

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

# A Report

On

**5-day Faculty Development Program on** 

"Blockchain and its Applications"

Organized by

Rajasthan Technical University, Kota and

**Department of Information Technology,** 

**Poornima College of Engineering** 

 $(14^{th} - 18^{th} September, 2020)$ 

Under TEQIP-III Program

**Venue: Online Mode** 



**SESSION 2020-21** 

DEPARTMENT OF INFORMATION TECHNOLOGY POORNIMA COLLEGE OF ENGINEERING, JAIPUR

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, FIICO Institutional Area

### 1. WORKSHOP BROCHURE



#### ABOUT TEQIP-III

The Project, third phase of Technical Education Quality Improvement Programme (referred to as TEQ[9-III) is fully integrated with the Twelfth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special pages 2011 of the States and Special properties of the States and Special pages 2011 of the States and Special pages 2011 of the States and Special pages 2011 of the States 201 Category States and support to strengthen few affiliated technical universities to improve their policy, academic and

#### RAJASTHAN TECHNICAL UNIVERSITY

Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan. The University currently affiliates about 129 of Rajashan. The University currently affiliates about 129 Engineering Colleges, 4 BArto 4, H CA Colleges, 95 MBA Colleges, 44 MTech. Colleges and 3 Hotel Management and Catering Institutes. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the country.

#### POORNIMA COLLEGE OF ENGINEERING

Pornima College of Engineering (PCE), established as a brand of technical education in the year 2000, has its own glorious legacy of leading the young engineers to the mammoth sky of sucress. Its accomplishments forecast its journey through the hardships and its triumph over them one after another. PCE left no stone unturned since its establishment in turning the gorious vision into unbelievable really providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

Highly recognized and resourced efficiency technical

- Highly recognized and renowned affiliated technical on all over Rajasthan with built up are a more than 3.5 la cssquare feet
- aics squarefeet. Affiliated to RTIL Kota & approved by AICTE, New Delhi The most preferred NBA Accredited Engineering College with running of sixty special artistors of Engineering at UL Level (CSE, RCE, EE, ME, IT, CIV) and two at PC level (CSE, VLSI) The only institution permitted by RTIL to admit. RIV, PIOL Gulf students & designated as centre of excellence by IBM

#### DEPARTMENT OF INFORMATION TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY
The Department of Information Technology of PCE was established in 2001. The department is considered one of the wibrant departments of the college as far as results and placements are concerned. At present, the department has the intake of 60 students providing all the amenities of infrastructure related to knowledge, research, experiments and training. The Department sins to provide both theoretical as well as practical knowledge that the department has produced excellent in engineers withouts and make them employable and ready for industry intake. The department has produced excellent in engineers withouts and institute of excellence. The department has very close interaction with local and rational industries and their inputs are taken into consideration to give value additions to our seminars, projects, various workshops and training programs.

### COURSE MODULES

- Basics of Cryptography and Block/Dain Technology Design and Application of Block/Dain, and Cryptocur encies Consensus protocus, and infrastructure Identity Management for Decentral and Application so Pentro Feer Comm

- Hands-on Session over BlockChain Tools



#### OBJECTIVES OF THE FDP

- The Faculty Development Program aims at bringing together blockchain technologists, enthusiasts, and faculty to discuss algorithms, applications and issues concerned with the technol throughnot only theory but hands on sessions.
- Program aims at identifying industry challenges sensitize about latest trends and technologies in area of BlockChain and Cryptocurrency.
- The course is designed for theory, use-case demonstrations, and research oriented discussion, which shall be helpful in understanding the of the process and along with practical implementation in area of BlockChait and Cryptocurrency.

#### **FDP COMMITTEE**

# CHIEF PATRON

Prof. (Dr.) R. A. Gupta Hon'ble Vice Chancellor. RTU Kota

# PATRON

Dr. Mahesh M. Bundele Principal & Director, Poornima College of Engineering

RTU (ATU) TEQIP-III COORDINATOR Prof. (Dr.) Dhirendra M

# RTU EVENT COORDINATOR

Mr. Vikas K. Jain (RTU, Kota)

#### RTU (ATU) TEQIP-III COMMITTEE

Dr. Har ish Sharma Prof. D. K. Sambariya Dr. S. D. Purohit Dr. Iru m Alvi Mr. Santosh Sharma Mr. An shul Bansal Mr. Dinesh Kumar

Nodal officer
Nodal Officer Procurement)
Nodal Officer Finance
Conference
Expert Lecture
GATE & Induction

#### Workshop

HOST INSTITUTE COORDINATOR

-01 Dr. Mahesh Bundele Poornima College of Engineering 131-6, RIICO Institutional Area Sitapura, JAIPUR

### 2. WORKSHOP FLYER/POSTER



### 3. WORKSHOP OBJECTIVES

The objectives of the faculty development program are:

- 1. Bringing together the BlockChain technologists, enthusiasts, and faculty to discuss the Latest algorithms, applications and issues in area of Cryptocurrency.
- 2. Identifying Industry challenges and sensitize about latest trends and technologies in area of BlockChain and Cryptocurrency..
- To provide use-case demonstrations, and research oriented discussion along with theoretical concepts, which shall facilitate the understanding of process through practical implementation in area of BlockChain and Cryptocurrency.

4. BRIEF ABSTRACT OF FDP

A 5-day Faculty Development Program on "Blockchain and its Applications" organized by

Rajasthan Technical University Kota and Department of Information Technology in online

mode under TEQIP-III from 14th – 18th September, 2020.

The Faculty Development Program was attended by 43 participants from 20 different

organizations and institutions from India and Nepal.

The Inaugural Ceremony of the Faculty Development Program was held on Monday 14th

September 2020. The Chief Guest of the inaugural ceremony was Prof. R. A. Gupta, Hon'ble

Vice Chancellor, RTU Kota and the Guest of Honor was Prof. Dhirendra Mathur, TEQIP-

III Coordinator, RTU Kota. The Inaugural ceremony of the FDP was graced with the esteemed

presence of Ar. Rahul Singhi, Director, Poornima Foundation. The inaugural ceremony also

witnessed the presence of Dr. Mahesh M. Bundele, Principal & Director PCE, Mr. Amol

Saxena HoD-IT, PCE, Mr. Vikas K. Jain, RTU Event Coordinator and Mr. Shirish Nagar,

**Event Coordinator, PCE.** 

The resource persons of the workshop were as follows:

1. Dr. Meenakshi Tripathi, Associate Professor, Department of CSE, MNIT, Jaipur

2. Mr. Pranay Singh Chouhan, Founder - SKVS Foundation

3. Mr. Martin Parmar, Assistant Professor, Dept. of CSE, CHARUSAT, Gujarat

**4. Mr. Anuj Garg**, Blockchain Leader and evangelist, IBM Ltd.

Mr. Shirish Nagar - FDP Coordinator, PCE on behalf of Dept. of Information Technology,

Poornima College of Engineering, welcomed the chief guest, Guest of Honor, Dignitaries,

Workshop trainers, and distinguished participants in his opening welcome address.

Mr. Vikas K. Jain - FDP Coordinator, RTU gave the briefing of the 5-day Faculty

Development Program. He urged the participants to be regular and dedicated to harness the

maximum outcome of this workshop as per vision of the Rajasthan Technical University and

PCE Management.

5-Day Faculty Development Program on "Blockchain and its Applications"

Ar. Rahul Singhi, Director, Poornima Foundation mentioned that high enthusiasm is the key

to learn new technologies in the changing academic scenario. Ar. Singhi stated that it is

extremely vital for the faculty members to attend such Faculty development Programs for

bridging the gap between academia and corporate requirements. He congratulated the organizers

of FDP for hosting such a program on the topic of **Blockchain and its Applications** which is a

latest technological development in the field of Cryptography.

Prof. Dhirendra Mathur, TEQIP-III Coordinator, RTU as Guest of Honor, welcomed the

initiative taken up by the Poornima College of Engineering to uplift the technical understanding

of faculty participants in the area of Cryptocurrency and Blockchain through TEQIP-III

scheme. Prof. Mathur highlighted that third phase of Technical Education Quality

Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelfth Five-

year Plan objectives for Technical Education as a key component for improving the quality of

Engineering Education in existing institutions with a special consideration for Low Income

States and Special Category States and support to strengthen few affiliated technical universities.

Dr. Mahesh M. Bundele, Principal and Director, PCE emphasized on the need of learning

new technologies and tools for consistent professional growth of research scholars and faculty

members. Dr. Bundele mentioned that faculty members should take part in such FDPs round the

year sincerely as these programs would also enable them to guide student engineering projects.

**Dr. Bundele** announced that many such FDPs under different focus areas of Departments of IT

and CE will be organized to fine-tune the skill-set of faculty members.

Mr. Amol Saxena, HoD, Department of Information Technology, PCE proposed Vote of

Thanks to the Rajasthan Technical University, Kota, chief guest, guest of honor, management of

Poornima Group, college authorities, organizing committee, trainers and the participants.

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Dr. Mahesh Bundel

Department of information recimology

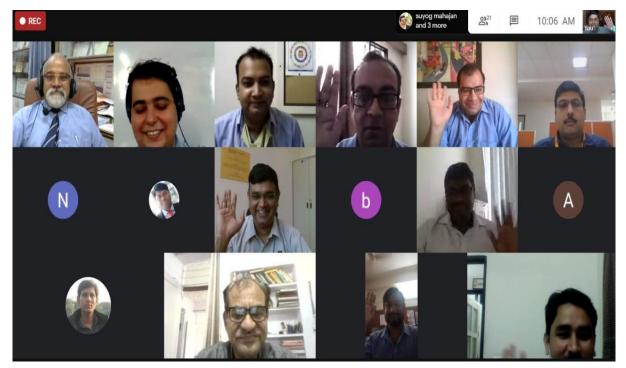
# 5. GLIMPSE OF INAUGURAL CEREMONY











# 6. INAUGURAL CEREMONY SCHEDULE



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA



Poornima College of Engineering TEQIP-III RTU (ATU) SPONSORED "Blockchain and its Applications" 5 Day Faculty Development Program (September 14-18, 2020)

Date: September 14, 2020 Time: 9:30-10:05 AM

Google Meet link: <a href="https://meet.google.com/uni-heri-uoc">https://meet.google.com/uni-heri-uoc</a>

Venue: Online

### **Inaugural Session Schedule**

S.	Activity	Duration	Time	
No	Welcome of Dignitaries and Introduction of FDP by Mr.			
	Shirish Nagar, Event Coordinator, PCE			
	Prof. R.A. Gupta , Hon'ble Vice Chancellor , RTU Kota			
	(Chief Guest)			
1.	Prof. Dhirendra Mathur, RTU (ATU) TEQIP-III			
	Coordinator (Guest of Honour)  • Ar. Rahul Singhi, Director, Poornima Group  • Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur  • Mr. Vikas K. Jain, Assistant Professor, RTU Event Coordinator			
	Mr. Amol Saxena, HOD,IT, PCE			
	Welcome Address by Dr. Mahesh Bundele, Director	05 Min 0.25 0.40 AM		
2.	& Principal, Poornima College of Engineering, Jaipur	05 Min	9:35 -9:40AM	
	Address by Ar. Rahul Singhi, Director, Poornima Group	0535		
3.		05 Min	9:40 -9:45AM	
_	Introduction of Guest of Honour & Address by Guest of	05 Min 9:45 -9:50AM		
4.	Honour <b>Prof. Dhirendra Mathur</b> , RTU (ATU) TEQIP-III			
	Coordinator			
5.	Introduction of Chief Guest & Inaugural Address by the Chief	10 3 5		
	Guest Prof. R.A. Gupta, Hon'ble Vice Chancellor, RTU Kota	10 Min	9:50 -10:00AM	
6.	Vote of Thanks by Mr. Amol Saxena, HOD,IT, PCE	05 Min	10.00 10.05435	
••		05 Min	10:00 -10:05AM	

# 7. FDP DETAILED PROGRAM SCHEDULE







Organized by: Rajasthan Technical University, Kota &

Department of Information Technology, Poornima College of Engineering, Jaipur



### Program Schedule

Google Meet link: https://meet.google.com/uni-heri-uoc

Monday - Day 1 – 14 <sup>t</sup>	h September, 2020		
Program Outline			
	<u>Inaugural Ceremony</u>		
9 30 AM - 10 00 AM	Prof. (Dr.) R. A. Gupta, Hon'ble Vice Chancellor, RTU Kota (Chief Guest) Prof. (Dr.) Dhirendra Mathur, TEQIP-III Coordinator, (Guest of Honour) Dr. Mahesh M. Bundele, Director-Principal, Poornima College of Engineering Mr. Vikas K. Jain, Event Coordinator – RTU, Kota Mr. Amol Saxena, HOD,IT-PCE Mr. Shirish Nagar, Event Coordinator – Host Institute		
	Session-I		
	Topic: Introduction to Blockchain		
10.00 AM -11.30 AM	Resource Person: Dr. Meenakshi Tripathi, Associate Professor, Department of Computer Science and Engineering, MNIT, Jaipur		
	LUNCH BREAK		
	Session-II		
1.00 PM - 2.30 PM	Topic: Design and Application of BlockChain and Cryptocurrencies Resource Person: Mr. Pranay Singh Chouhan, Founder - SKVS Foundation		
2.30 PM – 2.45 PM	Discussion		
Tuesday - Day 2 - 15	th September, 2020		
Program Outline			
	Session-III		
	Topic: Consensus protocols, Infrastructure & Identity Management for Decentralized		
10.00 AM -11.30 AM	Applications Resource Person: Mr. Pranay Singh Chouhan, Founder - SKVS Foundation		
LUNCH BREAK			
	Session-IV		
1.00 PM - 2.30 PM	Topic: Blockchain Tools - I (Ethereum, CORDA, IOTA) and Peer to Peer Communication		
	Resource Person: Mr. Martin Parmar, Assistant Professor, Dept. of Computer		
	Engineering, CHARUSAT University, Gujarat		
2.30 PM – 2.45 PM	Discussion		

Wednesday - Day 3 -	16th September, 2020		
Program Outline			
	Session-V Topic: Hands on Session on Ethereum and other Blockchain Tools Resource Person: Mr. Martin Parmar, Assistant Professor, Dept. of Computer Engineering, CHARUSAT University, Gujarat		
	LUNCH BREAK		
1.00 PM - 2.30 PM	Session-VI Topic: Threats ,Attacks and Security to Blockchain Resource Person: Mr. Pranay Singh Chouhan, Founder - SKVS Foundation		
2.30 PM – 2.45 PM	Discussion		
Thursday - Day 4 - 1	7 <sup>th</sup> September, 2020		
Program Outline			
10.00 AM -11.30 AM	Session-VII Topic: Solidity and Smart Contracts Resource Person: Mr. Anuj Garg, Blockchain Leader and evangelist, IBM Ltd.		
	LUNCH BREAK		
1.00 PM - 2.30 PM	Session-VIII Topic: Hands on Session on Solidity and Remix Resource Person: Mr. Anuj Garg, Blockchain Leader and evangelist, IBM Ltd.		
2.30 PM – 2.45 PM	Discussion		
Friday - Day 5 – 18th	Santambar 2020		
Program Outline	September, 2020		
	Session-IX Topic: Blockchain Tools – II, Hyperledger and Dapp Resource Person: Mr. Martin Parmar, Assistant Professor, Dept. of Computer Engineering, CHARUSAT University, Gujarat		
LUNCH BREAK			
1.00 PM - 2.30 PM	Session-X Topic: Hands on Session on Hyperledger Resource Person: Mr. Martin Parmar, Assistant Professor, Dept. of Computer Engineering, CHARUSAT University, Gujarat		
2.30 PM – 3.00 PM	Discussion, Valedictory Ceremony and Feedback		

# 8. LIST OF PARTICIPANTS

S.No.	Name	Organization
1	Mr. Satpal Singh	Manipal University Jaipur
2	Mr. Amit Kumar Jha	Poornima College Of Engineering, Jaipur
3	Mrs. Deepika Sharma	Manipal University Jaipur
4	Mr. Amit Kumar Jain	Poornima College Of Engineering, Jaipur
5	Mr. Manish Dubey	Poornima College Of Engineering, Jaipur
6	Ms. Bhawana Sharma	Manipal University Jaipur
7	Mr. Kalpit Jain	Poornima College Of Engineering, Jaipur
8	Mr Manoj R	Manipal University Jaipur
9	Mr. Satpal Singh Kushwaha	Manipal University Jaipur
10	Mr.Devender Kumar Dhaked	Rajasthan College Of Engineering For Women
11	Ms. Seeta Gupta	Poornima College Of Engineering, Jaipur
12	Mr. Prashant Hemrajani	Manipal University Jaipur
13	Mr. Anil Kumar	BSNL Jaipur
14	Ms. Reena Sharma	Poornima College Of Engineering, Jaipur
15	Ms. Richa Singh	Pranveer Singh Institute Of Technology, Kanpur
16	Mr. Amit Kumar Bairwa	Manipal University Jaipur
17	Mr. Ankit Saxena	Invertis University
18	Mr. Uttam Sharma	BSNL Jaipur
19	Mr. Ashok Kumar Kumawat	Manipal University Jaipur
20	Vineeta Soni	Manipal University Jaipur
21	Dr. Lokesh Sharma	Manipal University Jaipur
22	Mr. Prem Kumar Bhaskar	Lord Buddha Education Foundation, Kathmandu, Nepal
23	Mr. Shamneesh Sharma	Poornima University, Jaipur, Rajasthan, India
24	Er. Dharmveer Yadav	Zone Tech The Institute Of Engineers
25	Ms. Khushi Yadav	Shivam ITI Pvt. Ltd.
26	Er. Sandeep Kumar Bothra	S. S. Jain Subodh P. G. (Autonomous) College, Jaipur
27	Ms. Neha Sharma	Poornima University
28	Mr. Suyog Pandurang Mahajan	Maharashtra Institute Of Technology, Aurangabad
29	Dr. Sunita Gupta	SKIT, Jaipur
30	Mr. Honey Gocher	Amity University Rajasthan
31	Ms. Agrawal Anu	Lords University, Alwar
32	Dr. Praveen Gupta	Poornima College Of Engineering, Jaipur
33	Mr Mukesh Kumar Lohar	GITS, Udaipur
34	Dr. Sandeep Joshi	Manipal University Jaipur
35	Mr. Chandan Singh	Lal Bahadur Shastri Pg College Jaipur
36	Mr. Ayush Goyal	Poornima Institute Of Engineering And Technology, Jaipur

37	Mr. Rakesh Ranjan	Shankara Institute Of Technology, Kukas, Jaipur
38	Mr. Rajesh Kanwadia	Shankara Institute Of Technology, Kukas, Jaipur
39	Ms. Shweta Agrawal	Shankara Institute Of Technology, Kukas, Jaipur
40	Mr. Sandeep Bhargava	Poornima College Of Engineering, Jaipur
41	Mrs. Meenakshi Tiwari	St. Wilfreds Institute Of Engineering & Technology
		Ajmer
42	Mr. Jaya Krishna R	Manipal University Jaipur
43	Dr. Vijay Kumar Sharma	Manipal University Jaipur

### **8 FEEDBACK:**

Opinion / Parameter	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands on Sessions
<b>Strongly Agree</b>	28	25	31	24
Agree	11	11	8	12
Neutral	0	6	0	3
Disagree	0	0	0	0
Strongly Disagree	4	1	4	4