FOUNDATIONS OF BOCKCHAIN



MALLAREDDY ENGINEERING COLLEGE

(Autonomous)

Maisammaguda(H), GundlapochampallyVillage,MedchalMandal, Medchal-MalkajgiriDistrict,Telangana State – 500100

CIRCULAR

Date: 10/03/2021

All the2nd/IIYear/Sem students are hereby informed that the MallaReddy Engineering College(Autonomous)is planning to organize Value Added Courses like IndusrialRobotics,Multimedia - 2D Basic Concepts, Green Matte Studio - Video Effects/Transitions, Different Technologies of Additive Manufacturing, PYTHON With DJANGO, Foundations Of Blockchain, Labviewin Centre Of Excellence.In this regard Interested students are hereby directed toregister for thisCourses in onlineon or before 15/03/2021. For further details, pleasecontact Centre of Excellence, MREC(A)

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1. All HOD's-for information & circulation among staff

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- 2. To be displayed in all notice board
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- 8. Security Officer-for necessary action
- 9. Transport Manager-for necessary action
- 10. TEQIP Coordinator & Academic Cell
- 11. Admin Office
- 12. System Admin
- 13. Placement Cell
- 14. PA to Principal for Filling

Principal
PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100

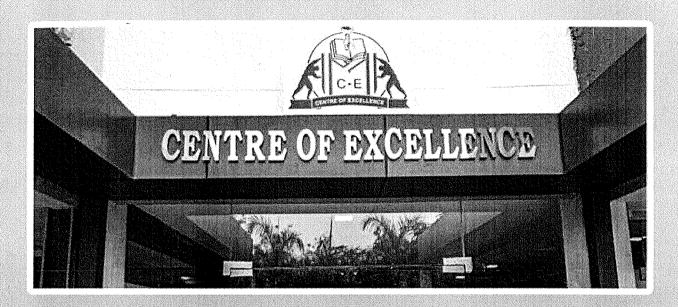
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MALLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS, AUTONOMOUS INSTITUTION

Maisammaguda, Dhulapally (Post) via Kompally, Secunderabad-500100Medchal - Malkajgiri District Telangana, India



COMPUTER SOFTWARE

HTML, PYTHON WITH DJANGO, JAVA, SCRATCH PROGRAMMING

LAB VIEW, FOUNDATION OF BLOCK CHAIN, MATLAB, BLOCK CHAIN REVOLUTION, MATLAB PRO, ADVANCE JAVA, ADVANCE PYTHON.



Before Software can be Reusable it First has to be Usable.



MALLA REDDY ENGINEERING COLLEGE (Autonomous)

CENTRE OF EXCELLENCE

Fundamentals of Blockchain Technology

Course Code: CFEC05

Duration:32Hours

Course Objective: Blockchain course coversIntroduction of Cryptography and Blockchain, BitCoin and Cryptocurrency, Introduction to Ethereum, Introduction to Hyperledger, Solidity Programming, Blockchain Applications

Syllabus

UNIT-I:

6Hours

Introduction of Cryptography and Blockchain:

What is Blockchain, Blockchain Technology Mechanisms & Networks, Blockchain Origins, Objective of Blockchain, Blockchain Challenges, Transactions And Blocks, P2P Systems, Keys As Identity, Digital Signatures, Hashing, and public key cryptosystems, private vs. public Blockchain

UNIT-II:

6Hours

BitCoin and Cryptocurrency:

What is Bitcoin, The Bitcoin Network, The Bitcoin Mining Process, Mining Developments, Bitcoin Wallets, Decentralization and Hard Forks, Ethereum Virtual Machine (EVM), Merkle Tree, Double-Spend Problem, Blockchain And Digital Currency, Transactional Blocks, Impact Of Blockchain Technology On Cryptocurrency.

UNIT-III:

7Hours

Introduction to Ethereum:

What is Ethereum, Introduction to Ethereum, Consensus Mechanisms, How Smart Contracts Work, Metamask Setup, Ethereum Accounts, Receiving Ether's What's a Transaction?, Smart Contracts.

Introduction to Hyperledger:

What is Hyperledger? Distributed Ledger Technology & its Challenges, Hyperledger & Distributed Ledger Technology, Hyperledger Fabric, Hyperledger Composer

UNIT-IV:

6Hours

Solidity Programming:

Solidity - Language of Smart Contracts, Installing Solidity & Ethereum Wallet, Basics of Solidity, Layout of a Solidity Source File & Structure of Smart Contracts, General Value Types (Int, Real, String, Bytes, Arrays, Mapping, Enum, address

UNIT-V:

7Hours

Blockchain Applications:

Internet of Things, Medical Record Management System, Domain Name Service and Future of Blockchain, Alt Coins

Course Outcomes: This course covers in detail the technical principles & concepts behind blockchain technology. In addition, it seeks to provide student with the insights and deep understanding of the various components of blockchain technology, and enables student to determine for yourself how to best leverage and exploit blockchain for your project, organization or start-up.

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(Post Via Kompally), Sec'bad-500



MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda(H). Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District, Telangana State - 500100 Course:- FOUNDATIONS OF BOCKCHAIN

Date:12/03/2021 TO 14/07/2021

Enrolled Students

SL.No_	Roll No	NAME	BRANCH
1.	19J41A0150	SATKURI MADHU	CE
2.	19J41A0151	SEELAM MOHITH REDDY	CE
3.	19J41A0152	SHUBHAM PRABHARI	CE
4.	19J41A0153	SOMI REDDY VENKATA RAMANA REDDY	CE
5.	19J41A0154	TAGARAM MANOJ DAS	CE
6.	19J41A0155	TAMMISETTI HIMAVAMSI	CE
7.	19J41A0156	THAMMISETTY NAVEEN	CE
8.	19J41A0157	THATI MADHUSAI	CE
9.	19J41A1249	PRAVEEN KUMAR KASAGALLA	IT
10.	19J41A1250	SKAILASH	IT
11.	19J41A1251	SAMALLA RAMTEJA	IT
12.	19J41A1252	SARASANI NAKUL REDDY	IT
13.	19J41A1253	SIRIGADA RAJITHA	IT
14.	19J41A1254	THIPPANI BHAVANI	IT
15.	19J41A1255	THOTA PRAVALLIKA	I'I'
16.	19J41A1256	VALLAPU HIMA BINDHU	IT
17.	19J41A0456	SRIJA V S L VULAPALLI	EEE
18.	19J41A0457	SUKASHI ANILKUMAR	EEE
19.	19J41A0458	VALUPADASU REVANTH	EEE
20.	19J41A0459	VELIGINTI KRISHNA TEJA REDDY	EEE
21.	19J41A0460	YELLA SHIRISHA	EEE
22.	19J41A0461	A SAI SHIVANI	EEE
23.	19J41A0462	AKKAPELLY UDAY KIRAN	EEE
24.	19J41A0463	AMARAVADI MOUNIKA	EEE
25.	19J41A0464	ARIGELA PRASANNA KUMAR	EEE
26.	19J41A2532	REGULAGADDA PRAVEEN KUMAR	ME
27.	19J41A2533	SALINDRA VARSHITH	ME
28.	19J41A2534	SANIKOMMU AVINASH REDDY	ME
29.	19J41A2535	SANTI SRI PUNITH	ME
30.	19J41A2536	SHAIK ARIF	ME
31.	19J41A2537	THATIKAYALA RAKESH	ME
32.	19J41A2538	VATTIKUTI SHASHI KIRAN	ME
33.	19J41A2539	VELPULA VEDA VYAS	MINING
34.	19J41A0456	SRIJA V S L VULAPALLI	ECE
35.	19J41A0457	SUKASHI ANILKUMAR	ECE
36.	19J41A0458	VALUPADASU REVANTH	ECE
37.	19J41A0459	VELIGINTI KRISHNA TEJA REDDY	ECE
38.	19J41A0460	YELLA SHIRISHA	ECE
39.	19J41A0461	A SAI SHIVANI	ECE
40.	19J41A0462	AKKAPELLY UDAY KIRAN	ECE
41.	19J41A0454	SHIKA SAHANA JYOTHI	ECE
42.	19J41A0455	SOUDARAPU NITHIN CHARY	ECE
43.	19J41A2524	MACHARLA PRASHANTH	MINING
44.	19J41A0463	AMARAVADI MOUNIKA	ECE
45.	19J41A0464	ARIGELA PRASANNA KUMAR	ECE
46.	19J41A2533	SALINDRA VARSHITH	MINING

	Y		
47.	19J41Å2534	SANIKOMMU AVINASH REDDY	MINING
48.	19J41A2535	SANTI SRI PUNITH	MINING
49.	19J41A2536	SHAIK ARIF	MINING
50.	19J41A2537	THATIKAYALA RAKESH	MINING
51.	19J41A2538	VATTIKUTI SHASHI KIRAN	MINING
52.	19J41A2539	VELPULA VEDA VYAS	MINING
53.	19J41A0527	K KOMALIKA	CSE
54.	19J41A0563	AKITI SWETHA REDDY ·	CSE
55.	19J41A0564	ALLAM YASHWANTH	CSE
56.	19J41A0565	AMBADIPELLI RAJKUMAR	CSE
57.	19J41A0566	AMBALA PAVAN	CSE
58.	19J41A0567	ANNE MANU PRIYATHAM CHAND	CSE
59.	19J41A0568	ANUMULA RUTHIK REDDY	CSE
60.	19J41A0569	BASANI RISHIKA	CSE

Malla Reddy transpolity Sect bad site



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CERTIFICATE

This is to Certify that

SHUBHAM PRABHARI

has Sucessfully Completed Fundamentals of Blockchain	Technologies
Course offered by Centre of Excellence,	

MREC(A) on 01/02/2021 bearing with

Roll No. 19J41A0152 and Branch

N. RISHIKANTH **DEAN (COE)**

Dr.A.Ravendra **Principal**





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CERTIFICATE

OF COURSE COMPLETION

This is to Certify that

SANTI SRI PUNITH

has Sucessfully Completed Fundamentals of Blockchain Technologies Course offered by Centre of Excellence,

MREC(A) on ______bearing with

Roll No. 19J41A2535 and Branch ME

N. RISHIKANTH DEAN (COE) Raud

Dr.A.Ravendra Principal Malla Meday Engineering Cottege
Malla Meday Engineering Dhulapally;
Auton Malla Dhulapally;
Malsammasula, Sec'bad-500 for



MAJULA REDDY ENGINEERING COLLEGE

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CERTIFICATE

This is to Certify that

VALLAPU HIMA BINDHU

has Sucessfully Completed Fundamentals of Blockchain	Technologies
Course offered by Centre of Excellence,	

MREC(A) on 01/02/2021 bearing with Roll No. 19J41A1256 and Branch IT

N. RISHIKANTH DEAN (COE) Raud

Dr.A.Ravendra Principal Engineering College
Lonomous)
Lonomo



MATLA REDDY ENGINEERING COLLEGE

MAIN CAMPUS AUTONOMOUS INSTITUTION









CERTIFICATE

This is to Certify that

AMARAVADI MOUNIKA

has Sucessfully Completed Fundamentals of Blockchain Technologies Course offered by Centre of Excellence,

MREC(A) on 01/02/2021 bearing with

Roll No. 19J41A0463 and Branch

EEE

N. RISHIKANTH **DEAN (COE)**

Dr.A.Ravendra **Principal**



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CERTIFICATE

This is to Certify that

AMBADIPELLI RAJKUMAR

has Sucessfully Completed Fundamentals of Blockchain Technologies Course offered by Centre of Excellence,

MREC(A) on 01/02/2021 bearing with

Roll No. 19J41A0565 and Branch

CSE

DEAN (COE)

Dr.A.Ravendra **Principal**

Malla Reddy Engineering College Mutonomous Maisammaguda, Dhulapally, (Pest Via Kompally), Sec'had-500 100