5	6	7	8	9	10	11
12.	4AL18CS091	Swathi B C	A	A	(A)	1	2	3	4	5	6	7	A	8	9	10	11
13.	4AL18CS093	Tushit Shukla	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
14.	4AL18CS094	V Anjana Pai	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
15.	4AL18CS095	Vandana	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16.	4AL18CS096	Vanishree Binjadagi	A	A	1	2	3	4	5	6	7	8	9	10	11	12	13
17.																	
18.																	
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Workshop on Blockchain Technology 27th Sep to 4th Oct 2019

V SEM -CSE-A- Section

Sl.No.	USN	Name	27/9	27/9	28/9	28/9	29/9	29/9	30/9	30/9	1/10	1/10	2/10	2/10	3/10	4/10	4/10	
1.	4AL16CS078	Harshith S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
2.																		
3.																		
4.																		
5.																		

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Alex
H.C.D.
Dept. Of Computer Science & Engineering
Mijar, MOODBIDRI - 574225

Workshop on Blockchain Technology 27th Sep to 4th Oct 2019

V SEM -CSE-B- Section

Sl.No.	USN	Name	27/9	27/9	28/9	28/9	29/9	29/9	30/9	30/9	1/10	1/10	2/10	3/10	3/10	4/10	4/10
1.	4AL17CS087	Shetty Disha Ravindra	1	2	A	A	A	A	A	A	3	2	5	6	7	8	9
2.	4AL17CS103	Sushmitha B Poojary	1	2	A	A	A	A	A	A	3	2	5	6	7	8	9
3.	4AL17CS106	Varshitha	1	2	A	A	A	A	A	A	3	2	5	6	7	8	9
4.																	
5.																	

18

Deep
H.O.D.
Dept. of Computer Engineering & Engineering
Alva's Institute of Engineering & Technology
Mijar, Moodbidri, D.K - 574225

Workshop on Blockchain Technology 27th Sep to 4th Oct 2019

VII SEM -CSE-A- Section

Sl.No.	USN	Name	27/9	27/9	28/9	28/9	29/9	29/9	30/9	30/9	1/10	1/10	2/10	3/10	3/10	4/10	4/10	
1.	4AL16CS079	S K Rahul	A	A	A	A	A	A	1	2	3	4	5	6	7	8	9	
2.																		
3.																		
4.																		
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M.O.D.
Dept. of Computer Engineering
Alva's Institute of Engineering & Technology
Mijar, Moodbidri, D.K - 574225



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

Phone: 08258-262725 Fax: 08258-262726

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MCQ QUIZ ON "BLOCK CHAIN TECHNOLOGY"

1. Which of the following is popularly used for storing bitcoins?
 - a) Pocket
 - b) Wallet
 - c) Box
 - d) Stack
2. Which site run by Ross Ulbricht was closed by the FBI for letting people buy drugs with Bitcoin?
 - a) Silk Road
 - b) Lace Place
 - c) Silk Street
 - d) Dark Alley
3. Which of these US states introduced the BitLicense regulation for cryptocurrency companies?
 - a) New York
 - b) California
 - c) Texas
 - d) Washington
4. Cryptographic Hash Function transforms an arbitrary length of a fixed length string that act more or less as a Fingerprint of the document
 - a) True
 - b) False
5. What is the name of the famous Bitcoin exchange from Japan that collapsed in 2014?
 - a) Blockchain.info
 - b) Tradehill
 - c) Mt. Gox



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- d) Bitstamp
- 6. What does the block in the blockchain consist of?
 - a) Transaction data
 - b) A Hash point
 - c) A Timestamp
 - d) All of these
- 7. After 10 Minutes a new block is formed that contains latest transactions
 - a) True
 - b) False
- 8. A bitcoin address collision happens when 2 different payments are made at the same time to the same bitcoin address
 - a) True
 - b) False
- 9. What is not a ledger type considered by users in Blockchain?
 - a) Distributed Ledger
 - b) Decentralized Ledger
 - c) Both a and b
 - d) None of these
- 10. What is the impact of information leak for an organization?
 - a) Loss in profit
 - b) Loss of trust in costumers
 - c) Cut down the reputation of the organization
 - d) All of these
- 11. What time did Bitcoin Network Start?
 - a) January 2009
 - b) September 2001



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- c) November 2008
12. How many new Bitcoins are created every day?
- a) 2200 Except of leap year
 - b) 3600
 - c) 7200
 - d) 5000
13. What is the initial application for which Blockchain was designed?
- a) Peer-to-peer finance application
 - b) Research Project
 - c) Open source finance software to connect Banks
 - d) None of these
14. An orphan block is only created when 51% attack is successful
- a) True
 - b) False
15. Where is the bitcoin central server located?
- a) Washington DC
 - b) Undisclosed Location
 - c) London
 - d) None of these
16. What does a ledger in blockchain does?
- a) Mapping between owner and object
 - b) Identification of objects owned
 - c) Identification of owners
17. First step of Blockchain project implementation is?
- a) Requirement identification



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- b) Feasible study on the security
 - c) Controlling and monitoring the project
 - d) Screen idea consideration
18. What is the name of the first academic paper that describes bitcoin commonly referred to as?
- a) The origins of money
 - b) The Bitcoin Whitepaper
 - c) The great unrevealing
19. Which of the following is important for Blockchain
- a) Database Security
 - b) Auditing
 - c) Planning
20. How often does Bitcoin ledger reconcile
- a) Every day
 - b) Every 3 months
 - c) Every 3 Minutes
 - d) Every 10 Minutes

Alva's Institute of Engineering & Technology, Moodbidri
Department of Computer Science & Engineering

Feed Back Form
EIGHT DAYS Workshop

On
"BLOCKCHAIN TECHNOLOGY"
27TH SEP TO 04 OCT 2019

Instructions to Participants:

Thank you for participating in this workshop. Please respond to ALL the questions below to help us to improve the curriculum, workshop materials, and the conduct of the workshops for better enhancements.

1=strongly disagree 2=Disagree 3=neither agree nor disagree 4=Agree 5=strongly agree,
N/A=Not applicable

NAME of the Participant:..... (Optional)

WORKSHOP CONTENT (Circle your response to each item.)

1. This workshop has satisfied my expectations. 1 2 3 4 5 N/A
2. The exercises have helped me to learn Applications of Blockchain. 1 2 3 4 5 N/A

WORKSHOP DESIGN (Circle your response to each item.)

1. The workshop activities have stimulated my learning interest and ability. 1 2 3 4 5 N/A
2. The activities in this workshop have given me sufficient practice and 100% hands-on training exercises. 1 2 3 4 5 N/A
3. Now I am able to design & develop an effective algorithm for data security. 1 2 3 4 5 N/A

WORKSHOP FACILITATOR (Circle your response to each item.)

1. The Resource Person has been well prepared. 1 2 3 4 5 N/A
2. The Resource person has been knowledgeable and has delivered the content intact. 1 2 3 4 5 N/A
3. The Resource person has covered all the topics under blockchain- Distributed Ledger Technology, crypto currency and Ethireum 1 2 3 4 5 N/A
4. Is workshop has been organized effectively? 1 2 3 4 5 N/A

REPORT ON

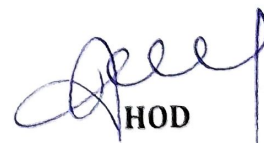
Block Chain Technologies

Department of Computer Science and Engineering, AIET, Mijar organized a **8 days Certification Course/Workshop** on "Blockchain Technologies" in Association with EMURGO Academics on **27th Sep to 4th Oct 2019**. The workshop/certification course 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 **47 participants** had been attended this certification course.



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


Coordinator


HOD

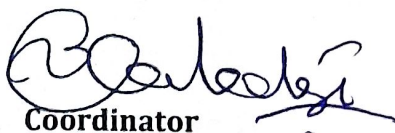
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Department of Computer Science & Engineering
Alva's Institute of Engineering & Technology
Mijar, MOODBIDRI - 574 225

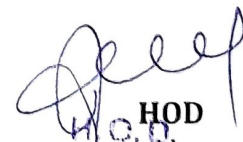
Technology- Cardano". We work closely in a unique affiliation with IOHK, to promote Cardano's adoption and growth of its ecosystem, globally by building, investing, and advising projects and organizations that adopt Cardano's decentralized blockchain ecosystem. With a strong presence in Singapore, New York, and Indonesia; we have now recently set foot in India.

Goal of the course was

- ◆ 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 block chain 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.




Coordinator


HOD

Dept. Of Computer Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Phone: 08258- 262725, Fax: 08258-262726

Department of Computer Science & Engineering

Summary Report of Add-on / Certificate program with its Outcomes

Academic Year : 2019-2020	Duration: 27 th Sep 2019 to 4 th Oct 2019
Title of the Course: Blockchain Technologies	
Resource Person: Mr. Sudeep Sagar, EMURGO Academics.	

Department of Computer Science and Engineering, AIET, Mijar organized a 8 days Certification Course/Workshop on “Blockchain Technologies” in Association with EMURGO Academics on 27th Sep to 4th Oct 2019. Mr. Sudeep Sagar, EMURGO Academics was the resource person for the session. He explained about the Basics of Block chain, Usage of SHA256 encryption techniques, Defense against the attacker, Creating block chains etc.

Totally 47 students of CSE department were benefited by the course were benefitted from this course and were able to

- Understand how blockchain systems (mainly Bitcoin and Ethereum) work,
- To securely interact with them,
- Design, build, and deploy smart contracts and distributed applications,
- Integrate ideas from blockchain technology into their own projects.



HOD
H. O. D.

Dept. Of Computer Science & Engineering
Alva's Institute of Engg. & Technology
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EIGALV001730919
ENROLLMENT No.

CERTIFICATE

COURSE COMPLETION

Foundations of Blockchain

This is to certify that Mr/Ms V ANJANA PAI has actively participated
in Ignitive Labs - Foundations of Blockchain
conducted by EMURGO Academy in Alva's Institute Of Engineering & Technology, Mangalore
from 27-Sep-19 to 04-Oct-19.

We wish the student a successful Blockchain career.


Head Academic Council



14 JAN 2020
Date

