POORNIMA
COLLEGE OF ENGINEERING

Approved by AICTE
Affiliated to Rajasthan Technical University, Kota
Recognized by UGC under Section 2(f) of the UGC Act, 1956

List of Report on Faculty Development Program

(2017-18 to 2020-21)

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)
• Phone: +91-9829255102, +91-9414728922• E-mail: principal.pce@poornima.org
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Poornima College of Engineering, Jaipur

List of Faculty Development Program

S.N.	Name of the Faculty Development Program	No. of Days	Session	Date	Page No
1	Report of FDP on Digital Media Tools for Effective Teaching Learning	5 Days	2021-22	21-25/03/2022	4-13
2	Report of FDP on Artificial Intelligence N-Dimension Perspectives, AI Ethics	5 Days	2021-22	24-28/02/2022	14-29
3	Report of FDP on Cloud Infra and Block chain	5 Days	2021-22	15-19/11/2021	30-49
4	Report of FDP on Digital Manufacturing Evolutions for Smart Industries	2 Days	2021-22	16-20/08/ 2021	50-67
5	Report of FDP on Recent Advancement in Machine Learning and Artificial Intelligence	5 Days	2020-21	16 -20/03/2021	68-78
6	Report of FDP on Recent Trends and Advances in Renewable Energy Sources	5 Days	2020-21	18-22/02/2021	79-88
7	Report of FDP on Renewable Energy	5 Days	2020-21	14-18/12/2020	89-130
8	Report of FDP on Latent Mathematics in Sanskrit Context	3 Days	2020-21	28-30/09/2020	131-146
9	Report of FDP on Cyber Security & Cyber Forensics	5 Days	2020-21	21-25/09/2020	147-168
10	Report of FDP on Container Orchestration and Automation in Software Development Using Kubernetes and Open shift	3 Days	2020-21	21-23/09/2020	169-174
12	Report of FDP on Recent Advances in Power Electronics Drive and Renewable Energy	5 Days	2020-21	15-19/09/2020	175-207
13	Report of FDP on Industry 4.0	5 Days	2020-21	14-18/09/2020	208-238
14	Report of FDP on Trends and Applications in Machine Learning and Deep Learning	2 Days	2020-21	4-5/09/2020	239-248
15	Report of FDP on Alternative fuel	2 Days	2020-21	4-5/09/2020	249-269

16	Report of FDP on Machine Learning & Deep Learning Techniques with its Applications	2 Days	2020-21	18-22/08/2020	270-300
17	Report of FDP on Mobile Network Security & Smart Antenna	2 Days	2019-20	6-7/03/2020	301-313
18	Report of FDP on Implementation of Outcome Based Education	2 Days	2019-20	14-15/02/2020	314-327
19	Report of FDP on Big Data Analytics	5 Days	2019-20	3-7/02/2020	328-339
20	Report of FDP on Block chain and its Applications	5 Days	2019-20	14-18/09/2020	340-350
21	Report of FDP on Ubiquitous Computing and Wireless Sensor Networks"	5 Days	2019-20	16 – 21/09/2019	351-401
22	Report of FDP on Hands-on Practice on 3D Printing Technology	5 Days	2019-20	27-31/08/2019	402-427
23	Report of FDP on Research Methodology & Data Analysis	3 Days	2019-20	8-10/08/2019	428-440
24	Report of FTP on Introduction about Subject Geotechnical Engineering-II	1 Day	2018-19	15/02/2019	441-446
25	Report of FDP on Universal Human Values and Professional Ethics	8 Days	2018-19	12-19/07/2018	447-457

POORNIMA
COLLEGE OF ENGINEERING

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

A Report on 5-day Faculty Development Program (FDP) on "Digital Media Tools for Effective Teaching Learning"

- **TITLE AND DURATION:** "Digital Media Tools for Effective Teaching Learning " March 21-25, 2022
- **SPONSORS:** NITTR, Chandigarh.
- **SUPPORTERS:** NITTR, Chandigarh.
- **ORGANIZERS:** Nodal Center Poornima College of Engineering, Jaipur.

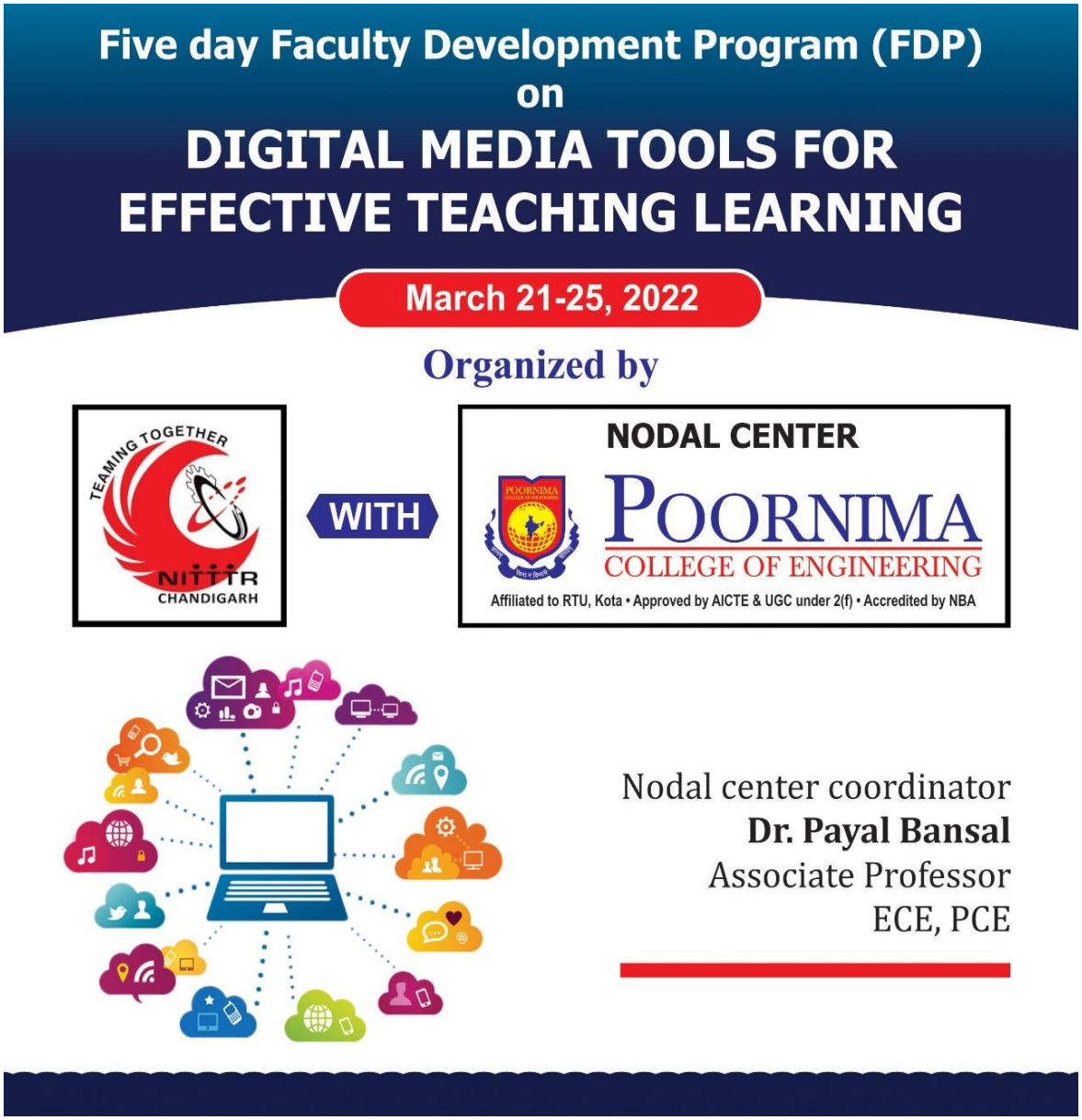
OBJECTIVES: Digital tools provide a way to implement text, images, audio, and video for an immersive experience. The effective use of digital learning tools in classrooms can increase student engagement, help teachers improve their lesson plans, and facilitate personalized learning. It also helps students build essential 21st-century skills. With this FDP, Faculty can be confident that they have a Digital Teaching strategy that will carry them into the future.

- **EXPECTED OUTCOMES:**

  - To improve their lesson plans, and facilitate personalized learning.
  - To demonstrate 21st-century skills opportunities good for students.
  - To exchange views, and ideas about the latest innovation in the field of Digital Media.
  - To provide knowledge of tools and a way to implement text, images, audio, and video for an immersive experience.

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- **BROCHURE / POSTER / LEAFLET / FLYER:**



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- **PROGRAM SCHEDULE:**

National Institute of Technical Teachers Training and Research, Chandigarh
Electronics and Communication Engineering Department

Online STC on
"Digital Media Tools for Effective Teaching Learning"
(O. PLAN No. ICT-ECE-20)
w.e.f. 21-03-2022 to 25-03-2022

Venue: Online and Remote Centre at Poornima Engg. College, Jaipur

TIME-TABLE

DAY	Live Session - 1 9:30 AM to 11:00 AM (through Google meet)	Live Session - 2 11:30 AM to 1:00 PM (through Google meet)	Session-3 3:30 PM - 5 PM
DAY-1 21-03-2022	Content Delivery & Class Management Tool: Google Classroom (GS)	Online Free Tools for Real-time Communication in Class (GK)	Assignment/ Self Study (BSD)
DAY-2 22-03-2022	Multisim Live Circuit Simulator (BSD)	Student Evaluation/Feedback using Hot Potatoes (DKS)	Assignment/ Self Study (BSD)
DAY-3 23-03-2022	Reference Management and Report Writing using Mendeley (BSD)	PCB Design Tool (PB)	Assignment/ Self Study (BSD)
DAY-4 24-03-2022	TinkerCAD Simulator (CP)	TinkerCAD Simulator (CP)	Assignment/ Self Study (BSD)
DAY-5 25-03-2022	Managing Technologies for Effective Teaching-Learning (MA)	Node MCU Simulator (AG)	STC Valediction (BSD)
In addition to the live sessions, participants shall be provided related study material and assignments through Google classroom. Assignment submission is compulsory.			

AG: Mr. Ajay Godara, Ennovate Skills, Startup at NITTTR Chandigarh
BSD: Dr. Balwinder S. Dhaliwal, NITTTR Chandigarh
CP: Dr C. Padmaja, GNITS, Hyderabad
DKS: Mr Devendra Kumar Somwanshi, Poornima Engg. College, Jaipur
GK: Dr. Gaurav Kumar, Magma Research & Consultancy Services, Ambala
GS: Dr. Garima Saini, NITTTR Chandigarh
MA: Ms. Monika Arora, NITTTR Chandigarh
PB: Dr Payal Bansal, Poornima Engg. College, Jaipur

Course Coordinator:

(Dr. Balwinder Singh Dhaliwal)
Associate Professor, ECE Department

Head of Department

Dr. Mahesh Bundele
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Director
Poornima College of Engineering
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- **DETAILS OF RESOURCE PERSONS:**

The Faculty Development Program has various experts, His/her interest area is covered Filter Design, IoT, Electronic Devices, Antenna Design, and Nano Electronics. His/her Technical Expertise Includes Filter Design, Antenna Design, etc. She has tutored numerous students and mentored many Hardware & Software Projects.

- Mr. Ajay Godra, Ennovate Skills, Startup at NITTTR Chandigarh
- Dr. Balwinder S. Dhaliwal, NITTTR, Chandigarh
- Dr. C. Padmaja, GNIT, Hyderabad
- Mr. Devendra Kumar Somwanshi, PCE, Jaipur
- Dr. Gaurav Kumar ,Magma Research & Conslutancy services,Ambala
- Dr. Garima Saini, NITTTR, Chandigarh
- Ms. Monika Arora, NITTTR, Chandigarh
- Dr. Payal Bansal, PCE, Jaipur

- **CONTENT DELIVERY / PRACTICAL SESSIONS:**

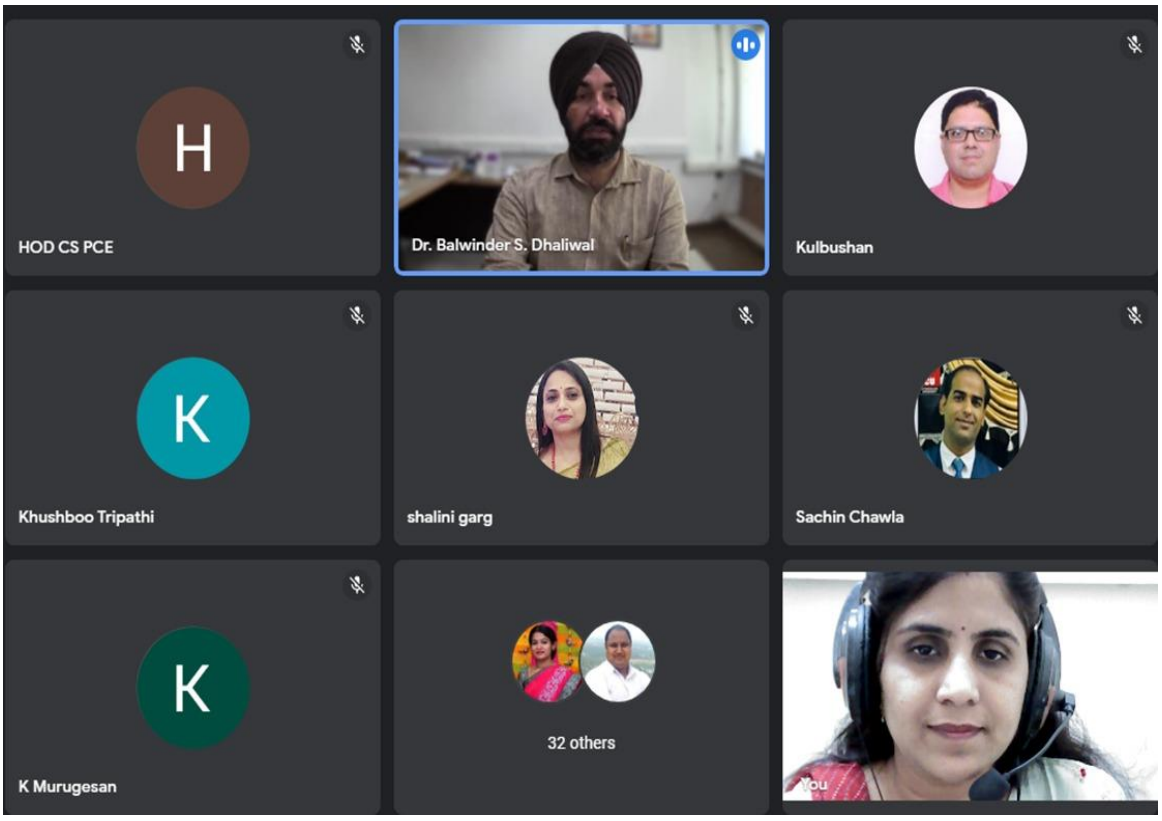
ECE department Digital Media Tools for Effective Teaching Learning FDP helps Faculties themselves to take advantage of emerging opportunities and enhance their Digital Learning. Through a series of interactive STP from 21 March to 25 March, developing a comprehensive Digital Media Teaching technology strategy and roadmap for better Digital Learning. Digital tools provide a way to implement text, images, audio, and video for an immersive experience. The effective use of digital learning tools in classrooms can increase student engagement, help teachers improve their lesson plans, and facilitate personalized learning. It also helps students build essential 21st-century skills. With this FDP, Faculty can be confident that they have a Digital Teaching strategy that will carry them into the future.

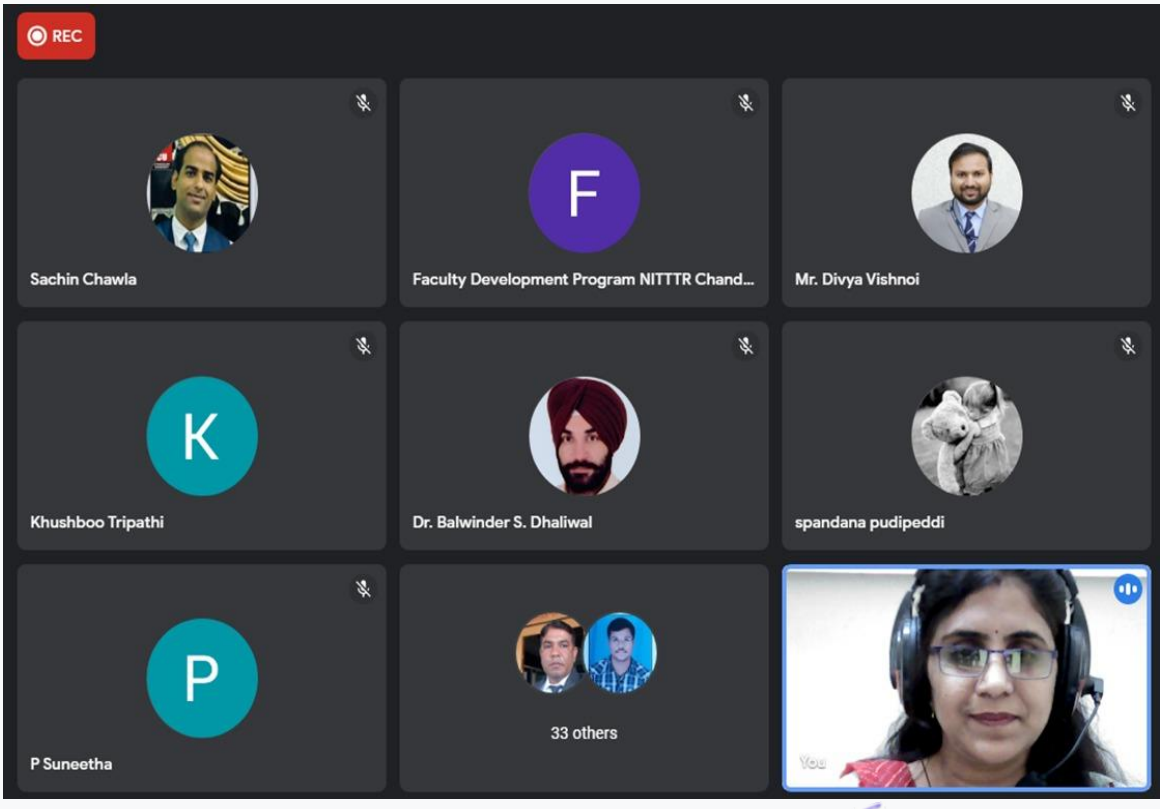
Virtual platform: Google Meet

Registration Link: https://meet.google.com/shm-cpgr-mts?hs=224

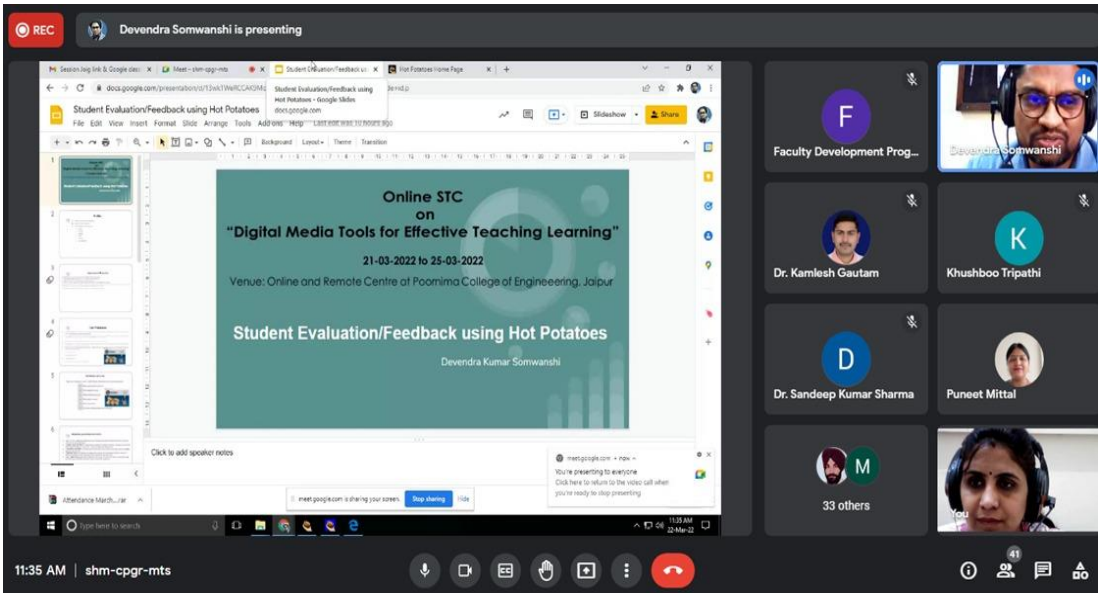


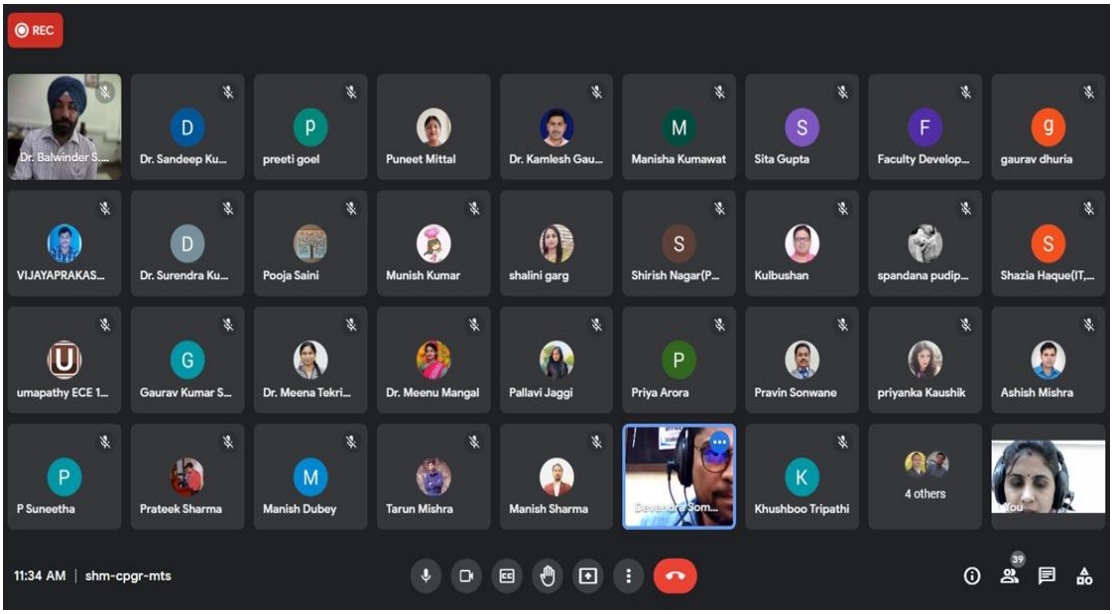
- **GLIMPSES OF CONDUCTION:**





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VALEDICTORY SESSIONS:

National Institute of Technical Teachers Training and Research, Chandigarh
Electronics and Communication Engineering Department
Online STC on
"Digital Media Tools for Effective Teaching Learning" (O. PLAN No. ICT-ECE-20)
w.e.f. 21-03-2022 to 25-03-2022
Venue: Online and Remote Centre at Poornima Engg. College, Jaipur

Date: 25 March 2022 **Time: 1:00 PM to 1:30 PM** **Venue: Online Platform (Google meet)**

Valedictory Programme Outline

(Link: https://meet.google.com/shm-cpgr-mts?hs=224)

SNo	Activity	Scheduled Time
1.	Welcome of Dignitaries • **Dr. Mahesh Bundele**, Director & Principal, PCE • **Dr. Narayan Lal Jain**, Vice Principal, PCE • **Dr. Rekha Nair**, Dean I[st] Year • **Dr. Surendra Kumar Yadav**, HOD,CSE, PCE • **Mr. Amol Saxena**, HOD, IT, PCE • **Dr. Garima Mathur**, HOD, EC, PCE • **Dr. Pravin Sonawane**, HOD, EE, PCE • **Dr. Narayan Lal Jain**, HOD, ME, PCE • **Dr. Pran Dadhich**, HOD, CIV, PCE • **Mr. Shailendra Kasera**, HOD, I Year, PCE	3:00 PM -3:03 PM
2.	Welcome of **Chief Guest, Prof. R A Gupta, Vice Chancellor, Rajasthan Technical University** by **Dr. Mahesh Bundele**, Principal & Director, PCE with virtual Bouquet & Memento	3:03 PM -3:05 PM
3.	Report of the Event by Dr. PAYAL BANSAL	3:05 PM -3:15 PM
5.	Address by **Dr. Mahesh Bundele**, Director & Principal, PCE	3:15 PM -3:20 PM
6	Event Feedback by Participants	3:20 PM -3:25 PM
7.	Introduction of **Chief Guest Prof. R A Gupta, Vice Chancellor, Rajasthan Technical University** by anchors and Address by the Chief Guest	3:25 PM -3:35 PM
8.	Announcement of Winners & Virtual Prize Distribution to Winners of the event	3:35 PM -3:45 PM
9.	Vote of Thanks by Mr. Pankaj Dhemla, Vice Principal, PCE	3:45 PM -3:50 PM
10.	Group Photograph	3:50 PM -3:55 PM

LIST OF PARTICIPANTS:

S. No.	Name	Designation	Department
1	Gaurav Jain	Assistant Professor	EE
2	Priya Arora	Associate Professor	Faculty of Planning & Architecture
3	Seeta Gupta	Assistant Professor	IT
4	Dr. Surendra Kumar Yadav	Professor	Computer Engineering
5	Jay Prakash Singh	Assistant Professor	Computer Engineering
6	Dr. Indrajit Ghosal	Assistant Professor	SCE
7	Manish Choubisa	Assistant Professor	Computer Engineering
8	Manish Sharma	Assistant Professor	ECE
9	Manish Dubey	Assistant Professor	Computer Engineering
10	Tarun Mishra	Assistant Professor	ECE
11	Manisha Kumawat	Assistant Professor	ECE
12	Durgesh Kumar	Assistant Professor	ECE
13	Rajesh Kumar	Assistant Professor	1 Year
14	Ajit Singh	Assistant Professor	EE
15	Shirish Nagar	Assistant Professor	IT

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

16	Surender Kumar Sharma	Assistant Professor	EE
17	Amarjeet Bharti	Assistant Professor	ECE
18	Debolina Ghosh	Assistant Professor	Computer Engineering
19	Mukesh Chand	Assistant Professor	English
20	Manish Bhardwaj	Assistant Professor	CE
21	Dr. Kuldip Sharma	Assistant Professor	EE
22	Dr. Pooja Gupta	Professor	Management
23	Udit Mamodiya	Assistant Professor	ME
24	Dr. Muktak Vyas	Associate Professor	EE
25	Ram Mohan	Assistant Professor	ME
26	Bhavnesh Chandra Sharma	Assistant Professor	Mathematics
27	Dr. Raj Kumar Satankar	Associate Professor	Mathematics
28	Dr. Shilpi Jain	Associate Professor	Computer Engineering
29	Priyanka	Associate Professor	Architecture + Interior Design
30	Ar. Parul Gupta	Assistant Professor	EE
31	Dr. Pravin Sonwane	Professor	Computer Engineering
32	Mohammad Rashid	Assistant Professor	Hotel Management
33	Khushboo Tripathi	Assistant Professor	CE
34	Balwan	Assistant Professor	Chemistry 1 Year
35	Meena Tekriwal	Assistant Professor	Computer Engineering
36	Dr. Sandeep Kumar Sharma	Associate Professor	Computer Engineering
37	Dr. Kamlesh Gautam	Assistant Professor	ECE
38	Dr. Anila Dhingra	Associate Professor	Computer Engineering
39	Amit Kumar Jain	Assistant Professor	ECE
40	Dr. Purushottam L. Bhari	Associate Professor	Computer Engineering
41	Lalita Kumari	Assistant Professor	School of Public Health
42	Dr. Neeraj	Assistant Professor	Computer Engineering
43	Surendra Kumar Saini	Associate Professor	ME
44	Gaurav Kumar Sharma	Assistant Professor	CS
45	Dr. Jyoti Shukla	Associate Professor	EE
46	Prateek Sharma	Assistant Professor	CE
47	Divya Vishnoi	Assistant Professor	CE
48	Shazia Haque	Assistant Professor	IT
49	Dr. Budesh Kanwer	Professor	CS
50	Amit Gupta	Assistant Professor	Computer Engineering
51	Dr. Pankaj Gakhar	Assistant Professor	EE



Certificate of FDP:



Certificate No: ICT/2669/21-22

National Institute of Technical Teachers Training and Research, Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

Dr. SHILPI JAIN

POORNIMA COLLEGE OF ENGINEERING, JAIPUR (RAJASTHAN)

Participated in AICTE recognized Short Term Course on

Digital Media Tools for Effective Teaching Learning through ICT

conducted by

Electronics and Communication Engineering Department

from

***21.03.2022** to **25.03.2022** (One Week)*

at

Poornima College of Engineering, Jaipur (Rajasthan)

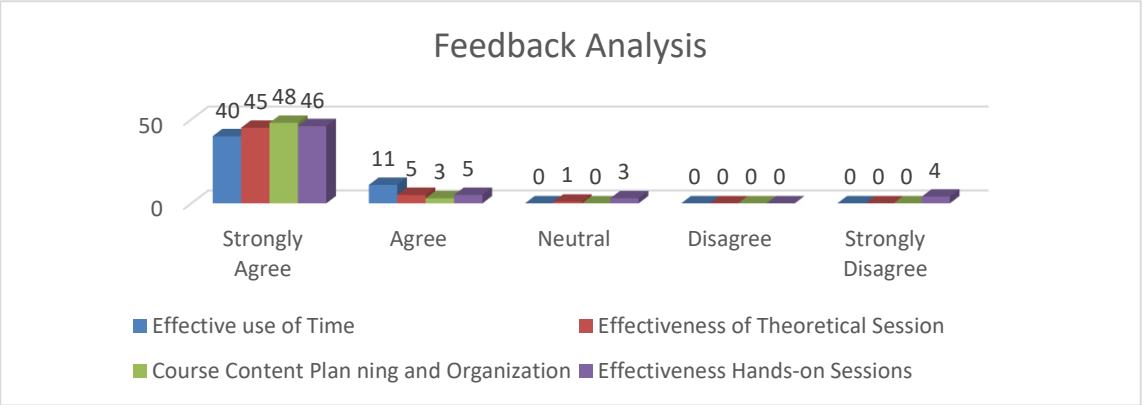
Coordinator

Director

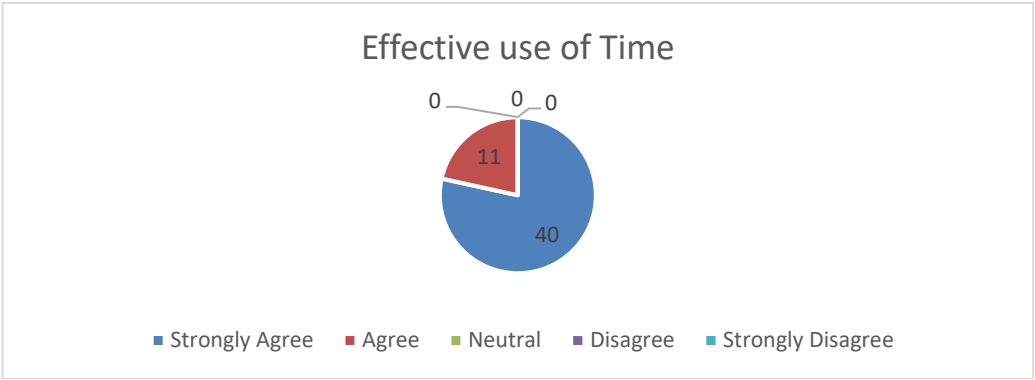
- **FEEDBACK ANALYSIS:**

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness Hands-on Sessions
Strongly Agree	40	45	48	46
Agree	11	5	3	5
Neutral	0	1	0	3
Disagree	0	0	0	0
Strongly Disagree	0	0	0	4

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- **SWOT ANALYSIS:**



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A Report on 5-days Faculty Development Program

- **TITLE AND DURATION:** "Artificial Intelligence N-Dimension Perspectives, AI Ethics February 24-28, 2022
- **SPONSORS:** Poornima College of Engineering
- **SUPPORTERS:** RTU Recognized Centre of Excellence in AI and Big Data
- **ORGANIZERS:** Department of Computer engineering, Poornima College of Engineering, Jaipur
- **OBJECTIVES:**

  The main objective of this Five Days Online Training Program was to cover the fundamentals of Artificial Intelligence (AI), its presence in various sectors, not only Technical but Managerial aspects and implementations. Also, hands on coding in Python and R Studio on important terminologies of AI were also taught. Now a days India covered the ongoing applications of AI with respect to Central and State Governments in India. AI Ethics and Government Regulations are usage of citizen's data and AI audit. Its main focus was on Ethical aspects of AI and how culture, language, region play a significant role while developing a framework for AI Ethics.

- **EXPECTED OUTCOMES:**
  - Gain Knowledge basics of Python, R, Hands on exercises using Python.
  - Introduction to AI Ethics. AI Ethics -Comparison of Global frameworks.
  - Understanding dimensions of AI-various categories, Machine Learning and its types in detail.
  - Learn about Statistics in AI, understanding basic terminologies. Clustering and Data Visualization.
  - Understand how to do Hands on exercise using Python (Mini project understanding)

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- **BROCHURE / POSTER / LEAFLET / FLYER:**



Centre of Excellence in AI and Big Data is organizing
Five Days Online Training Program on
Artificial Intelligence N-Dimension Perspectives, AI Ethics

February 24-28, 2022

Department of Computer Engineering

POORNIMA COLLEGE OF ENGINEERING

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

ABOUT THE PROGRAM

Artificial Intelligence (AI) is gaining grounds not only in technical arena but managerial aspects in industry and academia. This program aims at discerning knowledge of Artificial Intelligence theoretically as well as in real world applications with demonstration using Python & R Studio.

Salient features of the Training Program are:

- Theme of Artificial Intelligence: Its role in designing Indian Government Strategies
- Hands on coding for various important concepts of AI & live project demonstration in Python
- Governing AI through biased ethics: A cure worse than the disease
- Designing innovative case studies in AI

ABOUT CENTRE OF EXCELLENCE

The creation of Centre of Excellence aims at building the workforce of tomorrow in which each participant will learn about the principles of Artificial Intelligence, Machine Learning, AI programming using Python, Artificial Neural Network, Natural Language Processing with Lab, Computer Vision, Deep Learning, Intelligent Process Automation and many more. Some features are as following:

- Semester long internships at industry partners
- Online certification program
- Industry academia interactions on a regular basis
- Faculty Trainings and certification courses
- Student projects with beyond syllabus concept - project every semester.
- Faculty members pursuing research projects, sponsored research and other works in AI & Big Data utilizing above resources.
- Conducting Workshops, Seminars, FDPs, Trainings for external students and faculty members in AI & Big Data.

ABOUT INSTITUTE

Poornima 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 success. 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 glorious vision into unbelievable reality proving the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

ABOUT DEPARTMENT

The Department of Computer Engineering was established in July 2000. It administers bachelor's programs in Computer Engineering, as well as master's degree programs in Computer Science. The department is accredited by National Board of Accreditation for quality and outcome based education. The department's strengths include its high faculty-to-student ratio, state of the art facilities, renowned faculty, strong focus on undergraduate education balanced with leading-edge research, and emphasis on leadership, service and ethics. The Department aims at imparting quality education and strives to quench the thirst for knowledge. The Department lays emphasis on theoretical and practical aspects of subjects taught viz. Computer Technologies, Data Structures, and Information Security, Programming Languages, Networking, Database Management, Software Engineering, Operating System and several other domains of computer engineering.

REGISTRATION PROCESS

Registration Link:
https://forms.gle/kaiSajNjjhHeQXNM6

Registrations are open till **February 24, 1:00 pm.**

Delegate	Regular Fee
For Faculties	₹ 400/-
For Students / Research Scholars	₹ 100/-
For Industry	₹ 400/-

NEFT DETAIL

- A/C NAME – POORNIMA COLLEGE OF ENGINEERING
- BANK NAME- HDFC BANK LTD
- BANK A/C NO. 50200024936188
- IFSC CODE – HDFC0003873
- BANK MICR CODE – 302240028
- BANK CODE- 3873
- BRANCH NAME- SITAPURA, JAIPUR

PATRONS

Dr. Mahesh Bundele
Director,
Poornima College of Engineering

Mr. Pankaj Dhemla
Vice-Principal,
Poornima College of Engineering

PROGRAM CHAIR
Dr. Surendra Kumar Yadav
Head of Department, CSE

PROGRAM CO-CHAIR
Mr. Manish Dubey
Dy. H.O.D, CSE

COORDINATOR
Mrs. Snehal Moghe
Assistant Professor, CSE, PCE

CO-COORDINATOR
Mrs. Barkha Narang
Assistant Professor, CSE, PCE

RESOURCE PERSONS

Dr. Emmanuel R. Goffi is the Co-Director and Co-Founder of the Global AI Ethics Institute in Paris. Dr Goffi is an AI Ethics consultant, as well as a research member with the Z-Inspection ® Initiative Frankfurt, Germany. He is pioneer of AI Ethics and influences Government decisions on AI Regulation and Audit.

Jibu Elias is an AI Researcher and one of the leading experts on India's AI ecosystem. Jibu is the Research & Content Head of INDIAai -The National AI Portal of Govt of India. He also reviews AI Ethics Journal (Springer)

Dr. Niharika Singh has completed her Ph.D from University of Petroleum and Energy Studies, Dehradun in 2021 and currently Assistant Professor, (SS). Her research interests are Artificial Intelligence, Machine Learning, Robotics and Data Science.

Snehal Moghe, Assistant Professor Computer Science Department at Poornima College of Engineering, Jaipur. MTech Artificial Intelligence (Batch 20'-4) and research interests are Machine Learning, Expert System. Also supervises Software Development initiatives of Engineering Students.

ALL ATTENDEES WILL GET THE CERTIFICATE

- E-Certificates will be provided after successful completion of Training Program
- After registration, the attendees will receive a confirmation email containing information about joining the lecture.

Virtual platform: Microsoft teams

RSVP

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✉ : snehal.moghe@poornima.org
✆ : +91-9630041244

Mrs. Barkha Narang
✉ : barkha.narang@poornima.org
✆ : +91-9930682605

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- **PROGRAM SCHEDULE:**

Five Days Online Training Program

On

"Artificial Intelligence N-Dimension"

Organized by RTU Recognized Centre of Excellence in AI and Big Data

Q-Sheet Inaugural Session

Date: 24th February 2022 Time: 10:00 A.M. TO 10:30 A.M

Platform: MS Teams

Registration Link**: https://forms.gle/kai3ajNjhHeQXNM6**

To start with the Series of Training Programme for Academic Year 2021-22, the Centre of Excellence Artificial Intelligence and Big Data, Department of Computer Engineering, Poornima College of Engineering, Jaipur, organized a Five Days Online Training Program on "Artificial Intelligence N-Dimension" from February 24th, 2022 to 28th February 2022.

The main objective of this Five Days Online Training Program was to cover the fundamentals of Artificial Intelligence (AI), its presence in various sectors, not only Technical but Managerial aspects and implementations. Also, hands on coding in Python and R Studio on important terminologies of AI were also taught.

Mr. Jibu Elias, Research and Content Head, NASSCOM, India covered the ongoing applications of AI with respect to Central and State Governments in India. He discussed how youth, children, elder citizens can benefit from these innovative initiatives and he discussed the ease of technology usage and its scalability.

Dr. Emmanuel R Goffi, Co-Founder Global AI Ethics Institute Paris, covered AI Ethics and Government Regulations for usage of citizens data and AI audit. His main address was on Ethical aspects of AI and how culture, language, region play a significant role while developing a framework for AI Ethics.

Dr. Niharika Singh, Assistant Professor (Senior Scale) at University of Petroleum and Energy Studies Dehradun covered Introduction to AI, its usage, Introduction to Python, interdisciplinary use of AI in

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HR Analytics, Healthcare, etc. Also, mini projects on AI and one full day end to end project on Data Science was covered.

Mrs. Snehal Moghe, Assistant Professor, Computer Science Department, Poornima College of Engineering Jaipur took sessions on probability, statistics used in AI, its implementation in Python. There was an awareness session on comparison of AI Ethics frameworks used globally. Also, how to develop writing skills for AI mini cases.

Moreover, this program was interdisciplinary. Attendees benefitted not only from curated sessions but group activity as well, involving discussing a case study (prior provided) and write its solutions. Students of Maths, Science, Engineering streams 1st year onwards, and Management Students and Alumni of Poornima fraternity joined the event. Also, this was a skill enhancement Program for Faculties, in school or College, Management or Engineering domain.

Salient features of the Training Program were:

- Artificial Intelligence: Its role in designing Indian Government Strategies
- Hands on coding for various important concepts of AI; live project demonstration in Python
- Governing AI through biased ethics: A cure worse than the disease.
- Designing innovative case studies in AI

During the program many students asked various questions and query and all were addressed well by the speakers after each session. Artificial Intelligence is one of the most sought-after emerging technologies and contributes in building India as digital talent nation. Technologies like AI, Machine Learning, Big Data, etc to come up with cutting edge substitutes of traditional processes with fast changing world. The training was very nice and informative, well received by participants and we are all looking forward for the positive outcomes of the learning and training.

- **INAUGURAL SESSION:**

Date: 24th February 2022 Time: 10:00 A.M. TO 10:30 A.M

Platform: MS Teams

Registration Link**: https://forms.gle/kai3ajNjhHeQXNM6**

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S. No.	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Five Days Online Training Program by **Mrs. Barkha Narang**, Co-Coordinator, Poornima College of Engineering • **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering • **Dr. Emmanuel R. Goffi**, Co-Director and Co-Founder of the Global AI Ethics Institute in Paris • **Jibu Elias,** Research & Content Head , INDIAai -The National AI Portal of Govt of India. • **Dr. Niharika**, Assistant Professor, University of Petroleum and Energy Studies, Dehradun • **Mr. Pankaj Dhemla**, Vice Principal, Poornima College of Engineering • **Dr. Surendra Kumar Yadav,** HOD,CSE, Poornima College of Engineering • **Mr. Manish Dubey,** Dy. H.O.D,CSE, Poornima College of Engineering • **Mrs. Snehal Moghe**, Chief Coordinator, COE AI & BD ,Assistant Professor, CSE, Poornima College of Engineering	03 min	10.00 am-10.03 am
2	Welcome Address by **Dr. Mahesh Bundele,** Director & Principal, Poornima College of Engineering, Jaipur	05 min	10.03 am to 10.08 am
3	Felicitation of Resource Persons	5 min	10.08am to 10.13 am
4	Vote of Thanks by Mrs. Snehal Moghe, Assistant Professor, PCE	5 min	10.13 am to 10.18 am
5	Digital Photograph	2 min	10.18 am to 10.20 am
		Total: 20 min (approx.)	

DETAILS OF RESOURCE PERSONS:

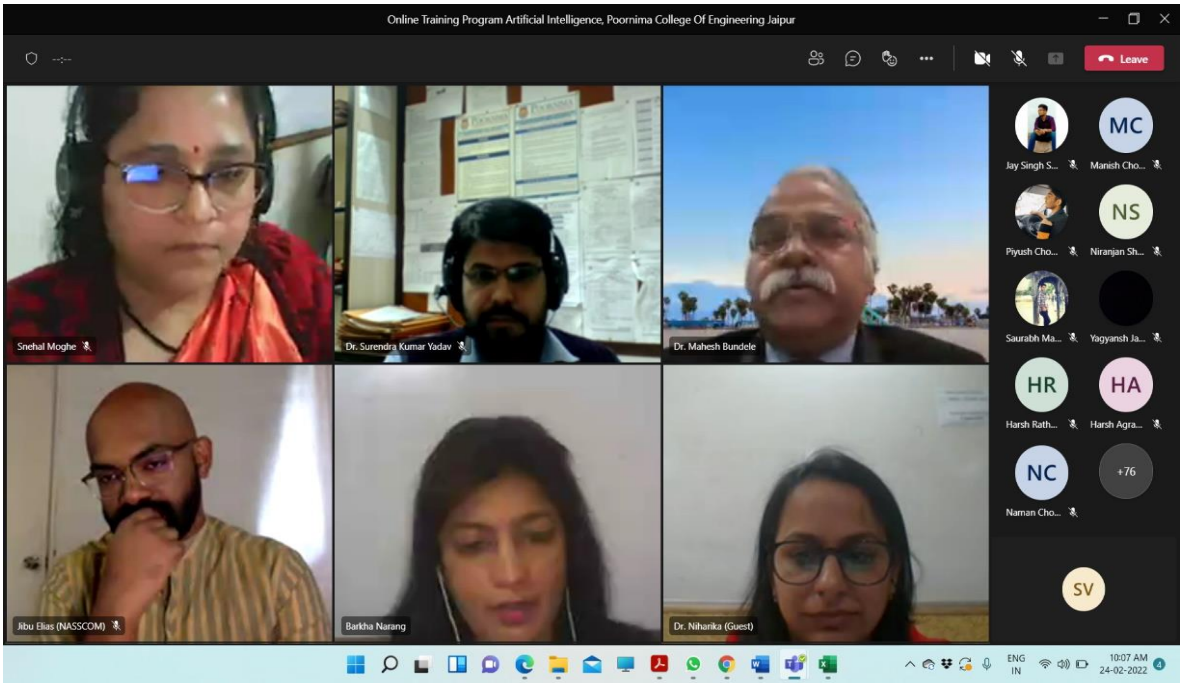
- Dr. Emmanuel R. Goffi who is the Co-Director of the Global AI Ethics Institute in Paris
- Mr. Jibu Elias is an AI Researcher and one of the leading experts on India's AI ecosystem
- Dr. Niharika Singh who is Ph. D from University of Petroleum and Ene

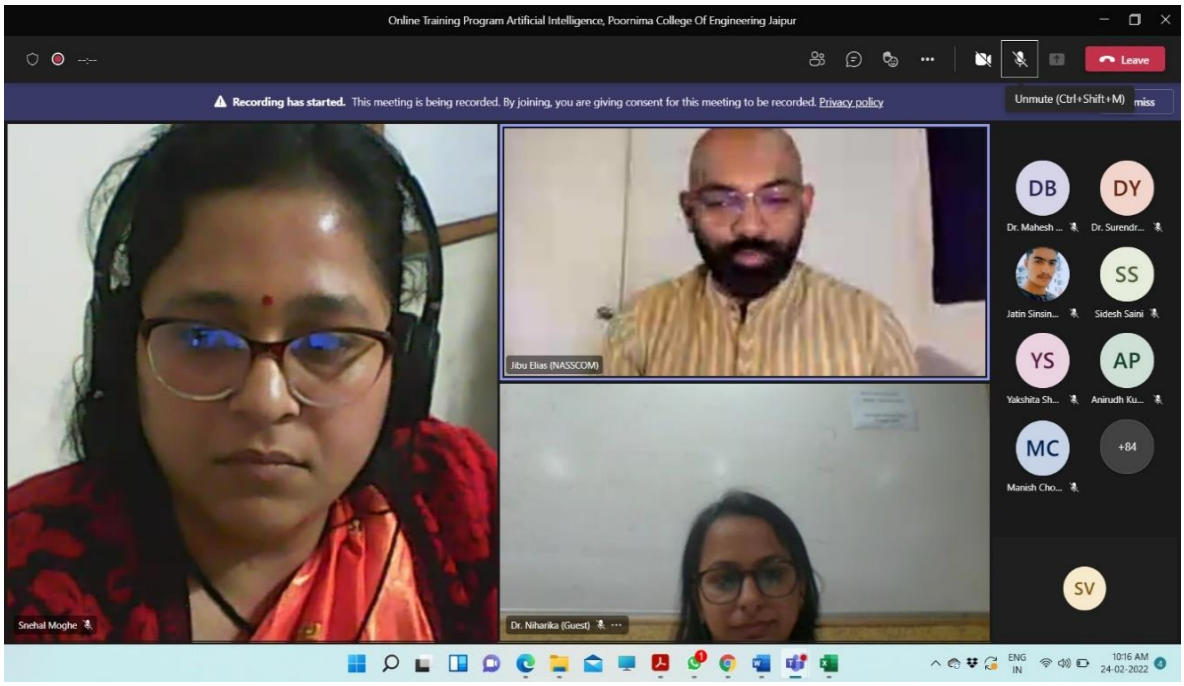
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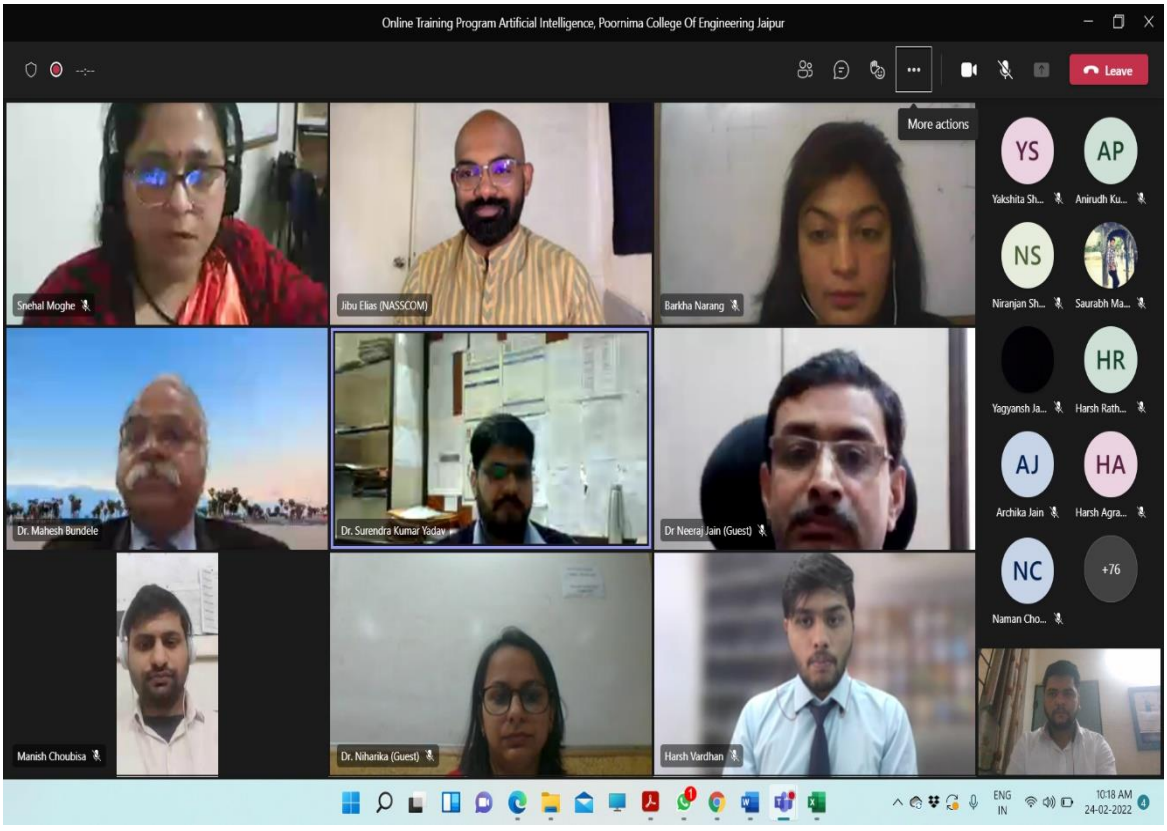
- Mrs. Snehal Moghe, Assistant Professor Computer Science Department at PCE. Jaipur.

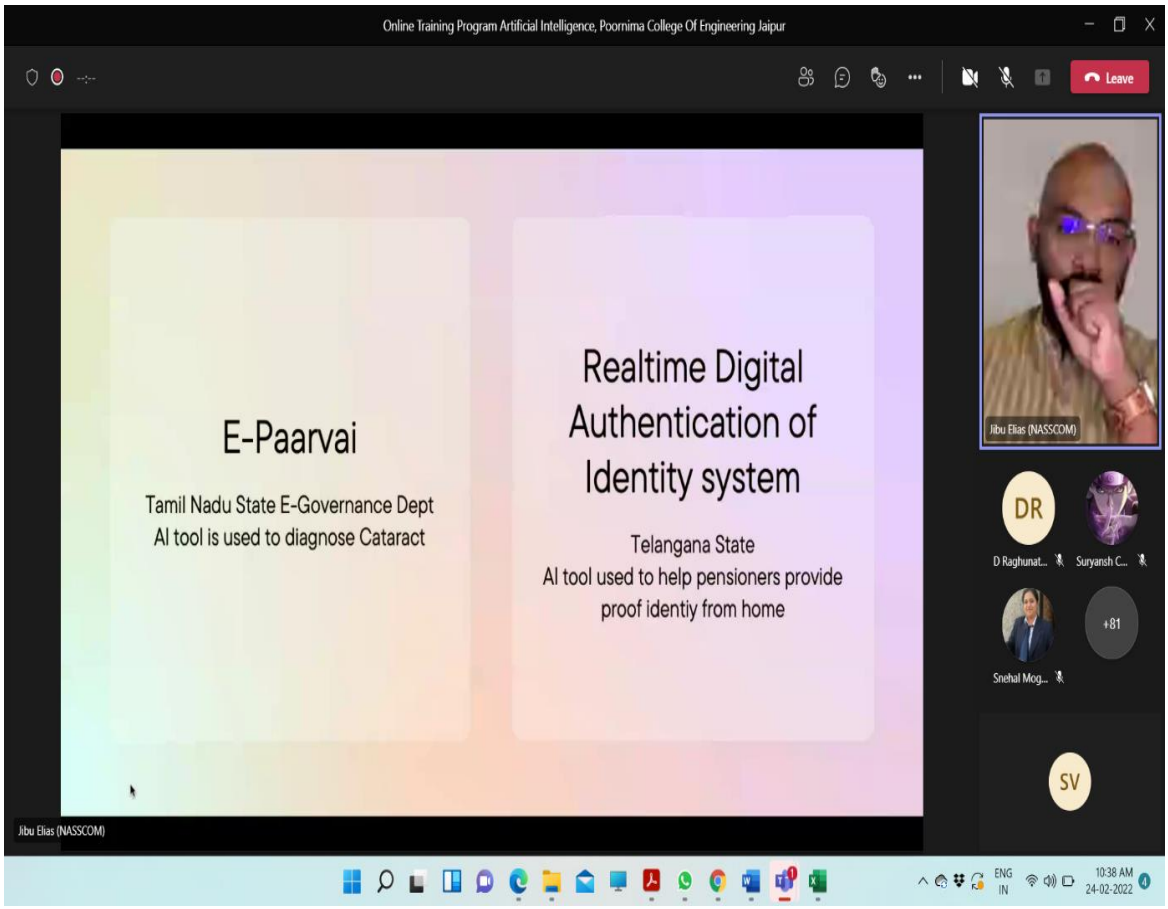
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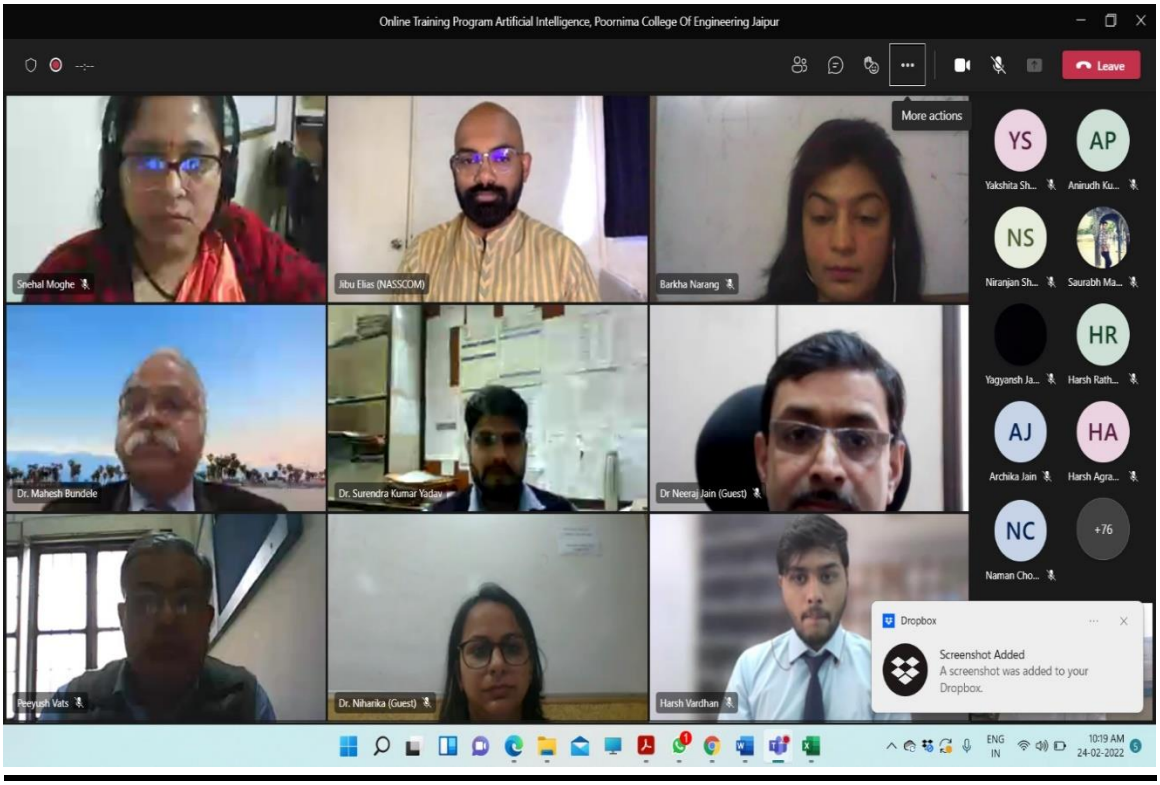


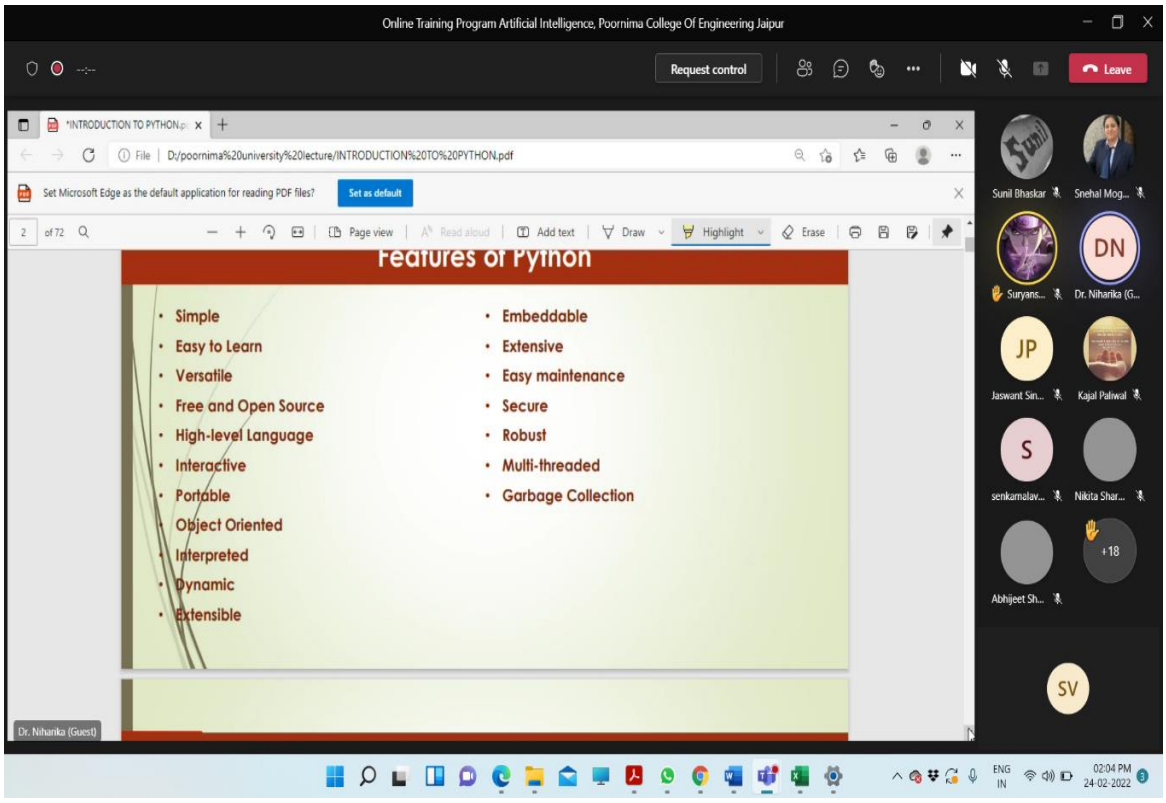
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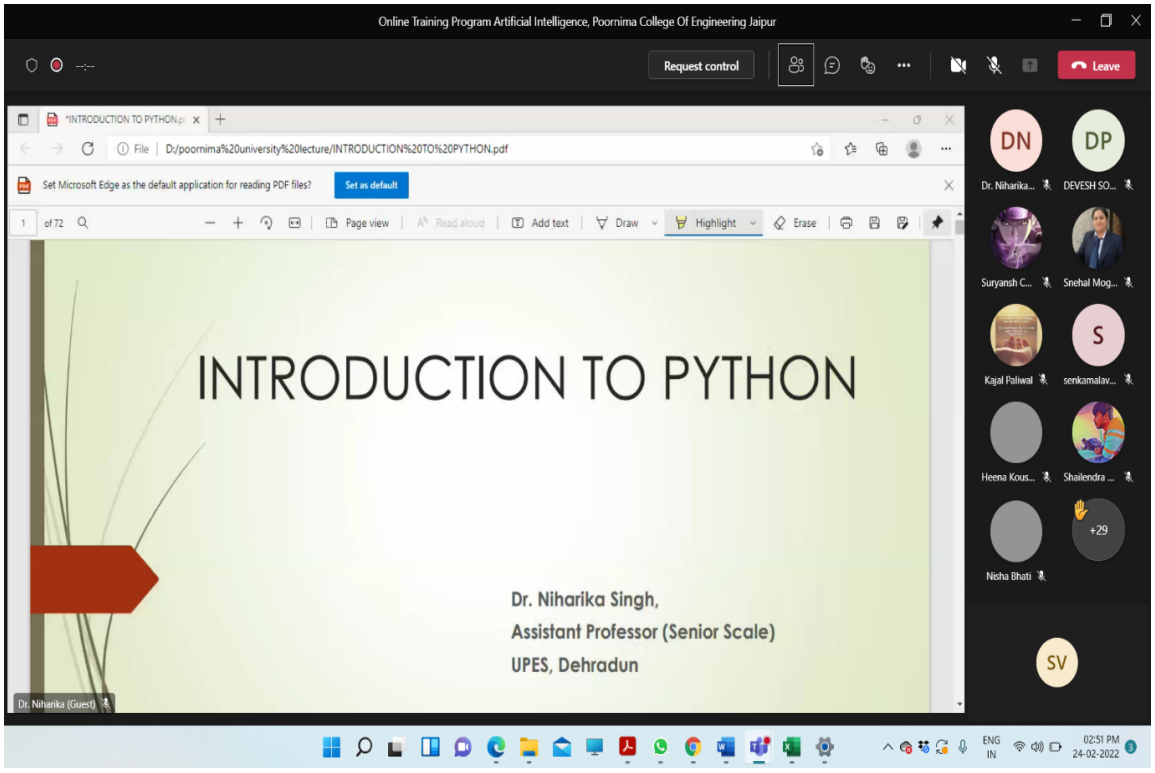


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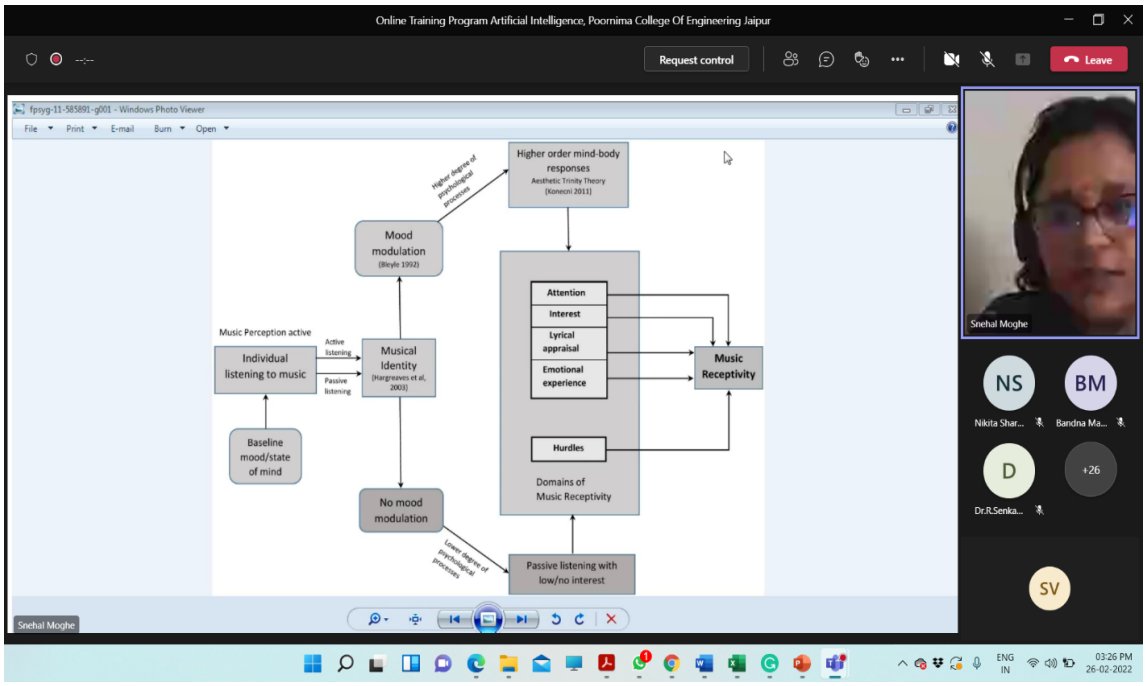
CONTENT DELIVERY / PRACTICAL SESSIONS:

- Theme of Artificial Intelligence: Its role in designing Indian Government Strategies
- Governing AI through biased ethics: A cure worse than the disease
- Hands on coding for various important concepts of AI & live project demonstration in Python.
- Designing innovative case studies in a Introduction to Artificial Intelligence role in designing Indian Government's Strategies.

VALEDICTORY SESSIONS:

Felicitation of Resource Persons and Vote of Thanks by Mrs. Snehal Moghe, Assistant Professor, PCE and then the photographs were taken.

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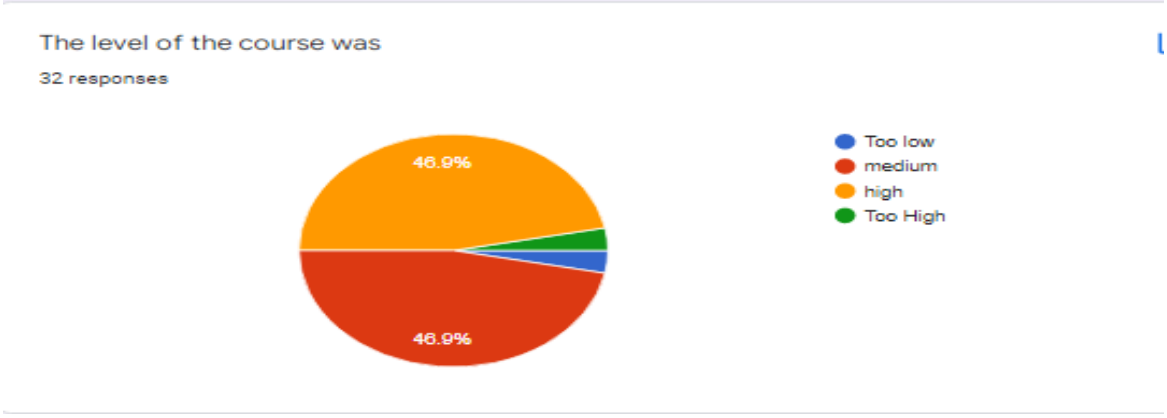
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- **FEEDBACK ANALYSIS:**

Feedback and views shared by the participants revealed that all the Session Experts have successfully fulfilled the objectives. Participants has given positive remarks and shown their satisfaction. Lot many participants, both students and faculty cleared their doubts regarding the subject of the training.



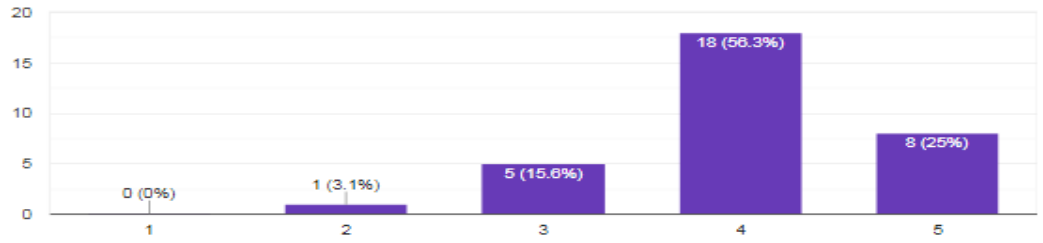


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Will you recommend this course to your colleagues?

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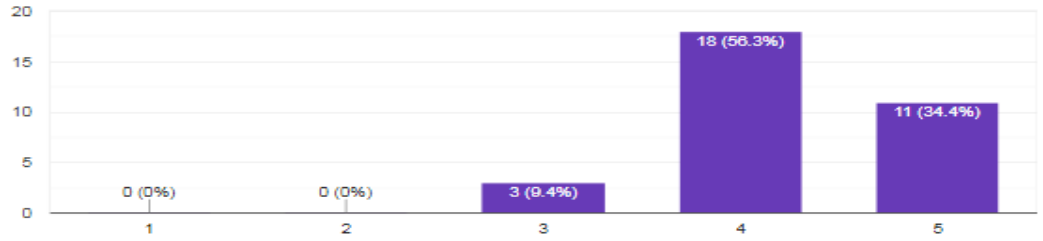
32 responses



The lectures were clear and easy to understand

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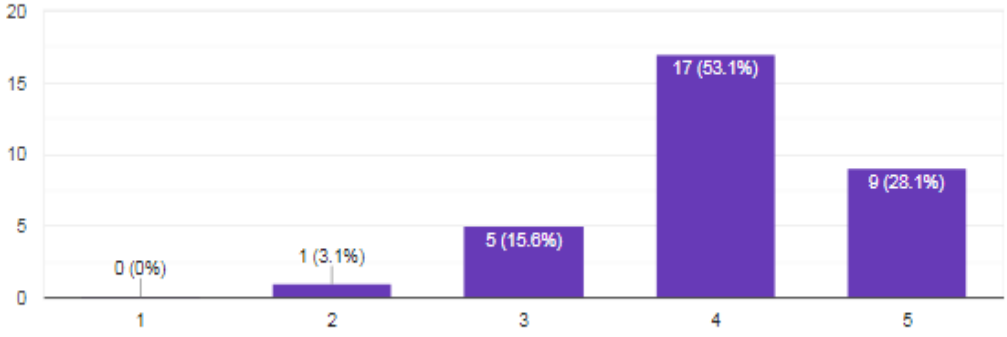
32 responses



The course contents met with your expectations

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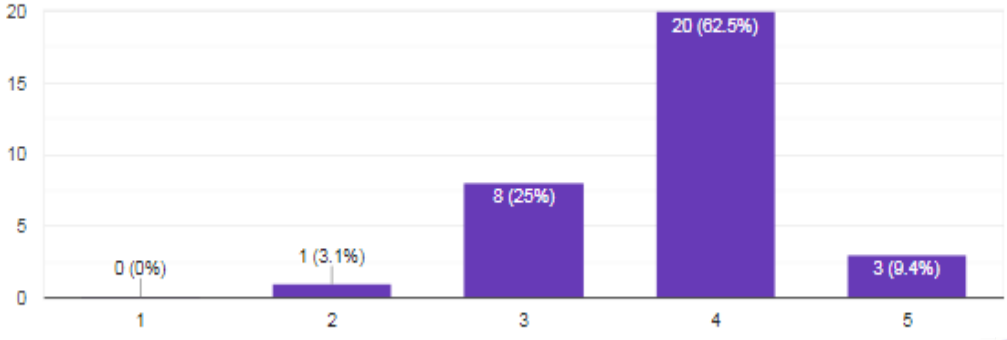
32 responses



The course content compared with your expectations

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32 responses



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- **SWOT ANALYSIS:**

  - It promotes student-centered learning and collaboration.
  - Lessons and Contents are more accessible
  - It can more efficient
  - It relies on preparation and trust
  - There is significant work on the front end.
  - This is more about proper planning and includes any iteration required for the purpose of highly building highly scalable software.

- **BUDGET & ACTUALS: N/A**

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A Report on 5-days Faculty Development Program

- **TITLE AND DURATION:** "Cloud Infra and Blockchain" from November 15 to 19, 2021.
- **SPONSORS:** Poornima College of Engineering
- **SUPPORTERS:** Rajasthan Technical University Kota.
- **ORGANIZERS:** RTU Recognized Centre of Excellence in AI and Big Data.
- **OBJECTIVES:**

The blockchain program helps the learners start from the fundamentals and then cover all the technical and functional aspects needed to build any blockchain solution using the best tools and techniques in the industry. In this program, they will build smart contracts, bitcoin wallets, create transactions, fabric ode and more.

Cloud computing are making a great change in the field of information technology and communication. IoT has brought a great change in living standards along with several new industrial, consumer, and commercial service-related applications, which is making our life much easier and comfortable. IoT is a system of interconnected physical objects that are embedded with sensors, software, and other technologies that are used for the purpose of connecting and exchanging data with other devices and systems over the Internet. In the last two decades, Agile methodology has been adopted by various software product and services companies. The incremental and iterative approaches brought collaboration and coordination among software development teams and assisted software development. To realize the full potential of Agile methodology and associated program management it is necessary to explore the arrangements of organizational practices along with information technology innovations

Microsoft Azure is a cloud computing platform and is offering a range of products and services. Azure has enables businesses to scale up their presence, performance and profitability with subscription-based infrastructure, platform and services. With stringent security for data protection, Azure is highly available, scalable and robust platform for deploying and developing business solutions. Hosting, controlling and managing applications with anytime anywhere access has led Azure to take a front seat among various cloud platforms.

Blockchain technology is an emerging technology in the field of Decentralized and transactional sharing of data among number of participants. The technology enables [illegible] secure

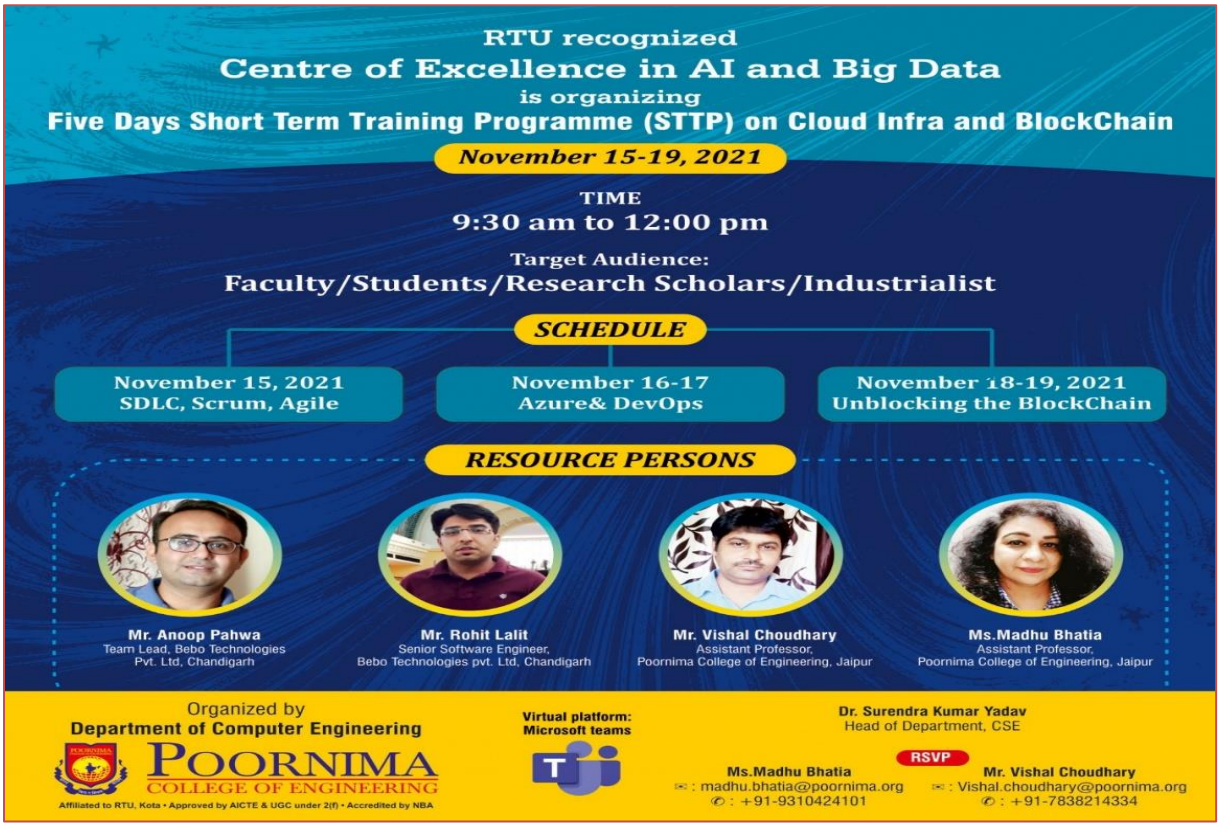
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maintenance of large number of transactional records. The technology is successfully used in implementation of Crypto currency and has good potential in various domains like E-governance, healthcare, supply chain management, cyber security etc.

The objective of the STTP is to provide conceptual knowledge and research opportunities by incorporating techniques of Agile, Scrum essentials, Cloud and Block chain. The STTP aims at equipping participants with skills and knowledge in order to create a better society by guiding, training and motivating the students to take up research projects.

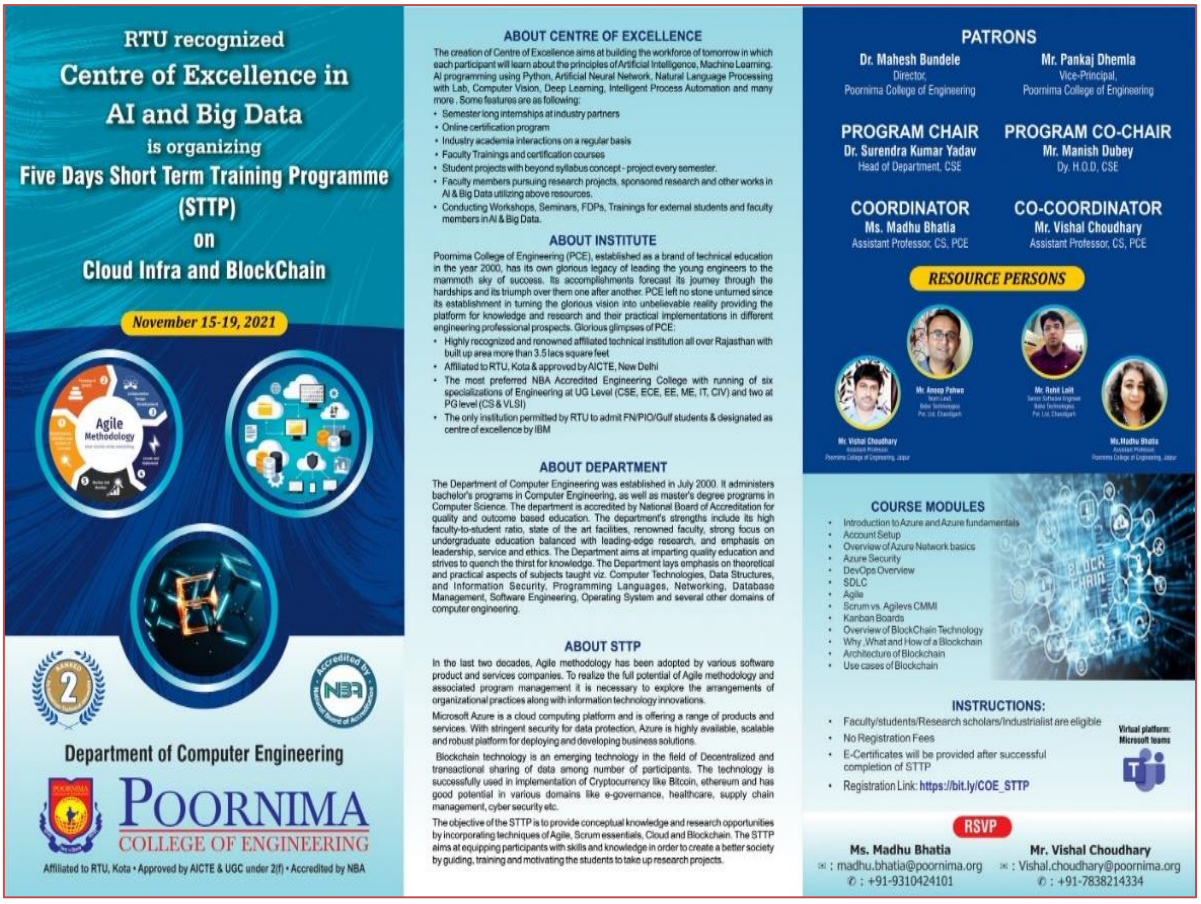
EXPECTED OUTCOMES:

- Bringing together the Blockchain technologists, enthusiasts, and faculty to discuss the Latest algorithms, applications and issues in area of Cloud.
- Identifying Industry challenges and sensitize about latest trends and technologiesin area of Block chain and Cloud.
- 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 Block chain.



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- **BROCHURE / POSTER / LEAFLET / FLYER:**



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- **PROGRAM SCHEDULE:**

Program Outline		
Monday, Day 1: 15 November, 2021		
9:10 am-9:30 am	**INAUGURAL**	
9:30 am-10:45 am	Agile Methodology and Framework	**Mr. Anoop Pahwa** **Mr Rohit Lalit** Bebo Technologies pvt Ltd
10:45 am-11:00 am	**BREAK**	
11:00 am - 12:00 noon	Agile Hands-on	**Mr. Anoop Pahwa** **Mr Rohit Lalit** Bebo Technologies pvt Ltd
Tuesday, Day 2: 16 November, 2021		
9:30 am-10:45 am	Introduction To Cloud Computing	**Mr. Vishal Choudhary** Assistant Professor PCE
10:45 am-11:00 am	**BREAK**	
11:00 am - 12:00 noon	Introduction To Azure Cloud Platform	**Mr. Vishal Choudhary** Assistant Professor

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		PCE
Wednesday, Day 3: 17 November, 2021		
9:30 am-10:45 am	Azure Hands-on	**Mr. Vishal Choudhary** Assistant Professor PCE
10:45 am-11:00 am	**BREAK**	
11:00 am - 12:00 noon	Azure Hands-on	**Mr. Vishal Choudhary** Assistant Professor PCE
Thursday, Day 4: 18 November, 2021		
9:30 am-10:45 am	Understanding of Block Chain Technology	**Ms. Madhu Bhatia** Assistant Professor PCE
10:45 am-11:00 am	**BREAK**	
11:00 am - 12:00 noon	Blockchain Architecture	**Ms. Madhu Bhatia** Assistant Professor PCE
Friday, Day 5: 19 November, 2021		
9:30 am-10:45 am	Introduction to Smart Contracts	**Ms. Madhu Bhatia** Assistant Professor PCE
10:45 am-11:00 am	**BREAK**	
11:00 am - 12:00 noon	USE CASES of Blockchain	**Ms. Madhu Bhatia** Assistant Professor PCE
12:00-12:05	**Valedictory Session**	

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INAUGURAL SESSION:

The course is intended to make the participants aware and able to work on this emerging area. Around 150 participants registered this STTP course to gain knowledge in the area of Agile framework, cloud Infra and applications by the use of Blockhain.

The program commenced on 15th November 2021 on Microsoft Teams with an introductory and motivational speech from following dignitaries:

- Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering
- Mr. Pankaj Dhemla, Vice Principal, Poornima College of Engineering
- Dr. Surendra Kumar Yadav, HOD,CSE, Poornima College of Engineering
- Mr. Manish Dubey, Dy. H.O.D,CSE, Poornima College of Engineering

At the beginning of the inaugural session Ms. Madhu Bhatia , Coordinator, and Mr. Vishal chaudhary Co-Cordinator has welcomed all the delegates and participants to the STTP and also highlighted the main objective and importance of this Short Term Training programme.

Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering addressed the gathering with his valuable inputs about knowledge sharing in various research areas and the importance of emerging technologies in today's world.

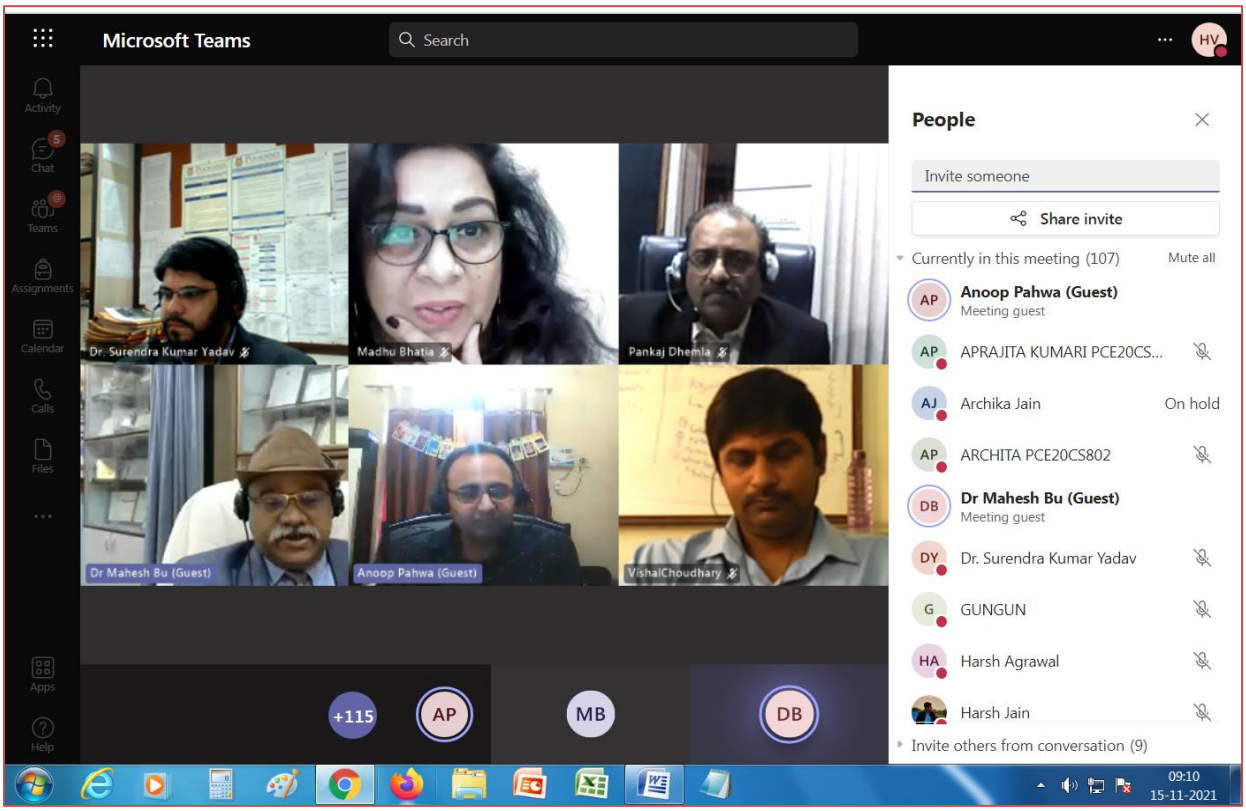
Dr. Surendra Yadav, H.O.D CSE dept. PCE introduced the resource person Mr. Anoop Pahwa and Mr. Rohit Lalit and also present vote of thanks to all the dignitaries and participants

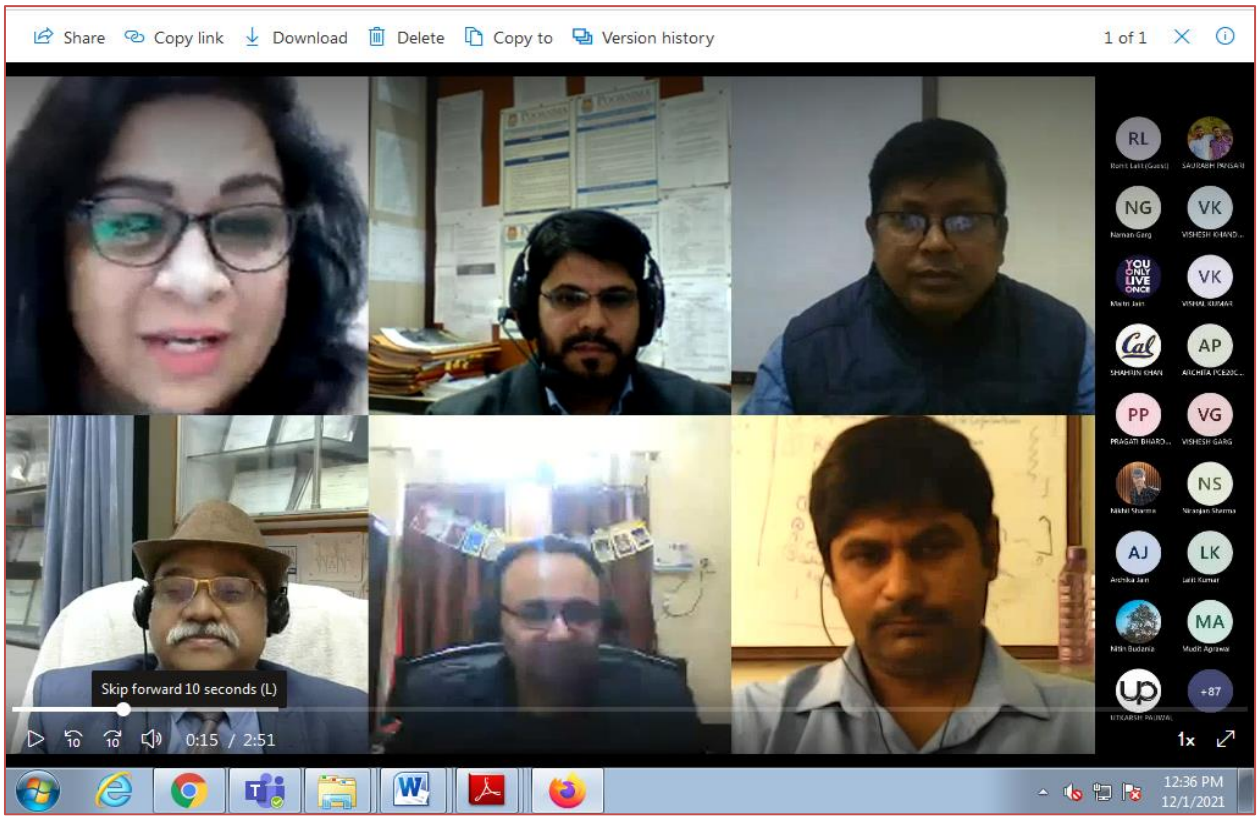
DETAILS OF RESOURCE PERSONS:

- Mr. Anoop Pahwa, Team Lead, Bebo Technologies Pvt. Ltd., Chandigarh.
- Mr. Rohit Lalit, Senior Software Engineer, Bebo Technologies Pvt. Ltd., Chandigarh.
- Mr. Vishal Choudhary, Assistant Professor, Poornima College of Engineering.
- Ms. Madhu Bhatia Assistant Professor, Poornima College of Engineering.

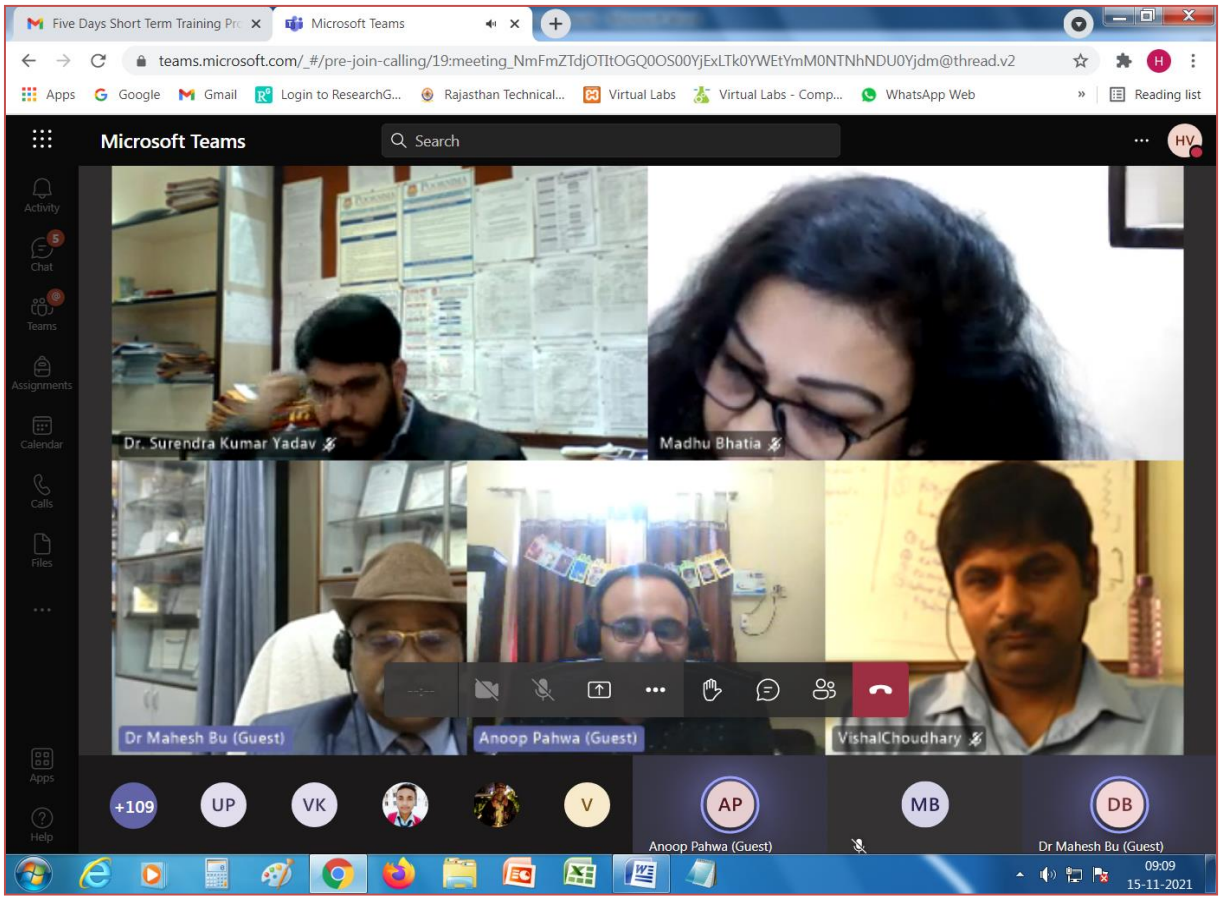
GLIPMSES OF CONDUCTION:

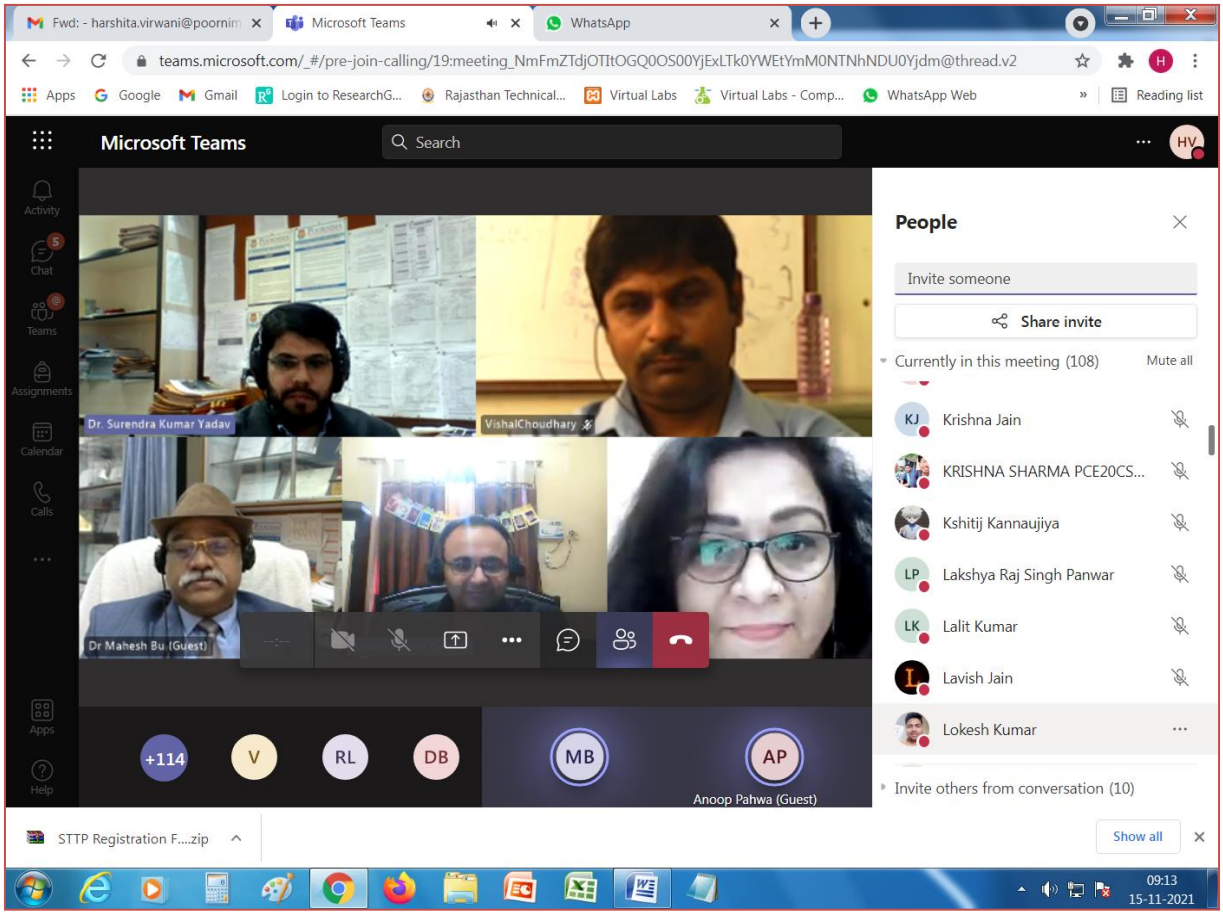
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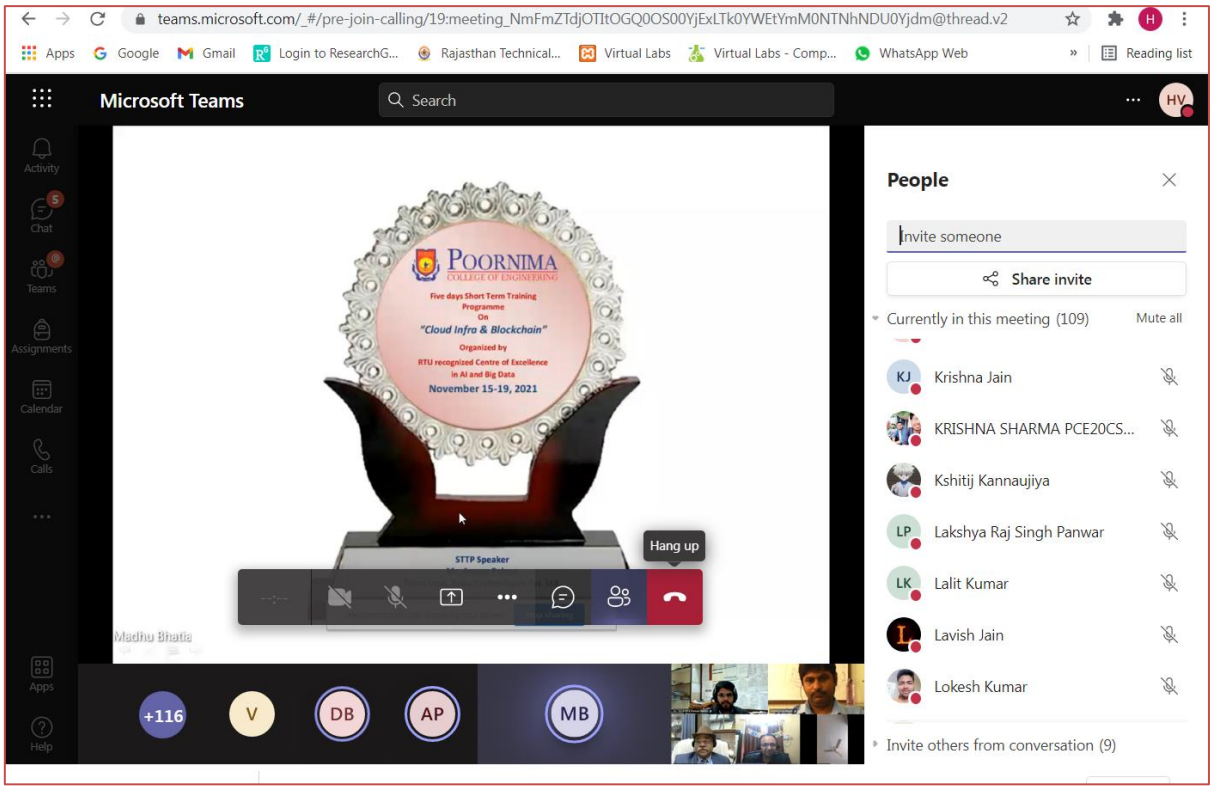


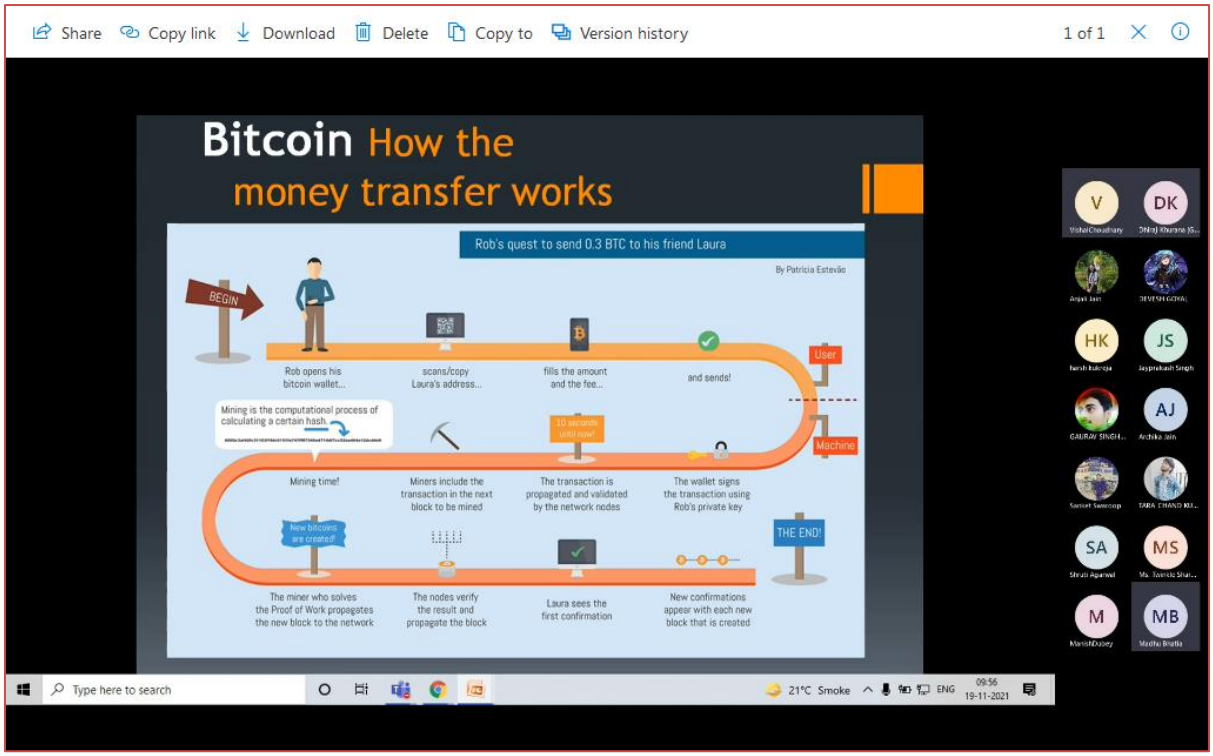
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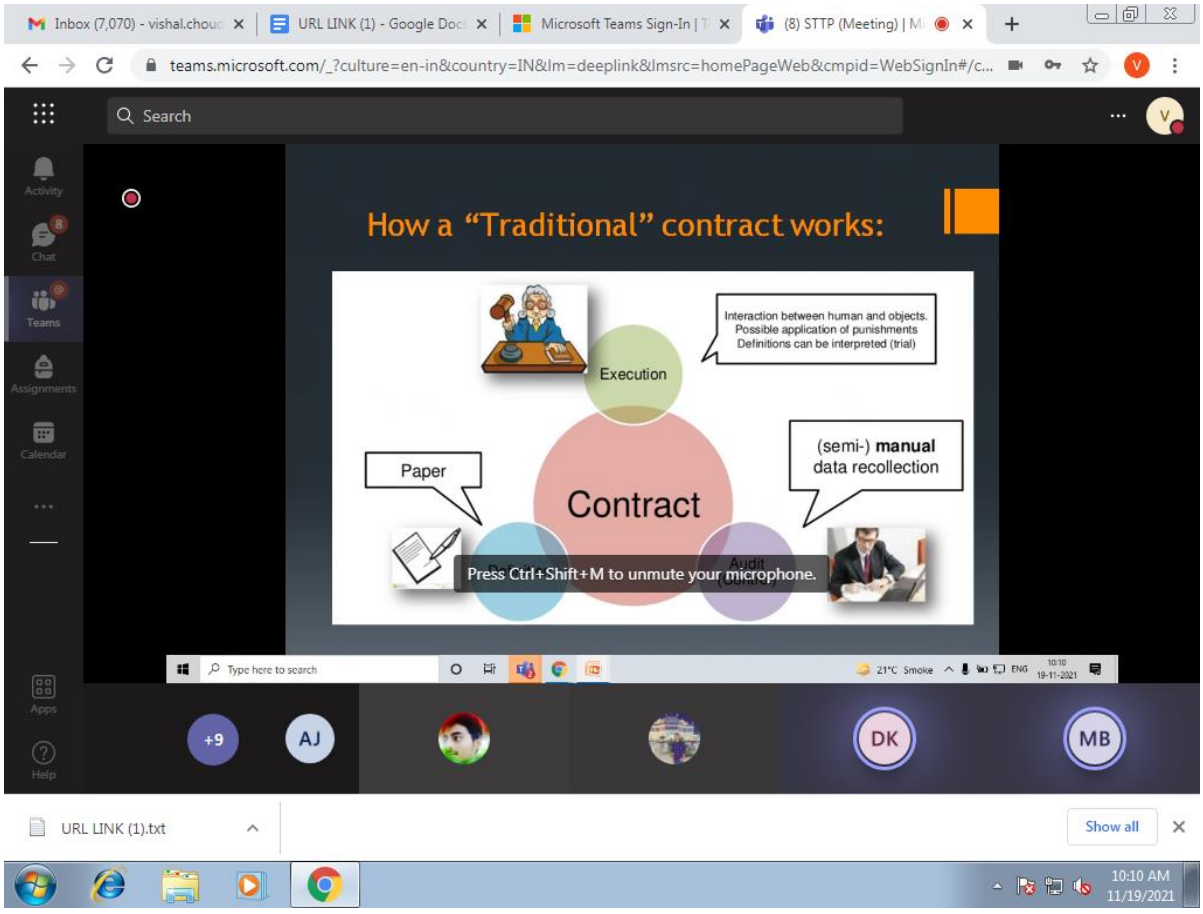


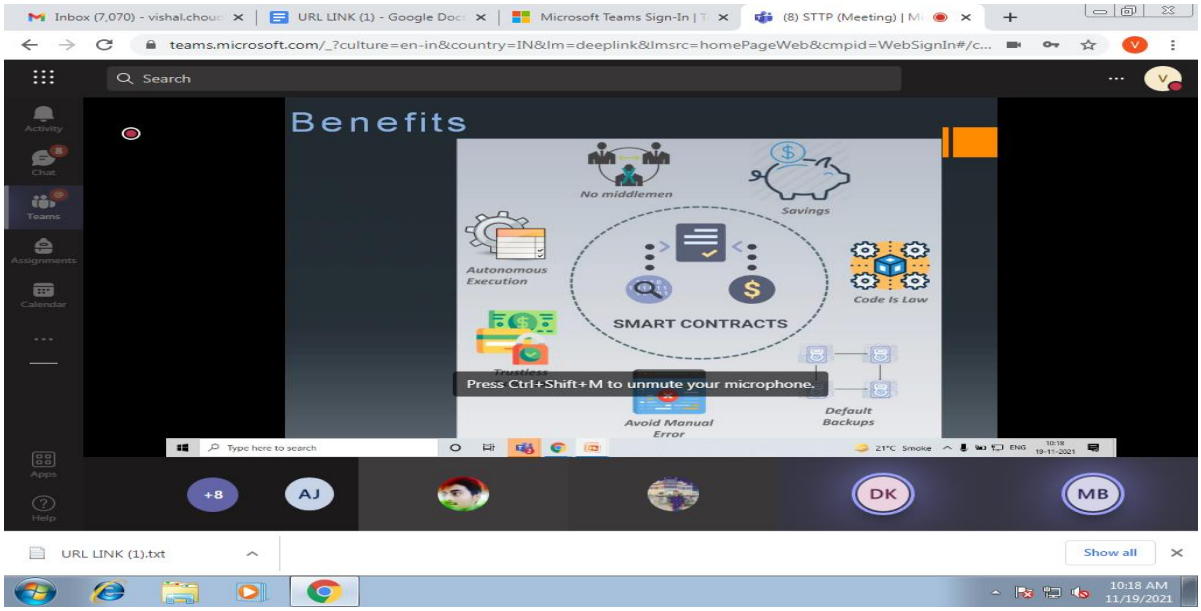
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CONTENT DELIVERY / PRACTICAL SESSIONS:

1. Introduction of computing and cloud computing concepts.
2. Description of Cloud Components
3. Area of Cloud Computing Applications
4. Why to Opt Cloud Computing?
5. Disadvantages of Cloud Computing.
6. To create account on Azure cloud platform
7. Introduction about the interface.
8. Introduction about different services that are available on this platform
9. To create storage space and add the data.
10. To create web application on azure cloud platform
11. To push local file on cloud platform.
12. Key Vocabulary of Blockchain
13. Distinction between Database and Blockchain
14. Distributed Ledger
15. Structure of a block, How Blockchain ecosystem works
16. Brief discussion on Digital signatures, Public Key Cryptography and Hash function
17. Advantages of Blockchain Technology.
18. Block Chain types and applications
19. Types of Blockchain,
20. Generations of Blockchain
21. The history of Crypto currency.
22. Bitcoin.

VALEDICTORY SESSIONS:

At the valedictory session, vote of thanks was given by Mr. Manish Dubey, Dy. H.O.D of CSE Dept. PCE in which he has paid his gratitude towards all the participants who has spared their valuable time for attending this STTP. He also expressed the gratitude to the Resource Persons, Mr. Anoop & Mr. Rohit for giving their valuable time for our participants and sharing their knowledge to them.

Nevertheless, he expressed his sincere thanks to Dr. Mahesh Bundele, Principal and Director, PCE and Dr. Surendra Yadav, HOD, CSE Department.

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jayprakash.singh@poornima.org	Mr.	Jay Prakash Singh	Poornima College of Engineering, Jaipur Rajasthan	Assistant Professor
2020pcecslokesh99@poornima.org	Mr.	Lokesh Sharma	PCE	Student
2019pietcsayushi39@poornima.org	Ms.	Ayushi Sharma	Poornima institute of engineering and	Stude

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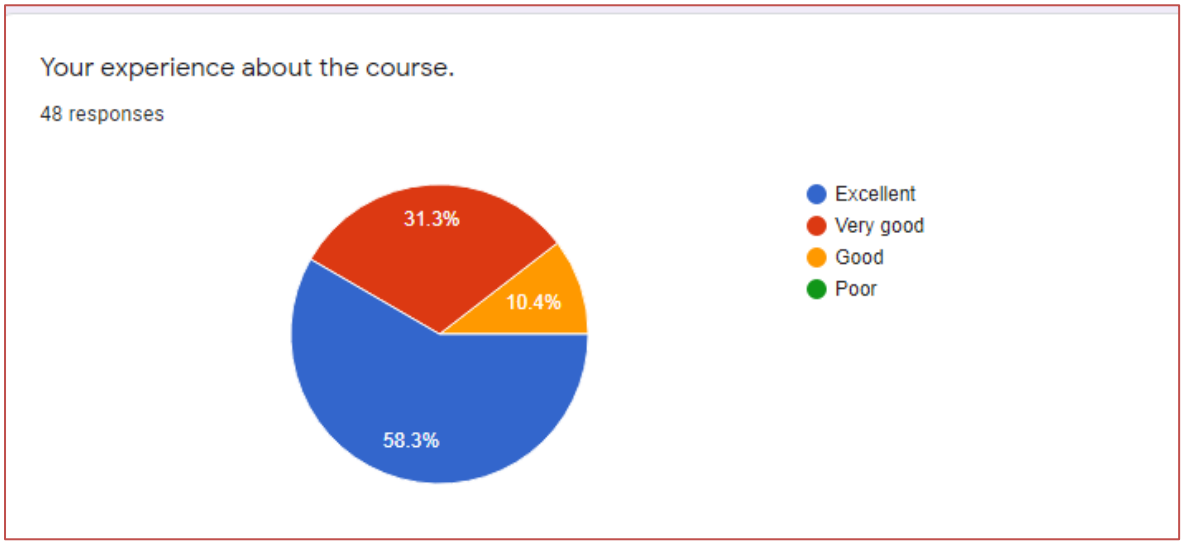
			technology	
2020csabhimanyu9115@poornima.edu.in	Mr.	Abhimanyu	Poornima University	Student
2020pceitgaurav63@poornima.org	Mr.	Gaurav Singh Rathore	Poornima College of Engineering Jaipur	Student
2020pceittara61@poornima.org	Mr.	Tara Chand kumawat	Poornima college of engineering jaipur	Student
2019pcecsanubha102@poornima.org	Ms.	Anubha Gupta	Poornima College of Engineering	Student

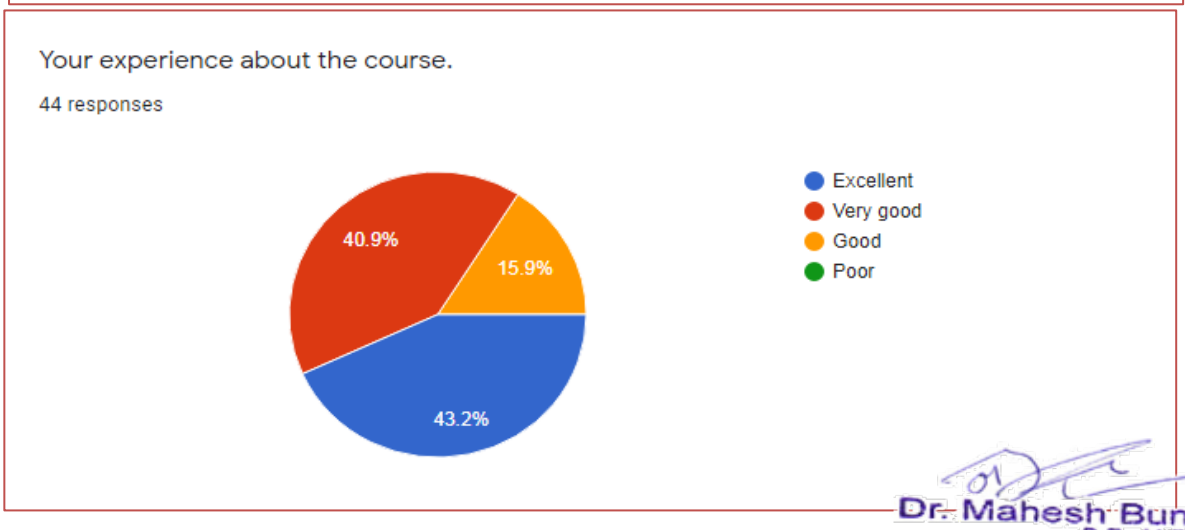
- **FEEDBACK ANALYSIS:**

Oral Feedback

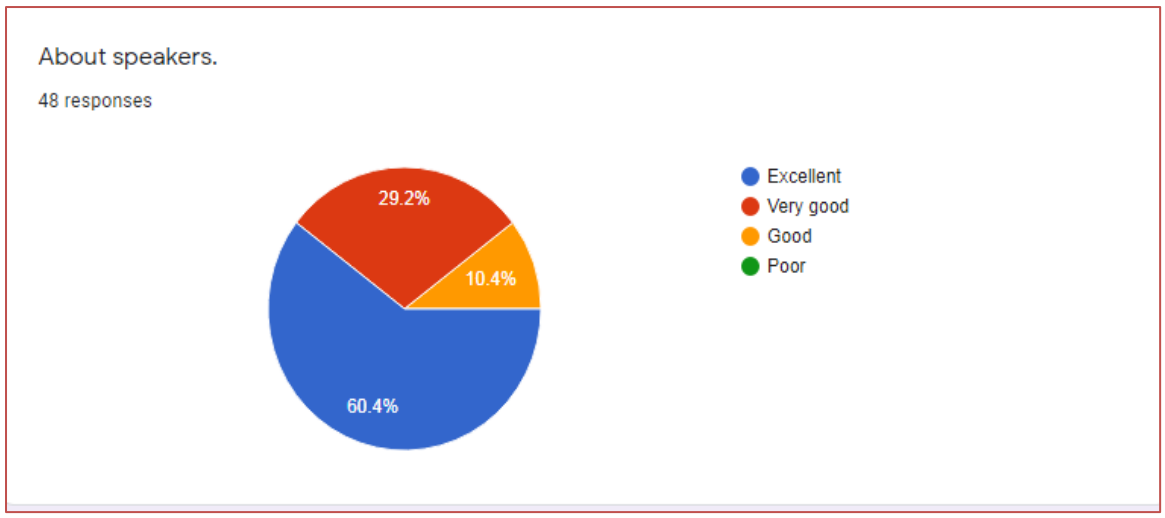
Oral feedback and views shared by the participants revealed that the Group Discussion has successfully fulfilled the objectives of the event. All the participants in their oral feedback has given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.

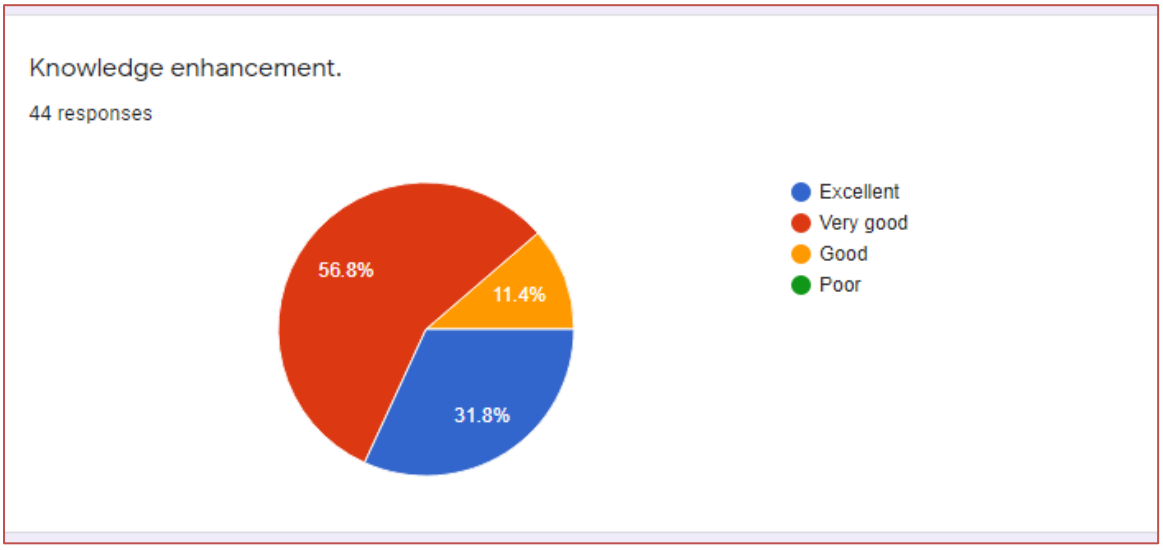
Feedback Online Mode: -





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- **SWOT ANALYSIS:**
  - It promotes student-centered learning and collaboration.
  - Lessons and Contents are more accessible
  - It can more efficient
  - It relies on preparation and trust
  - There is significant work on the front end.
  - This is more about proper planning and includes any iteration required for the purpose of highly building highly scalable software.
- **BUDGET & ACTUALS: N/A**

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A Report on 2-days Faculty Development Program

TITLE AND DURATION: "Digital Manufacturing Evolutions for Smart Industries" (August 16-20, 2021)

SPONSORS: TEQIP-III, Rajasthan Technical University Kota.

SUPPORTERS: Rajasthan Technical University Kota.

ORGANIZERS: Rajasthan Technical University, Kota and Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES: The event aims to provide an online platform to an in-depth discussion & networking on the various challenges and their possible remedies in the evolution of digital manufacturing, which will benefit participants from academics, R&D institutions, & Industries.

EXPECTED OUTCOMES:

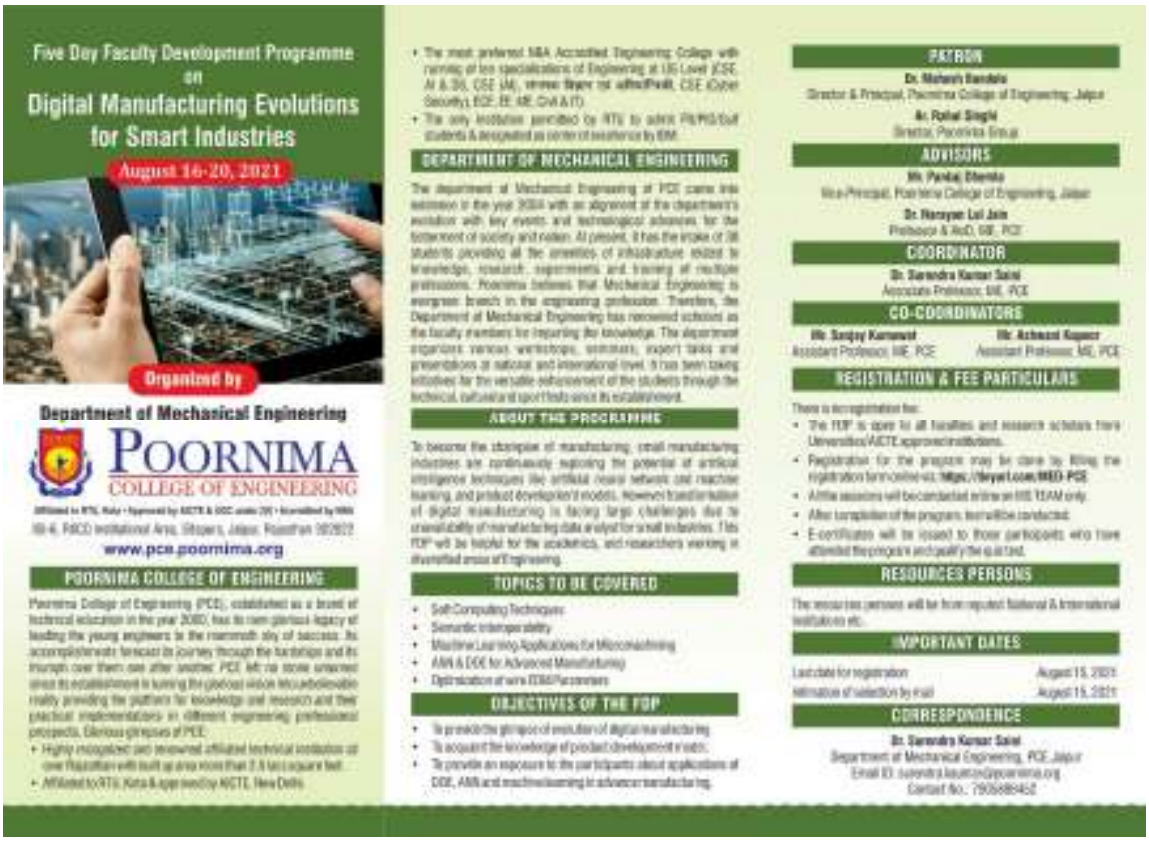
- To provide research-oriented discussion along with theoretical concepts, which shall facilitate the understanding of process through practical implementation in area of digital manufacturing.
- Bringing together the experts of alternative fuels, technologists, enthusiasts, and faculty to discuss the Latest issues and possible solutions in area of digital manufacturing.
- Identifying Industry challenges and sensitize about latest trends and technologies in area of digital manufacturing.

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BROCHURE / POSTER / LEAFLET / FLYER:



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POORNIMA
COLLEGE OF ENGINEERING

One Week Online FDP
on
Digital Manufacturing Evolutions for Smart Industries
Wednesday, August 16-20, 2021

Inaugral Ceremony

Wednesday, August 16, 2021

Online platform: Microsoft Team

Time: 03:18 PM to 04:00 PM (IST)

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PROGRAM SCHEDULE:

S.No	Activity	Duration	Time
1.	Gathering of Audience in Inaugural Ceremony	15 Min	03:18-03:33 PM
2.	**Arrival of Guests**	05 Min	03:33-03.38 PM
3.	Welcome of Dignitaries by the Ashwani Kapoor A. **Dr. P. J. Ramulu,** Director, Centre of Excellence for Advanced Manufacturing Engineering at Adama Science & Technology University, Adama, Ethiopia B. **Dr. Vivek. Pandey**, Associate Professor, Adama Science &Technology University, Adama, Ethiopia C. **Dr. P. Sudhakar. Rao**, Assistant Professor, NITTTR Chandigarh D. **Dr. R. K. Gupta**, Associate Professor, Manipal University Jaipur E. **Dr. H. R. Tonday**, Assistant Professor, SYCET, Aurangabad, Maharashtra F. **Dr. Mahesh Bundele,** Director & Principal, Poornima College of Engineering, Jaipur G. **Mr. Pankaj Dhemla**, Vice-Principal, Poornima College of Engg, Jaipur H. **Dr. Narayan Lal Jain**, Professor & HoD, Department of ME, PCE, Jaipur I. **Dr. Surendra Kumar Saini**, FDP Coordinator & Associate Professor, Department of ME, PCE, Jaipur	03 Min	03:38-03:41 PM
4.	A. **Felicitation of Dr. P. J. Ramulu,** Director, Centre of Excellence for Advanced Manufacturing Engg at Adama Science & Tech University, Adama, Ethiopia by **Dr. Mahesh Bundele,** Director & Principal, Poornima College of Engg, Jaipur. B. **Felicitation of Dr. Vivek Pandey**, Associate Professor, Adama Science &Technology University, Adama, Ethiopia by **Mr. Pankaj Dhemla**, Vice-Principal, Poornima College of Engineering, Jaipur C. **Felicitation of Dr. P. Sudhakar Rao**, Assistant Professor, NITTTR Chandigarh by **Dr. Narayan Lal Jain**, Prof & HoD, Dept of ME, PCE, Jaipur	03 Min	03:41-03:44 PM
	D. **Felicitation of Dr. R. K. Gupta**, Associate Prof, Manipal University Jaipur by **Dr. Surendra k Saini**, FDP Coordinator & Associate Prof, Deptt of ME, Poornima College of Engineering, Jaipur		
5.	**Introduction to the FDP** by **Dr. Surendra Kumar Saini**, Workshop Coordinator & Associate Professor, Department of ME, PCE, Jaipur	02 Min	03:44-03:46 PM
6.	Welcome address by **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur.	02 Min	03:46-03:48 PM
7.	Words of Wisdom by **Dr. R. K. Gupta**, Associate Professor, Manipal University Jaipur	02 Min	03:48-03:50 PM
8.	Words of Wisdom by **Dr. P. Sudhakar Rao**, Assistant Professor, NITTTR Chandigarh	02 Min	03:50-03:52 PM
9.	Words of Wisdom by **Dr. Vivek. Pandey**, Associate Professor, Adama Science &Technology University, Adama, Ethiopia	02 Min	03:52-03:54 PM
10.	Words of Wisdom by **Dr. P. J. Ramulu,** Director, Centre of Excellence for Advanced Manufacturing Engineering at Adama Science & Technology University, Ethiopia	02 Min	03:54-03:56 PM
11.	Group Photograph -Virtual	2 Min	03:56-03:58 PM
12.	Vote of Thanks by **Dr. Narayan Lal Jain**, Professor & Head, Department of ME, PCE, Jaipur	2 Min	03:58-04:00 PM
13.	Introduction & Expert Session by **Dr. P. J. Ramulu on *"Soft computing techniques and their applications in manufacturing problems"*,** Director, Centre of Excellence for Advanced Manufacturing Engineering at Adama Science & Technology University, Ethiopia.	90 Min	04:00-05:30 PM

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INAUGURAL SESSION:

To become the champion of manufacturing, small manufacturing industries are continuously exploring the potential of artificial intelligence techniques like artificial neural network and machine learning, and product development models. However transformation of digital manufacturing is facing large challenges due to unavailability of manufacturing data analyst for small industries. This FDP will be helpful for the academics, and researchers working in diversified areas of Engineering.

- Soft Computing Techniques
- Machine Learning Applications for Micromachining
- ANN & DOE for Advanced Manufacturing
- Optimization of wire EDM Parameters

  The programme provided an online platform to an in-depth discussion & networking on the various challenges and their possible remedies in the evolution of digital manufacturing.

Programme was initiated by a formal inaugural ceremony in the esteemed presence of Dr. P. J. Ramulu, Dr. Ravi Kumar Gupta, Dr. Vivek Pandey, Dr. H. R. Tonday Prof. Mahesh Bundele, Principal & Director, Poornima College of Engineering Jaipur and other dignitaries of the institute.

First day, Monday, August 16, 2021 technical session of the FDP was conducted by **Dr. P. J. Ramulu, ASTU Adma Ethiopia**. He delivered his talk on **Soft computing techniques and their applications in manufacturing problems** where he focused on various soft techniques and their potential in manufacturing.

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DETAILS OF RESOURCE PERSONS:

Dr. P. J. Ramulu, Director, Centre of Excellence for Advanced Manufacturing Engineering, Adama Science & Technology University, Adama, Ethiopia

Dr. Vivek. Pandey, Associate Professor, Adama Science &Technology University, Adama, Ethiopia

Dr. P. Sudhakar. Rao, Assistant Professor, NITTTR Chandigarh

Dr. R. K. Gupta, Associate Professor, Manipal University Jaipur

Dr. H. R. Tonday, Assistant Professor, SYCET, Aurangabad, Maharashtra

CONTENT DELIVERY / PRACTICAL SESSIONS:

First day, Monday, August 16, 2021 technical session of the FDP was conducted by **Dr. P. J. Ramulu, ASTU Adma Ethiopia**. He delivered his talk on **Soft computing techniques and their applications in manufacturing problems** where he focused on various soft techniques and their potential in manufacturing.



Second day, Tuesday, August 17, 2021, **technical talk of the second day** was conducted by **Dr. Ravi Kumar Gupta from Manipal University, Jaipur** on **Semantic interoperability in product development.** His talk was comprised of product development models.

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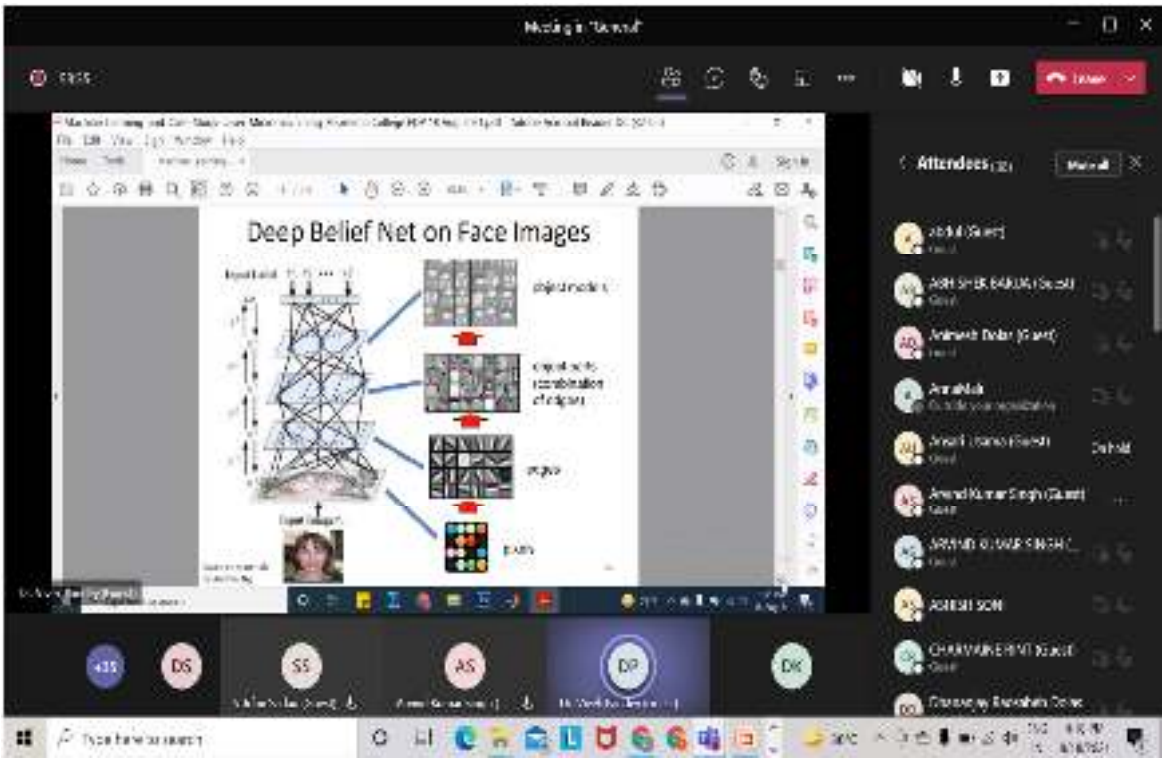


In the first session of third day Wednesday, August 18, 2021 of **FDP Dr. Vivek Kumar Pandey is working as Associate Professor, ASTU Adma Ethiopia** delivered his talk on **Machine Learning Applications for Micro Machining**.



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Technical session of fourth day Thursday, August 19, 2021 was delivered by **Dr. H. R. Tonday from SYCET, Maharashtra Evolutionary Computation Models for Optimization of Wire EDM Parameters** where he discussed about various techniques.





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Last day was delivered by **Dr. P. Sudhakar Rao on ANN and DOE Applications in Advanced Manufacturing Processes.** He discussed the artificial neural network and design of experiment techniques for manufacturing processes modeling and optimization.



LIST OF PARTICIPANTS:

LIST OF REGISTERED CANDIDATES :

S. No.	Name	Name of Institute/ Organisation
1	Harish	Poornima Groups
2	Sandeep Sharma	Poornima College of Engineering
3	Shivanand Kumar Singh	Poornima collge of Engineering
4	Abhishek Kumar	Poornima college of Engineering
5	Sumit Satish Jamkar	Sipna College of Engineering and Technology, Amravati
6	Shubham Yadav	Poornima college of Engineering
7	Ajay Kumar S	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
8	Mafidur Rahman	Jorhat engineering college
9	Vivek Pandey	Mody University of Science and Technology
10	Dr. Dhananjay R Dolas	MGM JNEC Aurangabad
11	Animesh Dhananjay Dolas	Vishwakarma Institute of Technology, Pune
12	Sunil Kumar Dehariya	Govt Polytechnic College Betul, Madhya Pradesh
13	Durga Prasad C	RV Institute of Technology and Management

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14	Abhinav Panwar	Dronacharya College of Engineering
15	Kishore S	Dr. Mahalingam college of engineering and technology
16	Yatna Bhagat	Government Polytechnic College Betul
17	M R Ramesh	INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH
18	Jyothi Padmaja K	Vasireddy Venkatadri Institute of Technology
19	V Raksha Urs	Manasagangotri, University of Mysore
20	Abdullah Khokar	Poornima college of engineering
21	Muthanantham M	P.A.C. RAMASAMY RAJA POLYTECHNIC COLLEGE
22	S.Saravanan	Muthayammal Engineering College
23	Ansari Usama Shakeel Ahmed	IIT Madras
24	Biswajit Pegu	Dibrugarh University
25	Chethana T V	NEW HORIZON COLLEGE OF ENGINEERING
26	K.Nageswara Rao	Sreyas Institute of Engineering and Technology
27	Amanjot	Maharaja Agrasen University Baddi HP
28	Shashidhara	new horizon college of engineering
29	Saeem Ansari	ALIGARH MUSLIM UNIVERSITY
30	Ankit	Indian Institute of Technology (IIT),MANDI
31	Muthukumaran Ramasamy	CMR INSTITUTE OF TECHNOLOGY - HYDERABAD
32	Sneha Suresh Bhende	RMD Sinhgad School of Engineeirng Pune
33	B. Syed Shaheed	TKR COLLEGE OF ENGINEERING &TECHNOLOGY
34	Swathi Gaddameedhi	Sri indu college of engineering and technology
35	Jai Rajesh P	Bharath institute of higher education and research
36	Dinesh Ramesh Salunke	RMD SINHGAD SCHOOL OF ENGINEERING
37	Gogula Santhoshreddy	Chaitanya deemed to be University
38	Golekar Pushkar Ramesh	RMD Sinhgad School Of Engineering
39	Md Aquib Ahsan	Jamia Millia Islamia, New Delhi
40	S.Deivanai	Delhi Skill and Entreprenuership University
41	Saswat Khatai	KIIT Deemed to be University
42	S Satheeskumar	CMR INSTITUTE OF TECHNOLOGY
43	Prasad Murali	Satya institute of technology and Management
44	Arun Kandukuri	Sri Venkateswara College of Engineering
45	A. A. Mali	RMD Sinhgad School of Engineering Pune
46	Nidhi Pandey	Chhatrapati Shahu Ji Maharaj University, Kanpur
47	Vikram Singh	poddar international college
48	Kuldeep K Saxena	GLA University, Mathura

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50	Murari Jee	UIET, PANJAB UNIVERSITY
51	Rituporn Gogoi	Indian Institute of Technology Mandi
52	Ashish Soni	National Institute of Technology Agartala
53	Kunal Gautam	Government Polytechnic, Sheikhpura
54	Pariniti	GITAM
55	Abdulmajeed Yahya Moqbel Saleh Alsabahi	UII
56	N. Aravindkumar	Sri Krishna College of Technology
57	Md Arif Anjum	Rajiv Gandhi Proudhogoki Vishwavidyalaya Bhopal
58	Alugonda Raj Kumar	GURU NANAK INSTITUTIONS TECHNICAL CAMPUS
59	Basant Kumar	Government polytechnic Sheikhpura
60	Sumit Jangra	IIT- Mandi
61	Yaramala Suresh	Sri indu college of engineering and technology
62	Satyendra Prasad	IEEE International USA
63	Pooja	Ggepps coaching
64	D H Pachchinavar	Lords Institute of Engineering and Technology
65	Abdul Razak Kaladgi	P.A College of Engg, Mangalore
66	Thikane Swapnil Jinendra	Sanjay Ghodawat Polytechnic
67	P.Umamaheswarrao	BAPATLA ENGINEERING COLLEGE
68	Vikas	Indian Institute of Technology Guwahati
69	Himanshu Rathore	Arya College of Engineering & I.T.
70	Nitesh Kumar	GC Jukhala Bilaspur Himachal Pradesh
71	Sree Bhattacherjee	Central University of Jharkhand
72	L Ravi	Sri Indu college of engineering and technology
73	S.V.Seshu Kumar Gajula	S.R.K.R ENGINEERING COLLEGE
74	Kollapuram Vijaya Kumar	Sri lndu College of engineering and technology
75	Ankita Sharma	Indira Gandhi Delhi Technical University for Women
76	Himanshu Shekhar	National Institute of Technology Durgapur
77	Owais Yousuf	INTEGRAL UNIVERSITY INDIA
78	Ayachi Mishra	Chandigarh University
79	P.Suresh	Muthayammal Engineering College
80	Shankesi Akhil	cmr institute of technology hyderabad
81	Rasmi Ranjan Mishra	Kiit Deemed to be university
82	Sudip Simlandi	Jadavapur University
83	Anand Babu Kotta	G H Raisoni college of engineering
84	Manish Tongaria	Poornima college of engineering
85	Mukulika Das	Diamond Harbour Women's University
86	Yakkaluri Pratapa Reddy	Koneru Lakshmaiah Education Foundation (KLEF)

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88	Gulraj Singh	Guru Nanak Dev Engineering College
89	Zankhan Chandrakant Sonara	MED CSPIT
90	Siddhi Panchal	Department of Chemistry, Gujarat University
91	Kolahalam Sai Babu	LBRCE
92	Y. Nagabhaskararao	Tirumala engineering college
93	G Srikar	KNRCER
94	Marri Srinivasa Rao	Sri Indu college of Engineering and Technology
95	K V Kasi Viswanadham	Mahatma Gandhi Institute of Technology
96	K Santosh Kumar	MGIT
97	Mangali Viswanath	Vardhaman college of engineering
98	Raga Sileshi	Adama science and technology unversity
99	Elias Dessie Assena	Adama Science and Technology University
100	Sarila Venu Kumar	Vardhaman College of Engineering
101	Mohd Talha Khan	MIT Moradabad
102	K.V.P. Chakradhar	VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD
103	Arvind Kumar Singh	Moradabad Institute of Technology, Moradabad
104	Siva Sankara Babu Chinka	`LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
105	Nishant Ranajn	CHANDIGARH UNIVERSITY
106	G. Nagamalleswara Rao	Eswar College of Engineering
107	Vinod Kumar Biradar	Sri Sairam College of engineering Bangalore
108	Kannan K	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY
109	Balamurali	PSNACET
110	G. Saravanan	PSNA COLLEGE OF ENGINEERING & TECHNOLOGY
111	Mr.R.KARTHIKEYAN	PSNACET, Dindigul
112	C.Venkateshwar Reddy	MATRUSRI ENGINEERING COLLEGE
113	Dhanalakshmi.R	P.A.C. RAMASAMY RAJA POLYTECHNIC COLLEGE
114	Ramai Ranjan Panigrahi	GP balangir
115	Pothedar Venkata Chary	TKRCET
116	Sharfuddin Shaik	TKRCET
117	Rakesh Kumar Gangwar	M.I.T. MORADABAD
118	Nenavath Surya	TKR College of Engineering and Technology
119	Jitendra Hemwani	Government Polytechnic College Betul MP
120	Gagan Malik	GH RAISONI UNIVERSITY AMRAVATI (M.S.) INDIA
121	Prof. (Dr.) Mohammad Israr	Poornima College of Engineering
122	Syeda Romana	Muffakham Jah College of Engineering and Technology
123	Md Yahiya	Muffakham Jah College of Engineering and Technology

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124	Manisha Kumawat	POORNIMA COLLEGE OF ENGINEERING
125	Ulfi Anggita Agrari	Dian Nuswantoro University
126	Vikramaditya Singh Prajapati	Stani memorial college of engineering and technology
127	Nitin Gudadhe	Shri Ramdeobaba College of Engineering and Management
128	Anil Madaan	Gec Bharatpur
129	Madhavan V M	Sona College of Technology
130	Devender Kumar Dhaked	RAJASTHAN COLLEGE OF ENGINEERING FOR WOMEN
131	Irayya Shikkerimath	Ballari Institute of Technology and Management
132	K.Shanmugavel	Sona College of Technology
133	Nallaiya. G	MURUGAPPA POLYTECHNIC COLLEGE
134	Mohan R	Sona college of Technology
135	Ericka E. Paiton	Polytechnic University of the Philippines-Alfonso Campus
136	Dhon Alfred Placido Hernandez	Polytechnic University of the Philippines-Alfonso Campus
137	Jannarie Rose Andaya	Polytechnic University of the Philippines - Alfonso Campus
138	Joshua B. Maniago	Polytechnic University of the Philippines - Alfonso campus
139	Chappeli Sai Kiran	CVR COLLEGE OF ENGINEERING
140	Pankaj Mishra	Kotak Bank
141	Christian C. Rollan	PUP-AC
142	Francis Tejie S. Tejano	Cebu Technological University-Tuburan Campus
143	Brixter Aaron R. Diga	Polytechnic University of the Philippines - Alfonso Campus
144	John Clarence A. Pereña	Polytechnic University of the Philippines
145	Franchesca Ysabelle D. Crusis	Polytechnic University of the Philippines
146	Mary Rose Guiral	Polytechnic University of the Philippines Alfonso
147	Gagan Manocha	GOVERNMENT COLLEGE CHHACHHRAULI
148	Dr.T.SURESH PADMANABHAN	E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
149	Rutam Biswal	University of Allahabad
150	Shasanka Sekhar Parida	Gandhi Institute For Technology, BBSR
151	Kiran Babajirao Salunke	Government polytechnic Thane
152	Gaurang Kaushikkumar Champaneri	R.N.G.PATEL INSTITUTE OF TECHNOLOGY
153	Arthi V	BANNARI AMMAN INSTITUTE OF TECHNOLOGY
154	Mahadevan R	BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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155	Dimple Juneja	Vidya Bhawan G S Teachers'Training College
156	Calvin Felix R	BANNARI AMMAN INSTITUTE OF TECHNOLOGY
157	Abitha T	Bannari Amman Institute of technology
158	Sanjay S	BANNARI AMMAN INSTITUTE OF TECHNOLOGY
159	Subikshon B	BANNARI AMMAN INSTITUTE OF TECHNOLOGY
160	Roobash M	BANNARI AMMAN INSTITUTE OF TECHNOLOGY
161	Sanjay Bairwa	Swami Keshavanand Institute of Technology M & G
162	Sankar Subramanian K V	PSG College of Technology
163	Narinder Kumar	Chandigarh university
164	Jesima Rahmath A	Bannari Amman institute of technology
165	Tushar Mathur	Poornima college of engineering
166	Sunil Kumar Tiwari	Delhi Skill & Entrepreneurship University
167	Roel B. Roda	CTU-TC
168	Johnry Samson Ricafort	Cebu Technological University
169	Jenica Alexis G. Canillo	Cebu Technological University - Tuburan Campus
170	Cristobal P. Secuya	Cebu Technological University
171	Marilou G. Salugsugan	Polytechnic University of the Philippines Alfonso Branch
172	Michael Villanueva Tapia	Cebu Technological University
173	Pierre Jozef Matilla	Polytechnic University of the Philippines - Alfonso Campus
174	Marlo M. Panganiban	JPSME
175	Zymvra Earl Jay M. Edoloverio	CTU - TC
176	Elvilyn M. Aton	Cebu Technological University
177	John Mace Vidamo	Junior Philippine Society of Mechanical Engineering
178	Yashpal	Poornima University
179	Madan Mohan Sahu	Gandhi Institute For Technology
180	Shanthoshini Devi, Rengalakshmanan	BANNARI AMMAN INSTITUTE OF TECHNOLOGY
181	Rengalakshmanan S	Bannari amman institute of technology
182	Ayush Goyal	Poornima University
183	Robert Clifford V Rogacion	Polytechnic University of the Philippines

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LIST OF ATTENDED CANDIDATES :

S. No.	Full Name	College/Institute Name
1	Sanjay Kumawat	Poornima College of Engineering, Jaipur
2	Dr. Narayan Lal Jain	Poornima College of Engineering, Jaipur
3	Dr. Mohammad Israr	Poornima College of Engineering, Jaipur
4	Ahmed Abdul Muneem	Muffakham Jah College of Engineering & Technology, Hyderabad
5	Mr. K Nageswar Rao	Sreyas Institute of Engineering and Technology, Hyderabad
6	Dr. Durga Prasad	RV Institute of Technology and Management, Bengaluru
7	Himanshu Shekhar	National Institute of Technology Durgapur
8	Mohan R	Sona college of Technology, Salem
9	Dr. Nishant Ranjan	CHANDIGARH UNIVERSITY
10	Mohd. Talha Khan	MIT Moradabad
11	Ashwani Kapoor	Poornima College of Engineering, Jaipur
12	Michael Villanueva Tapia	Cebu Technological University, Philippines
13	Nenavath Surya	TKR College of Engineering and Technology, Hyderabad
14	Arvind Kumar Singh	Moradabad Institute of Technology, Moradabad
15	Abhishek Kumar	Poornima College of Engineering, Jaipur
16	Swathi Gaddameedhi	Sri Indu College of Engineering and Technology, Hyderabad
17	Dr. Jatinderkumar R. Saini	Symbiosis Institute of Computer Studies and Research, Pune, Maharashtra
18	Ankita Sharma	Indira Gandhi Delhi Technical University for Women, New Delhi
19	Mangali Viswanath	Vardhaman College of Engineering, Hyderabad
20	Earl William R. Lie	Polytechnic Univeristy of the Philippines
21	Dr. Kuldeep K Saxena	GLA University, Mathura
22	Marilou G. Salugsugan	Polytechnic University of the Philippines Alfonso Branch
23	Kulbir Singh	National Institute of Technical Teachers Training & Research, Chandigarh
24	Arvind Kumar Singh	Moradabad Institute of Technology, Moradabad
25	Biswajit Pegu	Dibrugarh University, Assam
26	S. Deivanai	Delhi Skill and Entreprenuership University, New Delhi
27	Yatna Bhagat	Government Polytechnic College Betul
28	Pothedar Venkata Chary	TKRCET Hyderabad
29	Ansari Usama Shakeel Ahmed	IIT Madras
30	Tribhuwan Kishore Mishra	Gyan Ganga Institute Technology and Sciences Jabalpur
31	Animesh Dhananjay Dolas	Vishwakarma Institute of Technology, Pune

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32	Abhishek Barua	Centre for Advanced Post Graduate Studies, BPUT, Rourkela, Odisha
33	Dr. Vivek Pandey	Mody University of Science and Technology, Laxmangarh Sikar Rajasthan
34	Md Yahiya	Muffakham Jah College of Engineering and Technology, Hyderabad
35	Md Aquib Ahsan	Jamia Millia Islamia, New Delhi
36	S. Irfan Sadaq	Muffakham Jah College of Engineering & Technology, Hyderabad
37	Dr. P. Suresh	Muthayammal Engineering College, Rasipuram, Tamil Nadu
38	R.Uday Kumar	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY, HYDERABAD
39	Vikas	Indian Institute of Technology Guwahati
40	Dr. Dhananjay Raosaheb Dolas	MGM JNEC Aurangabad
41	Jitendra Hemwani	Government Polytechnic College Betul MP
42	Yakkaluri Pratapa Reddy	Koneru Lakshmaiah Education Foundation
43	Dr. Abdul Razak Kaladgi	P.A College of Engg, Mangalore
44	Gajanan Shankarrao Patange	CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY, Gujrat
45	Sharfuddin Shaik	TKRCET, Hyderabad
46	Jyothi Padmaja K	Vasireddy Venkatadri Institute of Technology, Nambur
47	Charmaine Rosel Rint	POLYTECHNIC UNIVERSITY OF THE PHILIPPINES-ALFONSO CAMPUS
48	Md Aquib Ahsan	Jamia Millia Islamia, New Delhi
49	Saswat Khatai	KIIT Deemed to be University, Bhubaneswar,Odisha
50	Anish Das	National Institute of Technical Teachers Training & Research, Chandigarh
51	Elijah Lance R. Roque	Polytechnic University of the Philippines
52	Ashish Soni	National Institute of Technology Agartala
53	Ramai Ranjan Panigrahi	GP Balangir
54	Ayush Goyal	Poornima College of Engineering, Jaipur
55	Dr. Narinder Kumar	Chandigarh university
56	Devender Kumar Dhaked	RAJASTHAN COLLEGE OF ENGINEERING FOR WOMEN, Jaipur
57	V Dharam Singh	Muffakham Jah College of Engineering and Technology, Hyderabad
58	Pothedar Venkata Chary	TKRCET, Hyderabad
59	Nenavath Surya	TKR College of Engineering and Technology, Hyderabad
60	Ahmed Abdul Muneem	Muffakham Jah College of Engineering & Technology, Hyderabad
61	Shiv Kumar Lodwal	Poornima College of Engineering, Jaipur
62	Syeda Romana	Muffakham Jah College of Engineering and Technology, Hyderabad
63	Rohit Kumar Verma	Poornima College of Engineering, Jaipur

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64	Dr. Saravanan S	PSNA COLLEGE OF ENGINEERING & TECHNOLOGY, Muthanampatty, Dindigul
65	Kasi Viswanadhan	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY, HYDERABAD
66	Lakkoju Ravi	Sri Indu College of Engineering and Technology, Hyderabad
67	Madan Mohan Sahu	Gandhi Institute For Technology, Gramadiah
68	Aakash Shukla	Poornima College of Engineering, Jaipur
69	Mr. V. Dharam Singh	Muffakham Jah College of Engineering and Technology
70	Prof. Gaurang K.Champaneri	R. N. G. Patel Institute of Technology
71	Dhanalakshmi.R	P.A.C.RAMASAMY RAJA POLYTECHNIC COLLEGE
72	Mohd Hasham Ali	Muffakham Jah College of Engineering and Technology, Hyderabad
73	Yashpal Kaushik	Poornima University

SAMPLE COPY CERTIFICATE :



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COLLEGE OF ENGINEERING
ISI-6 RIICO Institutional Area, Sitapura, JAIPUR – 302022 (Rajasthan), INDIA
Phone: 9928555222 • Website: www.pce.poornima.org

Certificate of Participation

This Certificate is present to
Dr. S. Saravanan
Professor and Head
Department of Electrical and Electronics Engineering, Muthayammal Engineering College
Has attended a five day online faculty development programme titled
"Digital Manufacturing Evolutions for Smart Industries"
From 16 to 20 August, 2021 at Poornima College of Engineering Jaipur, Rajasthan (India)

Dr. Surendra Kumar Saini, Coordinator
Dr. Narayan Jain, Head of Department
Mr. Pankaj Dhamia, Vice Principal
Dr. Mahesh M. Bundele, Director / Principal

SAVE PAPER SAVE TREES REDUCE E-WASTE

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POORNIMA
COLLEGE OF ENGINEERING

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

A Report on 5-days Faculty Development Program

- **TITLE AND DURATION:** "Recent Advancement in Machine Learning and Artificial Intelligence" from March 16 to 20, 2021.
- **SPONSORS:** TEQIP-III RTU (ATU) SPONSORED.
- **SUPPORTERS:** Rajasthan Technical University Kota.
- **ORGANIZERS:** Department of Computer engineering, Poornima College of Engineering, Jaipur.
- **OBJECTIVES:**

  Machine Learning and Artificial Intelligence has changed the way of our life in past two decade. It has tried to simulate human intelligence through machines in all type of applications. With easy availability of huge amount of data there is good reason to believe that intelligent learning will become necessary ingredient for technological progress.

  This FDP aims to provide an opportunity to enhance knowledge about the key concepts and latest advancements in field of machine learning and Artificial Intelligence. The participants will also be able to explore various research opportunities and challenges in the field of machine learning and Artificial Intelligence. The primary objective of this one-week Faculty Development Program (FDP) on Recent Advancement in Machine Learning and Artificial Intelligence Learning was to enrich faculty members of Computer Science stream with preliminaries of artificial intelligence and its modern applications in machine learning and deep learning. The FDP was divided into several modules falling under the umbrella of Artificial Intelligence including Machine Learning, Deep Learning, Data Science, Natural Language Processing and Digital Image Processing. The objective was to address modern trends in the field of Artificial Intelligence with real time problem solving. This FDP focused on hands-on implementation of various algorithms to deliver practical skill to participants.
- **EXPECTED OUTCOMES:**
  - This course is designed to provide an exposure to the fundamentals of Machine Learning Techniques for Healthcare analysis.
  - To understand the ability of a computer to learn a specific task from [illegible]

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observation for healthcare domain.

- **BROCHURE / POSTER / LEAFLET / FLYER:**

POORNIMA
COLLEGE OF ENGINEERING

5 days Faculty Development Program on

"Recent Advancement in Machine Learning

and Artificial Intelligence

March 16 to 20, 2021



Organized By:

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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- **PROGRAM SCHEDULE:**

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Poornima College of Engineering

TEQIP-III RTU (ATU) SPONSORED

Recent Advancement in Machine Learning and Artificial Intelligence

Five Days Faculty Development Program

(March 16-20, 2021)

Dates	10:00-11:00	11:30-12:30	02:00-03:00
16-03-2021 Tuesday	Introduction to Machine Learning: **Dr. Kusum Kumari Bharti** IIITDM, Jabalpur	Swarm and Evolutionary Optimization **Dr. Mukesh Saraswat** JIIT, Noida	Supervised Learning with Nave Bayes Algorithm **Dr. Ashish Tripathi** MNIT, Jaipur
17-03-2021 Wednesday	Simple Linear Regression **Dr. Kusum Kumari Bharti** IIITDM, Jabalpur	Introduction to Deep Learning **Dr. Mukesh Saraswat** JIIT, Noida	Fake Review Detection using Nature Inspired Algorithm **Dr. Ashish Tripathi** MANIT, Jaipur
18-03-2021 Thursday	Logistic Regression **Dr. Kusum Kumari Bharti** IIITDM, Jabalpur	Convolutional Neural Network **Dr. Mukesh Saraswat** JIIT, Noida	Bag-of-words for Classification **Dr. Raju Pal** Jaypee University, Noida
19-03-2021 Friday	Regularization and Model Evaluation **Dr. Kusum Kumari Bharti** IIITDM, Jabalpur	Case Studies of Convolutional Neural Network **Dr. Mukesh Saraswat** Jaypee University	Image Segmentation using Clustering **Dr. Himanshu** Jaypee University, Noida
20-03-2021 Saturday	Feature Subset Selection using Meta-heuristics **Dr. Raju Pal** Jaypee University, Noida	Deconvolution and Semantic Segmentation **Dr. Mukesh Saraswat** JIIT, Noida	Mining Frequent Patterns **Dr. Avinash Pandey** Jaypee University

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INAUGURAL SESSION:

RAJASTHAN TECHNICAL UNIVERSITY, KOTA
Poornima College of Engineering
TEQIP-III RTU (ATU) SPONSORED
Recent Advancement in Machine Learning and Artificial Intelligence
Five Days Faculty Development Program
(March 16-20, 2021)

Date: March 16, 2021 **Time: 9:45 AM-10:10 AM**

Venue: Online

Q-Sheet- Inaugural Session

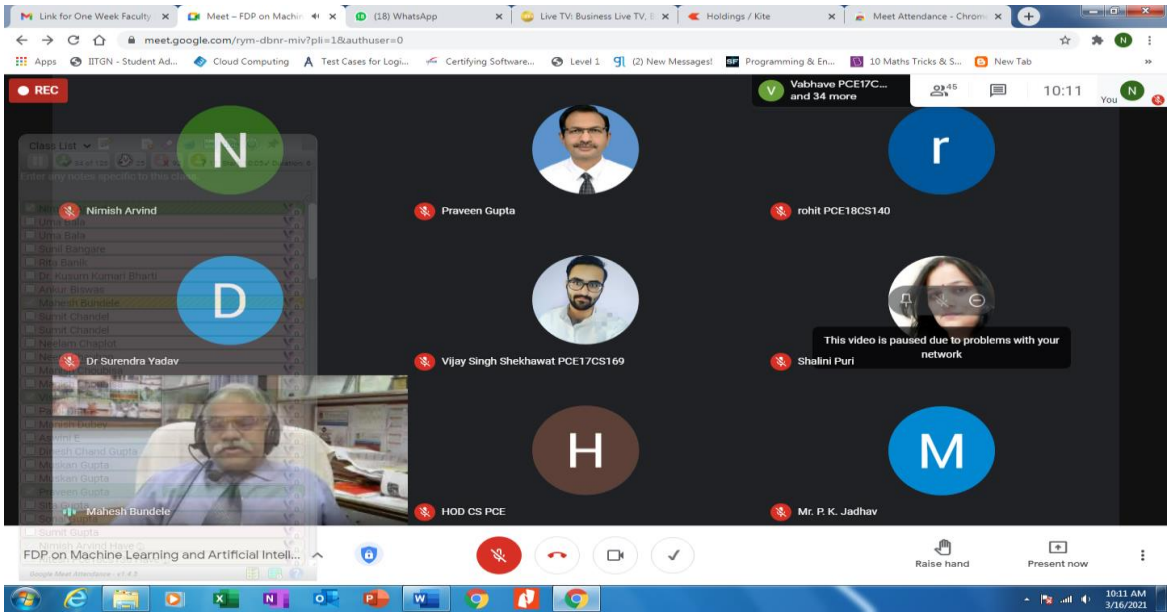
S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of FDP by Mr. Nimish Arvind**, Coordinator, PCE** • **Prof. (Dr.) R.A. Gupta,** Hon'ble Vice Chancellor, RTU Kota **(Chief Guest)** • **Prof. (Dr.) Dhirendra Mathur,** RTU (ATU) TEQIP-III Coordinator **(Guest of Honour)** • **Dr. Mukesh Saraswat**, Professor, Jaypee Institute of Technology, Noida • **Dr. Harish Sharma**, Professor, RTU Event Coordinator • **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur • **Mr. Pankaj Dhemla**, Vice Principal, Poornima College of Engineering, Jaipur • **Dr. Surendra Kumar Yadav**, HOD, CSE, Poornima College of Engineering	**10 Min**	**9:45AM -9:55AM**
2.	Welcome Address by **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur	**05 Min**	**9:55AM -10.00AM**
3.	Introduction of Guest of Honour & Address by Guest of Honour **Dr. Mukesh Saraswat**, Jaypee Institute of Technology, Noida	**05 Min**	**10.00AM -10:05AM**
5	Vote of Thanks by **Dr. Surendra Kumar Yadav**, HOD, CSE, PCE	**05 Min**	**10:05AM -10.10AM**

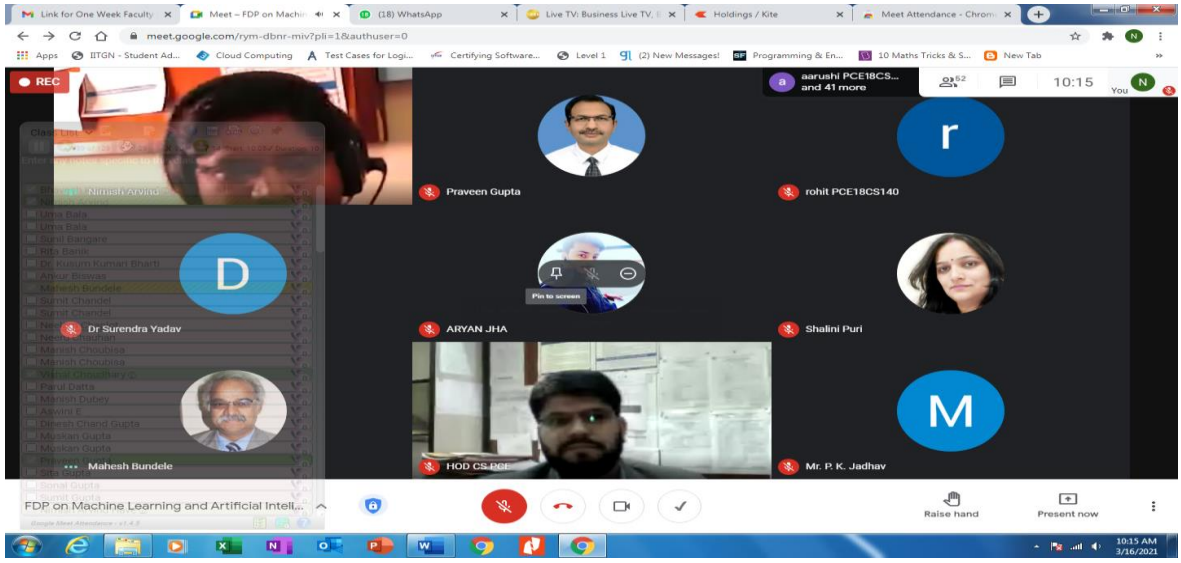
DETAILS OF RESOURCE PERSONS:

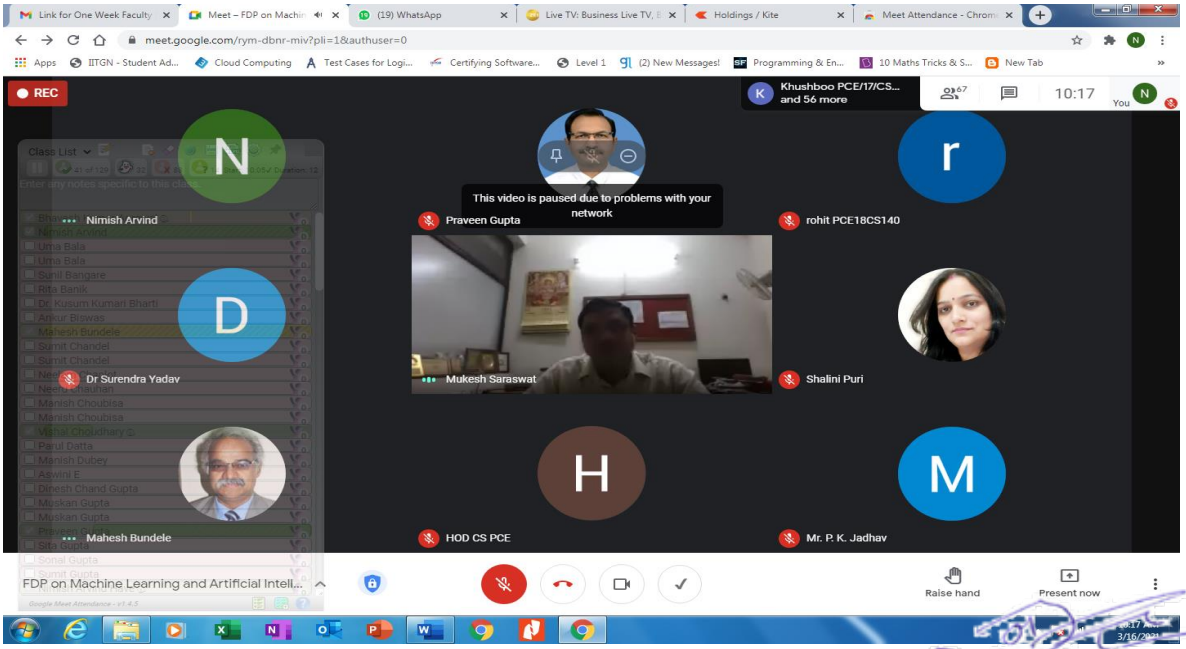
- Dr. Kusum Kumari Bharti IIITDM, Jabalpur.
- Dr. Raju Pal Jaypee University, Noida.
- Dr. Mukesh Saraswat JIIT, Noida.
- Dr. Ashish Tripathi MNIT, Jaipur
- Dr. Raju Pal Jaypee University, Noida
- Dr. Himanshu Jaypee University, Noida
- Dr. Avinash Pandey Jaypee University

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GLIPMSES OF CONDUCTION:







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CONTENT DELIVERY / PRACTICAL SESSIONS:

- Introduction to Machine Learning
- Supervised and unsupervised machine learning
- Prediction using Linear Regression
- Prediction using Logistic regression
- Customer churn prediction using
- Decision tree & Random Forest
- Auto mpg data set analysis using ANN Regression
- Predict Titanic Survivors using Artificial
- Neural Network classification
- Machine learning using Python

VALEDICTORY SESSIONS:

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Report of FDP by **Mr. Nimish Arvind, Host Institute Coordinator, PCE** • **Mr. Pankaj Dhemla,** Vice Principal, Poornima College of Engineering, Jaipur • **Dr. Harish Sharma**, Professor, RTU Event Coordinator • **Dr. Surendra Kumar Yadav**, HOD, CSE, Poornima College of Engineering	**05 Min**	**3:00PM - 3:05PM**
2.	Welcome Address by **Mr. Pankaj Dhemla,** Vice Principal, Poornima College of Engineering, Jaipur	**05Min**	**3:05PM - 3:10PM**
3.	Feedback by the Participants	**10 Min**	**3:10PM - 3:20PM**
4.	Vote of Thanks by Mr**. Rajkumar Jain**, Assistant Professor, CSE, PCE	**05 Min**	**3:20PM - 3:25PM**

LIST OF PARTICIPANTS:

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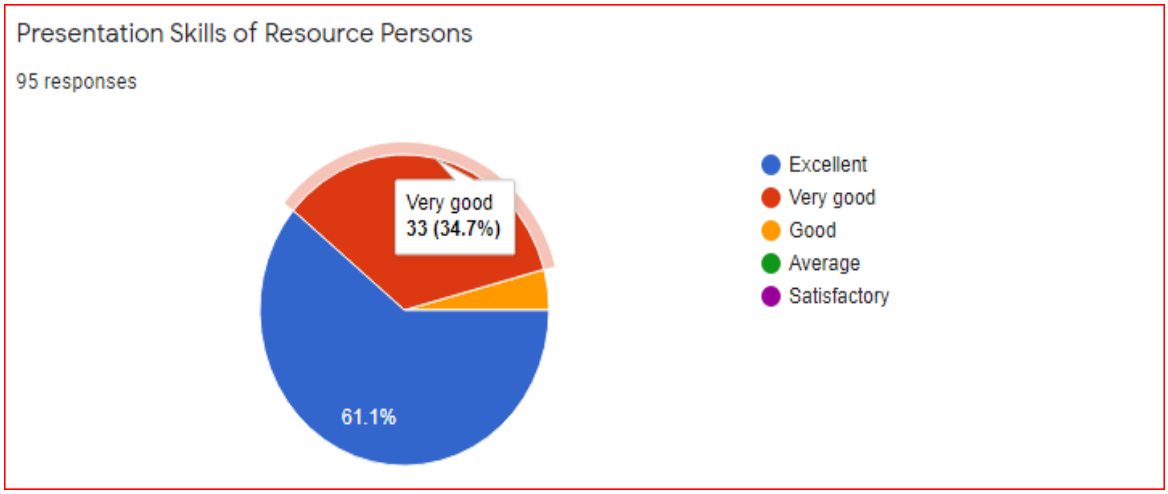
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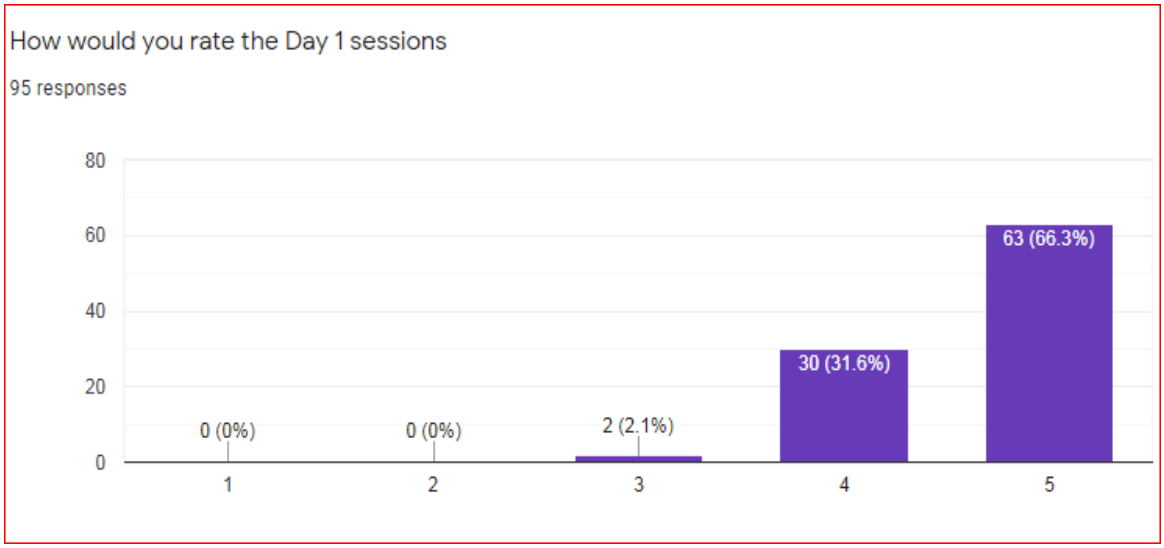
- **FEEDBACK ANALYSIS:**

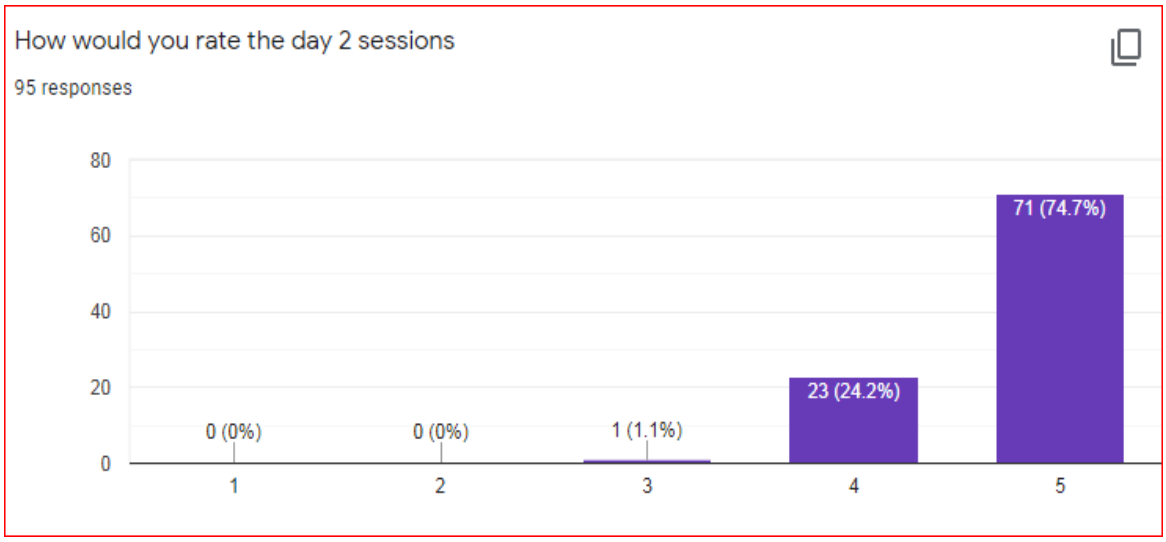
Oral feedback and views shared by the participants revealed that the Group Discussion has successfully fulfilled the objectives of the event. All the participants in their oral feedback has given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.

Feedback Online Mode:



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- **SWOT ANALYSIS:**
  - It promotes student-centered learning and collaboration
  - Lessons and Contents are more accessible
  - It can more efficient
  - It relies on preparation and trust
  - There is significant work on the front end
  - This is more about proper planning and includes any iteration required for the purpose of highly building highly scalable software.
- **BUDGET & ACTUALS: N/A**

Dr. Mahesh Bundele
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Sitapura, JAIPUR

POORNIMA
COLLEGE OF ENGINEERING

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

A Report on Faculty Development Program

- **TITLE AND DURATION:** "Recent Trends and Advances in Renewable Energy Sources" from February 18-22, 2021.

- **SUPPORTERS:** TEQIP-III.

- **ORGANIZERS:** Electrical Engineering Department, Poornima College of Engineering, Jaipur.

- **BROCHURE / POSTER / LEAFLET / FLYER:**



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PROGRAM SCHEDULE:

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Workshop by **Dr. Pravin Sonwane, Dy. HOD (Academic), Department of Electrical Engineering, PCE, Jaipur** • **Prof. R. A. Gupta,** Hon'ble Vice Chancellor, RTU Kota **(Chief Guest)** • **Prof. (Dr.) Dhirendra Mathur,** RTU (ATU) TEQIP-III, Coordinator, RTU, Kota **(Guest of Honour)** • **Dr. Sashidhar Sampathirao,** Assistant Professor, IIT, GOA **(Guest of Honour)** • **Prof. A. K. Sharma,** RTU Event Coordinator, RTU, Kota • **Dr. S. K. Sharma,** RTU Event Coordinator, RTU, Kota • **Ar. Rahul Singhi,** Director, Poornima Group, Jaipur • **Dr. Mahesh Bundele,** Director & Principal, Poornima College of Engineering, Jaipur • **Er. Pankaj Dhemla,** Vice-Principal, Poornima College of Engineering, Jaipur • **Dr Rekha Nair,** Dean, I Year, Poornima College of Engineering, Jaipur • **Dr. Virendra Sangtani,** HOD, Department of Electrical Engineering, PCE, Jaipur • **Dr. Md. Asif Iqbal**, Coordinator, FDP	**05 Min**	**11:00 AM-11:05 AM**
2.	Welcome Address by **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur	**05 Min**	**11:05 AM-11:10 AM**
3.	Address by **Ar. Rahul Singhi**, Director, Poornima Group, Jaipur	**05 Min**	**11:10 AM-11:15 AM**
4.	Introduction of **Guest of Honour** and Address by Guest of Honour **(Prof. (Dr.) Dhirendra Mathur,** RTU (ATU) TEQIP-III, Coordinator, RTU, Kota**)**	**05 Min**	**11:15 AM-11:20 AM**
5.	Introduction of **Guest of Honour** and Address by Guest of Honour **(Dr. Sashidhar Sampathirao,** Assistant	**05 Min**	**11:20 AM-11:25 AM**

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	Professor, IIT, GOA)		
6.	Introduction of Chief Guest & Inaugural Address by the Chief Guest **Prof. (Dr.) R.A. Gupta,** Hon'ble Vice Chancellor, RTU Kota	**05 Min**	**11:25 AM-11:30 AM**
7.	Vote of Thanks by **Dr. Virendra Sangtani,** HOD, Department of Electrical Engineering, PCE, Jaipur	**02 Min**	**11:30 AM-11:32 AM**

Programme Outline	
Thursday, Day 1: 18February, 2021	
11.00 am – 11.30 am	**Inaugural Function** **Prof. R. A. Gupta,** Hon'ble Vice Chancellor, RTU Kota (Chief Guest) **Dr. Dhirendra Mathur,** Guest of Honour**,** TEQIP Coordinator, RTU, Kota **Dr. SashidharSampathirao,** Guest of Honour**,** Asst. Professor, IIT, Goa **Prof. A. K. Sharma,**RTUEventCoordinator **Dr. S. K. Sharma,** RTUEventCoordinator **Ar. Rahul Singhi, Director, Poornima Group,Jaipur** **Dr. Mahesh Bundele**, Director&Principal, Poornima College of Engineering **Er. Pankaj Dhemla, Vice-Principal, Poornima College of Engineering, Jaipur** **Dr Rekha Nair, Dean, I Year, Poornima Collegeof Engineering, Jaipur** **Dr. Virendra Sangtani,** HOD, Department of Electrical Engineering, PCE **Dr. Pravin Machhindra Sonwane**, Dy. HOD (Academics), Department of Electrical Engineering, PCE **Dr. Md. Asif Iqbal**, Coordinator, FDP
11.30 am -1.00pm	**Session-1** **Topic:** Electrical Technologies for Renewable Energy **Resource Person:** Dr. Sashidhar Sampathirao, Assistant Professor, Electrical Engineering Department, IIT GOA
1.00 -01.30 pm	**BREAK**
01.30 pm –03.00 pm	**Session-2** **Topic:** Wind Energy and Solar Photo Voltaics **Resource Person:** Dr. Vilas Warudkar, Associate Professor, Department of Mechanical Engineering, MANIT Bhopal

Programme Outline
Friday, Day 2: 19February, 2021

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11.00 am -12.30pm	**Session-3** **Topic:**Power quality Enhancement of Grid Connected Wind energy **Resource Person:** Dr. Kishor V. Bhandane, Associate Professor, Department of Electrical Engineering, Amrutvahini College of Engineering, Sangamner, Maharashtra
12.30 -01.30 pm	**BREAK**
01.30 pm - 03.00 pm	**Session-4** **Topic:**Grid Integration of Multifunctional Solar Energy Conversion Systems **Resource Person:** Dr. Shailendra Kumar Dwivedi, Assistant Professor, Department of Electrical Engineering, Maulana Azad National Institute of Technology, Bhopal, M.P., India.
Programme Outline	
Saturday, Day 3: 20February, 2021	
11.00 am -12.30pm	**Session-5** **Topic:**Development of Solar Water Pumping System Using Brushless DC Motor Drive **Resource Person**: Dr. Rajan Kumar, Assistant Professor, Department of Electrical Engineering, National Institute of Technology Hamirpur (H.P.), India
12.30 -01.30 pm	**BREAK**
01.30 pm - 03.00 pm	**Session-6** **Topic:**Wind Power Trading in Electricity Markets **Resource Person**: Dr. Kailash Chand Sharma, Assistant Professor, Department of Electrical Engineering, National Institute of Technology Jalandar. India
Programme Outline	
Sunday, Day 4: 21 February, 2021	
11.00 am -12.30pm	**Session-7** **Topic:**Reliability Issues in Renewable Energy Sources **Resource Person:** Dr. Vivek Shrivastava, Associate Professor, National Institute of Technology, Delhi
12.30 -01.30 pm	**BREAK**
01.30 pm - 03.00 pm	**Session-8** **Topic:**Synchronization and De- Synchronization of PV battery based Micro grid with enhanced Power Quality **Resource Person:** Dr. Shailendra Kumar Dwivedi, Assistant Professor,Department of Electrical Engineering, Maulana Azad National Institute of Technology, Bhopal, M.P., India.

DETAILS OF EXPERTS:

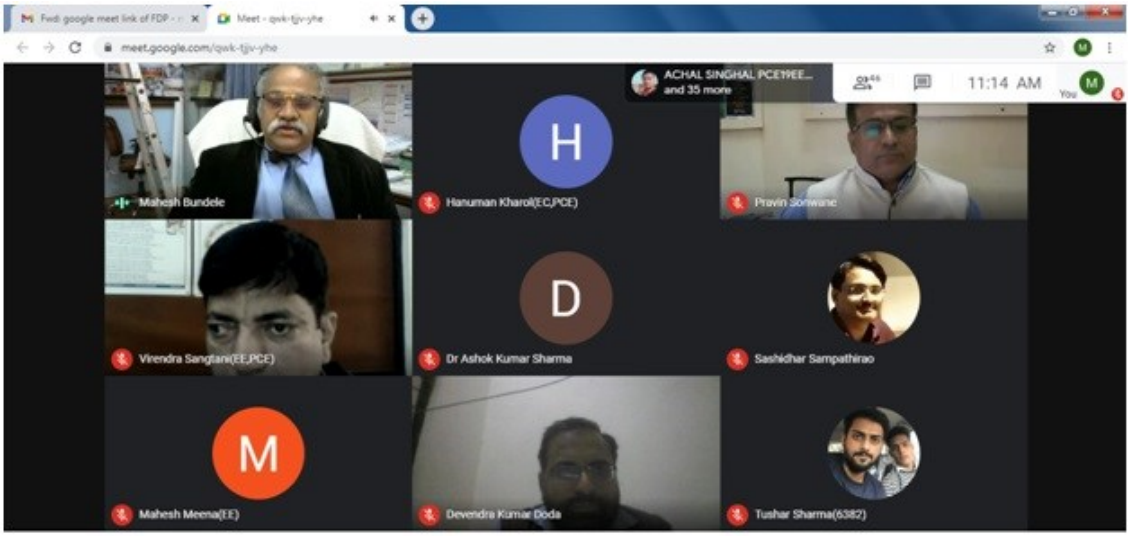
1. Dr. Sashidhar Sampathirao, Assistant Professor, Electrical Engineering Department IIT GOA.
2. Dr. Vilas Warudkar, Associate Professor, Department of Mechanical Engineering

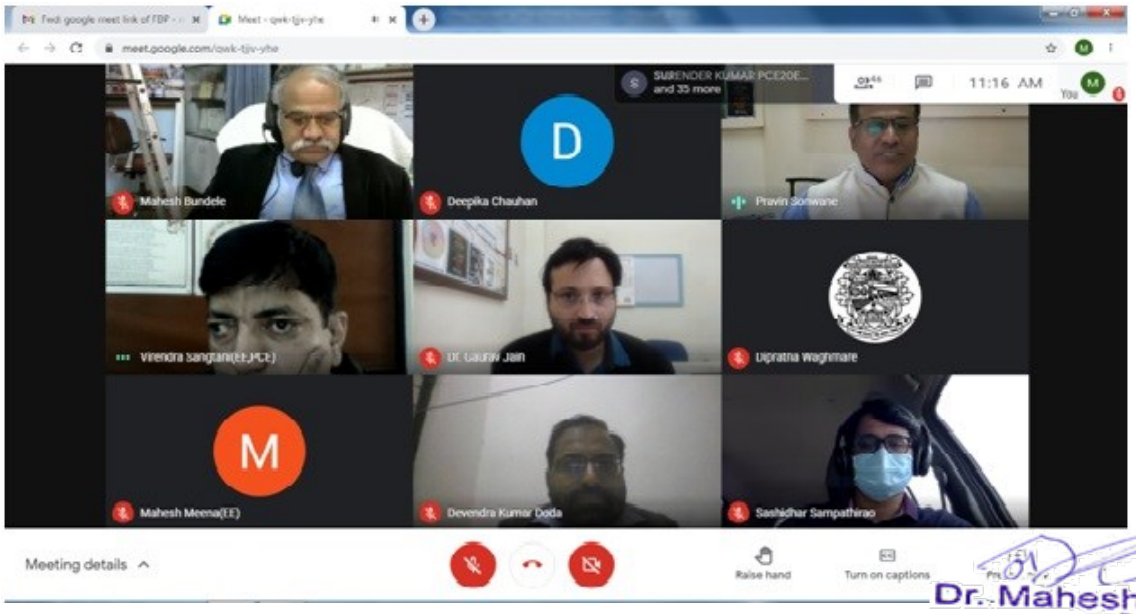
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MANIT Bhopal.

3. Dr. Kishor V. Bhandane, Associate Professor, Department of Electrical Engineering, Amrutvahini College of Engineering, Sangamner, Maharashtra.
4. Dr. Shailendra Kumar Dwivedi, Assistant Professor, Department of Electrical Engineering, Maulana Azad National Institute of Technology, Bhopal, M.P., India.
5. Dr. Rajan Kumar, Assistant Professor, Department of Electrical Engineering, National Institute of Technology Hamirpur (H.P.), India.
6. Dr. Kailash Chand Sharma, Assistant Professor, Department of Electrical Engineering, National Institute of Technology Jalandar. India.
7. Dr. Vivek Shrivastava, Associate Professor, National Institute of Technology, Delhi.
8. Dr. Shailendra Kumar Dwivedi, Assistant Professor, Department of Electrical Engineering, Maulana Azad National Institute of Technology, Bhopal, M.P., India.
9. Mr. Arvind Solanki, Sr. Manager (Mech), NHPC.
10. Dr. Ajay Kumar Bansal, Associate Professor, Central University of Haryana

- **GLIMPSES OF THE ONLINE SESSION:**





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- **NEWS IN PRESS:**



नात पेश करेंगे। कार्यक्रम का सीधा प्रसारण एसडीआई के यूट्यूब चैनल और फेसबुक पेज पर भी होगा।

किया है। इसमें आइआइटी जोधपुर के अलावा इजराइली एक्सपर्ट

स्नातकों और कामकाजी पेशेवरों को

रिन्युएबल एनर्जी सोर्सेज विषय पर फैकल्टी डवलपमेंट प्रोग्राम शुरू

डेली न्यूज, mix रिपोर्टर, जयपुर।। आरटीयू, कोटा और पूर्णिमा कॉलेज ऑफ इंजीनियरिंग रिंग के इलेक्ट्रिकल इंजीनियरिंग डिपार्टमेंट की ओर से पांच दिवसीय फैकल्टी डवलपमेंट प्रोग्राम आयोजित किया जा रहा है। 'रीसेंट ट्रेंड्स एंड एडवांसेज इन रिन्युएबल एनर्जी सोर्सेज' विषय पर आयोजित वर्चुअल एफडीपी में विभिन्न कॉलेजों व यूनिवर्सिटीज के फैकल्टी मेंबर शामिल हुए हैं। आरटीयू के वीसी प्रो. आर. ए. गुप्ता उद्घाटन समारोह के चीफ गेस्ट रहे। टेक्युप थर्ड कॉर्डिनेटर प्रो. धीरेंद्र माथुर व आईआईटी, गोवा के असिस्टेंट प्रोफेसर डॉ. शशिधर सम्पतिराव गेस्ट ऑफ ऑनर थे।

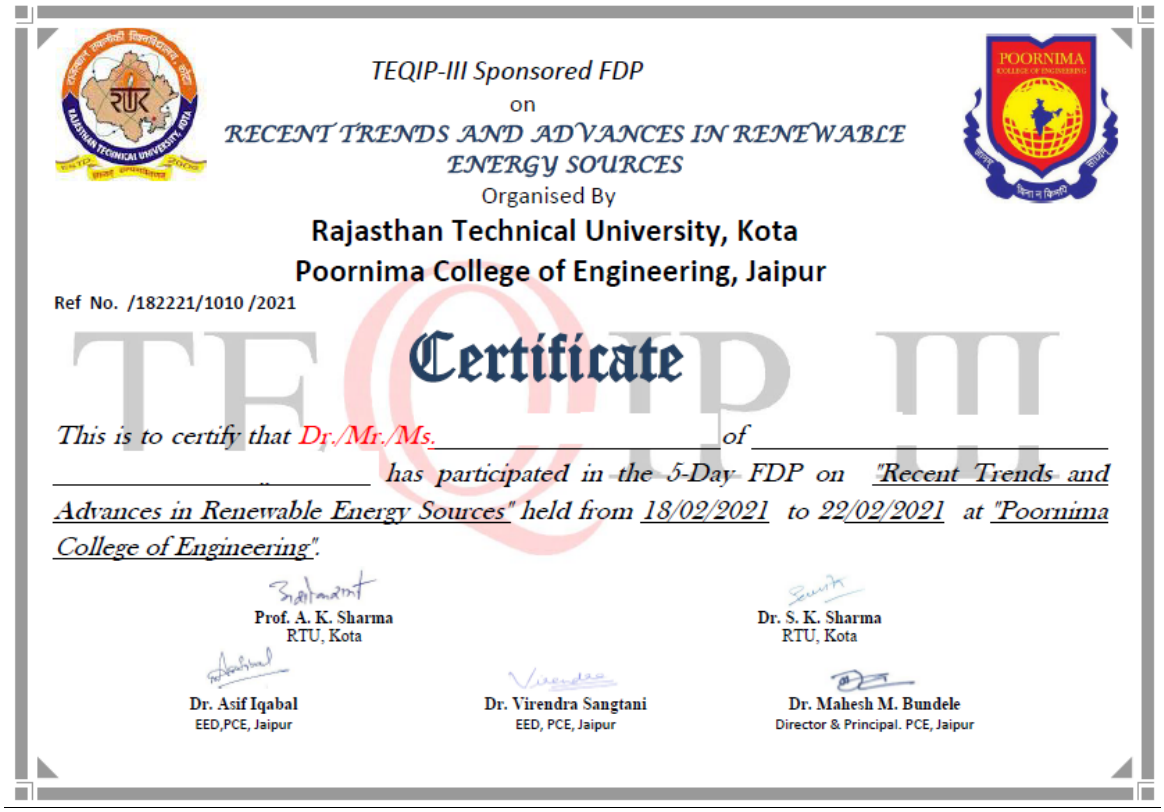
इस अवसर पर पूर्णिमा ग्रुप के डायरेक्टर राहुल सिंघी, मेजबान पूर्णिमा कॉलेज ऑफ इंजीनियरिंग के प्रिंसिपल डॉ. महेश एम. बुंदेले, वाइस प्रिंसिपल पंकज धेमला, आरटीयू के इवेंट कॉर्डिनेटर डॉ. ए. के. शर्मा व डॉ. एस. के. शर्मा, पीसीई के इलेक्ट्रिकल इंजीनियरिंग के एचओडी डॉ. वीरेंद्र संगतानी व पीसीई के होस्ट कॉर्डिनेटर डॉ. मोहम्मद आसिफ इकबाल भी उपस्थित थे। इस फैकल्टी डवलपमेंट प्रोग्राम के पांच दिनों में प्रतिभागियों को एनआईटी दिल्ली, एनआईटी हमीरपुर, एनआईटी जालंधर, एमएएनआईटी भोपाल, सेंट्रल यूनिवर्सिटी ऑफ हरियाणा सहित देश के प्रमुख उच्च शिक्षा संस्थानों के विशेषज्ञों की ओर से प्रशिक्षण दिया जाएगा। सोलर, विंड व ग्रीन एनर्जी तथा एनर्जी के अन्य सोर्सेज के एडवांसमेंट्स की जानकारी दी जाएगी। साथ ही सोलर पार्क इंटीग्रेशन, शॉर्ट टर्म विंड फोरकास्टिंग, विंड फार्म लेआउट तथा एफिशिएंट हाइब्रिड एनर्जी सिस्टम के बारे में भी बताया जाएगा।

प्रदान किए

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CERTIFICATE FORMAT:



TEQIP-III Sponsored FDP
on
RECENT TRENDS AND ADVANCES IN RENEWABLE ENERGY SOURCES
Organised By
Rajasthan Technical University, Kota
Poornima College of Engineering, Jaipur

Ref No. /182221/1010 /2021

Certificate

This is to certify that Dr./Mr./Ms. _____ of _____ _____ has participated in the 5-Day FDP on "Recent Trends and Advances in Renewable Energy Sources" held from 18/02/2021 to 22/02/2021 at "Poornima College of Engineering".

Prof. A. K. Sharma, RTU, Kota
Dr. S. K. Sharma, RTU, Kota
Dr. Asif Iqabal, EED,PCE, Jaipur
Dr. Virendra Sangtani, EED, PCE, Jaipur
Dr. Mahesh M. Bundele, Director & Principal. PCE, Jaipur

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A Report on 5-days Faculty Development Program

TITLE AND DURATION: TEQIP-III RTU (ATU) Sponsored Five Days Online Faculty Development Programme (FDP) on "Renewable Energy" (December 14-18, 2020)

SPONSORS: TEQIP-III, Rajasthan Technical University Kota.

SUPPORTERS: Rajasthan Technical University Kota.

ORGANIZERS: Rajasthan Technical University, Kota and Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES: The event aims to provide a forum to exchange views, ideas of latest innovations in the field of Renewable Energy.

ABOUT FDP:

The extensive use of fossil fuels such as coal, natural gas and oil to generate electric energy are primary source of global warming. Therefore, people around the globe are now started shifting towards various renewable sources of energy to mitigate the adverse climatic changes due to global warming. This Faculty Development programme on "Renewable Energy" brings a unique, national level opportunity to demonstrate the contribution of different engineering and basic science disciplines to the area of renewable energy. This program will give an insight into various aspects of renewable sources including solar energy, bio energy, hydro energy, geothermal energy and wind energy etc.

- Renewable energy sources: Current status and future prospect
- Solar Energy: Basics & Advances
- Solar Photovoltaic Technology
- Fundamental of Bio energy
- Advances and future prospect of bio-fuels in India
- Performance and Emission characteristics of Diesel engine with bio fuels
- Innovations and Future Research on renewable energy technologies

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- Environmental Impacts and Sustainability aspects of renewable Energy

The programme provided an online platform to an in-depth discussion & networking on the various challenges and their possible remedies in the renewable energy field, which will benefit participants from academics, R&D institutions, & Industries.

The current global warming, energy crises due to increment in the population & industrial growth indicate towards a quest to search for the new, environment-friendly, non-conventional energy-based technologies and their optimal use for a better tomorrow. This FDP offered learning on basics, emerging trends and challenges in the field of renewable. In addition, it will help to improve ability in carrying out research, testing consultancy in area.

BROCHURE / POSTER / LEAFLET / FLYER:

TEQIP-III RTU (ATU) Sponsored Five Days Online Faculty Development Programme (FDP)
on
"Renewable Energy"
(December14-18, 2020)

DETAILED SCHEDULE OF FDP

Date	Session	Time	Topic	Resource Person	Designation & Institute
	Inaugural Session (11:00-11:45 AM)				
Monday December 14, 2020	Technical Session-I	12:15-1:30PM	Renewable Energy: Current Status and Prospects	Prof. K. S. Reddy	Professor, Indian Institute of Technology, Madras
	Technical Session-II	2:15-3:30PM	Hydrogen as a Future Energy Source	Prof. Dilip Sharma	Professor, Malaviya National Institute of Technology (MNIT), Jaipur
Tuesday December 15, 2020	Technical Session-I	12:15-1:30PM	Utilization of Solar Thermal Energy for Drying of Vegetables	Prof. G. D. Agrawal	Professor, Malaviya National Institute of Technology (MNIT), Jaipur
	Technical Session-II	2:15-3:30PM	Thermal Storage Devices	Dr. Prodyut Ranjan Chakraborty	Associate Professor, Indian Institute of Technology, Jodhpur
Wednesday December 16, 2020	Technical Session-I	12:15-1:30PM	Solar Air Heaters	Dr. Atul Lanjewar	Associate Professor, Maulana Azad National Institute of Technology (MANIT), Bhopal
	Technical Session-II	2:15-3:30PM	Sustainable Energy Solutions	Prof. G. S. Dangayach	Professor, Malaviya National Institute of Technology (MNIT), Jaipur
Thursday December 17, 2020	Technical Session-I	12:15-1:30PM	Ethanol Fueling in C.I. Engines	Prof. Dilip Sharma	Professor, Malaviya National Institute of Technology (MNIT), Jaipur
	Technical Session-II	2:15-3:30PM	Fuel Cell as an Energy Source	Prof. Manoj Neergat	Professor, Indian Institute of Technology Bombay
Friday December 18, 2020	Technical Session-I	1:15-2:30PM	Environmental Impacts and Sustainability Aspects of Renewable Energy	Dr. Pratham Arora	Assistant Professor, Indian Institute of Technology, Roorkee
	Technical Session-II	3:00-4:15PM	Pump as a Turbine: A Micro Hydro Energy Source	Dr. Bade Mukund Haribhau	Assistant Professor, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat
	Valedictory Function (4:00-4:30 PM)				

Dr. Kunj Bihari Rana
Coordinator
RTU, Kota

Dr. Pankaj Sharma
Coordinator
RTU, Kota

Dr. Raj Kumar Satankar
Host Institute Coordinator
PCE, Jaipur

Dr. Mahesh M. Bundele
Director & Principal
PCE, Jaipur

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

BROCHURE / POSTER / LEAFLET / FLYER:

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Hon'ble Vice Chancellor, RTU Kota

PATRON
Dr. S. M. Seth
Chairman (Emeritus) Poornima Group

Ar. Shashikant Singhi
Chairman, Poornima Group

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Prof. (Dr.) Dhirendra Mathur

HOST INSTITUTE PRINCIPAL
Dr. Mahesh Bundele
Director & Principal
Poornima College of Engineering, Jaipur

RTU (ATU) TEQIP-III COMMITTEE

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Prof. D. K. Sambariya	Nodal Officer Procurement)
Dr. S. D. Purohit	Nodal Officer Finance

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Dr. Kunj Bihari Rana
RTU, Kota

Dr. Pankaj Sharma
RTU, Kota

HOST INSTITUTE COORDINATORS

Dr. Raj Kumar Satankar	Associate Professor, PCE
Dr. Narayan Lal Jain	Professor & Head, PCE
Mr. Ashwani Kapoor	Assistant Professor, PCE



RESOURCE PERSONS
The resource persons for the FDP will be Eminent Professors and Experts in the area of **Renewable Energy** from IITs, NITs and Industries.

ELIGIBILITY
This course is open to all the faculty members of AICTE approved institutions, research scholars, and persons working in R&D organizations or industries. Number of participants for FDP is limited. The participants who will attend all the sessions of this FDP (attendance record- 80%) and submit feedback forms will be eligible for receiving e-certificate.
All the sessions will be conducted online only.

REGISTRATION AND FEE PARTICULARS
- There is no registration fee.
- Registration for the program may be done by filling the Registration Form online
  Registration Link: **https://tinyurl.com/fdpree**

IMPORTANT DATES

Last date of online registration	**December 10, 2020**
Intimation of selection by mail	**December 12, 2020**
FDP duration	**December 14-18, 2020**

CORRESPONDENCE
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Dr. Narayan Lal Jain
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Mr. Ashwani Kapoor
✉ : ashwani.kapoor@poornima.org • ✆ : +91-7976687193



TEQIP-III SPONSORED

Faculty Development Programme on "Renewable Energy"

December14-18, 2020



Organized by

Rajasthan Technical University, Kota
&
Department of Mechanical Engineering

POORNIMA
COLLEGE OF ENGINEERING

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ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022
www.pce.poornima.org

ABOUT TEQIP-III
The project, third phase of Technical Education Quality Improvement Program (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 to improve their policy, academic and management practices.

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 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M. Tech. 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
Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet.
- Affiliated to RTU, Kota & approved by AICTE, New Delhi.
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI).
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as center of excellence by IBM.

DEPARTMENT OF MECHANICAL ENGINEERING
The department of Mechanical Engineering of PCE came into existence in the year 2004 with an alignment of the department's evolution with key events and technological advances for the betterment of society and nation. At present, it has the intake of 120 students providing all the amenities of infrastructure related to knowledge, research, experiments and training of multiple professions. Poornima believes that Mechanical Engineering is evergreen branch in the engineering profession. Therefore, the Department of Mechanical Engineering has renowned scholars as the faculty members for imparting the knowledge. The department organizes various workshops, seminars, expert talks and presentations at national and international level. It has been taking initiatives for the versatile enhancement of the students through the technical, cultural and sport fests since its establishment.

ABOUT FDP
The extensive use of fossil fuels such as coal, natural gas and oil to generate electric energy are primary source of global warming. Therefore, people around the globe are now started shifting towards various renewable sources of energy to mitigate the adverse climatic changes due to global warming. This Faculty Development Programme on **"Renewable Energy"** brings a unique, national level opportunity to demonstrate the contribution of different engineering and basic science disciplines to the area of renewable energy. This FDP will give an insight into various aspects of renewable sources including Solar Energy, Bio Energy, Hydro Energy, Geothermal Energy and Wind Energy etc.

TOPICS TO BE COVERED
- Renewable Energy Sources: Current Status and Future Prospect
- Solar Energy: Basics & Advances
- Solar Thermal Storage Devices
- Solar Photovoltaic Technology
- Fundamental of Bio Energy
- Advances and Future Prospect of Bio-fuels in India
- Performance and Emission Characteristics of Diesel Engine with Bio-fuels
- Innovations and Future Research on Renewable Energy Technologies
- Environmental Impacts and Sustainability Aspects of Renewable Energy

OBJECTIVES OF THE FDP
- The programme aims to provide an online platform to an in-depth discussion & networking on the various challenges and their possible remedies in the renewable energy field, which will benefit participants from academics, R&D institutions, & Industries.
- The current global warming, energy crises due to increment in the population & industrial growth indicate towards a quest to search for the new, environment-friendly, non-conventional energy-based technologies and their optimal use for a better tomorrow. Therefore, This FDP offers learning on basics, emerging trends and challenges in the field of renewable. In addition, it will help to improve ability in carrying out research, testing consultancy in area.

PCE ORGANIZING COMMITTEE

Mr. Pankaj Dhemla	Vice-Principal, PCE
Mr. Devendra Somwanshi	Registrar, PCE
Dr. Mohammad Israr	Professor, PCE
Dr. Robin Gupta	Associate Professor, PCE
Dr. Yashpal	Associate Professor, PCE
Dr. Rahul Sen	Associate Professor, PCE
Dr. Surendra Kumar Saini	Associate Professor, PCE
Dr. Sagar Kumar	Associate Professor, PCE
Dr. Akshay Jain	Assistant Professor, PCE
Dr. Bhuvnesh Sharma	Assistant Professor, PCE
Mr. Shailendra Kasera	Assistant Professor, PCE
Mr. Sanjay Kumawat	Assistant Professor, PCE
Mr. Bhavesh Devra	Assistant Professor, PCE
Mr. Ratnesh Sharma	Assistant Professor, PCE
Ms. Asha Kumawat	Assistant Professor, PCE
Mr. Amit Mandal	Assistant Professor, PCE
Mr. Kalpit Jain	Assistant Professor, PCE
Mr. Rahul Sharma	Assistant Professor, PCE
Mr. Mahesh Chand Saini	Assistant Professor, PCE
Mr. Dhananjay Kumar	Assistant Professor, PCE
Mr. Buddhi Prakash Panwar	Assistant Professor, PCE



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EMINENT SPEAKERS OF THE FDP & THEIR BRIEF PROFILE





Prof. (Dr.) K.S. Reddy
Professor, Department of Mechanical Engineering
Indian Institute of Technology, Madras

Dr. K. SRINIVAS REDDY obtained his PhD from Indian Institute of Technology Delhi in Energy Studies in 1999. He then joined National Institute of Technology Warangal in June 1999, after a brief service of about 4 years at NITW, he joined IIT Madras in April 2003 as an Assistant Professor. Presently, Dr. Reddy is a Professor of Mechanical Engineering at IIT Madras and he is also an honorary professor at University of Exeter, UK. He also served as an Adjunct Professor at CEERI-CSIR, Chennai during 2014-17

Prof. Reddy is a Fellow of the National Academy of Engineering (FNAE) and he is specialist in renewable energy with special research interests on concentrating solar power, energy efficiency and environment. He has 8 patent applications and more than 280 publications of which, 151 papers in reputed international journals, including five review articles on solar energy systems and energy storage. Prof. Reddy is actively involved in the implementation of solar thermal technologies for power generation and process heat applications through “Design-Development-Demonstration-Deployment (4-D)” approach. He has executed several research projects related to solar energy and energy & environment funded by various national and international agencies such as DST, MNRE, AICTE, RCUK, EPSRC, UKIERI and ICIMPACT. His work on estimation of thermal conductivity & thermo-physical properties and characterization of engineering materials significantly benefited the industrial associates for development of energy efficient thermal

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insulation materials.

In recognition of his research work, Dr. Reddy received several awards such as WSSET Innovation award, Shri J.C.Bose Patent award and twice, the Bhagyalakshmi and Krishna Ayengar Awards. He also won career award for young teachers from AICTE in 2003. Very recently, He received the Mid-Career Level Institute Research and Development Award (IRDA)-2018. He is an expert committee member in various selection/ review committees and the Visitor's nominee for IIT Delhi. As a part of human resource developmental activities, he supervised over 176 UG, PG and Ph.D. students, most of them are well placed and working now in prestigious organizations. He organized several national & international workshops on advanced renewable energy technologies.



Prof. Dilip Sharma
Professor, Department of Mechanical Engineering
Malviya National Institute of Technology, Jaipur

Prof. Dilip Sharma is a Mechanical Engineering Graduate (1988) from MREC Jaipur, now known as MNIT Jaipur. After working with CIMMCO Ltd, Bharatpur for a short while, he joined Roorkee University for Post-Graduation in Thermal Engineering and was awarded with University Medal for securing highest marks in Post-Graduation. Dr. Sharma joined as a faculty in Mechanical Engineering (1992) at MREC, as I mentioned which is now known as MNIT Jaipur. He is presently working as Head, Mechanical Engineering Department there.

He has done research in the field of biodiesels, engine performance, emissions and tribology investigations at MNIT Jaipur and was awarded Ph.D. degree from University of Rajasthan Jaipur.

Till date12 students have completed their Ph.D. under his supervision and currently 04 are pursuing in the field of Alternate Sources of energy. He has published more than 150 research papers in Journals and Conferences. He has filed 07 patents (2 Awarded), published 15 books and 07 book chapters. Dr. Sharma has completed 07 major R&D projects. He has done more than 41 consultancy projects.

He had been a member of various Selection Committees, Academic Councils and Board of Studies in Various Universities and Colleges. He is associated with various academic bodies

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such as NBA, NAAC, AICTE and TEQIP etc. He had also been member of various committees in UPSC, DRDO and RPSC etc. He had been a member of Research Degree committee of PTU Jalandhar and MANIT Bhopal.

He is actively associated in innovation activities and is a board member of State Innovative council (SIC) (Earlier known as GIAN) and member of many other bodies working in the field of Innovations. He was a member of Technical committee for finalizing the specifications of buses for BRTS (Bus Rapid Transit System) in Jaipur.

Dr. Sharma has taken various assignments at MNIT, Jaipur, such as Dean (Students Welfare & Alumni Affairs), Associate Dean (Students Welfare and Alumni Affairs), Coordinator Institute Security, Coordinator Transportation, Coordinator Central Workshop, Coordinator Alumni Affairs, Hostel Warden, Vice President Games and Sports, Assistant Proctor, In-charge of Institute Guest house etc.

He at present is working with Alcohols, Hydrogen, Acetylene, Biodiesels, Waste vegetable oils and other additives as substitution fuel in I.C. engines for single generation as well as trigeneration. He is also working in the field of Solar Cogeneration and Trigeneration systems.



Prof. G. D. Agrawal
Professor, Department of Mechanical Engineering
Malaviya National Institute of Technology (MNIT), Jaipur

Prof. G. D. Agrawal holds B.E. (Mechanical); M. Tech. and PhD (Thermal Engineering) degrees. He joined MNIT as a lecturer of Mechanical Engineering in 1992 and is serving as an Associate Professor since 2007. The major areas of his research are Solar thermal systems and energy aspects, Thermal engineering, Refrigeration and Air conditioning systems, Passive cooling and heating using Earth Air Tunnel Heat Exchanger, Application of Nano Materials in Solar thermal systems and Refrigeration and air conditioning system.

Prof. Agrawal has published over 100 papers in various international/national journals/conferences, completed guidance of eight PhDs, presently guiding four PhDs and guided about 50 Masters' theses, taken up several research/consultation projects. He has delivered many keynote addresses and invited talks at International/national conferences and institutions. He visits UPSC, RPSC and other government and private institutes/ organizations as expert/examiner.

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Dr. Prodyut Ranjan Chakraborty
Associate Professor & Head, ME,
Indian Institute of Technology, Jodhpur

Dr. Prodyut Ranjan Chakraborty received his Bachelor Degree in Mechanical Engineering from the North Bengal University in the year 2000, M.Sc. and Doctor of Philosophy from Department of Mechanical Engineering, Indian Institute of Science, Bangalore in the year 2004 & 2011 respectively. Presently he is working an Associate Professor, Head of the department in the Mechanical Engineering, Indian Institute of Technology, Jodhpur.

Prior to his joining at IIT Jodhpur, he served for two years at the Department of Material Physics in Space at German Aerospace Center (DLR) Cologne, Germany as a postdoctoral research fellow. He also worked as a Research Analyst at the Applied CFD Lab, G.E. Global Research Center, Bangalore, during 2004 and 2005. He has been recipient of various prestigious fellowships including DLR-DAAD fellowship and fellowship from General motors for post-doctoral and doctoral study respectively.

Dr. Chakraborty has published more than 35 publications in reputed journals including journal paper in ASME, papers in international conferences & as book chapters in his credit. He has been editor of 3 books on "solar energy" published by Springer, Singapore and referee of various journals. He has been recipient of research project grants from DRDO and DST of worth 70 lacs.

His primary area of research includes numerical modeling of alloy solidification, latent heat based energy storage systems for high temperature applications, Thermal management and thermal comfort, and sorption cooling.

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Dr. Atul Lanjewar
Associate Professor, Mechanical Engineering Department
Maulana Azad National Institute of Technology (MANIT), Bhopal

Dr. Atul Lanjewar is working as Associate Professor in Mechanical Engineering Department of Maulana Azad National Institute of Technology (MANIT) Bhopal. He did his Bachelors in Engineering from Visvesvaraya Regional Engineering College Nagpur, Maharashtra, M.Tech. from Indian Institute of Technology Bombay and PhD in area of solar air heater from MANIT Bhopal. Research in area of solar energy is his prime interest and therefore he has been involved in research on solar air heater for the past 15 years.

Dr. Atul has guided 03 PhD students and is currently guiding 04 PhD students besides several M. Tech research students. He is an active member of research committee of mechanical department at MANIT Bhopal. He has also developed solar energy research lab in mechanical engineering department of MANIT Bhopal. He has to his credit publication in international journal and conferences mainly in area of solar air heater. Currently 02 patents have been published with Indian Patent Journal. Expertise in solar air heater has given him many opportunities to give back to researching students.



Dr. Govind Sharan Dangayach

Professor, Department of Mechanical Engineering
Malaviya National Institute of Technology (MNIT), Jaipur

Dr. Govind Sharan Dangayach is Dean, Planning & Development, Professor in Department of Mechanical Engineering in Malaviya National Institute of Technology (MNIT), Jaipur. He was graduated in Mechanical Engineering from M.B.M. Engineering College Jodhpur in the year 1984. He obtained Master's degree in Production Engineering from Indian Institute of Technology, Delhi. He earned his Doctorate in Industrial Engineering also at Indian Institute of Technology, Delhi. He has published 244 research papers in various International/National Journals and conferences. He is Editor-in-chief of Journal of Manufacturing Technology Research (An International Journal). He is associate Editor of International Journal of Business Systems Research (IJBSR), and International Journal of

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Global Business Competitiveness (IJGBC). He is Guest Editor of three International Journals viz. Production Planning & Control (PPC), International Journal of Manufacturing Technology & Management (IJMTM), International Journal of Business Performance Management (IJBPM). He is Reviewer of Thirty-Seven International Journals. He is Visiting Professor at DHBW Mosbach, Germany, Asian Institute of Technology (AIT) Bangkok, IIM Khozikode, and IIM Shillong. He delivered several Invited Lectures/ Key note addresses in India & abroad. He has 35 years of Teaching and Industrial Experience. He is Life member of various International & National professional Societies. He has guided 27 Ph.D. & 60 Master's thesis. Prof. Dangayach is Resource person/Expert of AICTE, UPSC and NBA Govt. of India. He has been nominated Member of Board of Management of Rajasthan Technical University by Govt. of Rajasthan. He is Member of

BOS, BOG of several Universities in India. He was Chairman of The Institution of Engineers India, Rajasthan State Centre for the session 2014-16. Beside these his other key achievements are:

-Principal Investigator of two DST (Govt. of India) funded Research projects

-Cited in the list of TOP 20 prolific researchers of the world in 2015

-Best Case Study award 2012-13 by Indian Institution of Industrial Engineering

- Biography published in 7th edition (2004) of "Marquis World"s Whos & Who In Science & Technology", New Jersey, USA
- Best Paper Award and Certificate of Merit for 1996-97 by Institution of Engineers (India)



Prof. (Dr.) Manoj Neergat
Professor, Engineering Science & Engineering Department
Indian Institute of Technology, Bombay

Prof Manoj Neergat completed his PhD from Indian Institute of Science, Bangalore. His areas of Interest are Fuel cells, Flow Batteries, Impedance and Dielectric Spectroscopy, Electrochemistry of Silicon. Currently, He is a professor at Department of Energy Science and Engineering, IIT Bombay. Earlier, he was Research Associate: Technical University, Munich, Germany in 2001-2003. Dr. Manoj has done his Post doc form Los Alamos National

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Lab, New Mexico, USA in 2005. He was also QHS Scientist at Central Electro Chemical Research Institute in CSIR Madras, Chennai from 2006-2007. He has published a many research papers in International Journals & involved in various R & projects.



Dr. Pratham Arora
Assistant Professor, Department of Hydro and Renewable Energy,
Indian Institute of Technology, Roorkee

Dr. Pratham Arora is currently an Assistant Professor, Department of Hydro and Renewable Energy, IIT Roorkee. Prior to joining IIT Roorkee, he was a Post-doctoral fellow at the Georgia Tech., Atlanta in the Industrial and Systems Engineering Department. At Georgia Tech., his research was focused on process optimization, techno-enviro-economic analysis and life cycle assessment (LCA) of algal Biofuels, syngas fermentation, solar fertilizers and direct air capture systems. He was working in collaboration with highly innovative sustainable fuels companies such as Algenol Biofuels, Lanzatech and Global Thermostat.

Dr. Arora has completed his doctorate from IITB-Monash Research Academy – a joint venture between IIT-Bombay, India and, Monash University, Australia. His thesis was entitled "Techno-enviro-economic evaluation of ammonia production from biomass gasification using multi-scale modeling." The project was funded by Orica Mining Ltd. His Ph.D. thesis quantified the effect of biomass composition, process configuration, the supply chain, and the national economic and environmental scenario on the life cycle costing and LCA of the biomass-to-ammonia process. Such an analysis is expected to provide the decision makers with consistent and comparable data to objectively judge the viability of any renewable energy technology. This work has been published in high quality journals including Industrial and Engineering Chemistry Research, Journal of Cleaner Production, and Chemical Engineering Research and Design. His research has also been awarded as the best collaboration by the IITB-Monash Research Academy. Presently, he is extending this research to production of different sustainable fuels and chemicals.

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Dr. Bade Mukund Haribhau

Assistant Professor, Mechanical Engineering Department
Sardar Vallabhbhai National Institute of Technology
(SVNIT), Surat

Dr. Mukund completed his PhD from Indian Institute of Technology, Bombay. His area of Interest Energy Management & Efficiency Energy Modelling Process Integration, Pinch Analysis, Fluid Mechanics & Fluid Machines Thermal System Analysis and Fuel Cell Technology. Currently, He is an assistant professor at, SVNIT, Surat. He has published a many research papers in International Journals & involved in various R &D projects.

BRIEF REPORT ON FDP SESSIONS:

This five days, TEQIP III, RTU (ATU) sponsored online FDP on renewable energy is organized by the Department of Mechanical Engineering, Poornima College of Engineering, Jaipur under the aegis of Rajasthan Technical university, Kota. It is about more than three hundred participants from various parts of the country have registered for this Faculty development program.

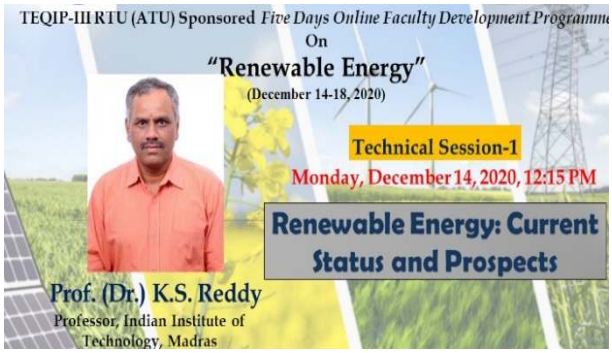


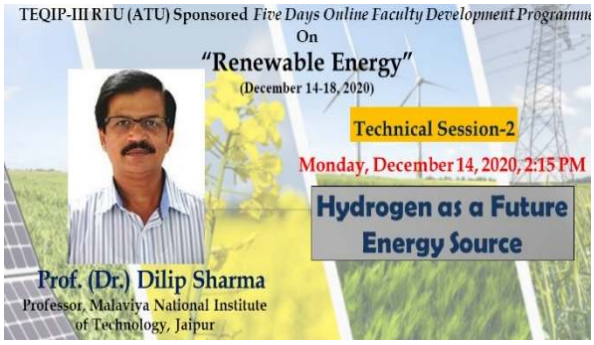
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Programme was initiated by a formal inaugural ceremony in the esteemed presence of Prof. R A Gupta, Honorable vice Chancellor, RTU, Kota, Prof. Manoj Neergat, IIT Bombay, Dr. Mahesh M. Bundele, Director, Poornima College of Engineering Jaipur and other dignitaries of the institute.

DAY-I (Monday, December 14, 2020)

The first technical session of the FDP was conducted by **Prof. K. S. Reddy, IIT Madras**. He delivered his talk on **Renewable Energy: Current Status and Prospects** where he focused on various renewable energy sources and their potential in India and world. In addition to it **Prof. Reddy** also discussed results from current research studies on solar energy-based projects at IIT Madras.



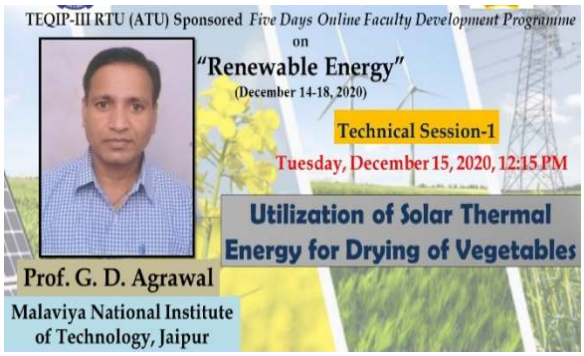


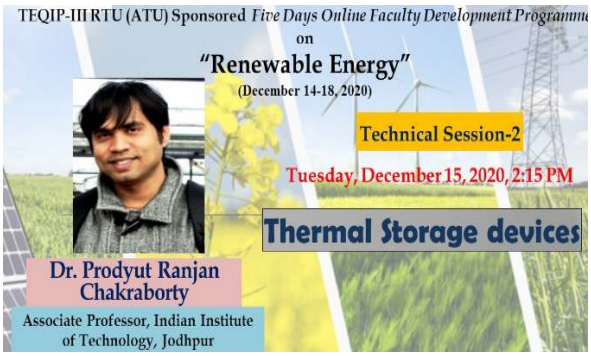
Second Technical session was delivered by **Prof. Dilip Sharma** from MNIT, Jaipur on the Hydrogen as a future fuel. Where he discussed about various renewable fuels but his focused was on Hydrogen as a clean and future fuel. In his presentation he demonstrated various vehicles which are designed to operate with Hydrogen fuel. He also presented the comparison of the risk involved in hydrogen operated vehicle with the vehicles operated with other alternative energy sources.

DAY-II (Tuesday, December 15, 2020)

The **first technical talk of the second day** was conducted by **Prof. G. D. Agrawal from MNIT, Jaipur** on **Utilization of Solar Thermal Energy for Drying of Vegetables.** His talk was comprised of three important technical issues; Basic concept of solar energy, various methods of harnessing solar energy, solar drier for drying vegetables. He also discussed various research conducted on solar drier at MNIT.

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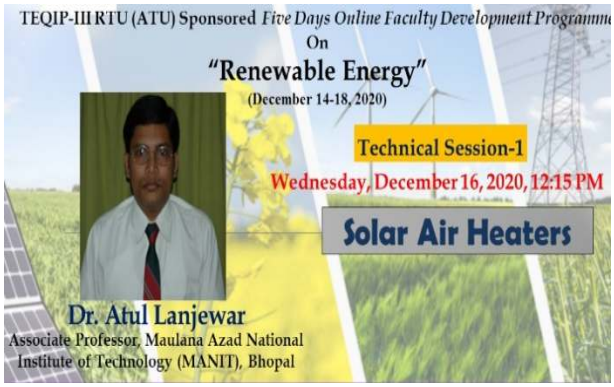




The second session of second day was conducted by **Dr. Prodyut Ranjan Chakraborty from, IIT, Jodhpur** on **Thermal Storage Devices** He discussed about various Thermal Energy Storage Devices. He also discussed about the research conducted on the thermal energy storage project. He also focused on waste energy utilization.

DAY-III (Wednesday, December 16, 2020)

In the first session of third day of **FDP Dr. Atul Lanjewar is working as Associate Professor, MANIT Bhopa**l delivered his talk on **Solar Air Heaters?** He discussed various types of Solar Heaters and its utilization with various research aspects of it.



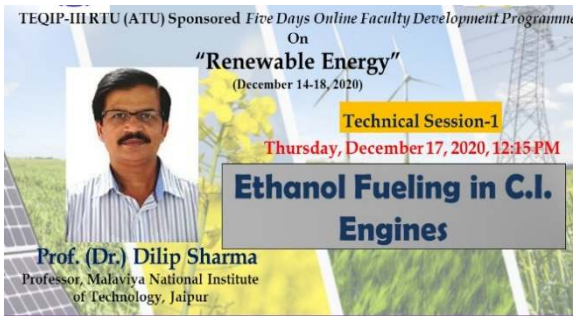


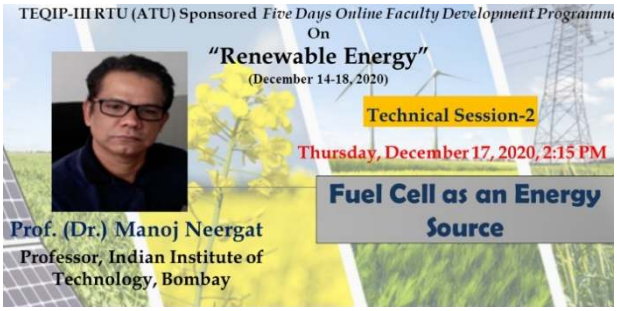
The second session was conducted by **Prof. G. S. Dangayach, MNIT, Jaipur, on Sustainable Energy Solutions.** He discussed about various energy sources utilized from primitive man to current man. He also suggested various energy solutions for sustainability.

DAY-IV (Thursday, December 17, 2020)

First Technical session of fourth day was delivered by **Prof. Dilip Sharma from MNIT, Jaipur on ethanol fueling in I C Engines** where he discussed about various alternative fuels but his focused was on ethanol as a fuel in CI ENGINE. In his presentation he initially talk about ethanol as a fuel in S I ENGINE which is successful. He also pointed out the problem of mixing diesel with ethanol. He also presented the various disadvantage of ethanol using in C I Engine and it is not so successful as it was with SI engine.

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Second Technical session of fourth day was delivered **by Prof. Manoj Neergat from IIT, Bombay on Fuel cell as a source of energy.** He started his talk with renewable energy and shifted to fuel cell. He discussed about various type fuel cell and advances related to fuel cell. He also discusses about Fuel cell technologies to generate power and Hydrogen.

DAY-V (Friday, December 18, 2020)

First session of the last day was delivered by **Dr. Pratham Arora on life cycle assessment of renewable energy system.** He discussed the various stages of life cycle assessment of renewable energy systems and utility of these type assessments for analysis of various energy systems.

Second technical session of the last day was delivered by **Dr. Bade Mukund on Pump as Turbine: A Micro Hydro Energy Sources.** He discussed several aspects how; pumps can be used as micro hydro energy sources.

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PHOTOGRAPHS OF SESSIONS :

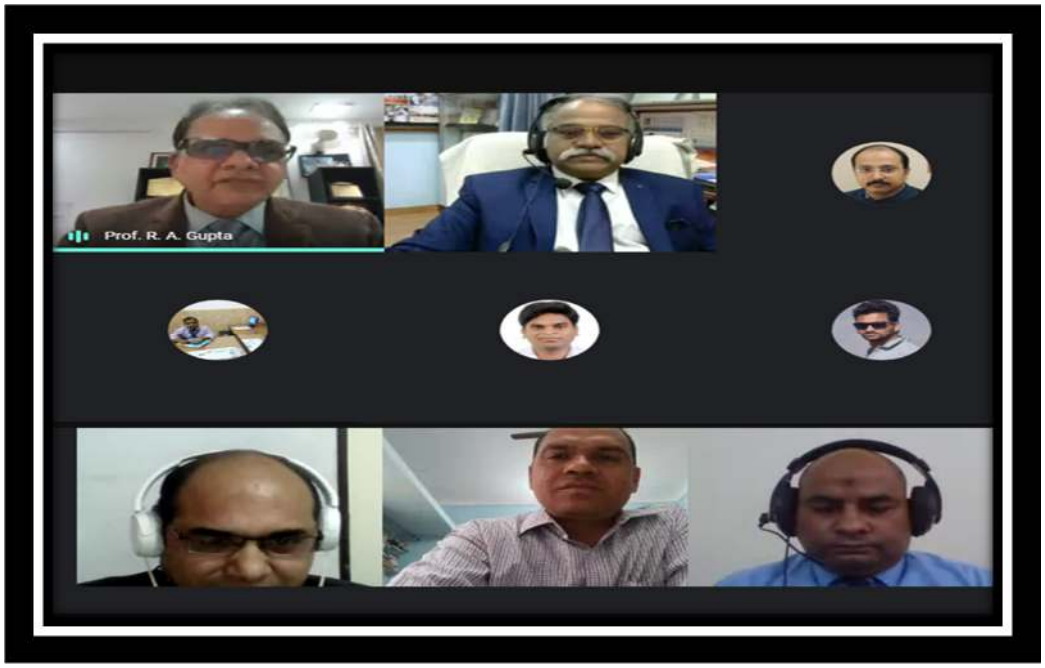
INNAUGURAL SESSION:





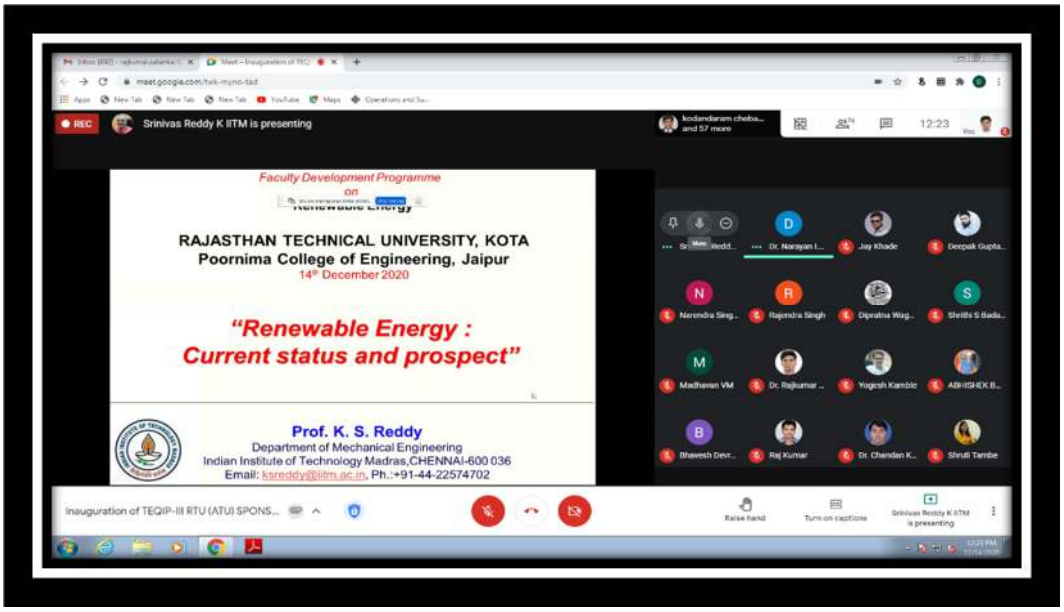
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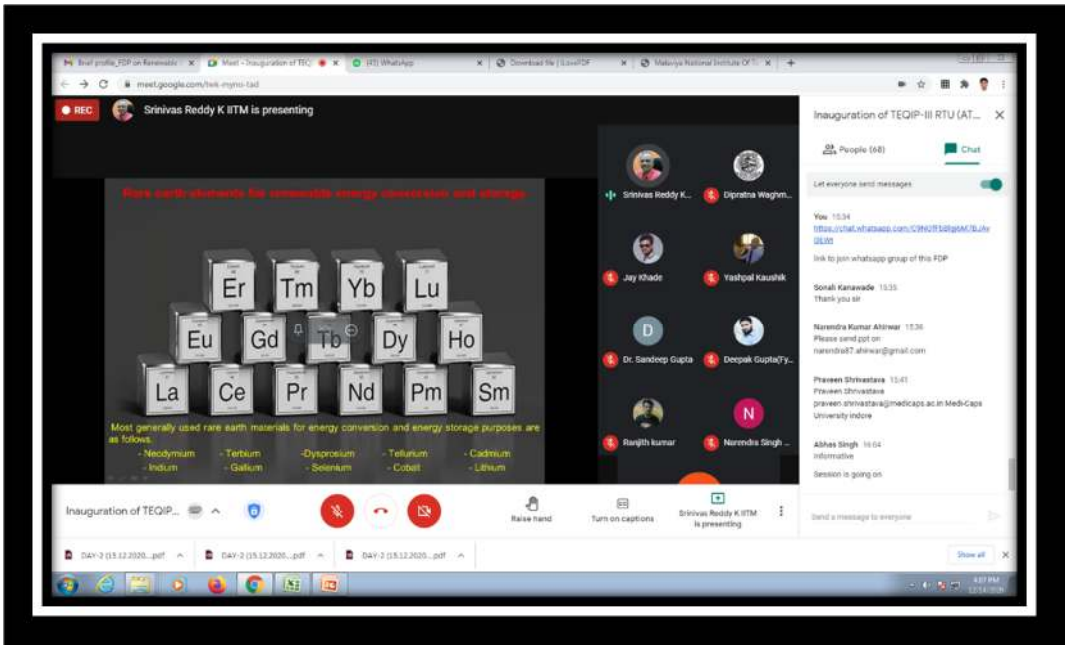




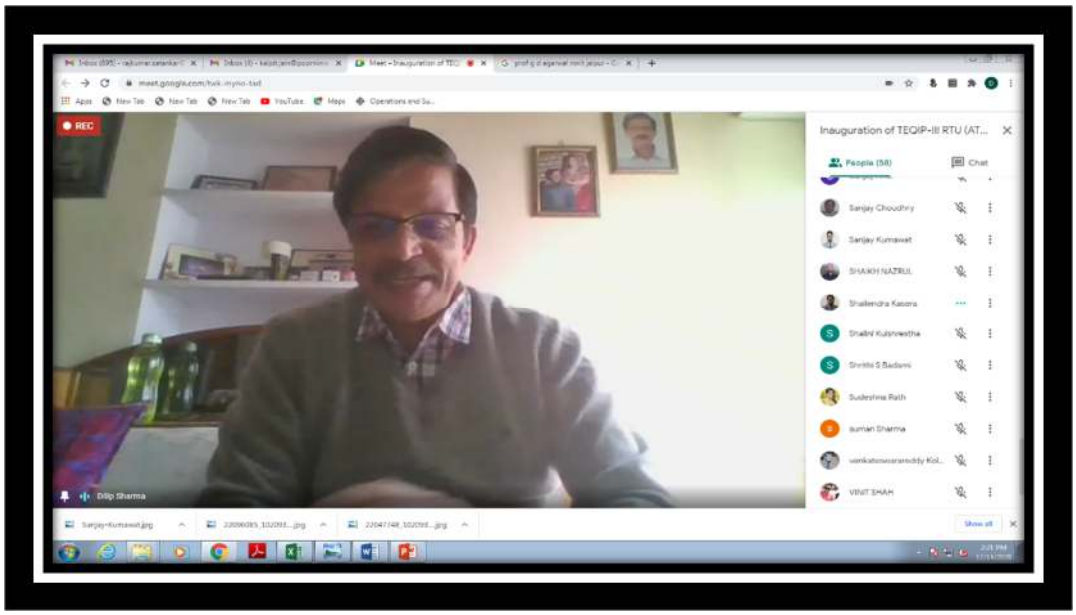
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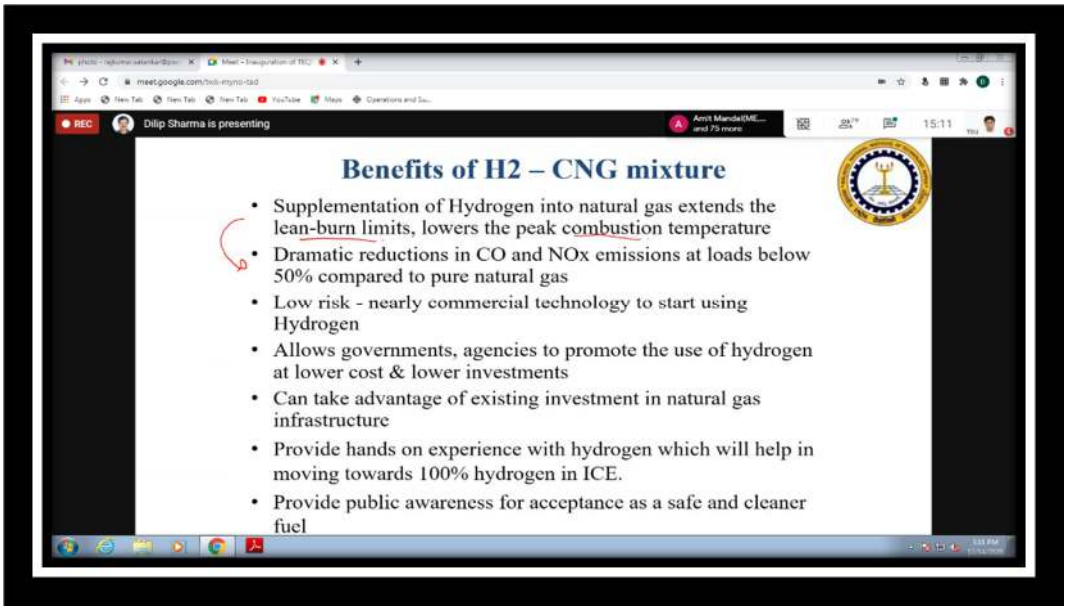
Technical Sessions (DAY-1)





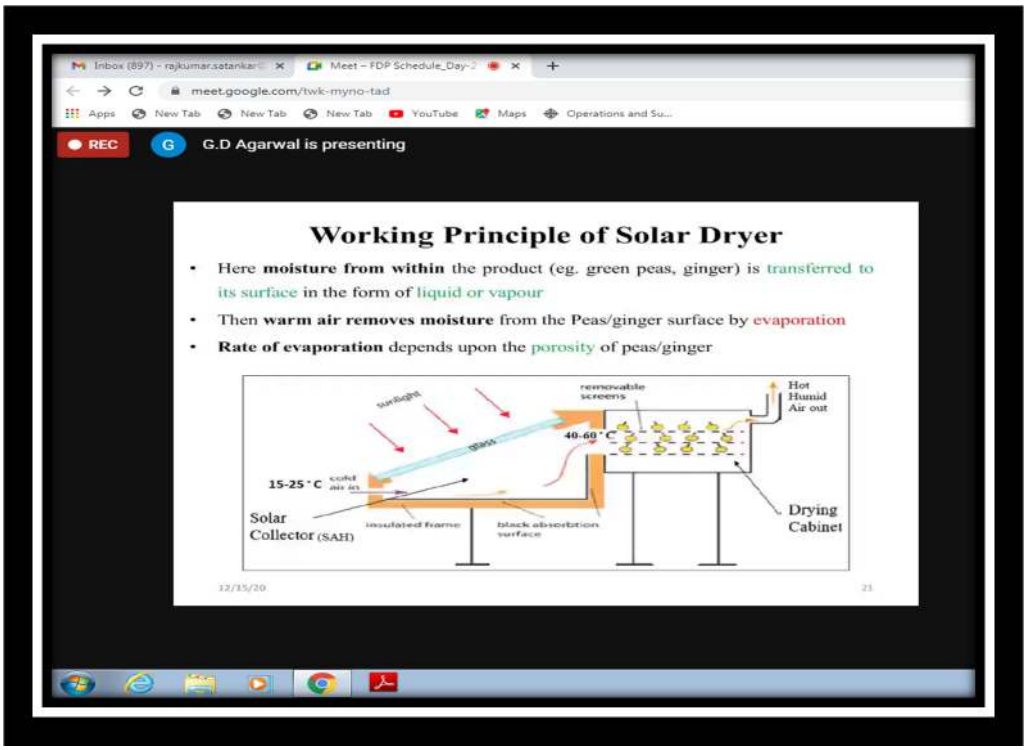
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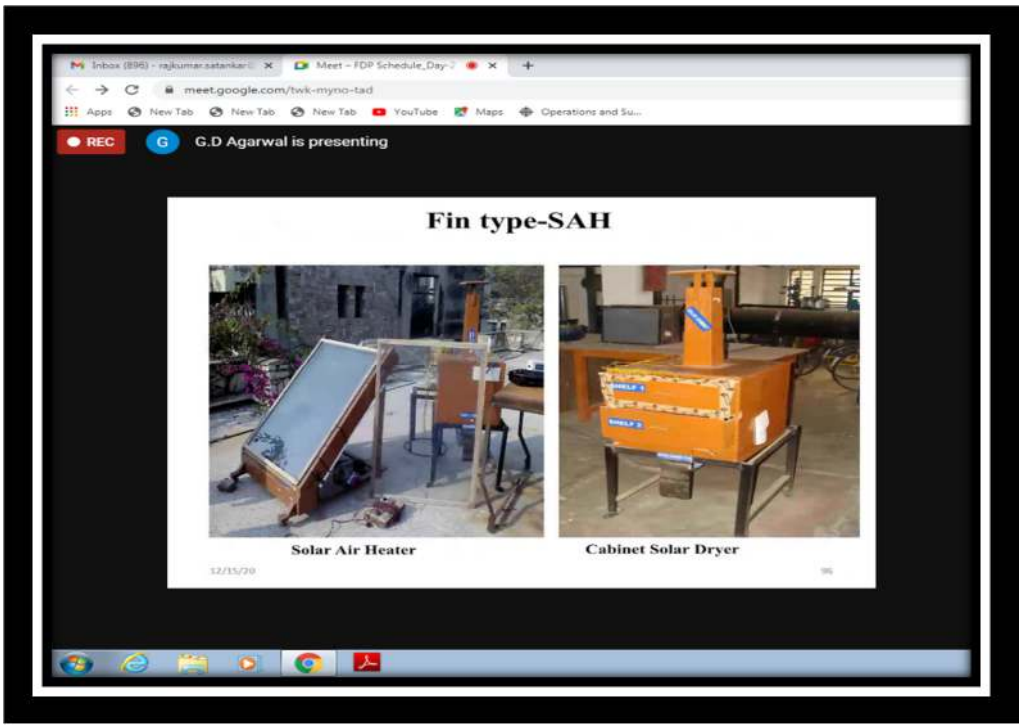




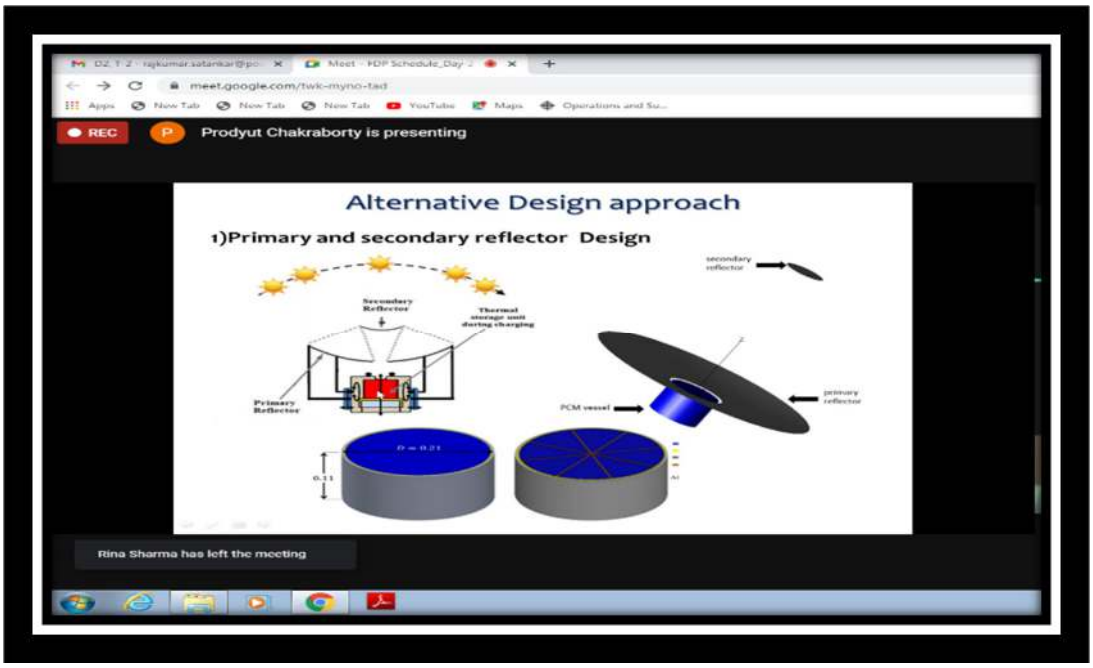
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Technical Sessions (DAY-3):





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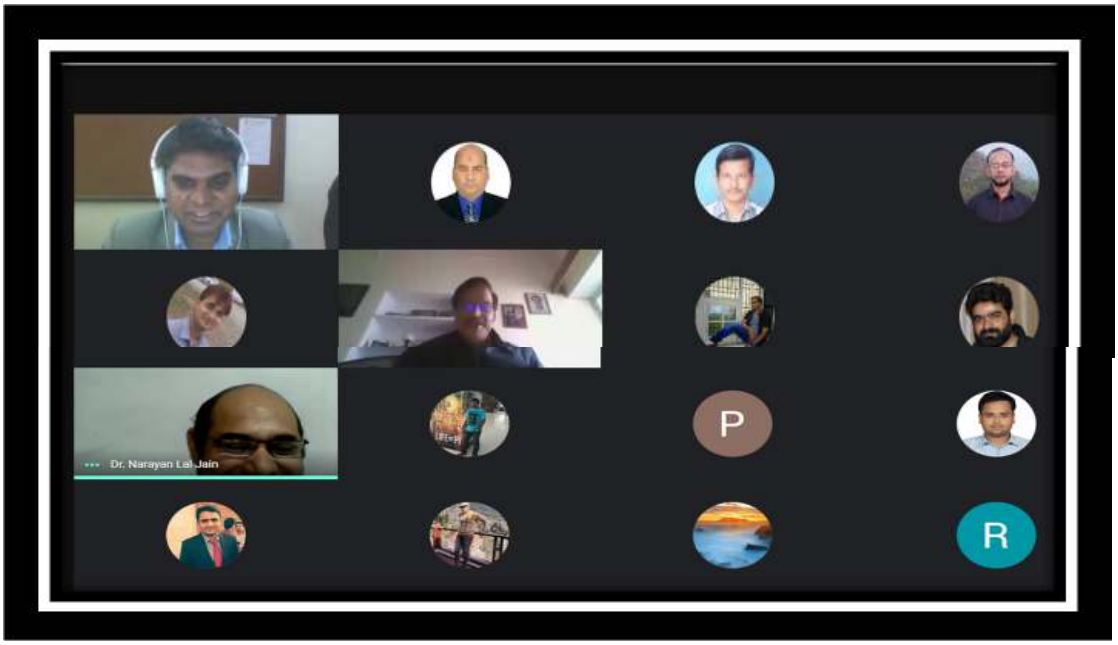
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Technical Sessions (DAY-4):

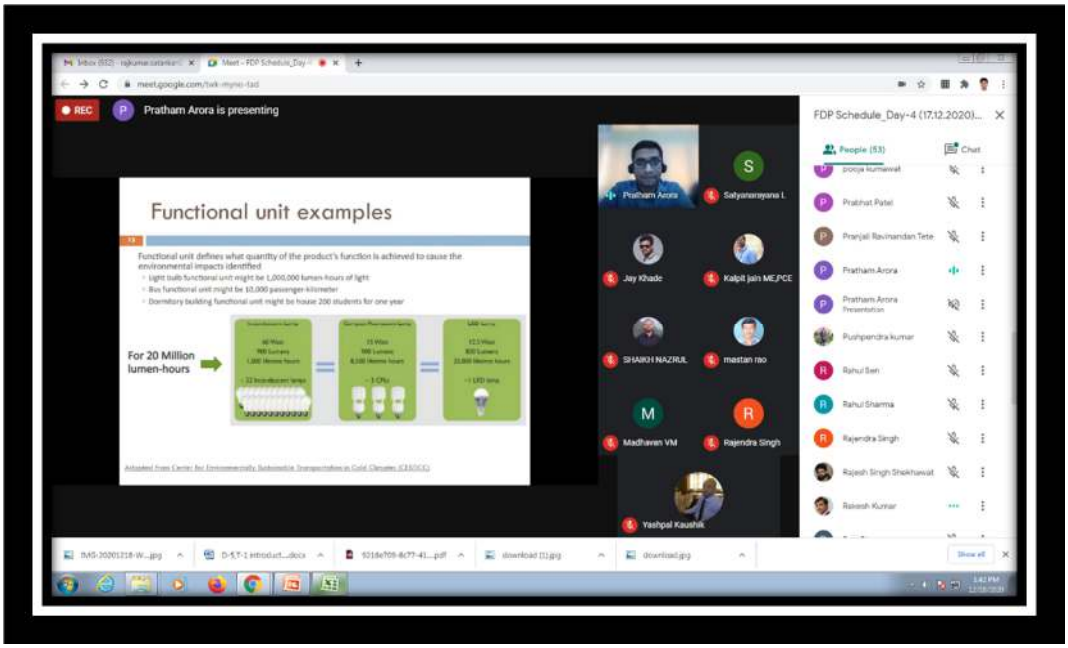




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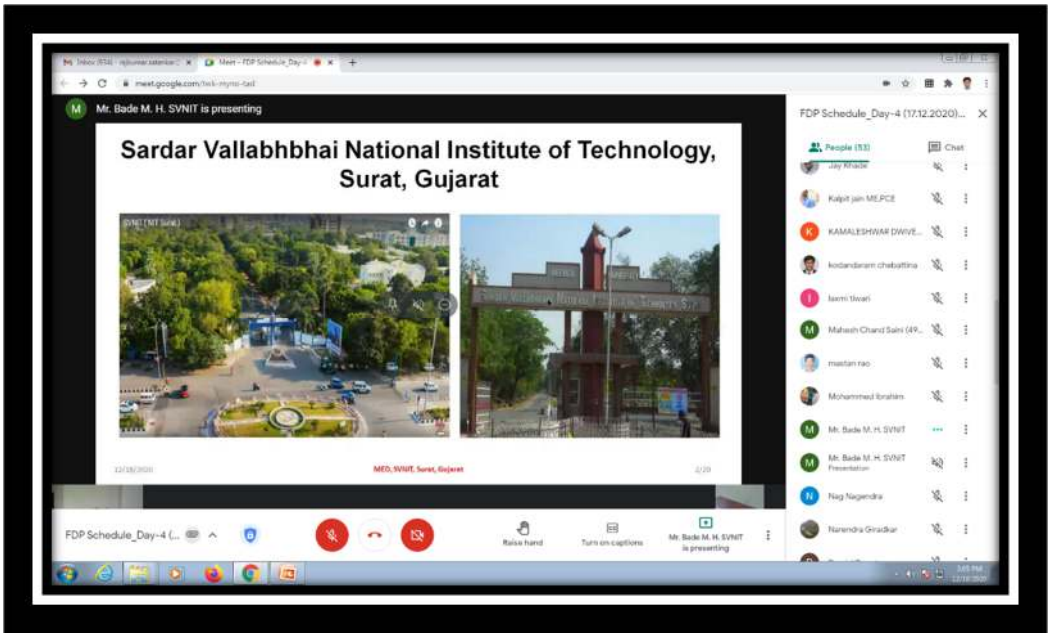


Technical Sessions (DAY-5):

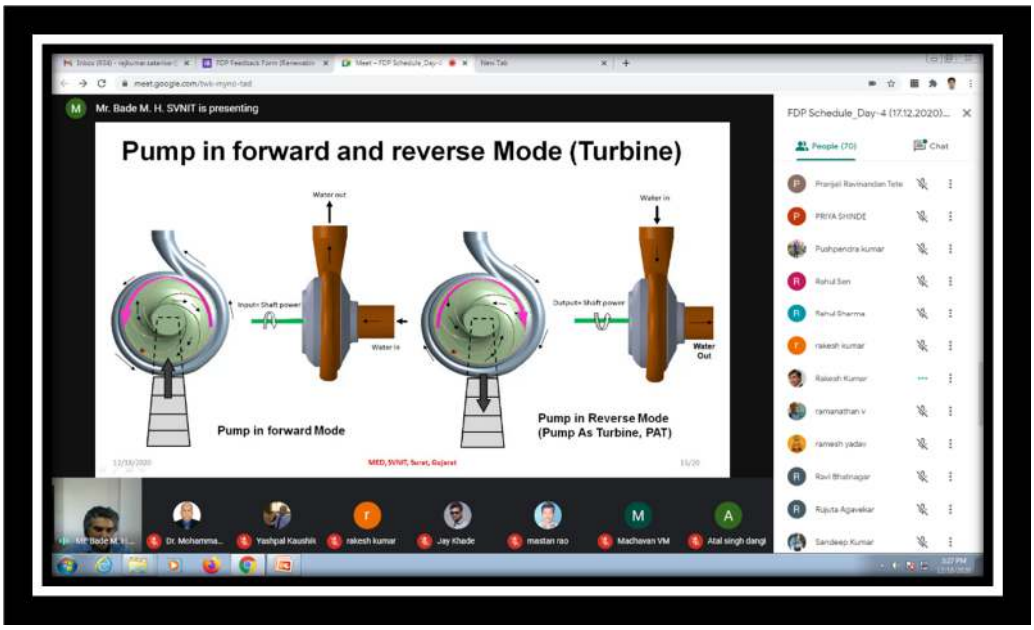


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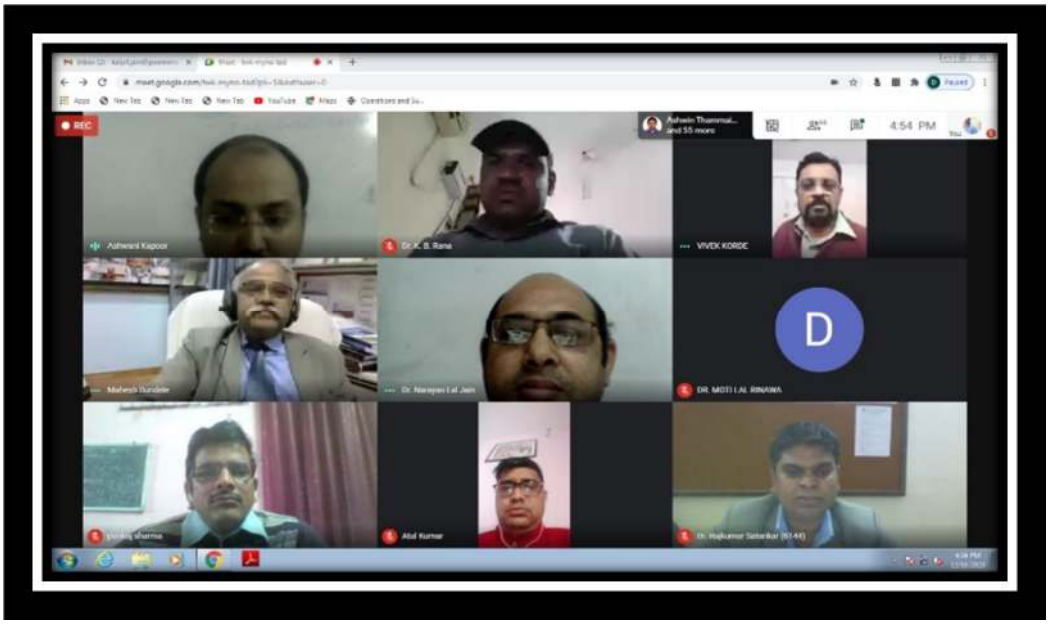




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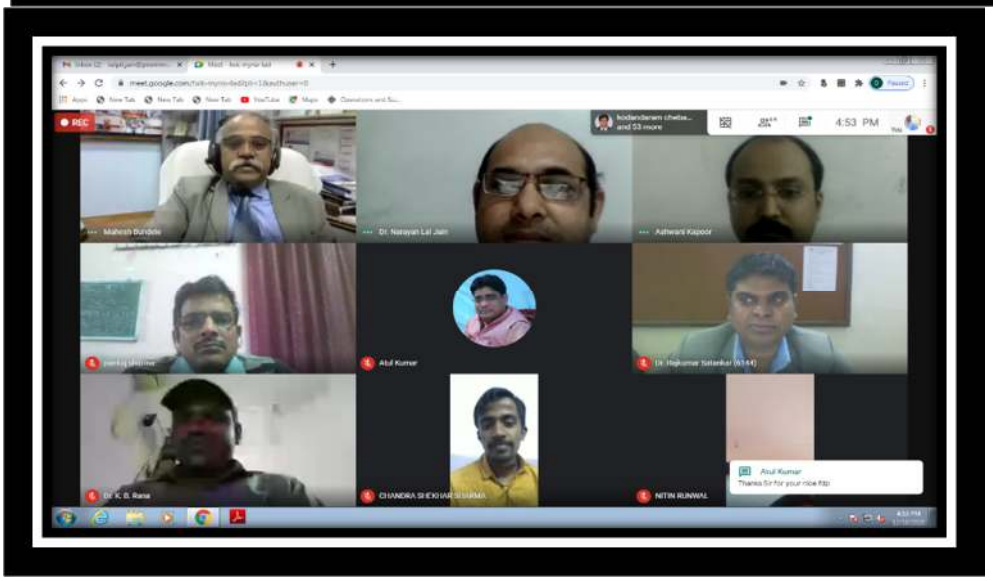


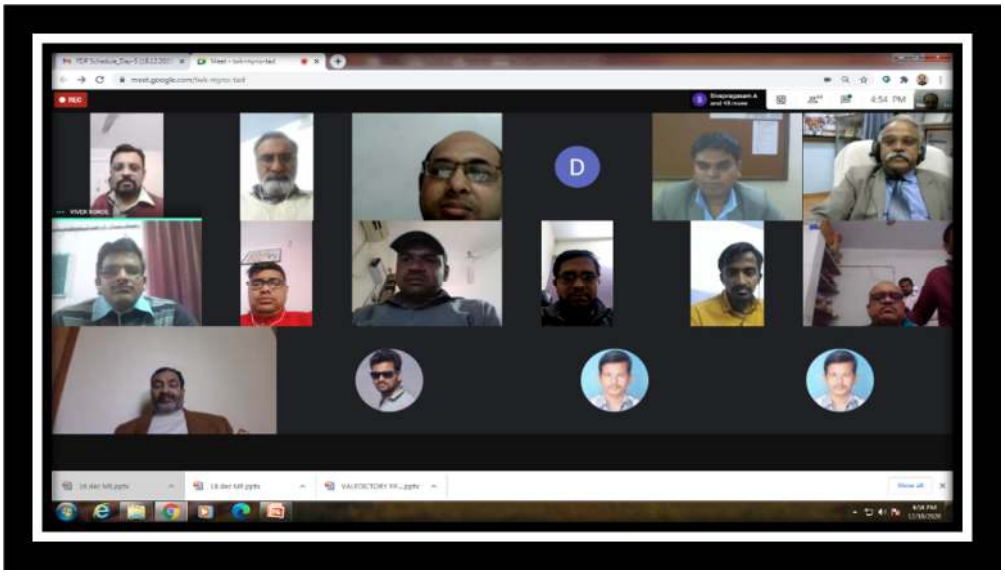
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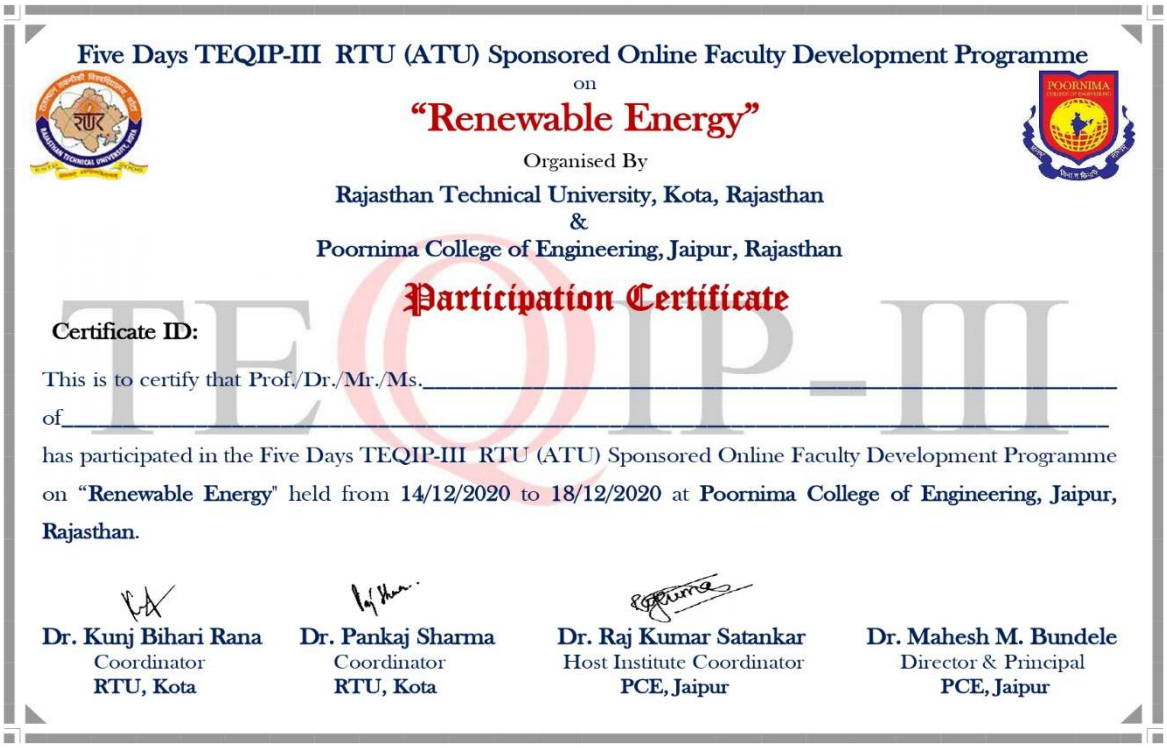
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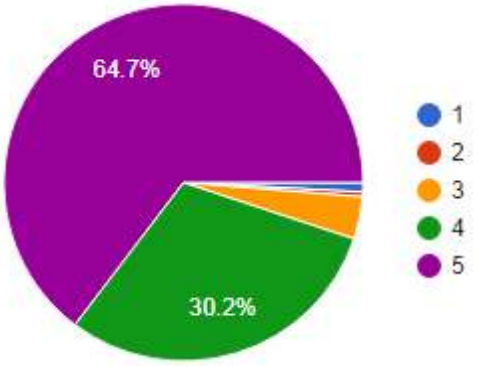
has participated in the Five Days TEQIP-III RTU (ATU) Sponsored Online Faculty Development Programme on "Renewable Energy" held from 14/12/2020 to 18/12/2020 at Poornima College of Engineering, Jaipur, Rajasthan.

Dr. Kunj Bihari Rana	Dr. Pankaj Sharma	Dr. Raj Kumar Satankar	Dr. Mahesh M. Bundele
Coordinator	Coordinator	Host Institute Coordinator	Director & Principal
RTU, Kota	RTU, Kota	PCE, Jaipur	PCE, Jaipur

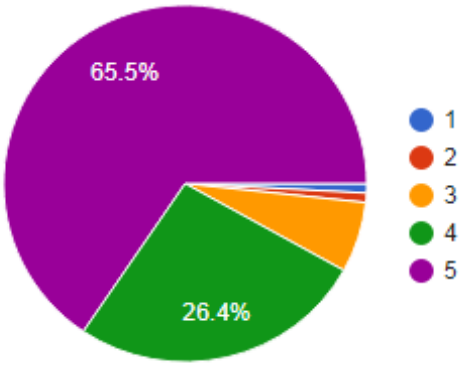
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Sitapura, JAIPUR

FEEDBACK ANALYSIS:

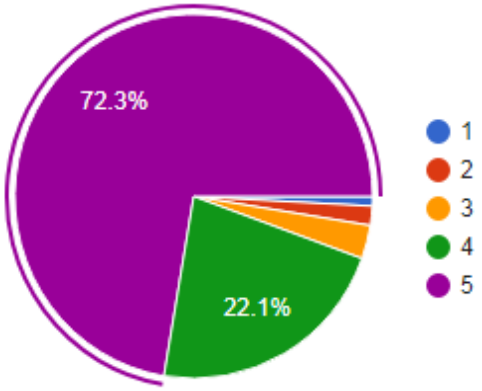
Knowledge enhancement through this FDP



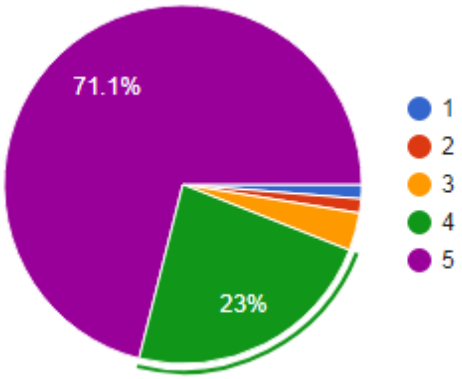
Relevancy of topics covered in this FDP



About speakers who delivered expert talk in this FDP



General arrangement from the host institute for the FDP



Dr. Mahesh Bundele
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POORNIMA
COLLEGE OF ENGINEERING

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

A Report on 3-day Faculty Development Program (FDP) on "Latent Mathematics in Sanskrit Context"

- **Flyer**



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

- **TITLE AND DURATION:** "Latent Mathematics in Sanskrit Context" September 28-30, 2020

- **SPONSORS:** TEQIP-III, Rajasthan Technical University Kota.

- **SUPPORTERS:** Rajasthan Technical University Kota.

- **ORGANIZERS:** Rajasthan Technical University, Kota, and Poornima College of Engineering, Jaipur.

OBJECTIVES: The Programme aims at equipping teachers with skills and knowledge in the field of Ancient treasures, Mathematics, and Sanskrit alive that are essential for inculcating learning values in students and guiding and monitoring their progress toward their careers.

- **EXPECTED OUTCOMES:**
  - To discuss state of the art developments and emerging techniques in Mathematics field with Sanskrit.
  - To provide an opportunity for faculty members and ongoing researchers to equip and advance their knowledge in these application areas and also, identify the prospective areas for novel research.
  - To exchange views, an idea the latest innovation in the field of Ancient Mathematics with Sanskrit.
  - It also offers learning on adaptive Mathematics, Vedas, and, evolutionary learning in Mathematics with Sanskrit context.

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BROCHURE / POSTER / LEAFLET / FLYER:

ABOUT TEQIP-III

The Project, 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 to improve their policy, academic and management practices.

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 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M. Tech. 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

Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects.

Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution allover Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME,IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students &designated as Centre of excellence by IBM

DEPT. OF ELECTRONICS & COMM. ENGG.

The Department of Electronics and Communication Engineering (ECE) was established in year 2003. National Board of Accreditation (NBA) accredited the ECE department in the year 2009 & 2016 for subsequent three years. It has intake capacity of 180. It also offers M. tech in VLSI Design with intake capacity of 18 students. The department has highly qualified committed and research oriented faculty members. The department has laboratories as per Rajasthan Technical University Syllabus with State-of-the-Art facilities in diversified fields such as Electronic Circuits, VLSI Design, DSP (Digital signal processing), Embedded Systems, Advanced Wireless Communication and Microwave etc. Research is being carried out in the areas of Antenna Design and Wireless Communication, and VLSI design. The department also has to his credit three labs, (i) Microwave Engineering lab & (ii) Advance Antenna & Wireless Communication lab (iii) Advancement of Wireless and Optical Fiber Lab supported by MODROBS Grants of AICTE, New Delhi.

IETE Student Forum (IFS) of the Department has been recognized as Most Active ISF for session 2016-17 by IETE Rajasthan Center, Jaipur. The department also has state of the art lab facility for the value added IBM Career Education Programs for faculty members and students on emerging technologies such as IBM BlueMix for Cloud, IBM Cognos for Business Intelligence and IoT Application Development & Deployment using IBM BlueMix.

ABOUT FACULTY DEVELOPMENT PROGRAM

The Vedas are the earliest records of human wisdom. Some number systems and related concepts that are exists in Vedas were discussed. The content is divided into four small sections. Some concepts: numbers, zero, infinity, and the importance of mathematics in shastras that exist in Vedas were presented.

In particular, Vedic Mathematics is the mathematical knowledge of ancient Hindus passed down through generations (initially verbally) in the form of hymn/slokas (verses) in Sanskrit.

Sanskrit literature explains the eight fold path which is used in mathematics as Samkalanam (Addition), Vyavakalanam (Subtraction), Gunanam (Multiplication), Bhaagah (Division), Vargah (Root), Vargamulam (Square Root), Ghanam (Cube) and Ghanamulam (Cube Root). The salient features of Square root and cube root are well explained by the great Indian Sanskrit scholars like: Arya Bhatta and Brahma Gupta. In Taittariyasamhita; Brahmanas, Samantarasrenis and Gunottarasrenis these number concepts are well presented.

This program will provide an opportunity to highlight recent trends and developments to identify emerging and future ares of growth in these exciting fields. It will further give impetus to the researchers toward scribing out newer and efficient techniques. Expert invited speakers from both Mathematics and Sanskrit with their vast research experience in various fields will arouse the researchers for development of Mathematics in a new field.

TOPICS TO BE COVER

- An Introduction to Ancient Indian Mathematicians
- Numerical References in Vedic Texts
- ज्ञानयज्ञशुल्बसूत्रेषुगणितविज्ञानचिन्तनम्
- Glimpses of Mathematics in Ancient Indian
- प्राचीनभारतेगणितज्योतिषेयोगदान- चर्चात्मकमध्ययनम्-ऊहापोहे
- प्राचीनभारतीयगणितम् : भास्कराचार्यदृष्टिपरिचये
- Lilavati : treatise on Mathematics
- Contributions of Aryabhata to Astronomy and Mathematics
- Vedic Mathematics

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,Jaipur

RTU (ATU) TEQUIP-III COORDINATOR

Prof. (Dr.)DhirendraMathur

RTU EVENT COORDINATOR

Dr. KamleshJangid (RTU, KOTA)
Dr. S.D. Purohit (RTU, KOTA)

RTU (ATU) TEQUIP-III COMMITTEE

Dr. Harish Sharma	Nodal officer
Prof. D. K. Sambariya	Nodal Officer Procurement
Dr. S. D. Purohit	Nodal Officer Finance
Dr. Irum Alvi	Conference
Mr. Santosh Sharma	Expert Lecture
Mr. Anshul Bansal	GATE & Induction
Mr. Dinesh Kumar	Workshop

HOST INSTITUTE COORDINATOR

Dr. Shuchi Dave — Associate Professor, Mathematics,

PCE ORGANIZING COMMITTEE

Dr. GarimaMathur , Professor & Head ECE
Dr. Ashok Kumar Kajla, Associate Professor, ECE
Dr. Payal Bansal, Assistant Professor, ECE
Mr. Tarun Mishra, Assistant Professor, ECE
Mr. Durgesh Kumar, Assistant Professor,ECE
Mr. Manish Sharma, Assistant Professor, ECE
Ms. ManishaKumawat, Assistant Professor, ECE
Mr. Gaurav Saxena, Assistant Professor, ECE
Mr. RajveerMarwal, Assistant Professor, ECE
Mr. Amit Kumar Jain, Assistant Professor, ECE

RESOURCE PERSONS



Dr. Paramba Shree Yogamaya, Assistant Professor, Department of Veda, Shri Jagannath Sanskrit Vishvavidyalaya, Shri Vihar, Puri, Odisha



Dr.PrativaManjariRath
Post Graduate Department of Sanskrit,Utkal University, Bhubaneswar, Odisha



Dr. ShatrughnaPanigrahi,
Associate Professor, Department of Veda,Shree Somanath Sanskrit University,Veraval, Gujarat.



Dr. Narayana Dash
Asst. Professor, Department of Sanskrit, Rama Krishna Mission Residential College, Narendrapur, Kolkata



Assistant Professor, Department of Jyotisha, Sampurnanand Sanskrit University, Varanasi, UP.



Mission Vivekananda Educational & Research Institute, Ramakishna,Belur, Howrah, W.B.



Prof. BanamaliBiswal
Head of Department, Vyakarana, Central Sanskrit University, RaghunathKirti Campus Deoprayag, UttaraKhand



Dr. KedarNath Das
Asst. Prof., Dept. of Mathematics NIT, Silchar, Assam



Dr.ParthaSarathiMukhopadhyay
Associate Professor, Department ofMathematics, Ramakrishna Mission Residential College (Autonomous), Narendrapur, Kolkata, W.B.

RESOURCE PERSONS

The resources persons for the FDP will be Eminent Professors and Experts in the area of Mathematics from IITs, NITs, Central University and other Esteemed Institutions.

ELIGIBILITY

This course is open to all the Faculty Members of AICTE Approved Institutions, Research Scholars, and Persons working in R&D organizations or Industry. Number of participants for FDP is limited. All the sessions will be conducted online only.

REGISTRATION & FEE PARTICULARS

There is no registration fee for faculty from AICTE approved Institutions, Participants from Industry, and Research Scholars. • Registration for the program may be done by filling the Registration Form online, Reg. Link:
https://forms.gle/XrnjUEG3WSNSNjoB7

IMPORTANT DATES

Last date of recipient of application	September 26, 2020
Intimation of selection by mail	September 27, 2020
FDP duration	September 28-30, 2020

CORRESPONDENCE

Dr. Shuchi Dave
Associate Professor, Mathematics
Department of Electronics & Communication Engineering
Poornima College of Engineering
ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022
Shuchi.dave@poornima.org
8058402483

Venue

Department of Electronics & Communication Engineering

POORNIMA COLLEGE OF ENGINEERING

ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022 www.pce.poornima.org

TEQIP-III

RTU (ATU) SPONSORED

Three Days Faculty Development Program

on

LATENT MATHEMATICS IN SANSKRIT CONTEXT

(September 28-30, 2020)



Organize by

Rajasthan Technical University, Kota
&
Department of Electronics & Communication Engineering, PCE, JAIPUR

POORNIMA COLLEGE OF ENGINEERING

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

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

- **PROGRAM SCHEDULE:**

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Poornima College ofEngineering

TEQIP-III RTU (ATU)SPONSORED

Faculty Development Program

Latent Mathematics in Sanskrit Context

(September 28-30, 2020)

Date: September 28, 2020 **Time:2:30PM-3:00PM**

Venue: Online

Q-Sheet- Inaugural Session

S. No	Activity	Duration	Time
1.	• Welcome of Dignitaries and Introduction of FDP by **Dr. Shuchi Dave,** (Associate Prof.) Coordinator, PCE • **Prof. (Dr.) R.A. Gupta** , Hon'ble Vice Chancellor , RTU ,Kota **(Chief Guest)** • **Prof. (Dr.) Dhirendra Mathur,** RTU (ATU) TEQIP- III Coordinator **(Guest of Honour),**Kota • **Dr. Paramba Shree Yogamaya ,**Shri Jagannath Sanskrit Vishvavidyalaya **(Guest of Honour),Odisha** • **Ar. Rahul Singhi,** Director, Poornima Group,Jaipur • **Dr. Kamlesh Jangid** ,RTU,Kota(Event Coordinator) • **Dr. S.D. Purohit** ,RTU ,Kota ,(Event Coordinator) • **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur • **Dr. Garima Mathur**, HOD,ECE, Poornima College of Engineering,Jaipur	03 Min	2:30PM - 2:33PM
2.	Welcome Address by **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur	04Min	2:33PM - 2:37PM
3.	Welcome Address by **Ar. Rahul Singhi,** Director, Poornima Group,Jaipur	03Min	2:37PM - 2:40PM
4.	About the FDP by **Dr. Kamlesh Jangid** , RTU Event Coordinator, RTU Kota	05 Min	2:40PM - 2:45PM
5.	Introduction of Guest of Honour & Address by Guest of Honour **Prof (Dr.) Dhirendra Mathur** , RTU (ATU) TEQIP-III Coordinator,Kota **Dr. Paramba Shree Yogamaya ,**Shri Jagannath Sanskrit Vishvavidyalaya **,Odisha**	05 Min	2:45PM - 2:50PM
6.	Introduction of Chief Guest & Inaugural Address by the Chief Guest **Prof. (Dr.) R.A. Gupta,** Hon'ble Vice Chancellor , RTU Kota	05Min	2:50PM - 2:55PM
7.	Vote of Thanks by **Dr. Garima Mathur** HOD,ECE, PCE,Jaipur	05 Min	2:55PM - 3.00 PM

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- **INAUGURAL SESSION:**

Shree Yogamaya, Assistant Professor, Shri Jagannath Sanskrit Vishvavidyalaya, Puri, Odisha, Dr. Kamlesh Jangid, RTU Event Coordinator, and Architect Rahul Singhi, Director Poornima Group and Dr. Mahesh M. Bundele, Director, Poornima College of Engineering. More than 100 Faculty members attended this Faculty development program.

In the coming 3 days, eminent speakers from all over India will deliver their lectures and share their knowledge on the upcoming research topics. Mathematics with Sanskrit is also a very collaborative discipline so; doing scientific research is like a big venture that gives us an amazing feeling. This research has been a lot of fun and it is very important for the world also. Understanding Classical Scientific Texts of India in an Immersive Sanskrit Environment is a new field of interest for researchers. This FDP will definitely inspire participants to research, innovate, study and teach mathematics and science in Sanskrit also.



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- **DETAILS OF RESOURCE PERSONS:**

Poornima College of Engineering
Department of Electronics & Communication Engineering
Faculty development Program on "Latent Mathematics in Sanskrit Context"

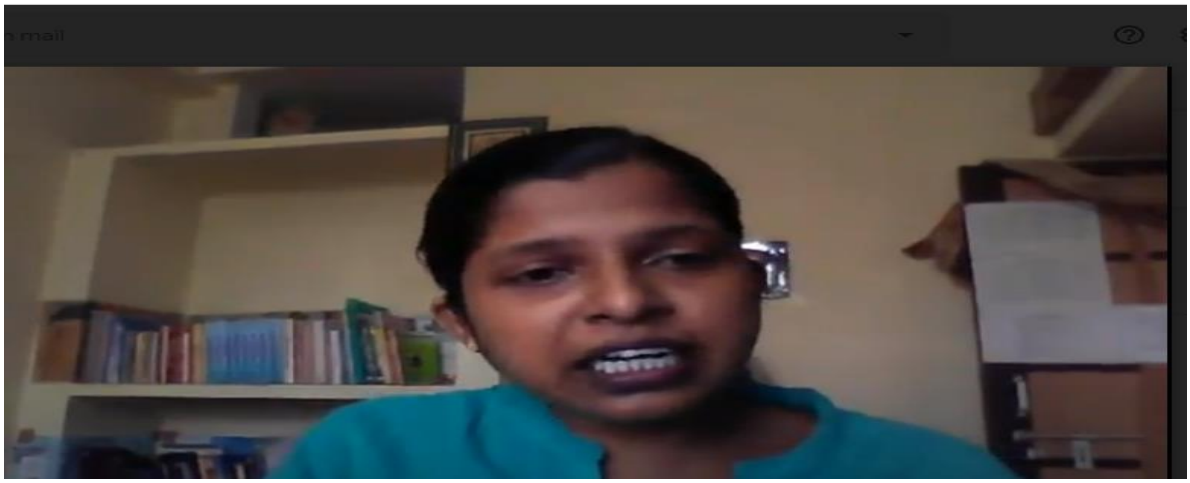
	02:30 PM -3:00 PM	03:00 PM -4:00 PM	04:00 PM -5:00 PM	05:00 PM -6:00 PM
Monday 28.09.2020	Inaugural Session	Dr. Paramba Shree Yogamaya Shri Jagannath Sanskrit Vishvavidyalaya Puri, Odisha " An Introduction to Ancient Indian Mathematicians"	Dr.Prativa Manjari Rath Utkal University, Bhubaneswar, Odisha " Numerical References in Vedic Texts"	Dr. Shatrughna Panigrahi, Shree Somanath Sanskrit University, Veraval, Gujarat "कात्यायनशुल्बसूत्रेंभारतीयगणितकीपरिचर्चा"
Tuesday 29.09.2020		Dr. Partha Sarathi Mukhopadhyay Ramakrishna Mission college, Kolkata "Glimpses of Mathematics in Ancient Indian"	Dr. Narayan Dash Rama Krishna Mission College, Kolkata " प्राचीन गणित में श्रीधराचार्य का योगदान-पाटीगणितसारः की दृष्टि से"	Dr. Madhusoodan Mishra Sampurnanand Sanskrit University, Varanasi "प्राचीन भारतीय गणितशास्त्र : भास्कराचार्य द्वितीय की दृष्टि से"
Wednesday 30.09.2020		Dr. Rakesh Das Mission Vivekananda Educational & Research Institute Belur, Howrah " Lilavati : treatise on Mathematics"	Prof. Banamali Biswal Central Sanskrit University, UttaraKhand "Contributions of Aryabhata to Astronomy and Mathematics"	Dr. KedarNath Das NIT,Silchar, Assam " Vedic Mathematics"

- Dr. Paramba Shree Yogamaya, Assistant Professor, Shri Jagannath Sanskrit Vishvavidyalaya, Puri, Odisha
- Dr. Satrughna Panigrahi, Associate professor Jagannath sanskrit Vishvadivalya, Puri, Odisha
- Dr. Partha Sarathi Mukhopadhyay, Associate Professor, Dept. of Mathematics Ramakrishna Mission Residential College, Calcutta
- Dr. Narayan Das, Asst. Professor in Sanskrit in Department of Sanskrit,Rama Krishna Mission Residential College (Autonomous) ,Kolkata, W.B.
- Dr. Madhusoodan Mishra ,Assistant Professor, Dept. of Jyotish, Sanskrit University, Varanasi, U.P
- Prof. Banamali Biswal, Head of the Department of Vyakarana, Cenral Sanskrit University, Raghunath Kirti Campus, Devaprayag, Uttarakhand.
- Dr. Rakseh Das, Associate Professor, Dept. of Sanskrit studies , Ramakrishna Mission vivekananda university, howrah ,west banga
- Dr. Kedar Nath das Assistant Professor in the Department of Mathematics, NIT Silchar, Assam

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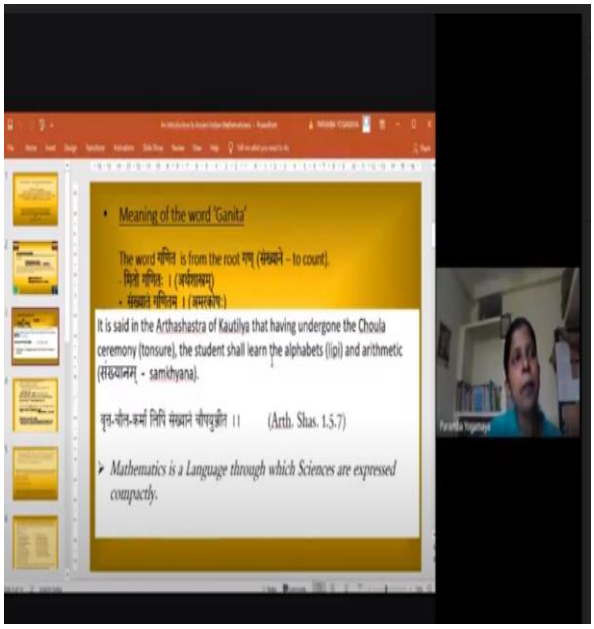
- **CONTENT DELIVERY / PRACTICAL SESSIONS:**
- **Day1, 28 September 2020**

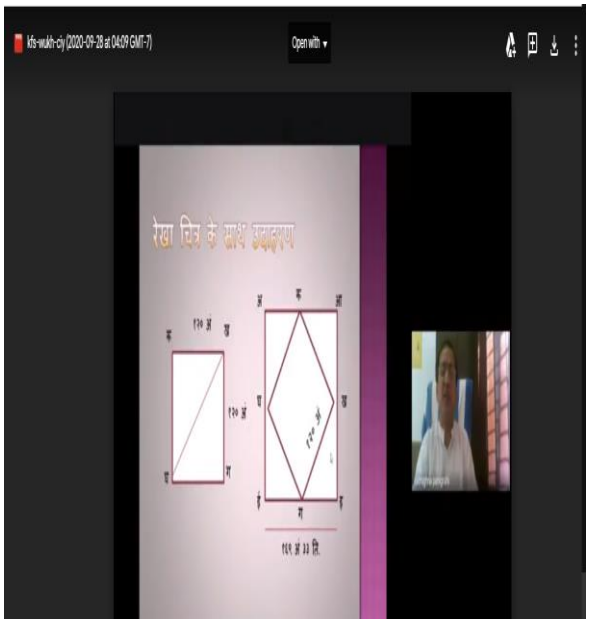
Dr. Paramba Shree Yogamaya

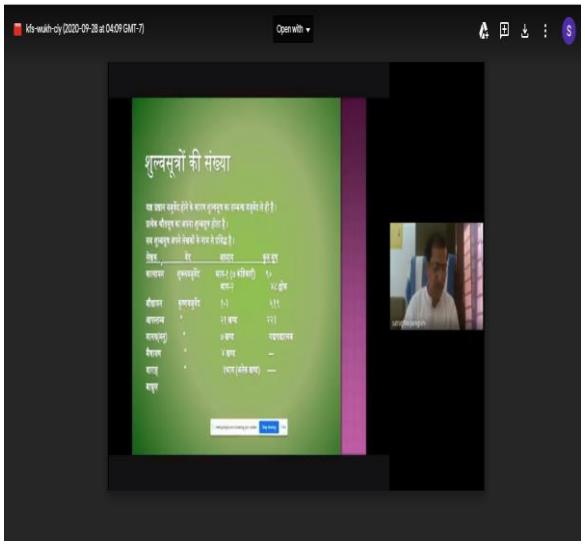


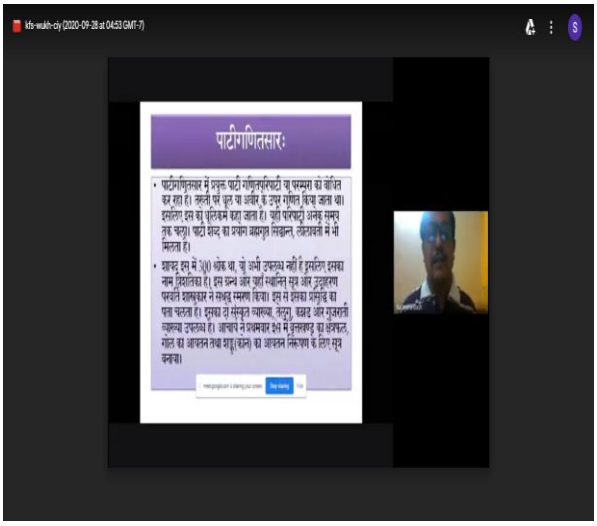
On the very first day i.e. 28 Sept 2020 of this FDP Dr. Paramba Shree Yogamaya ,Assistant Professor in the Department of Veda at Shri Jagannath Sanskrit University, Puri, odhisa deliver her lecture on **"An Introduction to Ancient Indian Mathematicians"** She told us about the number of ancient mathematicians like Aryabhatta, Ramanujan,Shakuntala devi ,Bhaskaracharya etc. and about their contributions to Indian mathematics and in science .Next session was delivered by Dr. Satrughna Panigrahi, Associate professor Jagannath sanskrit Vishvadivalya, Puri, Odisha.His topic of presentation was "कात्यायनशुल्बसूत्रमों भारतीयगणितकीपरण चर्चा". He explained about what is shulbh sutra and how they can be used in mathematics .he explained some other concepts of mathematics which are given in geometry .Last session was delivered by speaker Dr. Narayan Das Asst. Professor in Sanskrit in Department of Sanskrit,Rama Krishna Mission Residential College (Autonomous) ,Kolkata, W.B. . His topic of presentation was"प्राचीन गणित में श्रीधरचार्य का योगदान पाटीगणितसारः की दृष्टि से". He explained about shridharacharya who explain about the zero or shoonya in his own way, he also explain about solution of quadratic equations. He has given very amazing analysis over number zero.

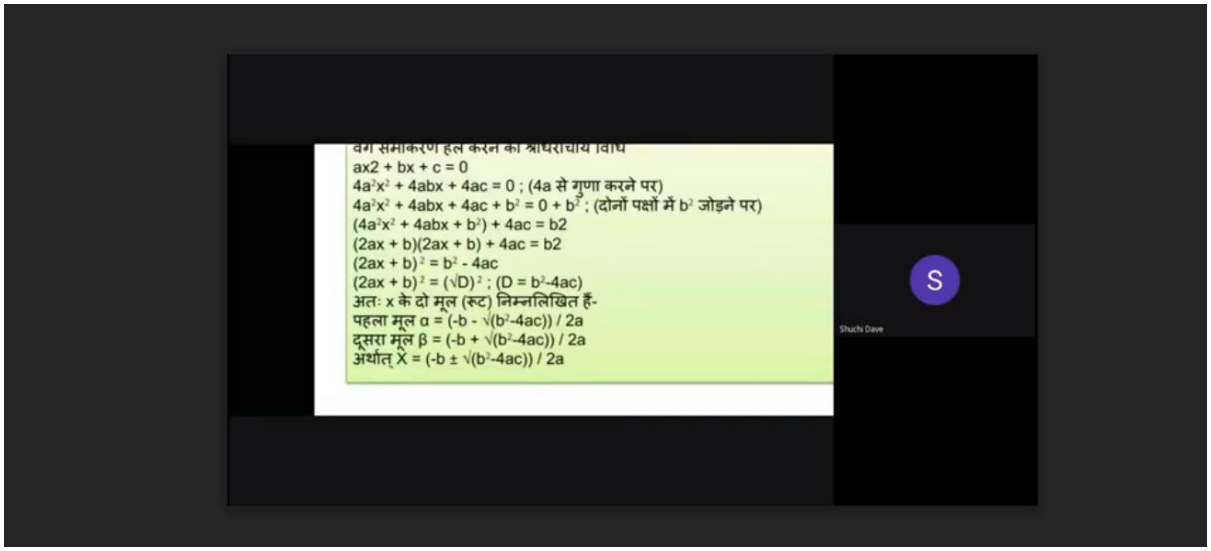
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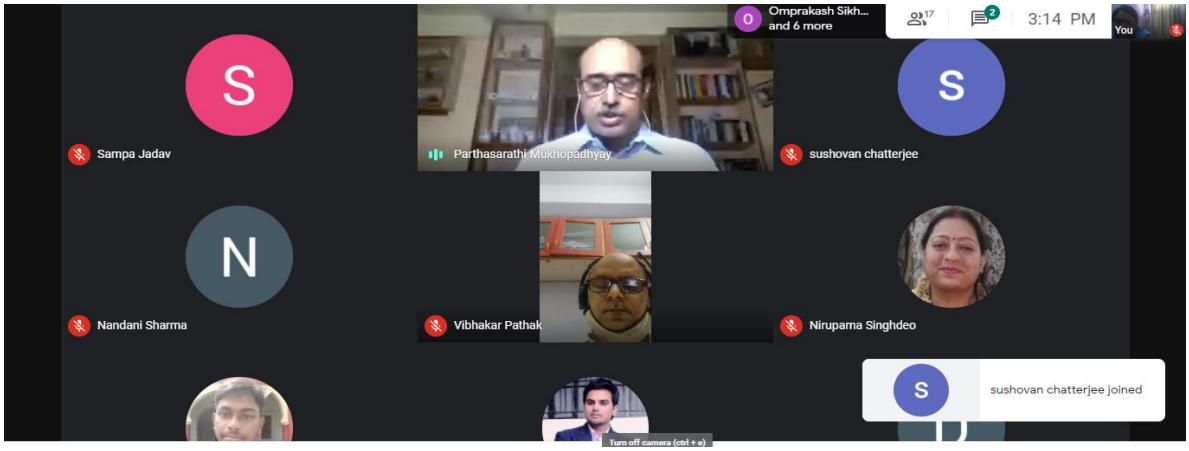
- **Day 2, 29 September 2020**

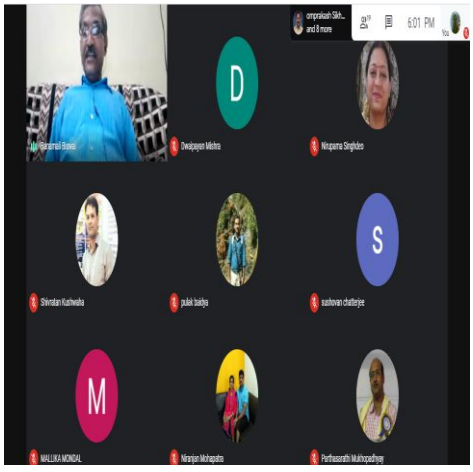
On 29 Sept., second day of this FDP, the first session was delivered by Dr. Partha Sarathi Mukhopadhyay, Associate Professor, Dept. of Mathematics Ramakrishna Mission Residential College, Calcutta. His title of presentation was “Glimpses of Mathematics in Ancient Indian ".

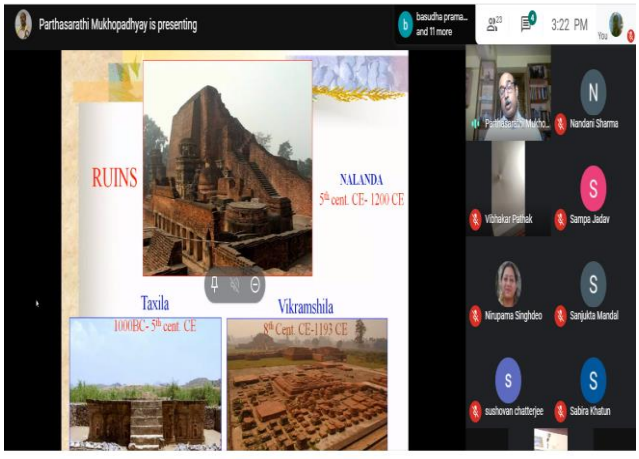
He entitled us about the concepts that there is amazing mathematics used in Hindu rituals in constructions of vedis, structures and cities and institutions at ancient times.

The next session was delivered by Dr. Madhusoodan Mishra is Presently working as an Assistant Professor, Dept. of Jyotish , Sanskrit university, varanasi,U.P. He present the topic " प्राचीन भारतीय गणितशास्त्र: Bhaskaracharya dwitiya की दृणि से” ". He told about how Vedic ganita is developed and what are the basic rules or tools which were used for numbers in mathematics.Last session was delivered by speaker Prof. Banamali Biswal, Head of the Department of Vyakarana, Cenral Sanskrit University, Raghunath Kirti Campus, Devaprayag, Uttarakhand. His topic of presentation was "Contributions of Aryabhata to Astronomy and Mathematics". He explained the contribution of Aryabhata to astronomy and mathematics.

Dr. Partha Sarathi Mukhopadhyay







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Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR



- **Day 3, 30 September 2020**

The third day afternoon of 30 Sept, the first talk in the afternoon session was delivered by Dr. Rakseh Das, Associate Professor, Dept. of Sanskrit studies, Ramakrishna Mission vivekananda university, howrah, west bangal. His topic of presentation was Līlāvatī: A Treatise. He expain about comprehensive exposition of arithmetic, algebra, geometry, mensuration, number theory and related topics. Mathematical explanation of definitions, formulae, short cuts and methodology as intended by Bhaskara. Joy and appreciate the beauty of accurate and musical presentation in Lilavati. The book is useful to school going children, sophomores, teachers, scholars, historians and those working for cause of mathematics.

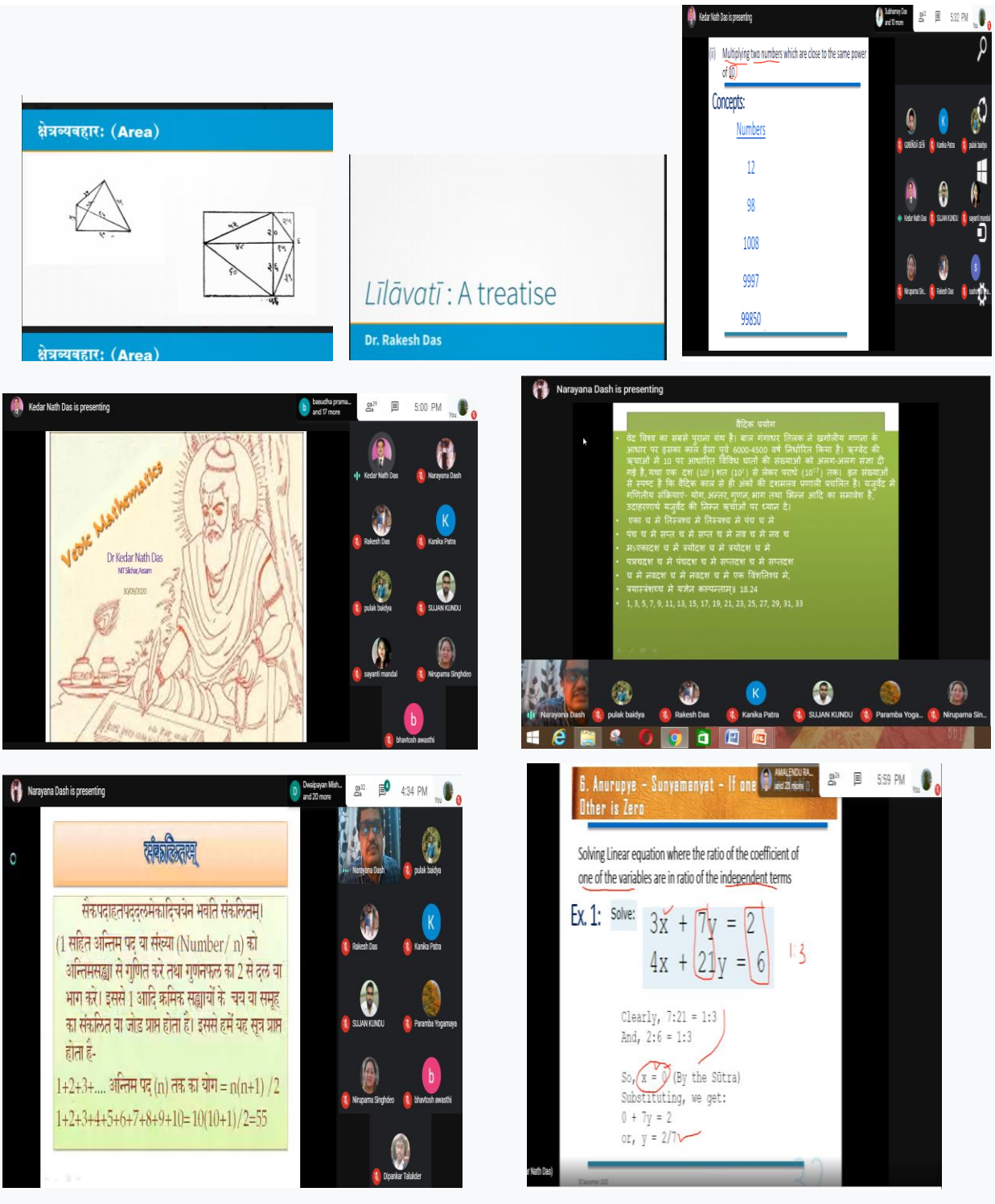
The next session was delivered by Dr. Narayan Das, Asst. Professor in Sanskrit in Department of Sanskrit,Rama Krishna Mission Residential College (Autonomous) ,Kolkata, W.B.

His topic of presentation was "प्राचीन भारत में गणित तत्वों का विचार ". From the earliest Vedic codes of the world, mathematics and religion should be treated separately as separate text (Yotash) has used 'Ndash' for the Lord and this advice.The word is that one should go to him to achieve the best. (Nayana Nadasham). The name 'Ganat' in the form of Sha in VedaIt is not mentioned but it is said that the account of the law of water-The help of 'calculator' should be taken to keep the jokha.The latest addition to 'Ganat' as Sha, Vedang by Lagadha Rishta Considered in a folk called Yotash.

Last session was delivered by Dr. Kedar Nath das Assistant Professor in the Department of Mathematics, NIT Silchar, Assam. His topic of presentation was Vedic Mathematics.he explains about mathematical techniques, which were retrieved from the Vedas and supposedly contained all mathematical knowledge.

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- **GLIPMSES OF CONDUCTION:**



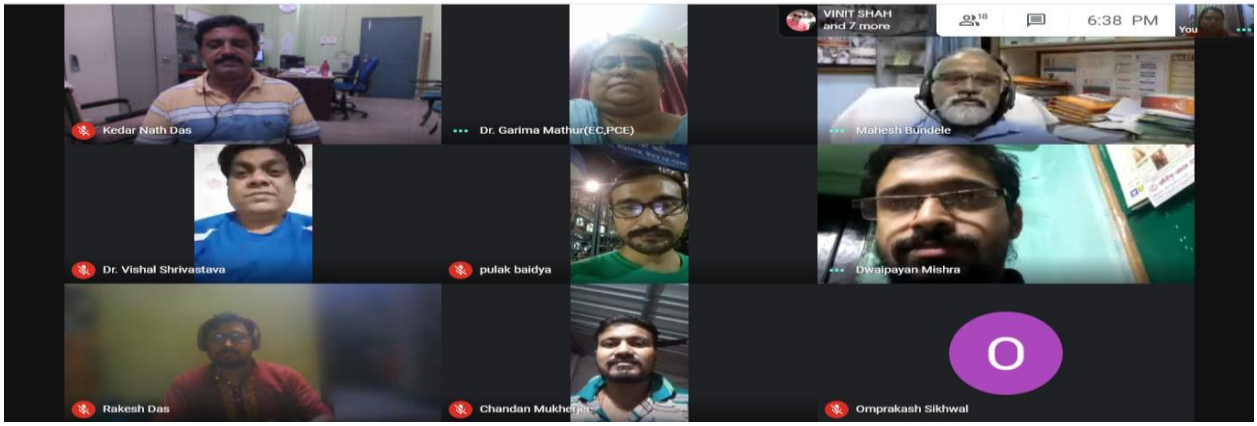
- **VALEDICTORY SESSIONS:**

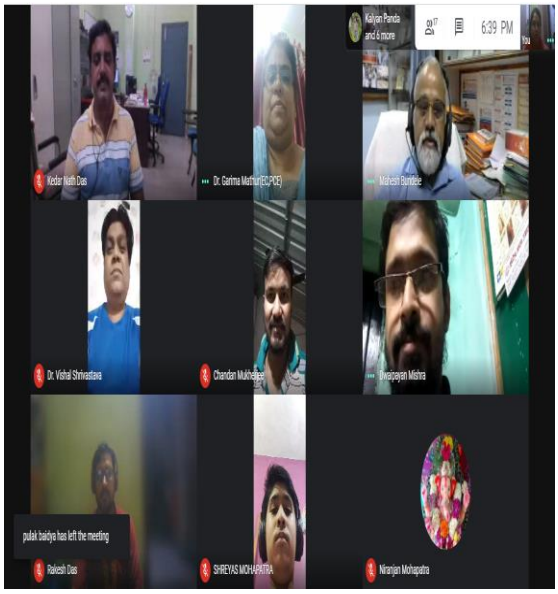
At the end valedictory session was organized. Dr. Kedar Nath Das, Assistant Professor in the Department of Mathematics, NIT Silchar, Assam was the guest of honor, Dr. Mahesh M Bundele, Director Poornima college of Engineering, Dr Garima Mathur HOD, Electronics and Comm. Eng deptt also grace the occasion. Participants from different part of country share their experience about FDP. They appreciate the topic of FDP and initiative taken by Poornima College to arrange such a nice FDP. Dr. Mahesh M. Bundele share his views on FDP, also Dr. Kedar Nath das [illegible]

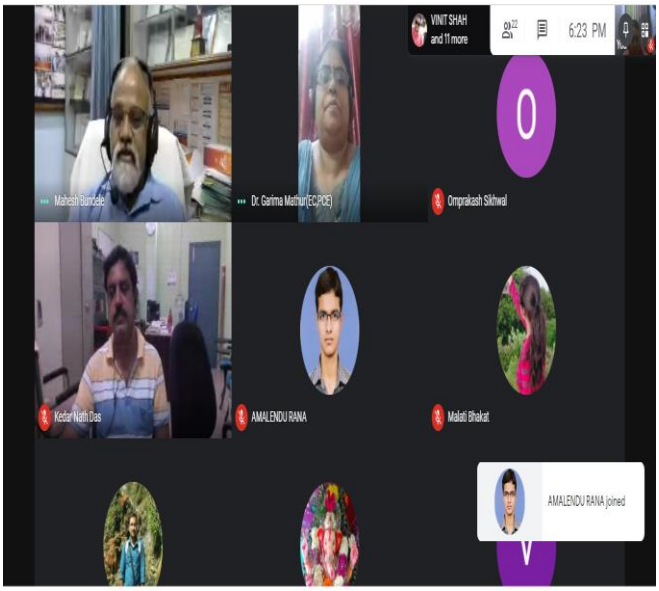
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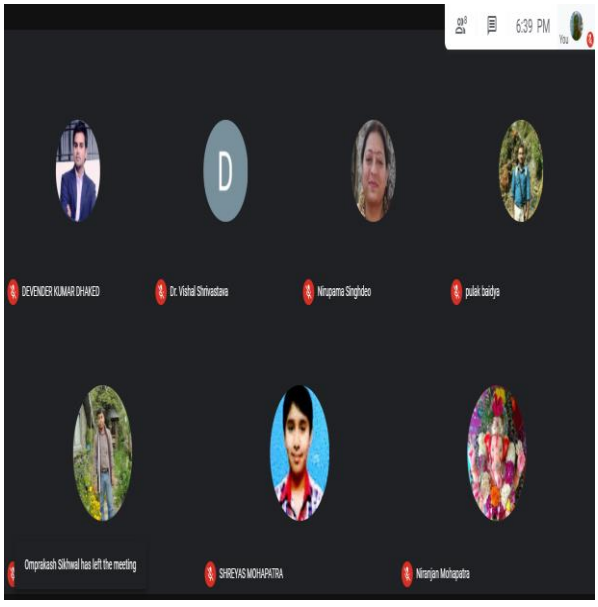
his feelings about the event. Dr. Garima Mathur presented the report of 3 day's FDP program. Dr. Shuchi Dave proposed the vote of thanks to all. A group photograph has done at the end.

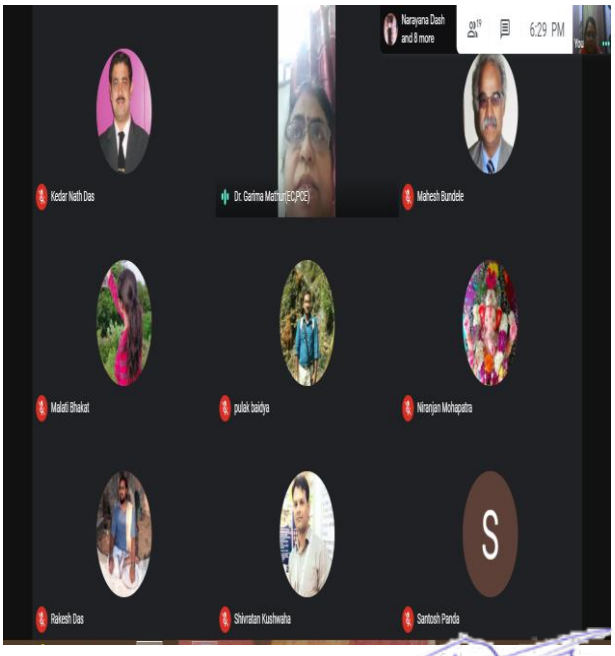
Group Photograph









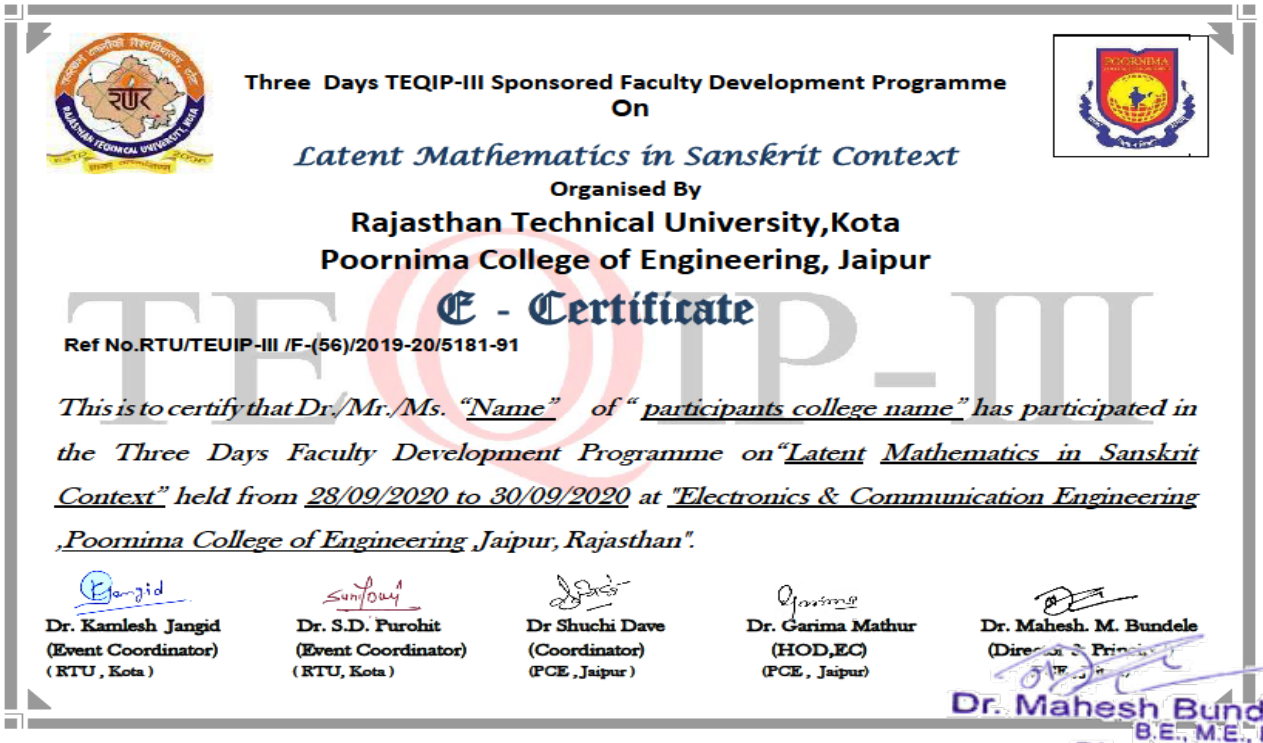


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- **LIST OF PARTICIPANTS:**

List of Participant for Certificate			
Certificate Number	**Name**	**Certificate Number**	**Name**
1	Ms. ADITI AGRAWAL	45	Ms.KANIKA PATRA
2	Mr. AMALENDU RANA	46	Ms.KOYEL DAS
3	Mr.AMIT PAUL	47	Ms. LATA MISRA
4	MR. AMLAN GHOSAL	48	Ms.MALATI BHAKAT
5	Ms.ANANYA SARKAR	49	Ms. MANISHA KUMAWAT
6	Ms.ANU ARORA	50	Ms.MANJU MALIK
7	Mr.APU BARMAN	51	Dr. MEENAKSHI NAWAL
8	Mr.AVIK DHAR	52	Ms. MITALI MANDAL
9	Mr.AYUSH GOYAL	53	MR. DIPANKAR TALUKDER
10	Mr. AYUSH NAGAR	54	MR. MITRAM KANTI BHOWMICK
11	DR. BHAVTOSH AWASTHI	55	MR.NANDAN MANDAL
12	Mr.BHOLANATH MONDAL	56	Ms.NANDANI SHARMA
13	Mr. CHANDAN MUKHERJEE	57	Ms. PAULAMI ROY CHOWDHURY
14	MR.DEVENDER KUMAR DHAKED	58	Dr. PAYAL BANSAL
15	Mr. DIPANKAR DUTTA	59	Mr.PINTU CHOWDHURY
16	DR PARAS RAM SHASTRI	60	Ms.PRATIMA DAS
17	DR. RANDHIR SINGH BAGHEL	61	Mr.PULAK BAIDYA
18	DR A K MALIK	62	Mr.RAKESH RANJAN
19	DR. ANILA DHINGRA	63	Ms.RASHMI MODI
20	DR. ANUJ KUMAR JHANKAL	64	Ms.RITA MONDAL
21	DR. ASHOK KUMAR KAJLA	65	Ms.RUCHI DAVE
22	DR. DHARMENDRA KUMAR SINGHDEO	66	Mr.SADANANDA HALDER
23	DR. GARIMA MATHUR	67	Mr.SAHIL CHARAYA
24	DR. KALYAN PANDA	68	MS SAMPA JADAV
25	DR. KAMLESH JANGID	69	Ms SANGITA MOURI
26	Dr. NIRUPAMA SINGHDEO	70	Ms. SANJUKTA MANDAL
27	DR. OMPRAKASH SIKHWAL	71	Ms. SAYANTI MANDAL
28	DR. PINKI DAS	72	Mr.SHIVRATAN KUSHWAHA
29	DR. PRAPHULL CHHABRA	73	Mr.SHRABANI MONDAL
30	DR. PRITAM ROOJ	74	Mr. SHREYAS MOHAPATRA
31	DR. S.D .PUROHIT	75	DR. SHYAMAL GOSWAMI
32	DR. SHUCHI DAVE	76	Mr.SOMNATH PRADHAN
33	DR. SUDHAMOY HALDER	77	Ms.SRIMAYEE RATH
34	DR. TARAK JANA	78	Mr.SUBHAMOY DAS
35	DR. VISHAL SHRIVASTAVA	79	Mr.SUDIP SAHOO
36	DR. VISHNU NARAYAN MISHRA	80	Ms.SUDIPA HALDER
37	DR.ABINASH GAYEN	81	Mr.SUJAN KUNDU
38	DR. HARISHANKAR NJOIS	82	Mr. SUSHOVAN CHATTERJEE
39	Mr. DWAIPAYAN MISHRA	83	Mr.SWADHIN RUIDAS
40	Mr. GAURAV MISHRA	84	Mr.TARUN MISHRA
41	Mr.JAGDISH PRASAD MAHESHWARI	85	Mr.TITAN CHANDRA SARKAR
42	Mr. JOYDEB DINDA	86	Ms.TRISHNA MANDAL
43	Mr.JYOTI NATH	87	Mr.VIBHAKAR PATHAK
44	Mr.JYOTIRMOY DAS	88	Mr.VINIT SHAH
		89	Mr.Gobinda Sen
		90	Mr.Agrahdeep

- **Certificate of FDP**



Three Days TEQIP-III Sponsored Faculty Development Programme
On

Latent Mathematics in Sanskrit Context

Organised By

Rajasthan Technical University,Kota

Poornima College of Engineering, Jaipur

E - Certificate

Ref No.RTU/TEUIP-III /F-(56)/2019-20/5181-91

This is to certify that Dr./Mr./Ms. "Name" of " participants college name" has participated in the Three Days Faculty Development Programme on"Latent Mathematics in Sanskrit Context" held from 28/09/2020 to 30/09/2020 at "Electronics & Communication Engineering ,Poornima College of Engineering Jaipur, Rajasthan".

Dr. Kamlesh Jangid	Dr. S.D. Purohit	Dr Shuchi Dave	Dr. Garima Mathur	Dr. Mahesh. M. Bundele
(Event Coordinator)	(Event Coordinator)	(Coordinator)	(HOD,EC)	(Director & Principal)
(RTU , Kota)	(RTU, Kota)	(PCE , Jaipur)	(PCE , Jaipur)	

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- **FEEDBACK ANALYSIS:**

Feedback Form-FDP on "Latent Mathematics in Sanskrit Context"(September 28-30, 2020)

Email address *

Name (Capital Letters)(As required in Certificate) *

Designation *

Name of Institute with place *

How satisfied were you with the event? *

1	2	3	4	5
◉	○	○	○	○

Which sessions did you find most relevant? *

	Not relevant	Relevant	Very relevant	Did not attend
An Introduction to Ancient Indian Mathematicians	○	○	○	○
कात्यायनशुल्बसूत्रोंमेंभारतीयगणितकीपरिचर्चा	○	○	○	○
प्राचीनगणितमेंश्रीधराचार्यकायोगदान-पाटीगणितसारःकीदृष्टिसे	○	○	○	○
Glimpses of Mathematics in Ancient Indian	○	○	○	○
प्राचीनभारतीयगणितशास्त्र : भास्कराचार्यद्वितीयकीदृष्टिसे	○	○	○	○
Contributions of Aryabhata to Astronomy and Mathematics	○	○	○	◉
Lilavati : treatise on Mathematics	○	○	○	◉
प्राचीन भारत में गणित तत्वों का विचार	○	○	○	○

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Vedic Mathematics				

Any overall feedback for the event? *

	Not relevant	Relevant	Very relevant	Did not attend
An Introduction to Ancient Indian Mathematicians	4	39	74	4
कात्यायनशुल्बसूत्रोंमेंभारतीयगणितकीपरिचर्चा	4	43	69	5
प्राचीनगणितमेंश्रीधराचार्यकायोगदान-पाटीगणितसारःकीदृष्टिसे	4	38	75	4
Glimpses of Mathematics in Ancient Indian	5	39	72	5
प्राचीनभारतीयगणितशास्त्र : भास्कराचार्यद्वितीयकीदृष्टिसे	2	39	76	4
Contributions of Aryabhata to Astronomy and Mathematics	2	40	72	7
Lilavati : treatise on Mathematics	4	37	74	6
प्राचीन भiरत में गणित तत्वों का विचiर	2	35	79	5
Vedic Mathematics	2	37	77	5

Any overall feedback for the event?121 responses

Good

Excellent

GOOD

Excellent

good

It was very useful to me

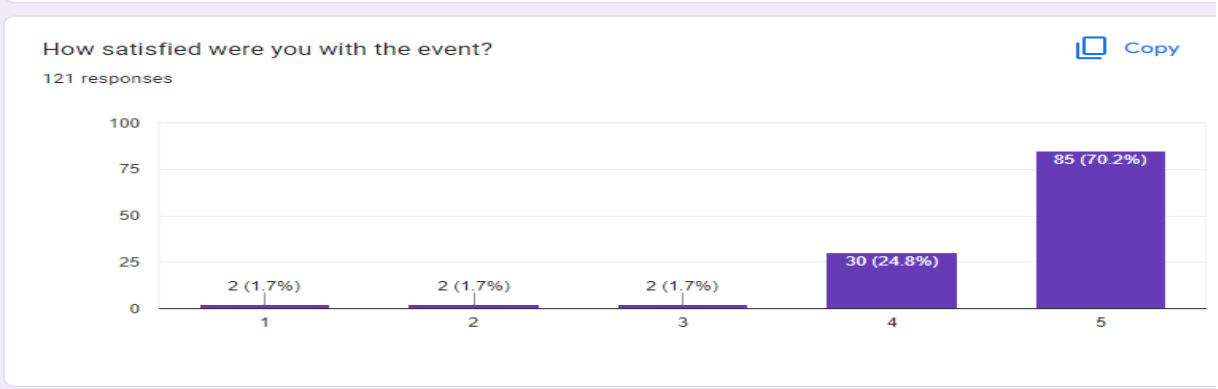
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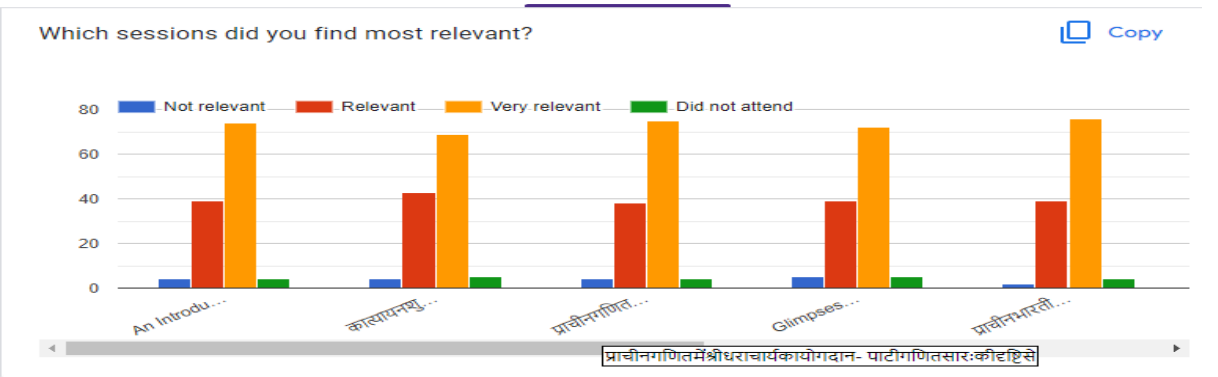
Very good

Very good webinar

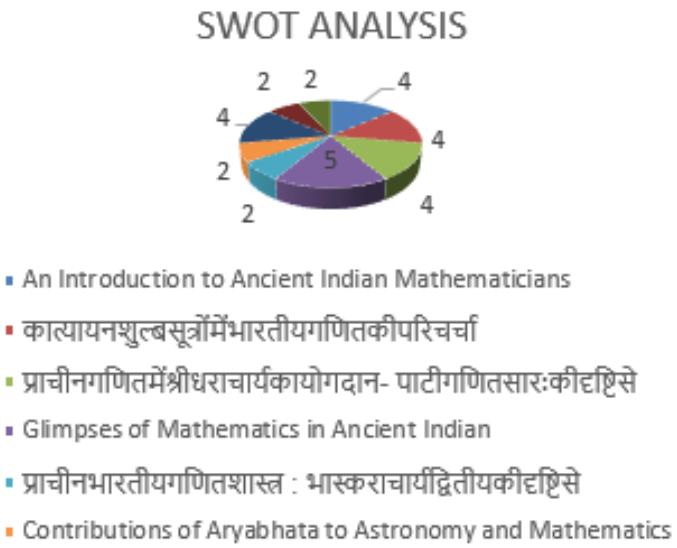
Very nice and informative.

Such a nice Webinar





- **SWOT ANALYSIS**



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POORNIMA
COLLEGE OF ENGINEERING

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

A Report on 5-days Faculty Development Program

- **TITLE AND DURATION:** "Cyber Security & Cyber Forensics" from 21.09.2020 to 25.09.2020.
- **SPONSORS:** TEQIP-III RTU (ATU) SPONSORED.
- **SUPPORTERS:** Rajasthan Technical University Kota
- **ORGANIZERS:** Department of Computer Engineering, Poornima College of Engineering, Jaipur.
- **OBJECTIVES:**

  Cybersecurity refers to a set of techniques used to protect the integrity of networks, programs and data from attack, damage or unauthorized access. From a computing point of view, security comprises cybersecurity and physical security both are used by enterprises to protect against unauthorized access to data centers and other computerized systems. Information security, which is designed to maintain the confidentiality, integrity, and availability of data, is a subset of cybersecurity. The use of cyber security can help prevent cyber-attacks, data breaches, and identity theft and can aid in risk management**.**

  The rise and growth of cyberspace have led to a chain of events that has shaped the world we live in. We have seen the rise of IT industries, which created millions of jobs all over the world either directly or indirectly. The start of e-commerce has revolutionized the shopping and retail industry. E-governance was adopted by nations all around the globe as it provided a better platform for administration and promoted transparent and efficient working practices**.**

- **EXPECTED OUTCOMES:**

  The main focus will be on forensic investigation of Network and Web Server and Web Applications, Databases since they are the main source of getting evidence and using various tools and tricks, we gather evidence and analyze it.

  It is a comprehensive program focusing on the latest ways for data acquisition techniques and data retrieval techniques in a forensically sound manner so that the evidence can be presented in court.

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Sitapura, JAIPUR

♦ BROCHURE / POSTER / LEAFLET / FLYER:



FDP COMMITTEE

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Hon'ble Vice Chancellor,

Rajasthan Technical University, Kota

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RTU (ATU) TEQIP-III COMMITTEE

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Prof. D. K. Sambariya (Nodal Officer Proc.)

Dr. S. D. Purohit (Nodal Officer Finance)

RTU EVENT COORDINATOR

Dr. B. D. Gidwani,

Dept. of Mech. Engg.,

HOST INSTITUTE PRINCIPAL

Dr. Mahesh M. Bundele

Poornima College of Engineering, Jaipur

HOST INSTITUTE COORDINATOR

Dr. Sanjay Bhargava,

Professor, Dept. of Comp. Engg.,

RESOURCE PERSONS

The resource persons for the FDP will be Eminent Professors and Experts in the area of Cyber Security and Cyber Forensics from IITs, NITs and Industries.

ELIGIBILITY

This course is open to all the Faculty Members of AICTE Approved Institutions, Research Scholars, and Persons working in R&D organizations or Industry. Number of participants for FDP is limited. All the sessions will be conducted online only.

REGISTRATION & FEE PARTICULARS

- There is no registration fee for faculty from AICTE approved institutions, Participants from industry and research scholar.
- Registration for the program may be done by filling the registration form online via: https://tinyurl.com/yyblheks

IMPORTANT DATES

Last date of recipient of application: **September 16, 2020**

Intimation of selection by mail: **September 18, 2020**

FDP duration: **September 21-25, 2020**

CORRESPONDENCE

Dr. B. D. Gidwani

Dept. of Mech. Engg.,

Rajasthan Technical University, Kota

Contact: 9460119790

Dr. Sanjay Bhargava

Department of Comp. Engg.,

Poornima College of Engineering, Jaipur

Mail to: sanjay.bhargava@poornima.org

Contact: 9079752366, 9521618370

TEQIP-III SPONSORED ONE WEEK

Faculty Development Program

On

"Cyber Security & Cyber Forensics"

September 21 – 25, 2020

COORDINATORS

Dr. B. D. Gidwani, RTU, Kota — Dr. Sanjay Bhargava, PCE, Jaipur

Organized by

Rajasthan Technical University, Kota

&

Poornima College of Engineering, Jaipur

Venue:

Department of Computer Engineering,
Poornima College of Engineering,
ISI-6, RIICO Institutional Area, Sitapura, Jaipur.
www.pce.poornima.org



FDP COMMITTEE

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Poornima College of Engineering, Jaipur

Venue:

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Sitapura, JAIPUR

♦ PROGRAM SCHEDULE:



Rajasthan Technical University, Kota & Poornima College of Engineering

RTU (ATU) TEQIP-III Sponsored

One Week Faculty Development Programme on "CYBER SECURITY & CYBER FORENSICS"

Schedule

Days \ Time >>	11:00 am –12:00 noon		12:30 pm – 1:30 pm	2:00 pm – 3:00 pm
21.09.2020	10:30 am – 11:00 am	11:00 am – 12:00noon	Introduction to Cryptography	Introduction to Information Security
	Inauguration	Importance of Cyber Security Dr. Ramesh Babu Assistant Professor, MNIT Jaipur	Dr. Somitra Kr. Sanadhya Asso. Prof. and Head (CSE), IIT Ropar	Dr. Meenakshi Tripathi Associate Professor, MNIT, Jaipur
22.09.2020	Web Forensic Dr. Deepak Tomar Associate Professor, MANIT Bhopal		Introduction to Firewalls Dr. Renu Dhir Associate Professor & Head IT, Department of CSE, NIT Jalandhar	The Role of Block chain in cyber security Dr. Suresh Babu Assistant Professor, NIT Warangal
23.09.2020	Social Network Security Dr. Jaidhar C D Associate Professor, NIT, Suratkal		Mobile Security Mr. Mohit Relan Director, Relan group of industries, Ajmer	Ethical Hacking Dr Rajveer Singh Shekhawat *Former Scientist – CEERI Pilani & Director – School of Computing & IT, Manipal University*
24.09.2020	Time memory trade off attack on symmetric ciphers Dr. Sugata Gangopadhyay Professor, Department of CSE, IIT Roorkee		Cloud Security Dr. Pilli Emmanuel Shubhakar Asso. Prof., MNIT Jaipur	Blockchain Technology Dr. Ramesh Babu Assistant Professor, MNIT Jaipur
25.09.2020	Introduction to Cyber Laws Mr. Mohit Relan Director, Relan group of industries, Ajmer		Security Measures & IOT X.0 Dr. D. R. Sahu Assistant Professor, SATI, Vidisha	Recent Trends & Research Directions Dr. Ramesh Babu Assistant Professor, MNIT Jaipur

Dr. B. D. Gidwani
(FDP Coordinator, RTU, Kota)

Dr. Sanjay Bhargava
(FDP Coordinator,
Poornima College of Engineering, Jaipur)

Dr. Mahesh Bundele
(Principal & Director,
Poornima College of Engineering, Jaipur)

Google Meet link: https://meet.google.com/cwd-setb-cby

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RTU (ATU) TEQIP-III Sponsored

One Week Faculty Development Programme

on

CYBER SECURITY & CYBER FORENSICS

September 21-25, 2020

Rajasthan Technical University, Kota &
Department of Computer Engineering,
Poornima College of Engineering

Cordially invite you to Inaugural Session

Prof. R. A. Gupta
Chief Guest
Hon'ble Vice Chancellor
RTU, Kota

Prof. Dhirendra Mathur
Guest of Honour
TEQIP Coordinator
RTU, Kota

Dr Rajveer Singh Shekhawat
Guest of Honour
Former Scientist – Ceeri Pilani &
Director – School of Computing & IT, Manipal University

Resource Persons

Ar. Rahul Singhi
Director, Poornima Group

Dr. Mahesh M. Bundele
Director & Principal, PCE, Jaipur

Er. Pankaj Dhemla
Vice Principal, PCE, Jaipur

Dr. Surendra Kumar Yadav
HOD (CSE), PCE, Jaipur

Dr. Sugata Gangopadhyay
Professor, Department of CSE, IIT Roorkee

Dr. Somitra Kr. Sanadhya
Asso. Prof. and Head, Dept. of CSE, IIT Ropar

Dr. Pilli Emmanuel Shubhakar
Asso. Prof., MNIT Jaipur

Dr. Renu Dhir
Associate Professor & Head IT, CSE, NIT Jalandhar

Dr. Deepak Tomar
Associate Professor, MANIT Bhopal

Dr. Jaidhar C D
Associate Professor, NIT, Surathkal

Dr. Meenakshi Tripathi
Associate Professor, MNIT Jaipur

Dr. Ramesh Babu
Assistant Professor, NIT Warangal

Dr. Ramesh Babu
Assistant Professor, MNIT Jaipur

Dr. R. K. Saha
Assistant Professor, SATI, Vidisha

Mr. Mohit Relan
Director, Relan group of industries, Ajmer

Day & Date: Monday, September 21, 2020 *Time: 10:30 onwards*

Join the inaugural Session on Google meet @ https://meet.google.com/cwd-seth-cby

COORDINATORS

Dr. B. D. Gidwani
(RTU (ATU) TEQIP-III COORDINATOR)

Dr. Sanjay Bhargava
(HOD & INSTITUTE COORDINATOR)

Rajasthan Technical University, Kota
&
Poornima College Of Engineering

RTU (ATU) TEQIP-III Sponsored Online FDP
on
CYBER SECURITY & CYBER FORENSICS

Inaugural Ceremony (September 21, 2020)

Q-SHEET

Time: 10:30 AM to 11:05 AM

S. No.	Day –1: Inaugural Program	Timings
1.	**Welcome to Guests, Speakers & all participants.** **Chief Guest: Prof. R. A. Gupta, Vice -Chancellor, RTU, Kota** **Guest of Honour: Dr Rajveer Singh Shekhawat,** *Former Scientist – CEERI Pilani & Director – School of Computing & IT, Manipal University* **Guest of Honour: Prof. Dhirendra Mathur,** *TEQIP-III Coordinator, RTU, Kota* **Dr. B. D. Gidwani,** *FDP- Event Coordinator, RTU, Kota* **Ar. Rahul Singhi,** *Co-Founder, Poornima University & Director, Poornima Group* **Dr. Mahesh Bundele,** *Director & Principal, Poornima College of Engineering, Jaipur* **Er. Pankaj Dhemla,** *Vice Principal, Poornima College of Engineering, Jaipur*	10:30 AM
2.	Introduction to the FDP, by **Dr. B. D. Gidwani**, FDP, Event Coordinator, RTU, Kota.	10:32 AM
3.	Welcome address by **Dr. Mahesh Bundele**, Director & Principal, PCE, Jaipur.	10:35 AM
4.	Address by **Prof. Dhirendra Mathur** TEQIP-III Coordinator, RTU, Kota.	10:40 AM
5.	Address by **Ar. Rahul Singhi**, Co-Founder, Poornima University & Director, Poornima Group.	10:45 AM
6.	Address by **Dr Rajveer Singh Shekhawat,** *Former Scientist – CEERI Pilani & Director – School of Computing & IT, Manipal University*	10:50 AM
7.	Words of Wisdom by **Prof. R. A. Gupta**, Vice Chancellor, RTU, Kota.	10:55 AM
8.	Vote of Thanks by **Dr Surendra Kumar Yadav**, Professor & Head, Department of Computer Engineering, PCE, Jaipur.	11:00 AM

Dr. B. D. Gidwani (FDP Coordinator, RTU, Kota) | **Dr. Sanjay Bhargava** (FDP Coordinator, Poornima College of Engineering, Jaipur) | **Dr. Mahesh Bundele** (Principal & Director, Poornima College of Engineering, Jaipur)

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Day 01 (September 21, 2020)

Q-SHEET

Time: 11:00 AM to 3:00 PM

Session No.	Day – 1	Timings
1.	About the Speaker by Dr. Sanjay Bhargava	11:00 am
	Technical Session on *Importance of Cyber Security* by Dr. Ramesh Babu, Assistant Professor, Dept. of CSE, MNIT Jaipur	11:05 am
	Vote of Thanks by Dr. Sanjay Bhargava	12:00 noon
2.	About the Speaker by Dr. Sanjay Bhargava	12:30 pm
	Technical Session on *Introduction to Cryptography* by Dr. Somitra Kr. Sanadhya, Associate Professor and Head, Dept. of CSE, IIT Ropar	12:35 pm
	Vote of Thanks by Dr. Sanjay Bhargava	1:30 pm
3.	About the Speaker by Dr. Sanjay Bhargava	2:00 pm
	Technical Session on *Introduction to Information Security* by Dr. Meenakshi Tripathi, Associate Professor, Dept. of CSE, MNIT, Jaipur	2:05 pm
	Vote of Thanks by Dr. Sanjay Bhargava	3:00 pm

Dr. B. D. Gidwani (FDP Coordinator, RTU, Kota) | **Dr. Sanjay Bhargava** (FDP Coordinator, Poornima College of Engineering, Jaipur) | **Dr. Mahesh Bundele** (Principal & Director, Poornima College of Engineering, Jaipur)

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Day 02 (September 22, 2020)

Q-SHEET

Time: 11:00 AM to 3:30 PM

Session No.	Day – 2	Timings
4.	About the Speaker by Dr. Sanjay Bhargava	11:00 am
	Technical Session on *Web Forensic* by Dr. Deepak Tomar, Associate Professor, Dept. of CSE, MANIT Bhopal	11:05 am
	Vote of Thanks by Dr. Sanjay Bhargava	12:00 pm
5.	About the Speaker by Dr. Sanjay Bhargava	12:30 pm
	Technical Session on *Introduction to Firewalls* by Dr. Renu Dhir, Associate Professor & Head IT, Department of CSE, NIT Jalandhar	12:35 pm
	Vote of Thanks by Dr. Sanjay Bhargava	1:30 pm
6.	About the Speaker by Dr. Sanjay Bhargava	2:30 pm
	Technical Session on *The Role of Block chain in cyber security* by Dr. Suresh Babu, Assistant Professor, Department of CSE, NIT Warangal	2:35 pm
	Vote of Thanks by Dr. Sanjay Bhargava	3:30 pm

Dr. B. D. Gidwani (FDP Coordinator, RTU, Kota) | **Dr. Sanjay Bhargava** (FDP Coordinator, Poornima College of Engineering, Jaipur) | **Dr. Mahesh Bundele** (Principal & Director, Poornima College of Engineering, Jaipur)

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Day 03 (September 23, 2020)

Q-SHEET

Time: 11:00 AM to 3:00 PM

Session No.	Day – 3	Timings
7.	*About the Speaker by Dr. Sanjay Bhargava*	11:00 am
	Technical Session on *Social Network Security* by Dr. Jaidhar C D, Associate Professor in department of Information Technology, NIT, Surathkal	11:05 am
	Vote of Thanks by Dr. Sanjay Bhargava	12:00 noon
8.	*About the Speaker by Dr. Sanjay Bhargava*	12:30 pm
	Technical Session on *Mobile Security* by Mr. Mohit Relan, Director, Relan group of industries, Ajmer	12:35 pm
	Vote of Thanks by Dr. Sanjay Bhargava	1:30 pm
9.	*About the Speaker by Dr. Sanjay Bhargava*	2:00 pm
	Technical Session on *Ethical Hacking* by Dr Rajveer Singh Shekhawat, *Former Scientist – CEERI Pilani & Director – School of Computing & IT, Manipal University, Jaipur*	2:05 pm
	Vote of Thanks by Dr. Sanjay Bhargava	3:00 pm

Dr. B. D. Gidwani (FDP Coordinator, RTU, Kota) | **Dr. Sanjay Bhargava** (FDP Coordinator, Poornima College of Engineering, Jaipur) | **Dr. Mahesh Bundele** (Principal & Director, Poornima College of Engineering, Jaipur)

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Day 04 (September 24, 2020)

Q-SHEET

Time: 11:00 AM to 3:30 PM

Session No.	Day – 4	Timings
10.	*About the Speaker by Dr. Sanjay Bhargava*	11:00 am
	Technical Session on *Time memory trade off attack on symmetric ciphers* by Dr. Sugata Gangopadhyay, Professor, Department of CSE, IIT Roorkee	11:05 am
	Vote of Thanks by Dr. Sanjay Bhargava	12:00 noon
11.	*About the Speaker by Dr. Sanjay Bhargava*	1:00 pm
	Technical Session on *Cloud Security* by Dr. Pilli Emmanuel Shubhakar, Asso. Prof. & Head (CSE), MNIT Jaipur	1:05 pm
	Vote of Thanks by Dr. Sanjay Bhargava	2:00 pm
12.	*About the Speaker by Dr. Sanjay Bhargava*	2:30 pm
	Technical Session on *Block chain Technology* by Dr. Ramesh Babu, Assistant Professor (CSE), MNIT Jaipur	2:35 pm
	Vote of Thanks by Dr. Sanjay Bhargava	3:30 pm

Dr. B. D. Gidwani (FDP Coordinator, RTU, Kota) | **Dr. Sanjay Bhargava** (FDP Coordinator, Poornima College of Engineering, Jaipur) | **Dr. Mahesh Bundele** (Principal & Director, Poornima College of Engineering, Jaipur)

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Day 05 (September 25, 2020)

Q-SHEET

Time: 11:00 AM to 3:15 PM

Session No.	Day – 5	Timings
13.	*About the Speaker by Dr. Sanjay Bhargava*	11:00 am
	Technical Session on *Introduction to Cyber Laws* by Mr. Mohit Relan, Director, Relan group of industries, Ajmer	11:05 am
	Vote of Thanks by Dr. Sanjay Bhargava	12:00 noon
14.	*About the Speaker by Dr. Sanjay Bhargava*	12:30 pm
	Technical Session on *Security Measures & IOT 2.0* by Dr. D. R. Sahu, Assistant Professor, SATI, Vidisha	12:35 pm
	Vote of Thanks by Dr. Sanjay Bhargava	1:30 pm
15.	*About the Speaker by Dr. Sanjay Bhargava*	2:15 pm
	Technical Session on *Recent Trends & Research Directions* by Dr. Ramesh Babu, Assistant Professor, MNIT Jaipur	2:20 pm
	Vote of Thanks by Dr. Sanjay Bhargava	3:15 pm
	Valedictory Function	3:15 pm

Dr. B. D. Gidwani (FDP Coordinator, RTU, Kota) | **Dr. Sanjay Bhargava** (FDP Coordinator, Poornima College of Engineering, Jaipur) | **Dr. Mahesh Bundele** (Principal & Director, Poornima College of Engineering, Jaipur)

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Valedictory Function (September 25, 2020)

Q-SHEET

Time: 3:15 PM to 3:55 PM

S. No.	*VALEDICTORY FUNCTION*	Duration	Time
1.	**Welcome to Guests, Speakers & all participants** **Chief Guest: Prof. Sugata Gangopadhyay,** Professor, Department of CSE, IIT Roorkee **Dr. B. D. Gidwani,** *FDP- Event Coordinator, RTU, Kota* **Dr. Mahesh Bundele,** *Director & Principal, Poornima College of Engineering, Jaipur* **Er. Pankaj Dhemla,** *Vice Principal, Poornima College of Engineering, Jaipur*	5 minutes	3:15 PM - 3:20 PM
2.	Report of FDP by **Dr. Sanjay Bhargava**, FDP Coordinator, Poornima College of Engineering, Jaipur	5 minutes	3:20 PM - 3:25 PM
3.	Welcome address by **Dr. Mahesh Bundele**, Director & Principal, PCE, Jaipur	5 minutes	3:25 PM - 3:30 PM
4.	Feedback by the Participants	10 minutes	3:30 PM - 3:40 PM
5.	Introduction to Chief Guest by **Dr. Sanjay Bhargava**, FDP Coordinator, Poornima College of Engineering, Jaipur	2 minutes	3:40 PM - 3:42 PM
6.	Address by **Chief Guest Prof. Sugata Gangopadhyay**, Professor, Department of CSE, IIT Roorkee	8 minutes	3:42 PM - 3:50 PM
7.	Vote of Thanks by **Dr. Sanjay Bhargava, FDP Coordinator, Poornima College of Engineering, Jaipur**	5 minutes	3:50 PM - 3:55 PM

Dr. B. D. Gidwani (FDP Coordinator, RTU, Kota) | **Dr. Sanjay Bhargava** (FDP Coordinator, Poornima College of Engineering, Jaipur) | **Dr. Mahesh Bundele** (Principal & Director, Poornima College of Engineering, Jaipur)

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Dr. Mahesh Bundele
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Director
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Sitapura, JAIPUR

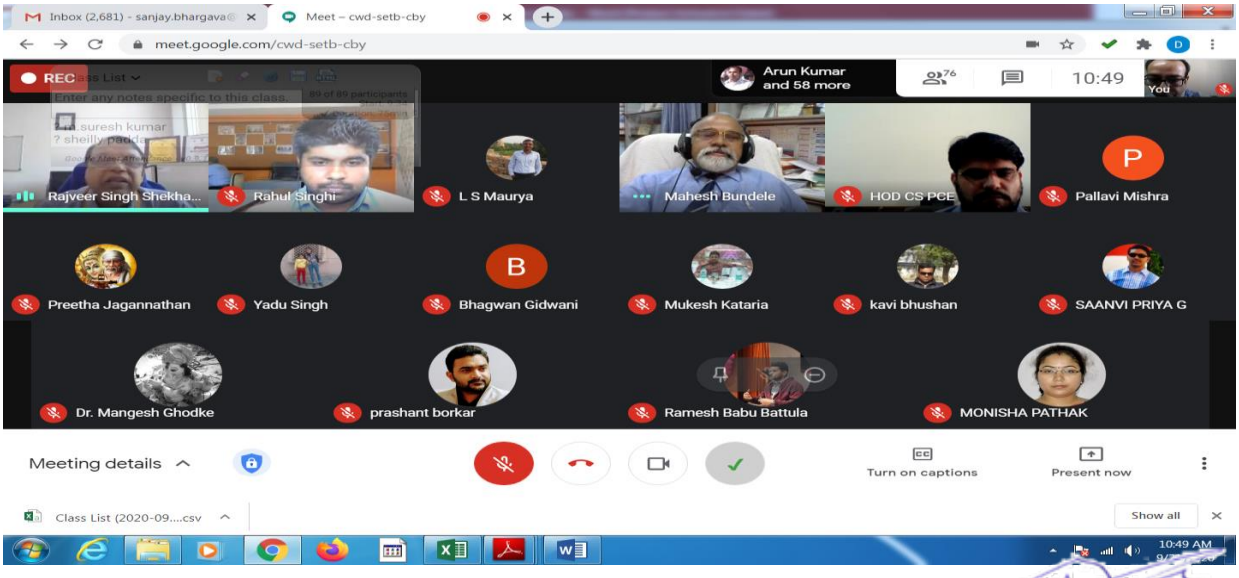
♦ INAUGURAL SESSION:

Days \ Time >>	11:00 am -12:00 noon		12:30 pm – 1:30 pm	2:00 pm – 3:00 pm
21.09.2020	10:30 am – 11:00 am	11:00 am – 12:00noon	Introduction to Cryptography	Introduction to Information Security
		Importance of Cyber Security		
	Inauguration	Dr. Ramesh Babu Assistant Professor, MNIT Jaipur	Dr. Somitra Kr. Sanadhya Asso. Prof. and Head (CSE), IIT Ropar	Dr. Meenakshi Tripathi Associate Professor, MNIT, Jaipur

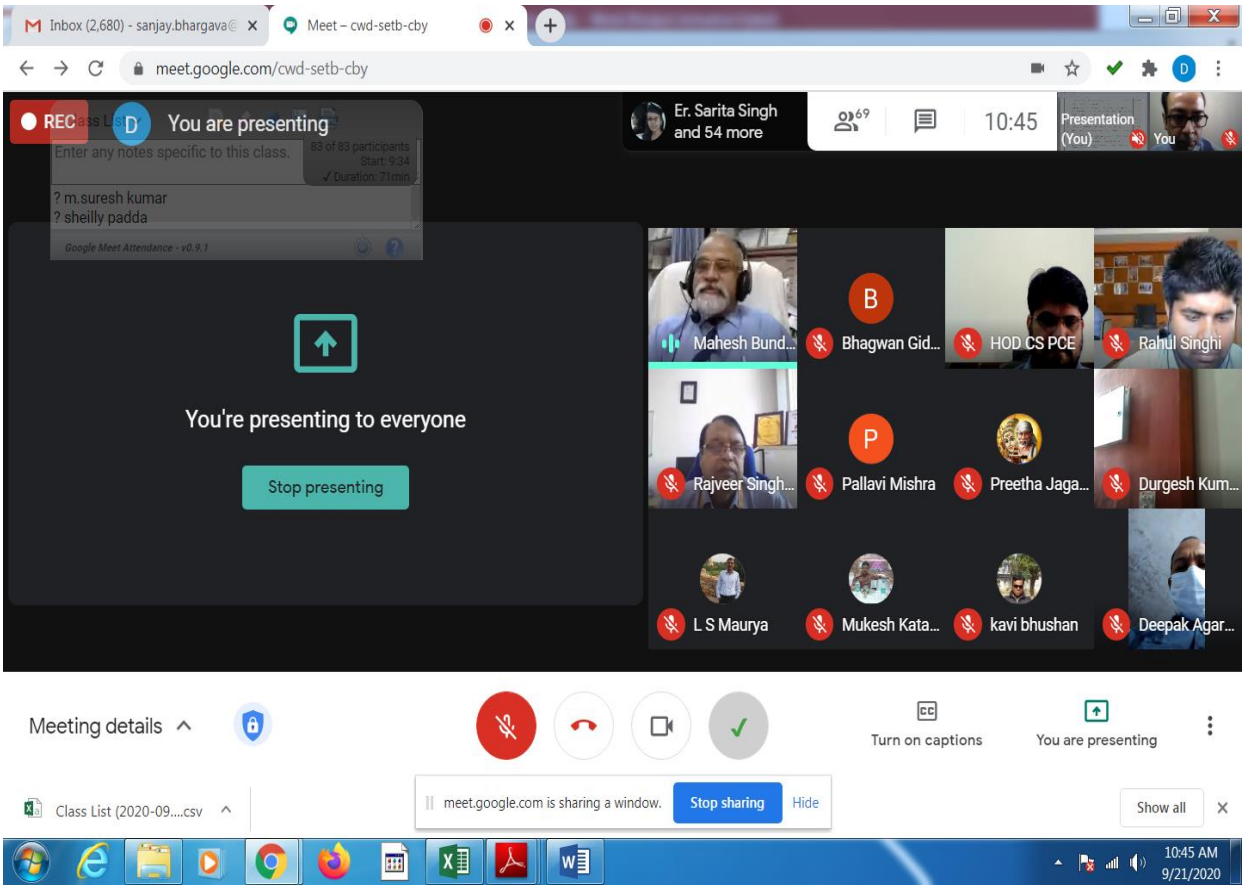
♦ DETAILS OF RESOURCE PERSONS:

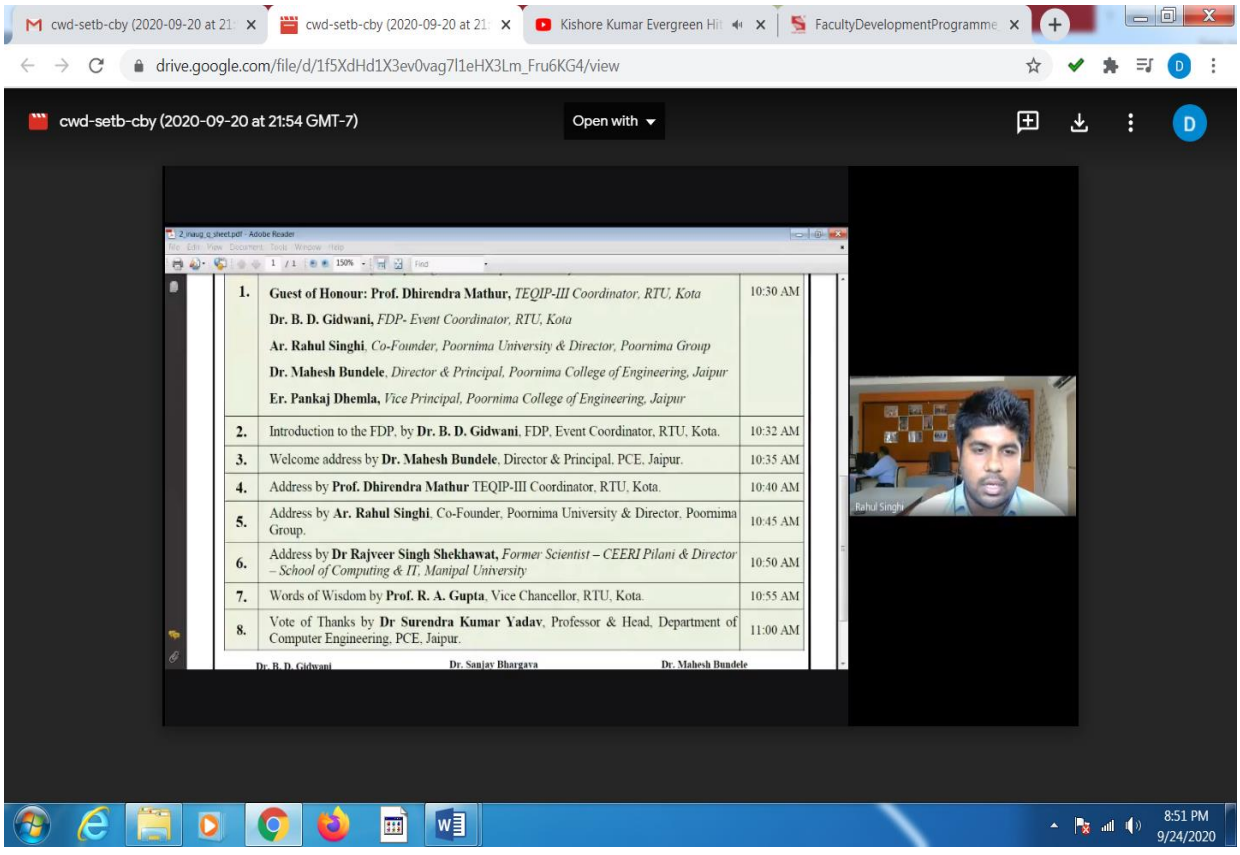
- **Dr Rajveer Singh Shekhawat**, Former Scientist – CEERI Pilani & Director – School of Computing & IT, Manipal University
- **Dr. Sugata Gangopadhyay**, Professor, Department of CSE, IIT Roorkee
- **Dr. Somitra Kr. Sanadhya**, Asso. Prof. and Head (CSE), IIT Ropar
- **Dr. Meenakshi Tripathi**, Associate Professor, MNIT, Jaipur
- **Dr. Renu Dhir**, Associate Professor & Head IT, NIT Jalandhar
- **Dr. Emanual S Pilli**, Asso. Prof., MNIT Jaipur
- **Dr. Deepak Tomar**, Associate Professor, MANIT Bhopal
- **Dr. Jaidhar C D**, Associate Professor, NIT, Suratkal
- **Dr. Ramesh Babu**, Assistant Professor, MNIT Jaipur
- **Dr. D. R. Sahu**, Assistant Professor, SATI, Vidisha
- **Dr. Suresh Babu**, Assistant Professor, NIT Warangal &
- **Mr. Mohit Relan**, Director, Relan group of industries, Ajmer

♦ GLIPMSES OF CONDUCTION:

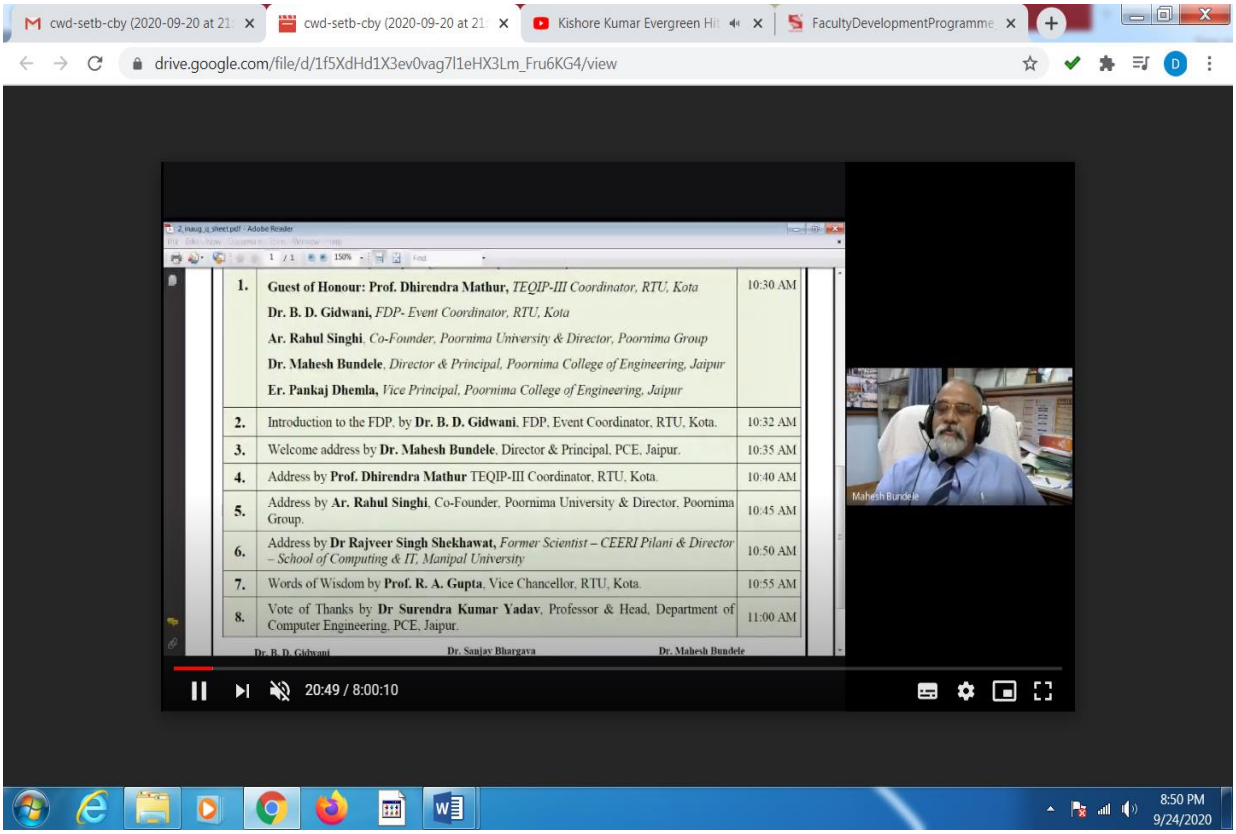


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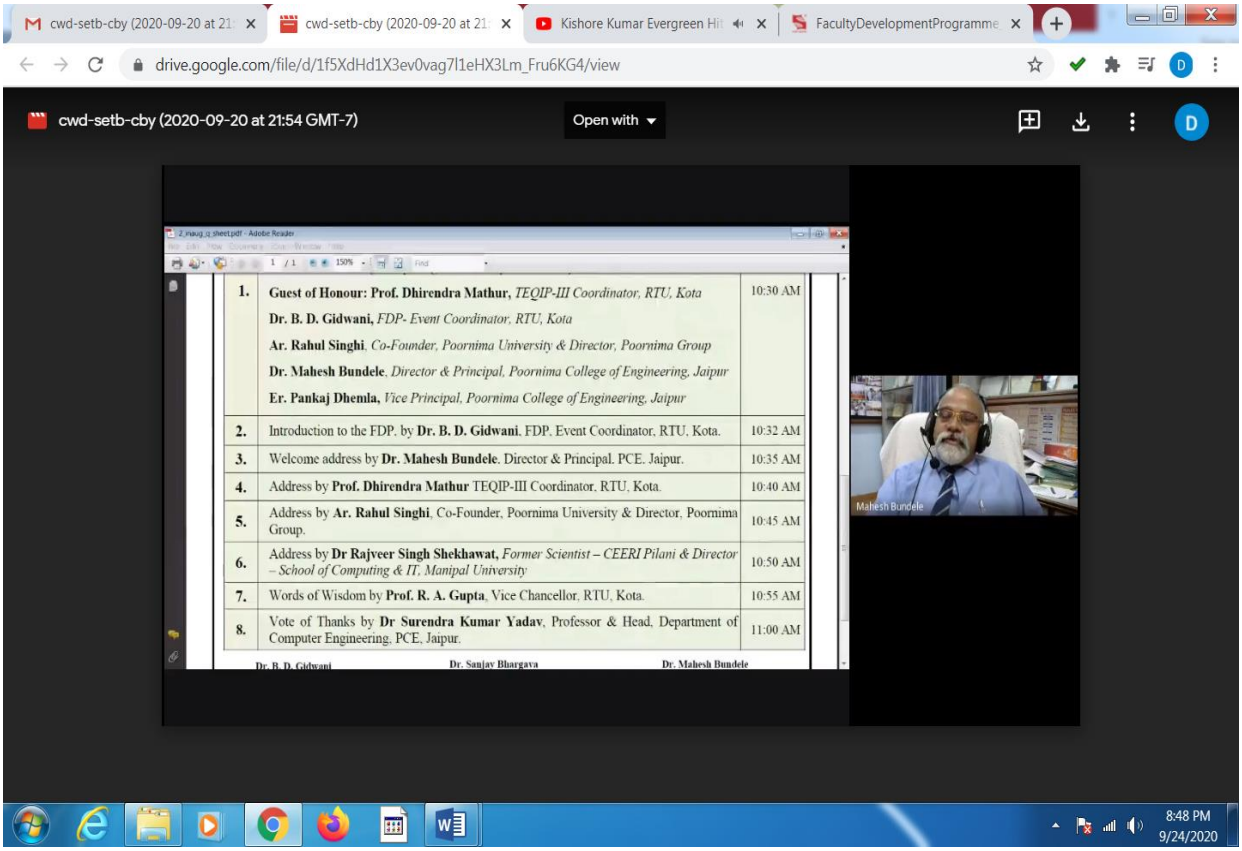




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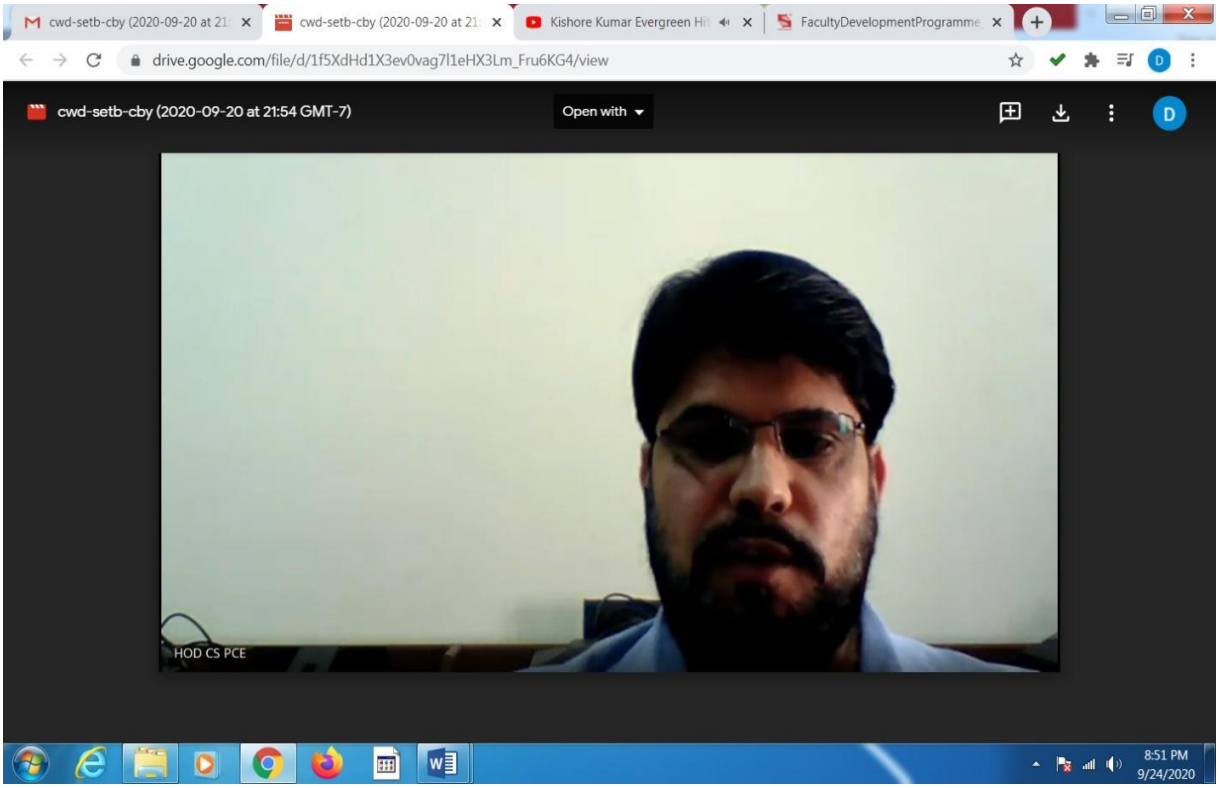


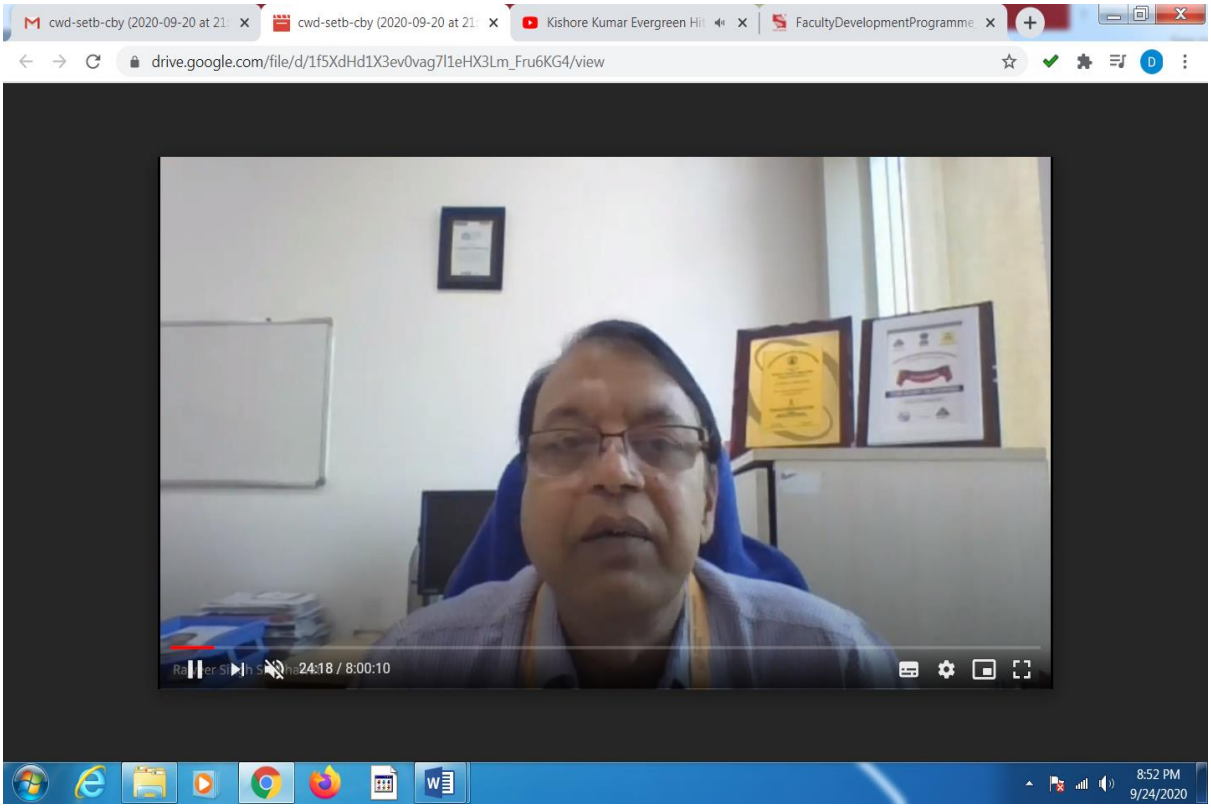
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2.	Introduction to the FDP, by **Dr. B. D. Gidwani**, FDP, Event Coordinator, RTU, Kota.	10:32 AM
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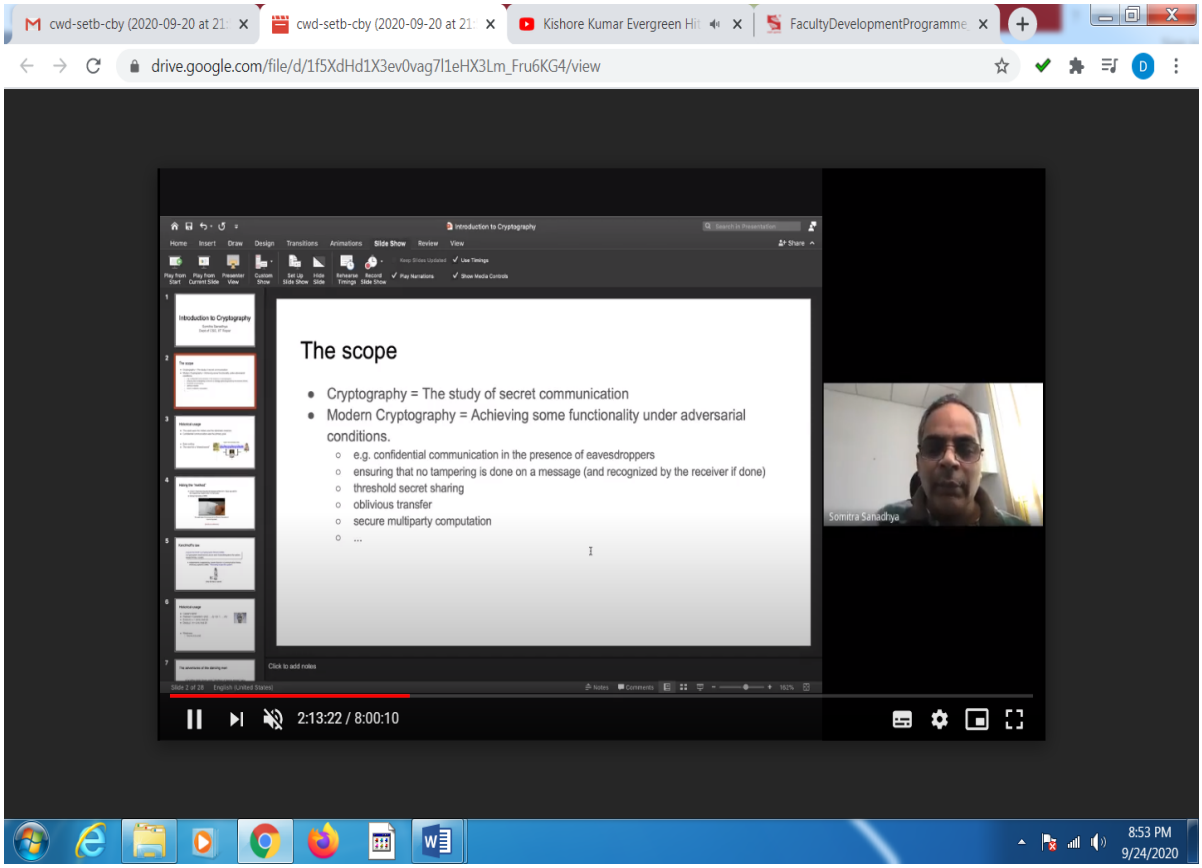
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♦ CONTENT DELIVERY / PRACTICAL SESSIONS:

- Importance of Cyber Security
- Attacks & Firewalls
- Security: Wireless & Wi-Fi
- Social Network Security
- Mobile Security
- Ethical Hacking
- Cyber Forensics
- Cyber Laws
- Recent Trends & Research Directions in Cyber Security

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♦ VALEDICTORY SESSIONS:



Rajasthan Technical University, Kota
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Q-SHEET
Time: 3:15 PM to 3:55 PM

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7.	Vote of Thanks by Dr. Sanjay Bhargava, FDP Coordinator, Poornima College of Engineering, Jaipur	5 minutes	3:50 PM - 3:55 PM

Dr. S. D. Gahlaut (FDP Coordinator, RTU, Kota) | Dr. Sanjay Bhargava (FDP Coordinator, Poornima College of Engineering, Jaipur) | Dr. Mahesh Bundele (Director & Principal, Poornima College of Engineering, Jaipur)

Google Meet link: https://meet.google.com/oxd-ostb-xky

♦ LIST OF PARTICIPANTS:

S N	Certificate id	Participant Name	Participant's Institution	Participant's mail id
1	**RTU/TEQIPIII/PCE/CSE/CSACF/2125001**	Ms.A. G. VIGNESHWARI	P.K.R. ARTS COLLEGE FOR WOMEN , GOBICHETTIPALAYAM.	vignvin@gmail.com
2	**RTU/TEQIPIII/PCE/CSE/CSACF/2125002**	Mr.Abdul karem Ghanem Mohammd Saif	DR.Babasaheb	kareemga105@gmail.com
3	**RTU/TEQIPIII/PCE/CSE/CSACF/2125003**	Mr.ABHISHEK JAIN	Jaipur Engineering College and Research Center, Jaipur	abhishekjain.cse@jecrc.ac.in
4	**RTU/TEQIPIII/PCE/CSE/CSACF/2125004**	Mr.ADITYA DEV MISHRA	DIT UNIVERSITY DEHRADUN	aditya2aug@gmail.com
5	**RTU/TEQIPIII/PCE/CSE/CSACF/2125005**	Ms.AISHWARYA NAMDEO SHELKE	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	aishwaryashelke57@gmail.com
6	**RTU/TEQIPIII/PCE/CSE/CSACF/2125006**	Dr.Ajay Soni	SAGE University, Bhopal	ajays.sub01@gmail.com
7	**RTU/TEQIPIII/PCE/CSE/CSACF/2125007**	Mr.AJIT SINGH	The Technological institute of Textile and sciences Bhiwani	Ajit713@gmail.com
8	**RTU/TEQIPIII**	Ms.ALANKRITA	PANIPAT INSTITUTE OF	

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10	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125010**	Mr.ANIL KUMAR YADAV	Yagyavalkya Institute of Technology, Jaipur	anilkumarout @gmail.com
11	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125011**	Ms.ANJIKHANE MANISHA DNYANESHWAR	Government polytechnic solapur	manjikhane1 @gmail.com
12	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125012**	Mr.ANOY CHOWDHURY	UNIVERSITY OF ENGINEERING AND MANAGEMENT KOLKATA	ao_chowdhury @yahoo.com
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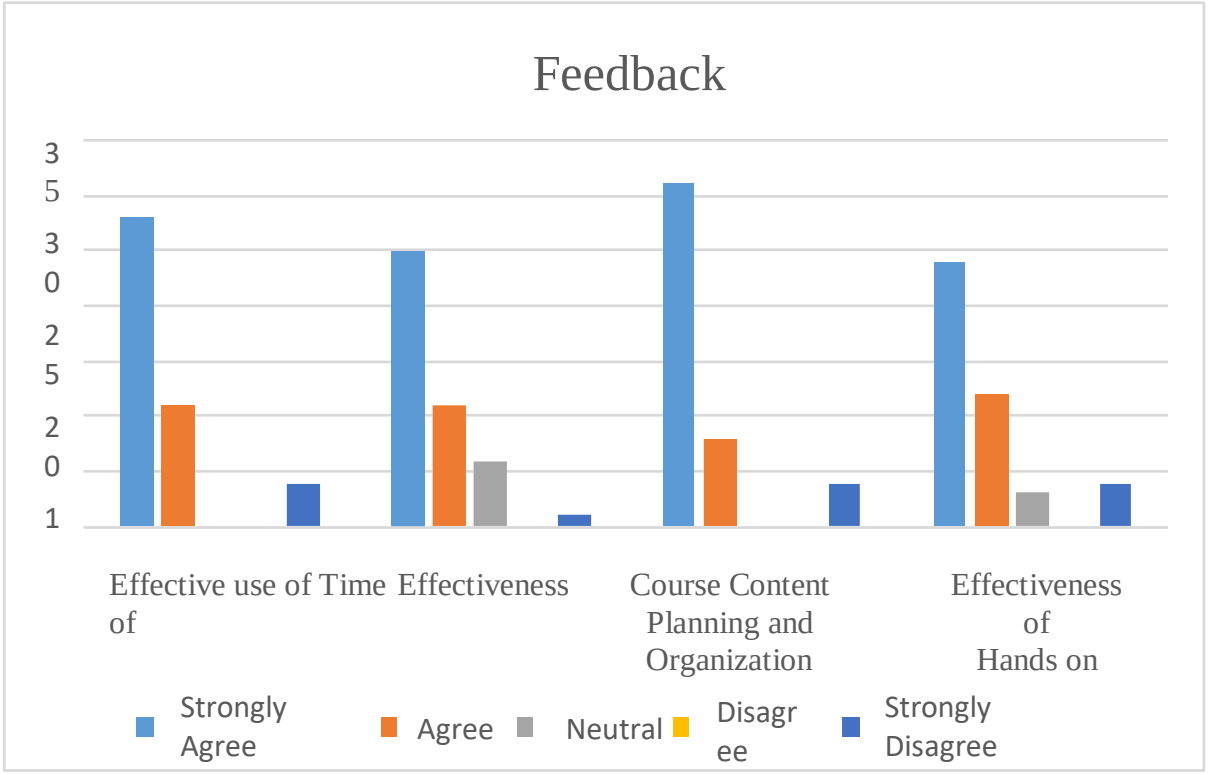
	CF/2125134			
133	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125135**	Dr.Swati Singh	IMS ENGINEERING COLLEGE, GAZIABAD	Misthu.swati @gmail.com
134	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125136**	Mr.TEJINDER DEEP SINGH	GLOBAL GROUP OF INSTITUTES AMRITSAR	tejinderdeepsinghkalsi@gmail.com
135	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125137**	Dr.TEJINDER SINGH	BABA FARID COLLEGE, BATHINDA	tejinder31.singh@gmail.com
136	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125138**	Mr.U. MOHAN SRINIVAS	QIS COLLEGE OF ENGINEERING AND TECHNOLOGY	umohansrinivas@gmail.com
137	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125139**	Mr.UDAY CHANDRA A	Malaviya National Institute of Technology Jaipur	2019rec9546 @mnit.ac.in
138	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125140**	Ms.VAISHALI V DESHMUKH	Sir Visvesvaraya Institute of Technology Nashik	vaishali.deshmukh@pravara.in
139	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125141**	Mr.VIGNESHWAR MANOHARAN	Bharath Corporate, India	vignesh.manohar@gmail.com
140	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125142**	Mr.VINAYACHANDRA	ST PHILOMENA COLLEGE, PUTTUR	veeciashu@gmail.com
141	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125143**	Mr.VINIT SHAH	FREEZCO CORPORATION	vinit11885@gmail.com
142	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125144**	Mr.VINOD HIRAMAN YADAV	Premlila Vithaldas Polytechnic, SNDT Women's University Mumbai	vinod.yadav@pvp.sndt.ac.in
143	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125145**	Mr.Vishal Choudhary	Poornima College of Engineering	vishal.choudhary@poornima.org
144	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125146**	Mr.YADUVIR SINGH	Noida Institute of Engineering & Technology Greater Noida	yaduyash@gmail.com
145	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125147**	Mr.YAGNESHKUMAR DINESHBHAI PATEL	N.G.PATELPOLYTECHNIC	ydp.ngpp@gmail.com
146	**RTU/TEQIPIII /PCE/CSE/CSA**	Mr.YESHPAL SINGH	GOVERNMENT POLYTECHNIC ,ROORKEE,BAHERI,BARE[illegible]	[illegible]owl [illegible]

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	CF/2125148			om
147	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125149**	Mr.ZAKIR HUSSAIN	Shankara Institute of Technology ,Jaipur	zhkmca@gmail.com
148	**RTU/TEQIPIII /PCE/CSE/CSA CF/2125150**	Dr.Manju Kaushik	Amity Institute of Information Technology, Amity University, Jaipur	mkaushik@jpr.amity.edu

♦ FEEDBACK ANALYSIS:

	Effective use of Time	**Effectiveness of Theoretical Session**	**Course Content Plan-ning and Organization**	**Effectiveness of Hands on Sessions**
Strongly Agree	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



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- **SWOT ANALYSIS:**
  - It promotes student-centered learning and collaboration.
  - Lessons and Contents are more accessible
  - It can more efficient
  - It relies on preparation and trust
  - There is significant work on the front end
  - This is more about proper planning and includes any iteration required for the purpose of highly building highly scalable software.
- **BUDGET & ACTUALS: N/A**

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POORNIMA
COLLEGE OF ENGINEERING

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

A Report of FDP

On

"Container Orchestration and Automation in Software Development Using Kubernetes and Openshift"

Organized by

Rajasthan Technical University, Kota &

Department of Information Technology,

Poornima College of Engineering, Jaipur

(September 21-23, 2020)

Under TEQIP-III Program

Venue: **Online Mode**

Coordinated by

Sandeep Bhargava

SESSION: 2020-21

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
181-B, RIICO Institutional Area
Sitapura, JAIPUR

DEPARTMENT OF INFORMATION TECHNOLOGY

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

1. FDP POSTER



2. BRIEF BIODATA OF RESOURCE PERSON

A. Dr. Sumit Kalra

i. Assistant Professor, IIT Jodhpur, Rajsthan

ii. Email ID: sumitk@iitj.ac.in

B. Mr. Ashutoshh Singh

i. HOD, Department of Information Technology

ii. Email ID: amolsaxena@poornima.org

C. Mr Shubham Katara ,

i. Coordinator & Faculty in Department of Information Technology

ii. Email ID: sandeep.bhargava@poornima.org

Department of Information Technology

Dr. Mahesh Bundele
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D. . Mr Deepak Chikkara ,

i. Coordinator & Faculty in Department of Information Technology

ii. Email ID: sandeep.bhargava@poornima.org

E. Mr Mayank Modi ,

i. Coordinator & Faculty in Department of Information Technology

ii. Email ID: sandeep.bhargava@poornima.org

3. ABSTRACT OF THE FDP

Department of Information Technology, Poornima College of Engineering, Jaipur, organized three days International Level FDP on **"Container Orchestration and Automation In Software Development Using Kubernetes and Openshift",** on September 21-23, 2020 from 10.00 AM- 3:00 PM. FDP was conducted through the online Session on Google Meet.

The main objective of this FDP was to equip faculties with skills and knowledge in automating deployment, scaling, and management of containerized applications, this is essential for inculcating learning values in students and guiding & monitoring their progress towards their career. To prepare the faculties for creating interest towards , scaling, and management of containerized applications using kubernetes and openshift and also familiarize the students with the practical aspects of this technologies.

The experts were invited from IIT's and Industry to elaborate the concepts of Container, orchestrator and namespaces, multi tier web app application deployment on Kubernetes, Deploying multi tier application on Kubernetes, CI-CD Pipelines using jenkins so on.

67 participants attended this FDP. This FDP was a good opportunity of effective learning for all the faculty members. E-Certificates were provided to the participants on successful completion of fdp.

Dr. Mahesh Bundele
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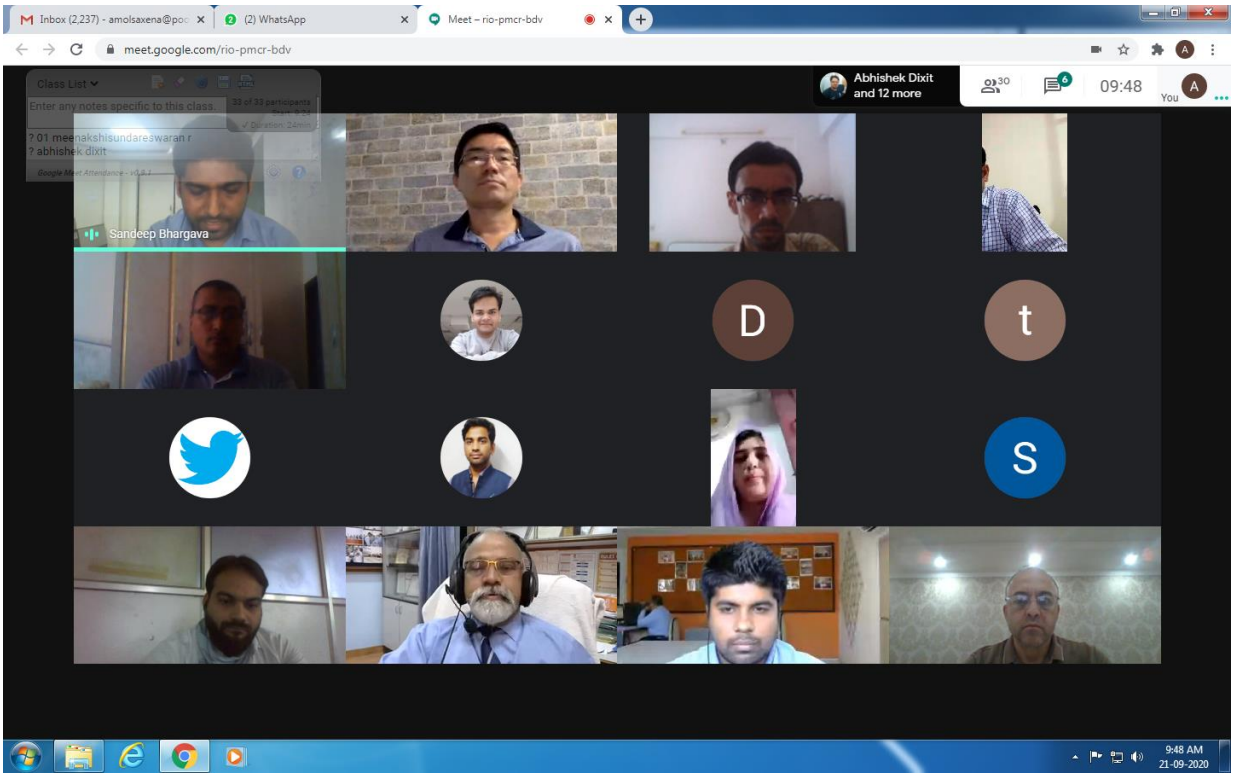
4. INAUGURAL SESSION

The esteemed personalities present on the inauguration of the programme:

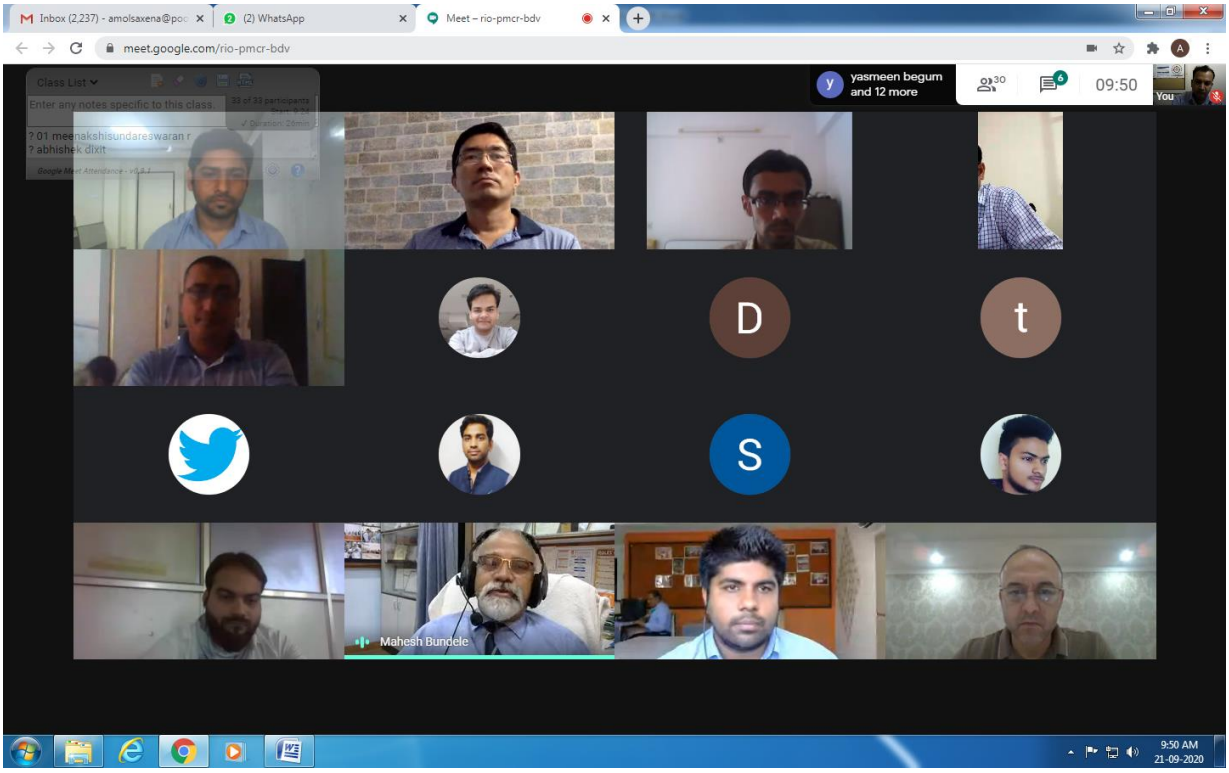
- **Prof. (Dr.) R.A. Gupta** , Hon'ble Vice Chancellor , RTU Kota **(ChiefGuest)**
- **Ar. Rahul Singhi,** Director, Poornima Group
- **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering,Jaipur
- **Mr. Amol Saxena**, HOD,IT, PCE
- **Sandeep Bhargava,** Event Coordinator, PCE

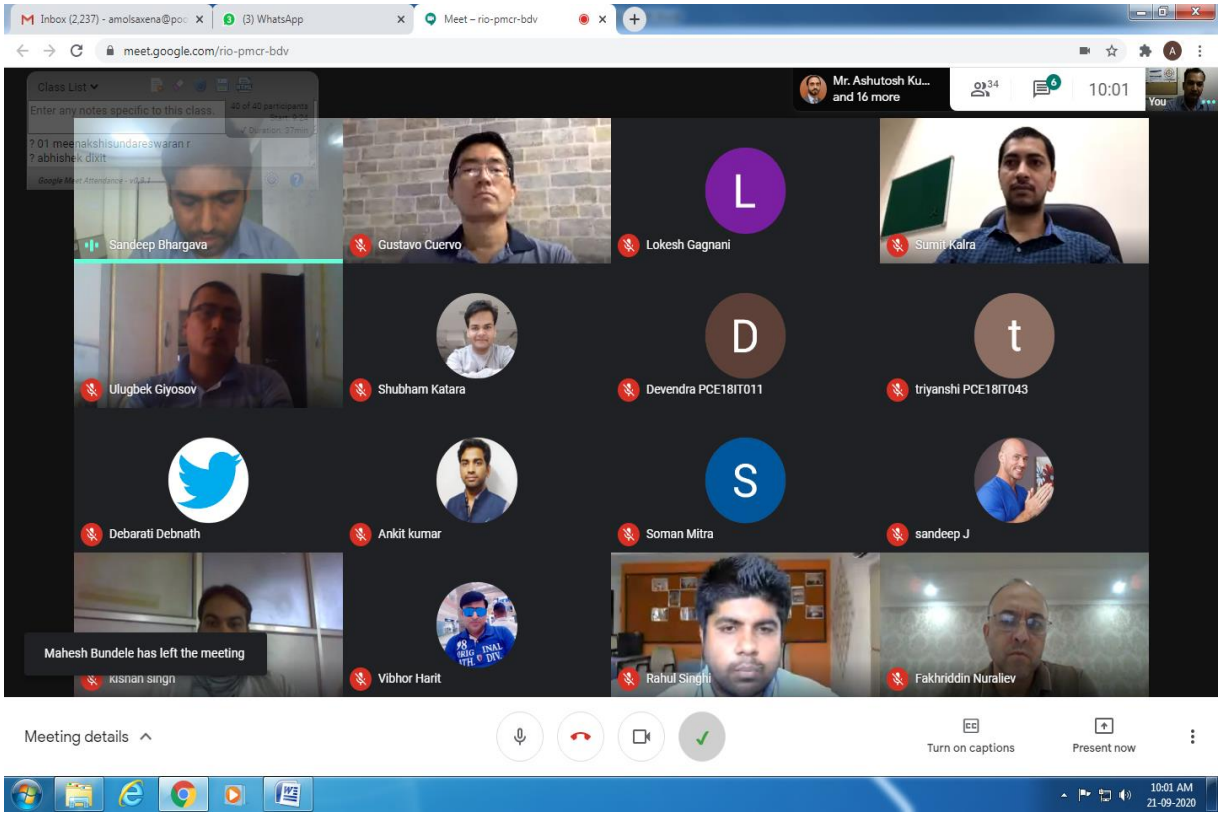
Mr. Sandeep Bhargava, Event Coordinator, PCE, welcomed all the respected dignitaries and participants. Prof.(Dr.) Mahesh Bundele, Director & Principal of PCE appreciated the program organized by ECE dept in his speech and emphasized the benefits of such kind of resourceful activity. Ar. Rahul Singhi, Director, Poornima Group also encouraged for such activities. At last vote of thanks was delivered by Mr. Amol Saxena. HOD,IT, PCE

5. GLIMPSE OF INAUGRAL CEREMONY



Dr. Mahesh Bundele
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Sitapura, JAIPUR

6. 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

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POORNIMA
COLLEGE OF ENGINEERING

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

A Report on 4-days Faculty Development Program

Flyer:



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

- **TITLE AND DURATION:** "Mobile Robotics & Internet of Things" from 16th – 19th September 2020.
- **SPONSORS:** TEQIP-III, Rajasthan Technical University Kota.

- **SUPPORTERS:** Rajasthan Technical University Kota.

- **ORGANIZERS:** Rajasthan Technical University, Kota, and Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES:

The main objective of this FDP is to develop internet connectivity for daily purposes devices that can efficiently send and receive data. These IoT devices may come in the form of your printer, thermometer, alarm clock, phone, and other daily used devices as well. The Internet of things (IoT) is a system of interrelated computing devices, mechanical and digital machines provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

- **EXPECTED OUTCOMES:**

Bringing together the Robot Mobile technologists, enthusiasts, and faculty to discuss the Latest applications and issues in the area of Mobile Robotics & Internet of Things.
Identify industry challenges and sensitize about latest trends and technologies in Robot Mobile and IoT.
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 Mobile Robotics & Internet of Things.

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

- **BROCHURE / POSTER / LEAFLET / FLYER:**



PCE ORGANIZING COMMITTEE

Er. Pankaj Dhemla	Vice-Principal, PCE
Dr. Rekha Nair	Dean I Year, PCE
Dr. Anila Dingra	Associate Professor, ECE
Mr. Tarun Mishra	Assistant Professor, ECE
Mr. Durgesh Kumar	Assistant Professor, ECE
Mr. Manish Sharma	Assistant Professor, ECE
Ms. Manisha Kumawat	Assistant Professor, ECE
Mr. Gaurav Saxena	Assistant Professor, ECE
Mr. Amit Kumar Jain	Assistant Professor, ECE
Mr. Jitendra Gupta	Assistant Professor, ECE

RESOURCE PERSONS

Prof. Sudhan Majhi, Associate Professor, IIT, Patna
Dr. Balwinder Singh Dhaliwal, Associate Professor, NITTTR, Chandigarh
Dr. Divyang Rawal, Assistant Professor, LNMIIT, Jaipur
Suman Kr. Dey, Assistant Professor, NIT, Rourkela
Dr. Arka Prokash Mazumdar, Assistant Professor, MNIT, Jaipur
Dr. Sumit Kalra, Assistant Professor, IIT, Jodhpur
Dr. Aneek Adhya, Assistant Professor, IIT, Kharagpur
Dr. Pankaj Kumar Goswami, Associate Professor, TMU, Moradabad
Dr Debasis Das, Assistant Professor, IIT, Jodhpur
Dr. Debashish Pal, Principal Scientist, CEERI, PILANI
Dr. D. Narender Singh, Associate Professor, Anurag University, Hyderabad
Dr. Abhishek Sharma, Assistant Professor, LNMIIT, Jaipur

RESOURCE PERSONS

The resource persons for the FDP will be Eminent Professors and Experts in the area of IOT, Robotics & wireless Communication from IITs, NITs and other Esteemed Institutions.

ELIGIBILITY

This course is open to all the Faculty Members of AICTE Approved Institutions, Research Scholars, and Persons working in R&D organizations or Industry. Number of participants for FDP is limited. All the sessions will be conducted on line only.

REGISTRATION AND FEE PARTICULARS

- There is no registration fee for faculty from AICTE approved Institutions, Participants from Industry, and Research Scholars.
- Registration for the program may be done by filling the Registration Form online, Reg. Link: https://tinyurl.com/y2llov2b

IMPORTANT DATES

Last date of recipient of application	September 13, 2020
Intimation of selection by mail	September 15, 2020
FDP duration	September 16-19, 2020

CORRESPONDENCE

Dr. PAYAL BANSAL
Associate Professor, ECE
✉ : Payal.bansal@poornima.org • ✆ : +91-9785487195

Venue

Department of
Electronics & Communication Engineering
ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022
www.pce.poornima.org

TEQIP-III SPONSORED

Faculty Development Program
on
MOBILE ROBOTICS AND INTERNET OF THINGS

September 16-19, 2020

Organized by

Rajasthan Technical University, Kota
&
Department of
Electronics & Communication Engineering

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COLLEGE OF ENGINEERING
Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

Dr. Mahesh Bundele
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ABOUT TEQIP-III

The Project, 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 to improve their policy, academic and management practices.

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 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech. 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

Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

DEPT. OF ELECTRONICS & COMM. ENGINEERING

The Department of Electronics and Communication Engineering (ECE) was established in year 2003. National Board of Accreditation (NBA) accredited the ECE department in the year 2009 & 2016 for subsequent three years. It has intake capacity of 180. It also offers M. tech in VLSI Design with intake capacity of 18 students. The department has highly qualified committed and research oriented faculty members. The department has laboratories as per Rajasthan Technical University Syllabus with State-of-the-Art facilities in diversified fields such as Electronic Circuits, VLSI Design, DSP (Digital signal processing), Embedded Systems, Advanced Wireless Communication and Microwave etc. Research is being carried out in the areas of Antenna Design and Wireless Communication, and VLSI design. The department also has to his credit three labs, (i) Microwave Engineering lab & (ii) Advance Antenna & Wireless Communication lab (iii) Advancement of Wireless and Optical Fiber Lab supported by MODROBS Grants of AICTE, New Delhi.

IETE Student Forum (IFS) of the Department has been recognized as Most Active ISF for session 2016-17 by IETE Rajasthan Center, Jaipur. The department also has state of the art lab facility for the value added IBM Career Education Programs for faculty members and students on emerging technologies such as IBM BlueMix for Cloud, IBM Cognos for Business Intelligence and IoT Application Development & Deployment using IBM BlueMix.

ABOUT FACULTY DEVELOPMENT PROGRAM

The Internet of Things aims to develop internet connectivity for the daily purpose devices that can efficiently send and receive data. These IoT devices may come in the form of your printer, thermometer, alarm clock, phone, and other daily used devices as well .The Internet of things (IoT) is a system of interrelated computing devices, mechanical and digital machines provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

Robotics is an interdisciplinary research area at the interface of computer science and engineering. Robotics involves design, construction, operation, and use of robots. The goal of robotics is to design intelligent machines that can help and assist humans in their day-to-day lives and keep everyone safe.

Applications of wireless communication involve security systems, television remote control, WI-FI, Cell phones, wireless power transfer, computer interface devices and various wireless communication based projects.

TOPICS TO BE COVERED

- IOT Introduction
- Embedded Systems
- Security Issues
- Sensor Networks
- Wireless Communication
- Wireless Technologies
- IOT Protocols
- IoT with Cloud Computing
- Mobile Robotics
- Optical Communication



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 Mathur

RTU EVENT COORDINATOR

Mr. Pankaj Kumar (RTU, Kota)

RTU (ATU) TEQIP-III COMMITTEE

Dr. Harish Sharma	Nodal officer
Prof. D. K. Sambariya	Nodal Officer Procurement
Dr. S. D. Purohit	Nodal Officer Finance
Dr. Irum Alvi	Conference
Mr. Santosh Sharma	Expert Lecture
Mr. Anshul Bansal	GATE & Induction
Mr. Dinesh Kumar	Workshop

HOST INSTITUTE COORDINATORS

Dr. Payal Bansal	Associate Professor
Dr. Garima Mathur	Professor & Head ECE

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

- **PROGRAM SCHEDULE:**

Poornima College of Engineering Department of Electronics & Communuication Engineering Faculty development Program on "Mobile Robotics and Internet of Things "						
	09:30 AM -10:00 AM	10:00 AM -11:30 AM	10:30 AM -11:45 AM	11:45 AM - 01:00 PM	01:00 PM - 02:00 PM	02:00 PM - 03:15 PM
Wednesday 16.09.2020	Inaugral Seesion	Dr. Sudhan Majhi (IIT Patna) " Intelligent receiver design for 5G and beyond wireless communication."	Tea Break	Dr. Balwinder Singh (NITTTR Chandigarh) 'Introduction to Arduino Hardware and software"	Lunch Break	Dr. Divyang Rawal (LNMIIT, Jaipur) "Performance of NOMA in IOT network"
Thrusday 17.09.2020		Dr. Arka Prokash Mazumdar (MNIT Jaipur) "ICN for IoT".		Dr. Debasis Das (IIT, Jodhpur) "Internet of Things(IoT) Security for Smart Cities "		Dr. Abhishek Sharma (LNMIIT, Jaipur) "Internet of Things: Transforming Digital World"
Friday 18.09.2020		Dr. Aneek Adhya (IIT Kharagpur) "Use of Passive Optical Networks in Internet of Things applications"		Dr.D.Narendar Singh (Anurag University,Hyderabad) " Introduction to the Internet of Things and Its Applications"		Dr. Pankaj Goswami (TMU, Moradabad) "antenna utility for IoT applications"
Saturday 19.09.2020		Dr. Sumit Kalra (IIT,Jodhpur) "Software Architectural perspective of IoT Data Analytical Systems"		Dr. Debashish Pal (Principal Scientist,CEERI, PILANI) "mm Wave antennas for wireless communication"		Dr. Suman Kr. Dey (NIT Rourkela) "Emerging wireless optical technologies for IoT and 5G/6G"

Dr. Mahesh Bundele
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Director
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- **INAUGURAL SESSION:**

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Poornima College of Engineering

TEQIP-III RTU (ATU) SPONSORED

Faculty Development Program on

Mobile Robotics and Internet of Things

(September 16-19, 2020)

Date: September 16, 2020 **Time: 9:30-10:00AM**

Venue: Online

Q-Sheet- Inaugural Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of FDP by **Dr. Payal Bansal, (Associate Prof.) Coordinator, PCE** • **Prof. (Dr.) R.A. Gupta** , Hon'ble Vice Chancellor , RTU Kota **(Chief Guest)** • **Prof. (Dr.) Dhirendra Mathur,** RTU (ATU) TEQIP-III Coordinator **(Guest of Honour)** • **Dr. Sudhan Majhi, Associate Prof. (IIT Patna) (Guest of Honour)** • **Mr. Pankaj Kumar**, Assistant Professor, (RTU Event Coordinator • **Ar. Rahul Singhi, Director, Poornima Group, Jaipur** • **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur • **Dr. Garima Mathur**, HOD,ECE, Poornima College of Engineering	05 Min	9:30AM - 9:35AM
2.	Welcome Address by **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur	05 Min	9:35AM - 9:40AM
3.	Address by Ar. Rahul Singhi, Director, Poornima Group, Jaipur	05 Min	9:40AM - 9:45AM
4.	Introduction of Guest of Honour & Address by Guest of Honour **Prof (Dr.) Dhirendra Mathur** , RTU (ATU) TEQIP-III Coordinator **Dr. Sudhan Majhi, Associate Prof. (IIT Patna)**	05 Min	9:45AM - 09:50AM
5.	Introduction of Chief Guest & Inaugural Address by the Chief Guest **Prof. (Dr.) R.A. Gupta,** Hon'ble Vice Chancellor , RTU Kota	10 Min	09:50AM - 10:00 AM
6.	Vote of Thanks by **Dr. Garima Mathur** HOD,ECE, PCE	05 Min	10:00AM- 10:05AM

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

- **DETAILS OF RESOURCE PERSONS:**

1. Dr. Sudhan Majhi (IIT Patna)
2. Dr. Balwinder Singh (NITTTR Chandigarh)
3. Dr. Divyang Rawal (LNMIIT, Jaipur)
4. Dr. Arka Prokash Mazumdar (MNIT Jaipur)
5. Dr. Debasis Das (IIT, Jodhpur) Venue
6. Dr. Abhishek Sharma (LNMIIT, Jaipur)
7. : Dr. Aneek Adhya (IIT Kharagpur)
8. Dr. D.Narendar Singh (AnuragUniversity,Hyderabad)
9. Dr. PankajGoswami (TMU, Moradabad)
10. Dr. Sumit Kalra(IIT,Jodhpur)
11. Dr. Debashish Pal (Principal Scientist, CEERI, PILANI)
12. Dr. Suman Kr. Dey(NIT Rourkela)

- **GLIMPSES OF CONDUCTION:**

Day 1: 16th September 2020:

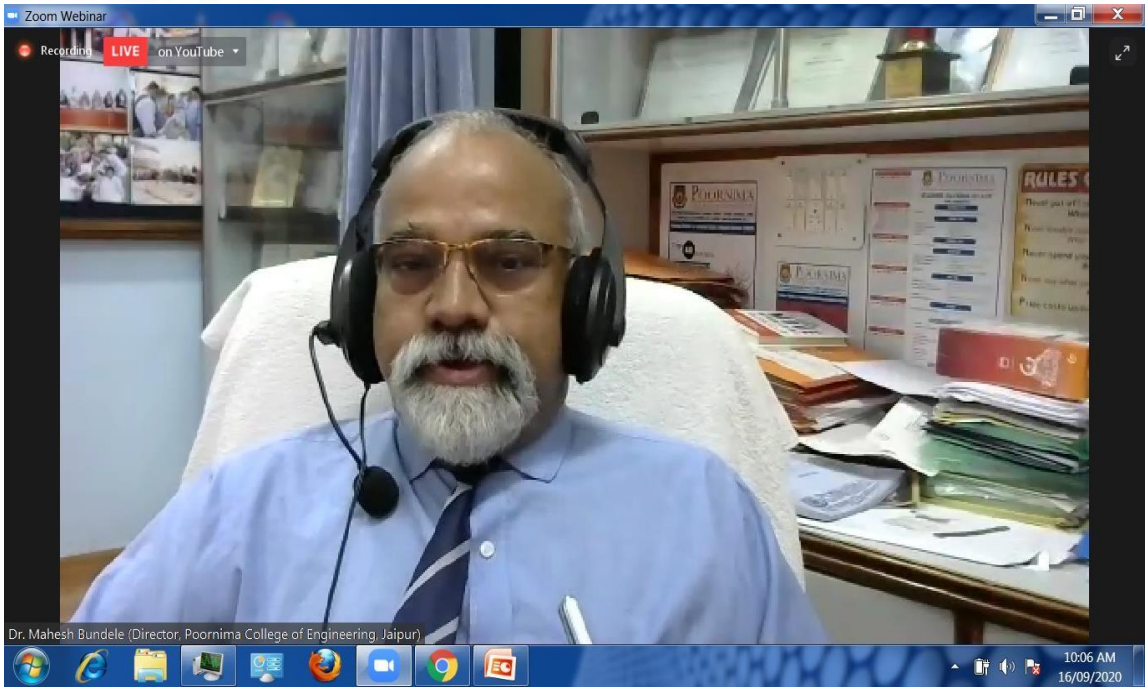
Inaugural session witnessed the presence of Chief Guest Prof. Sudhan Majhi, Professor IIT Patna, Dr. Mahesh Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur, HOD, Department of ECE & Dr. Payal Bansal Coordinator of FDP, PCE, participants along with the faculty members. The event started with the online inaugural ceremony in presence of chief guest Prof. R. A. Gupta & Dr. Mahesh Bundele, Director PCE. Dr. Payal Bansal addressed the participants about the FDP & its area of learning and its content. In welcome address Dr. Mahesh M. Bundele, director, PCE, update the participants about the new techniques related to Internet of Things & its applications. Dr. Garima Mathur proposed vote of thanks in the inaugural session. Dr. Sudhan Majhi(IIT Patna) deliver his talk on “Intelligent receiver design for 5G and beyond wireless communication.” Another Talk was delivered by Dr. Balwinder Singh (NITTTR Chandigarh) on the topic 'Introduction to Arduino Hardware and software". After Lunch the session was delivered by Dr. Divyang Rawal (LNMIIT, Jaipur) on the topic "Performance of NOMA in IOT network".

Dr. Mahesh Bundele
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Inaugural Session

Welcome address by Dr. Payal Bansal (Coordinator FDP)

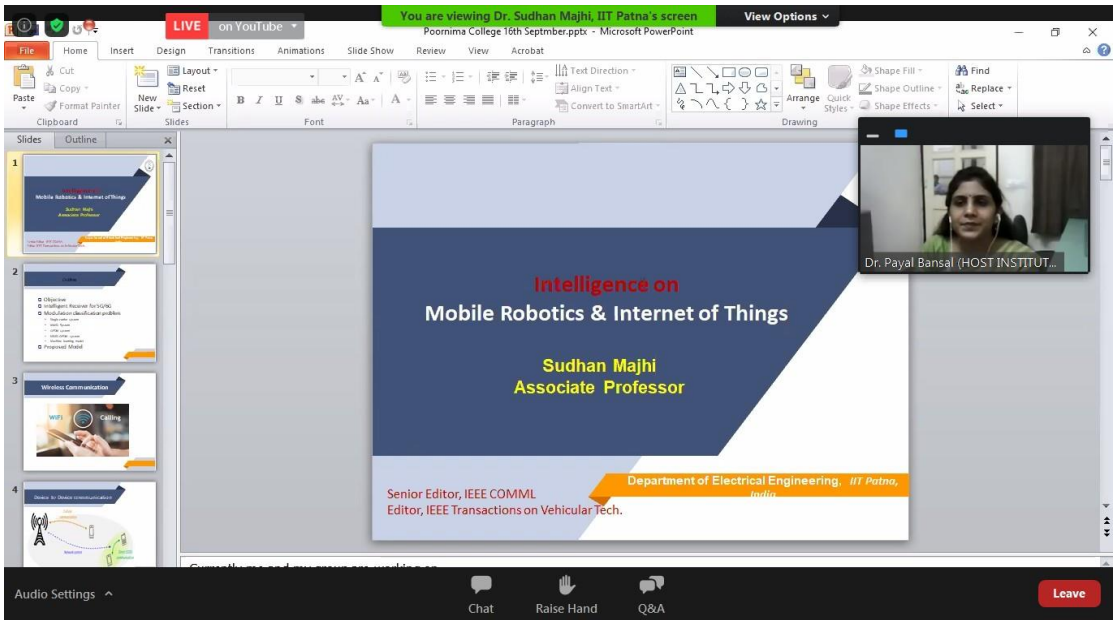




Motivational speech by Dr. Mahesh M Bundele (Director PCE)

Dr. Mahesh Bundele
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Address by Dr. Sudhan Majhi (Chief Guest, Prof. IIT Patna)



Vote of Thanks by Dr. Garima Mathur



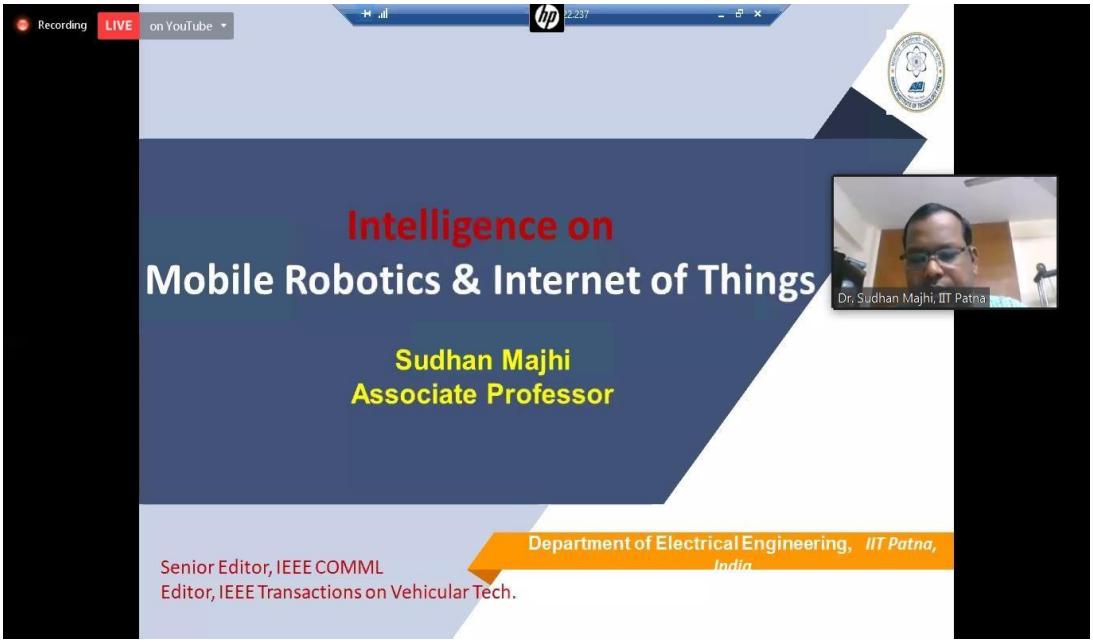
Dr. Mahesh Bundele
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CONTENT DELIVERY / PRACTICAL SESSIONS:
Day 1: 16th September 2020:

Expert Talk-1

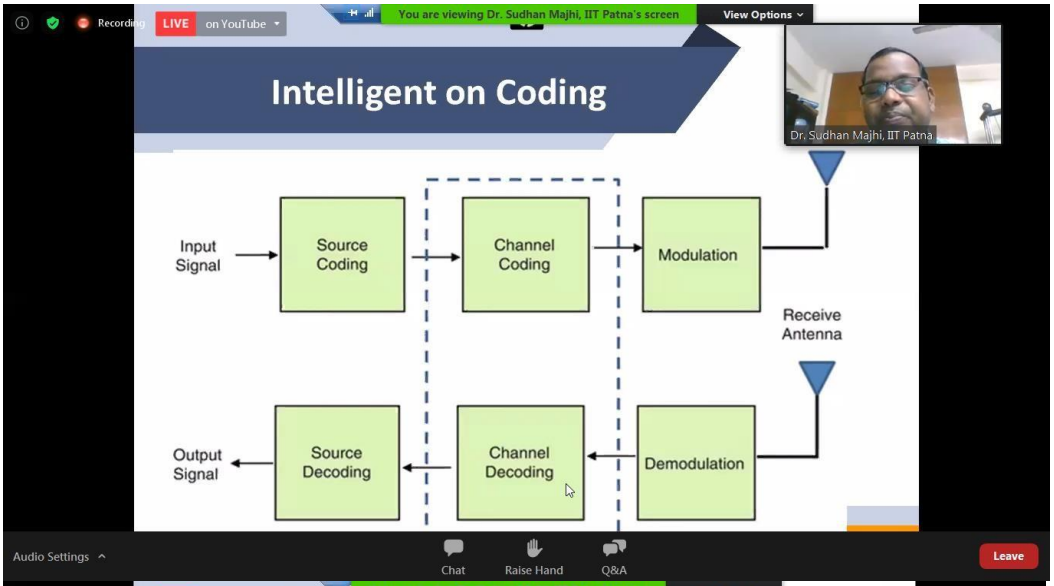
Topic: Intelligent receiver design for 5G and beyond wireless communication
Resource Person: Dr. Sudhan Majhi (IIT Patna)
Venue: Online Via Zoom

Dr. Sudhan Majhi delivered his talk on intelligent receiver design for 5G and beyond wireless Communication. He told us about the designing of receiver, its applications ets. He also update about the new unique features bring some new challenges in the design of the new transceivers with 5G communication. Also brief about the security aspects of the 5G & its BW, Its advantages, its speed etc.



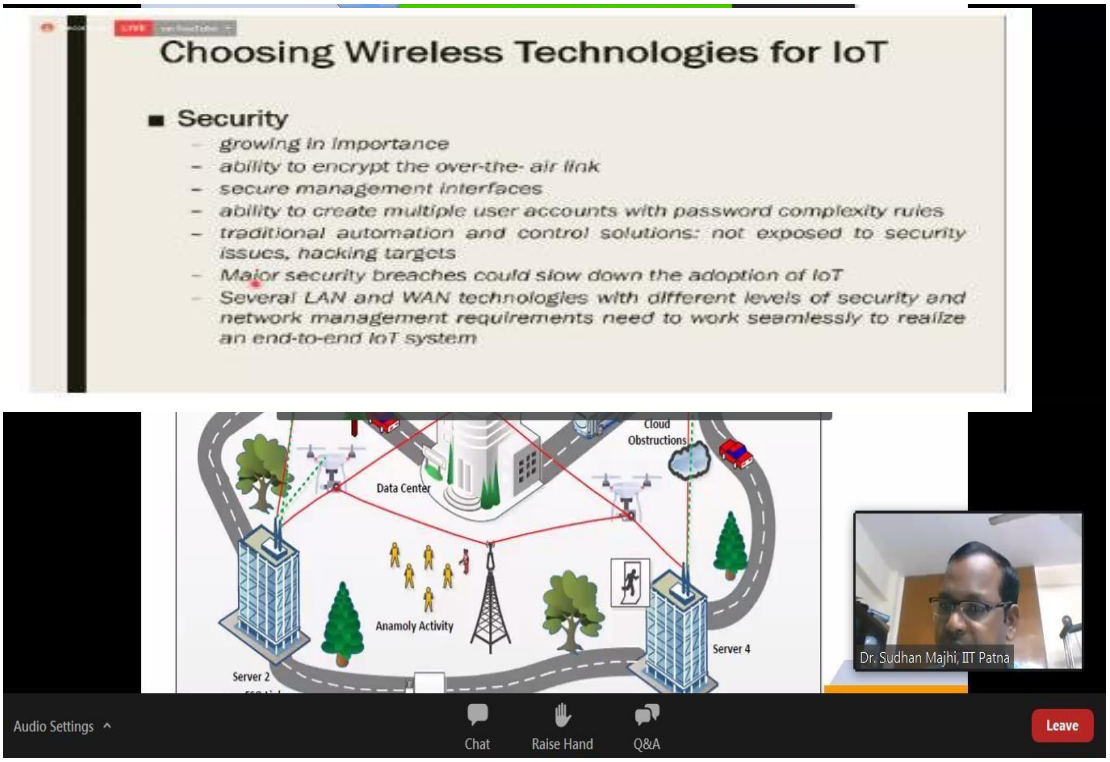
Session started by Dr. Sudhan Majhi

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Expert Talk-2

Topic: Introduction to Arduino Hardware and software

Resource Person: Dr. Balwinder Singh (NITTTR Chandigarh)

Venue: online

Dr. Balwinder Singh delivered his talk on “Introduction to Arduino Hardware and software”. He describes the hardware requirements of Arduino.



Dr. Balwinder Singh (NITTTR Chandigarh)

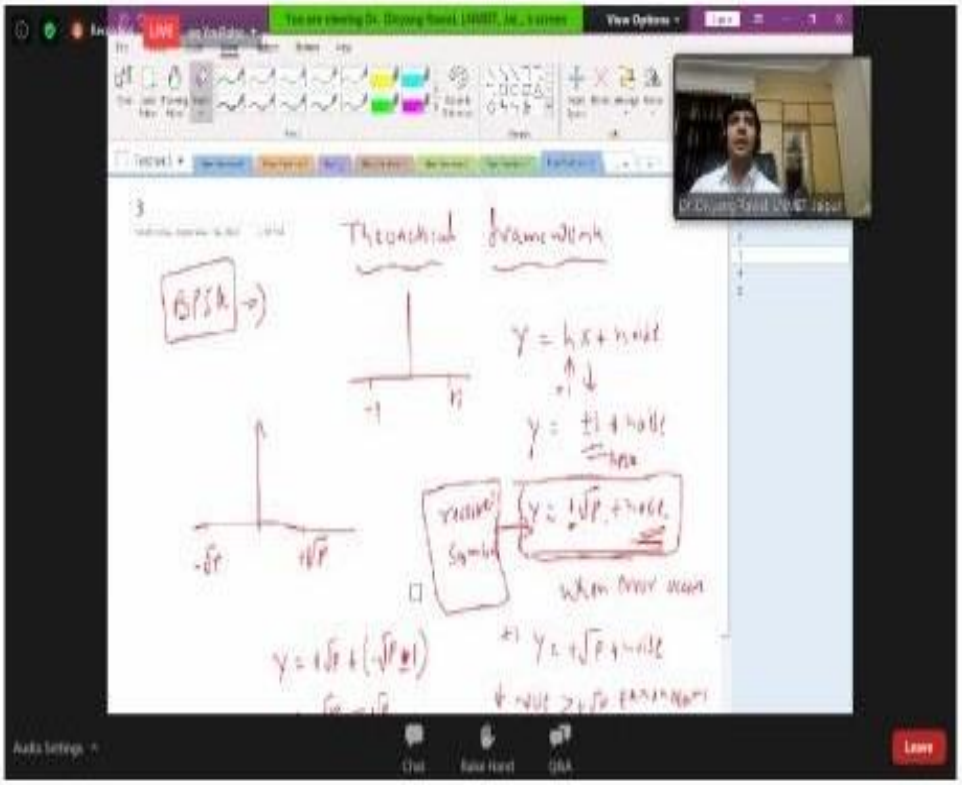
Dr. Mahesh Bundele
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Expert Talk-3

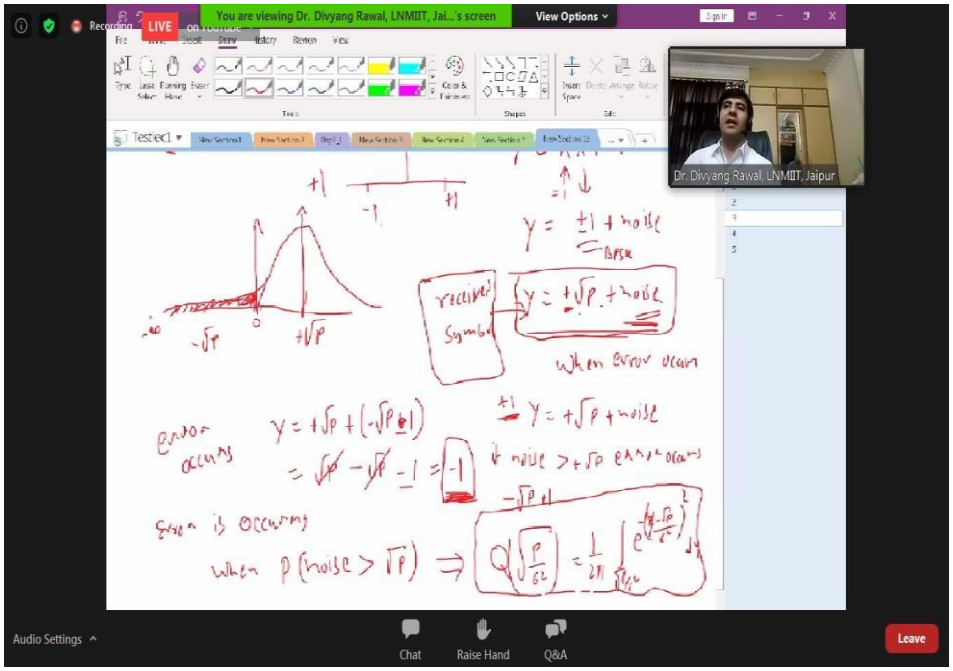
Topic: Performance of NOMA in IoT network

Resource Person: Dr. Divyang Rawal (LNMIIT, Jaipur)

Venue: online



Session delivered by Dr Divyang Rawal



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Day 2: 17th September 2020:

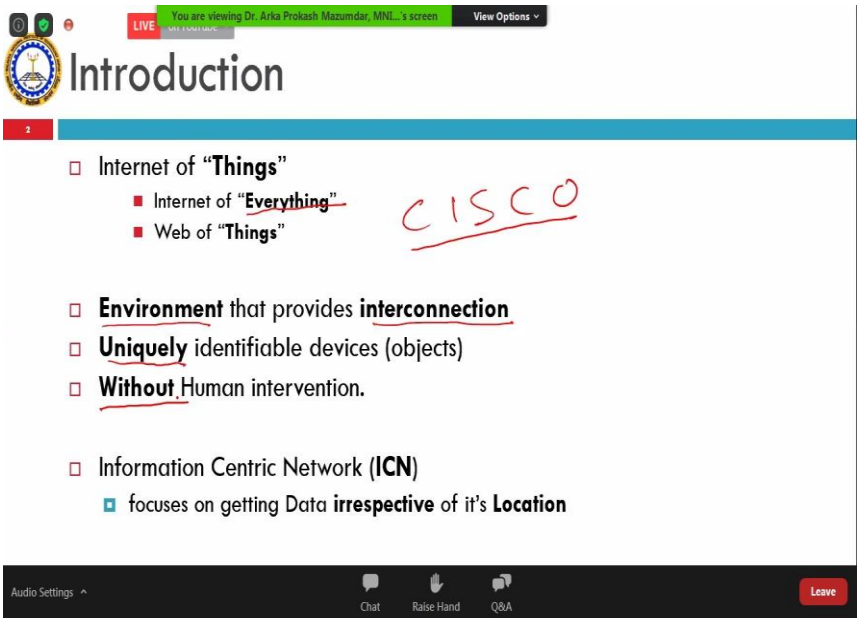
Expert Talk-3

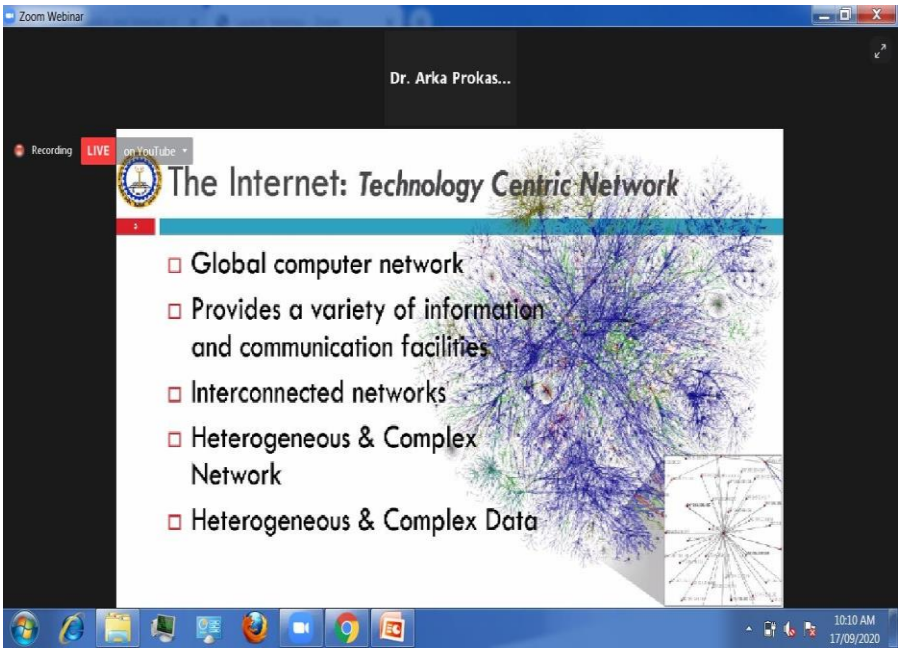
Topic: ICN for IoT

Resource Person: Dr. Arka Prokash Mazumdar (MNIT Jaipur)

Venue: online

Dr. Arka Prokash Mazumdar (MNIT Jaipur), delivered his talk on "ICN for IoT".He explained about various configuration of antennas and smart antenna applications.





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LIVE on YouTube | You are viewing Dr. Arka Prokash Mazumdar, MNI...'s screen | View Options

Present Scenario: *Application Centric Network*

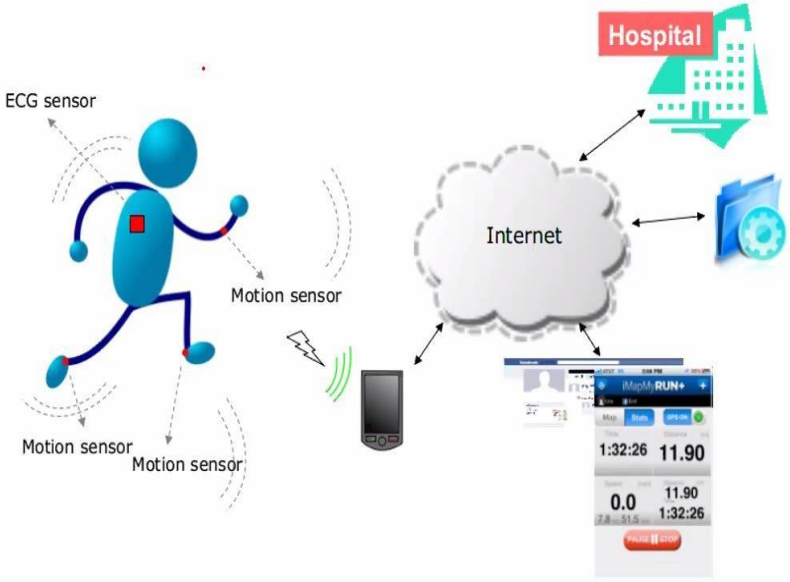
4



LIVE on YouTube | You are viewing Dr. Arka Prokash Mazumdar, MNI...'s screen | View Options

The Paradigm Shift

5



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After Lunch valedictory session was held. Dr. Kota Soloman Raju. Chief Guest, Dr. Mahesh M Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur, Coordinator, PCE, participant, and faculty members attended the session. It started with the felicitation of Chief Guest Dr. Kota Solomon Raju, by Dr. Mahesh M Bundele, Principal & Director, PCE, Jaipur. A brief report on the workshop was presented by Dr. Garima Mathur. Valuable feedback was taken from the participants. The Certificate of participation was awarded to all the participants who successfully completed the Program. Dr. Mahesh M Bundele congratulated the participants for taking a keen interest in learning the new technologies in his address. He also appreciated the organizing team. Dr. Kota Soloman Raju said that the active involvement of most prominent speakers and delegates and their innovative ideas will create a stimulating atmosphere for the further development of multi-disciplinary and convergent research in the area of mobile network security and smart antenna. Dr. Anila Dhingra, Associate Professor, ECE Deptt., PCE proposed the Vote of Thanks. At the end of the session, a group photograph was taken with the Dignitaries including the participants.

Expert Talk-2

Topic: Internet of Things (IoT) Security for Smart Cities

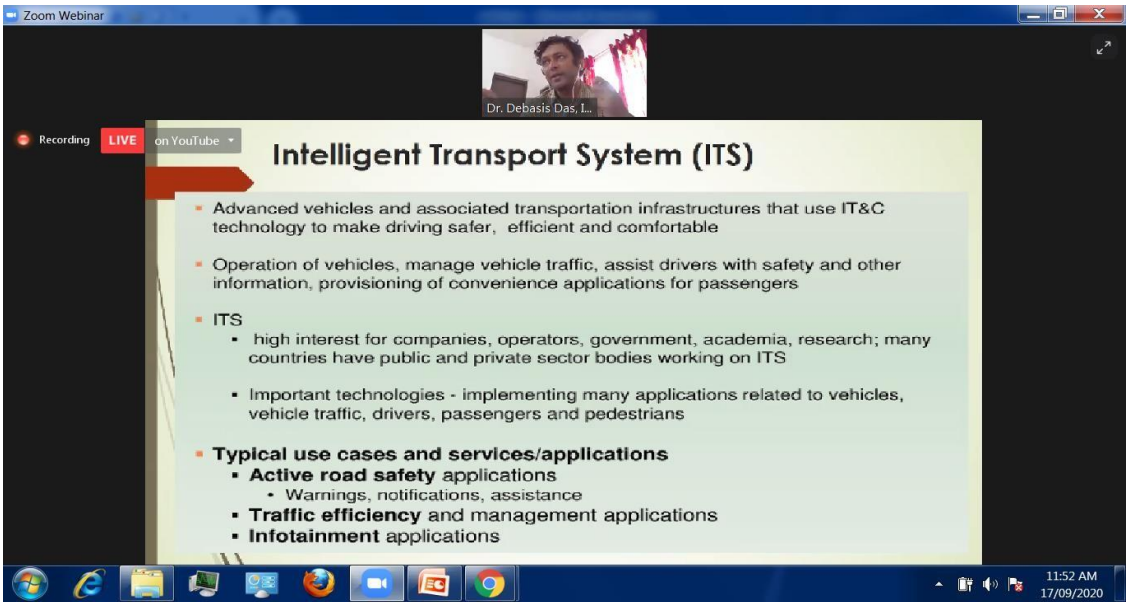
Resource Person: Dr. Debasis Das (IIT, Jodhpur)

Venue: online

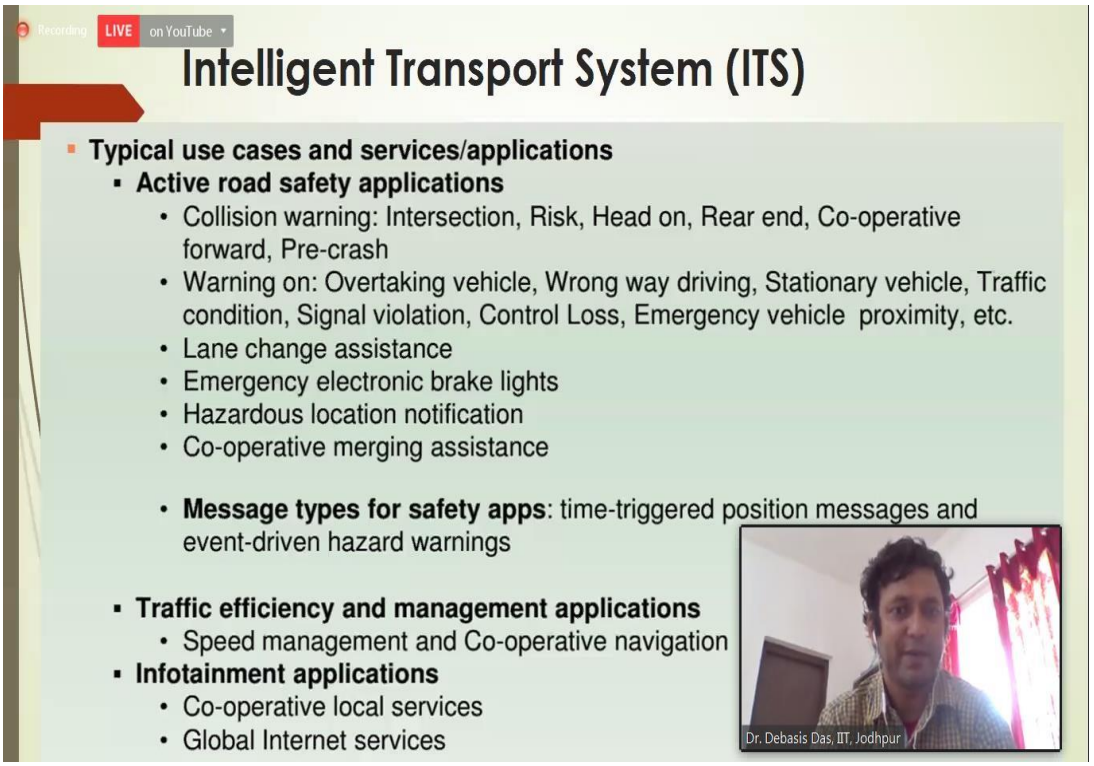
Dr. Debasis Das (IIT, Jodhpur) delievered his Talk on “Internet of Things (IoT) Security for Smart Citie”. Antennas for wireless communications are commonly developed in the form of passive planar structures, which consist of a main radiating element, a supporting ground plane, a supporting substrate, and a feeding structure. The design configurations, sizes and type of substrates will depend on the desired frequency of operation and its radiation performances.

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Expert Talk-3

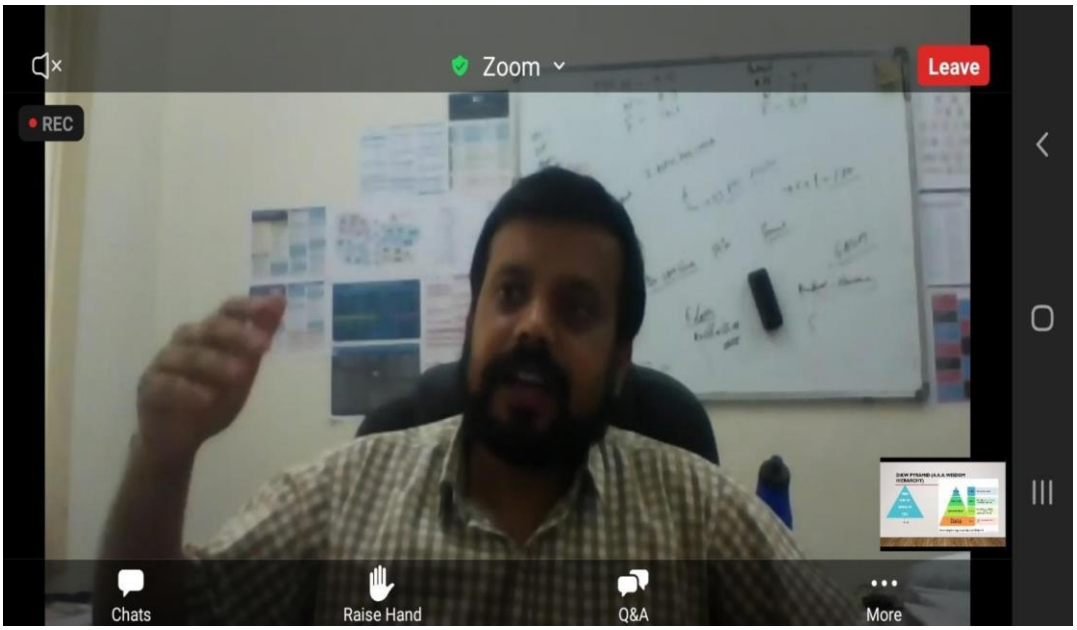
Topic: Internet of Things: Transforming Digital World

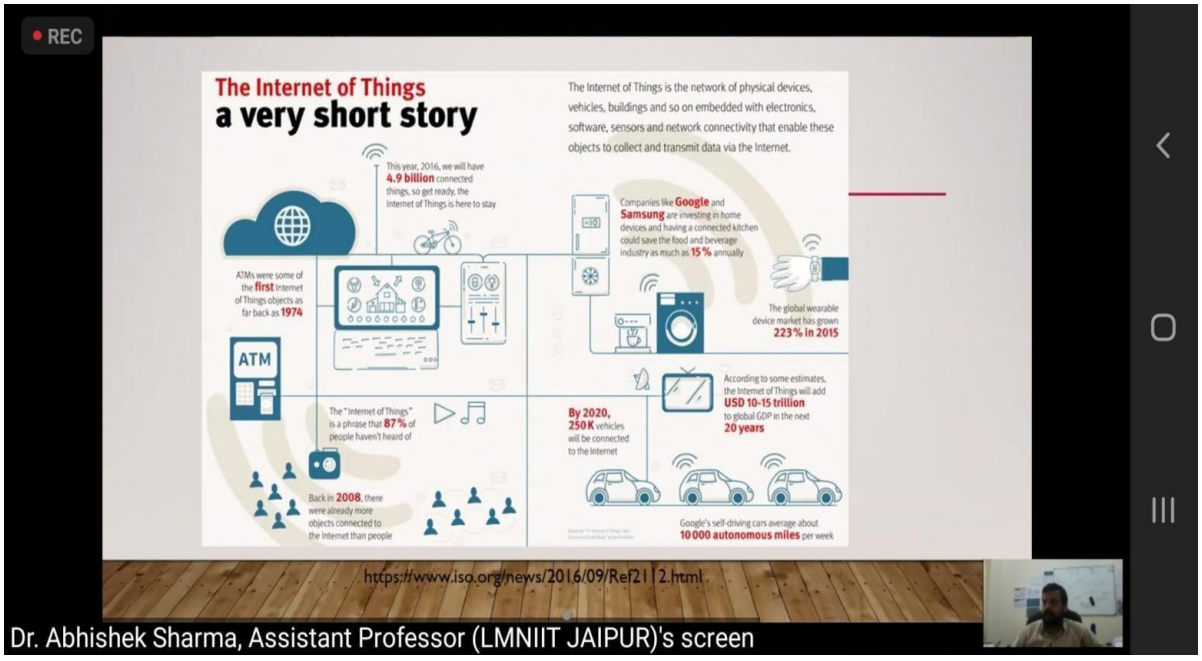
Resource Person: Dr. Abhishek Sharma (LNMIIT, Jaipur)

Venue: online



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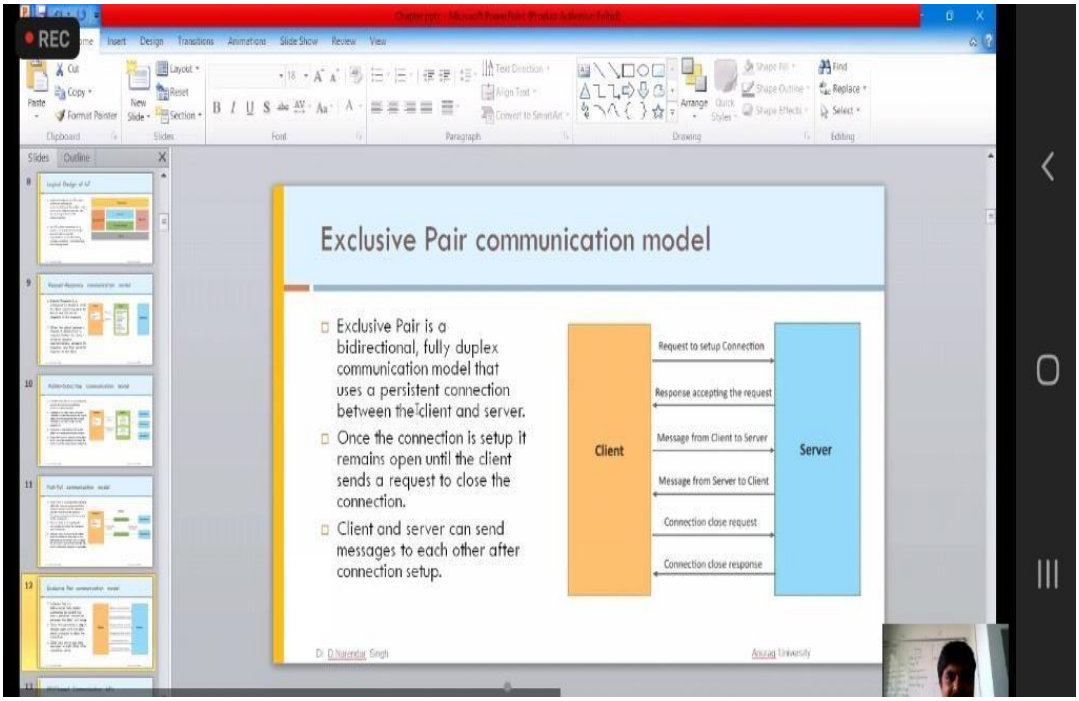
Day 3: 18th September 2020:

Expert Talk-1

Topic: Use of Passive Optical Networks in Internet of Things applications

Resource Person: Dr. Aneek Adhya (IIT Kharagpur)

Venue: online Via Zoom

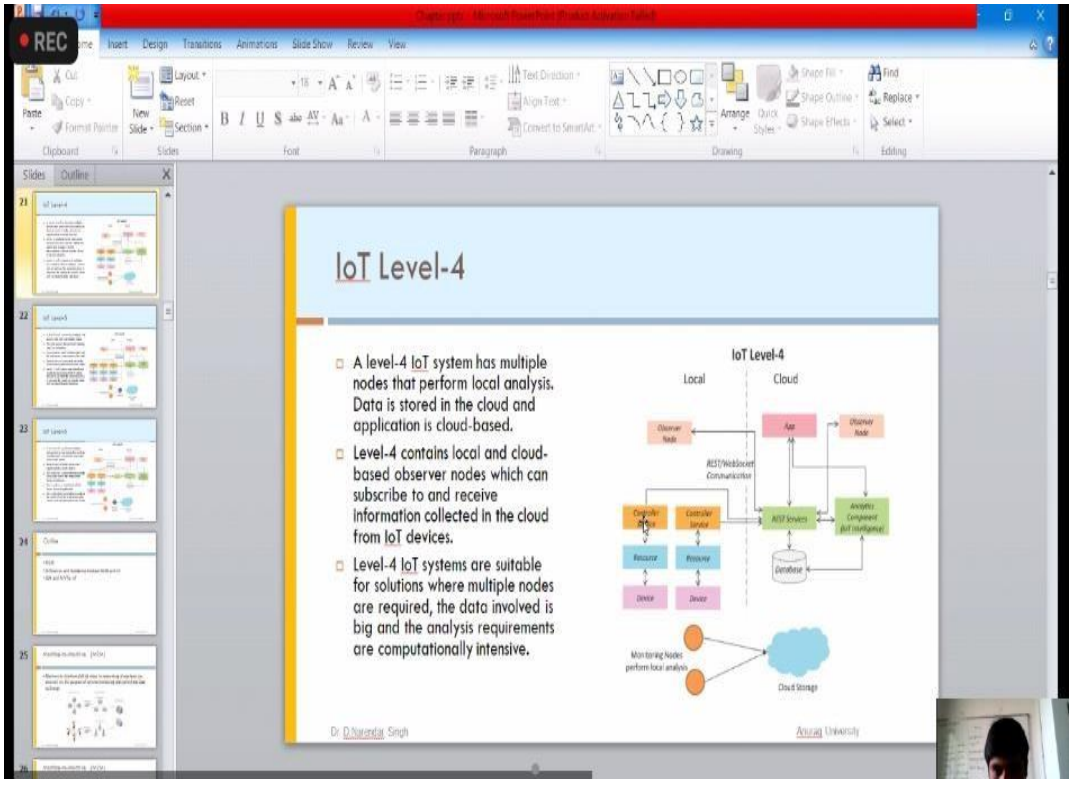


Session delivered by Dr. Aneek Upadhyay

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Think Before....

IoT primitives	Aspect	Aristocratic Risk?	Reliability Risk?	Security Risk?
Sensor	Physical	Y	Y	Y
Aggregator	Virtual	Y	Y	Y
Communication channel	Virtual and/or Physical	Y	Y	Y
e-Utility	Virtual or Physical	Y	Y	Y
Decision trigger	Virtual	Y	Y	Y



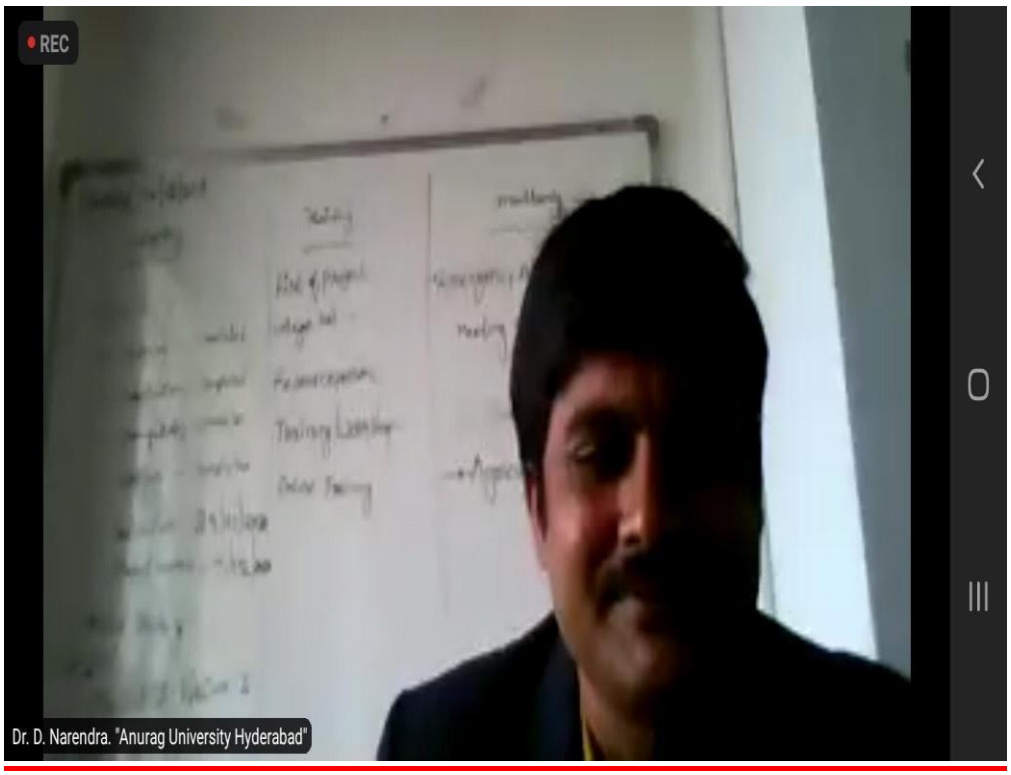
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Expert Talk-2

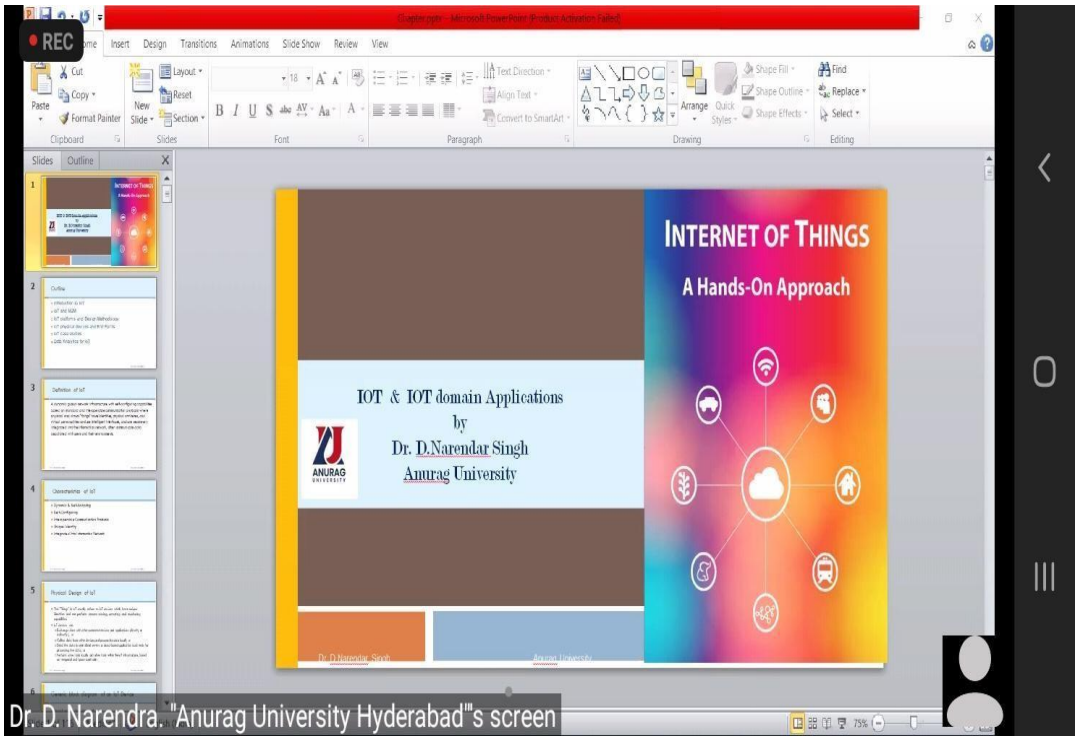
Topic: Introduction to the Internet of Things and Its Application

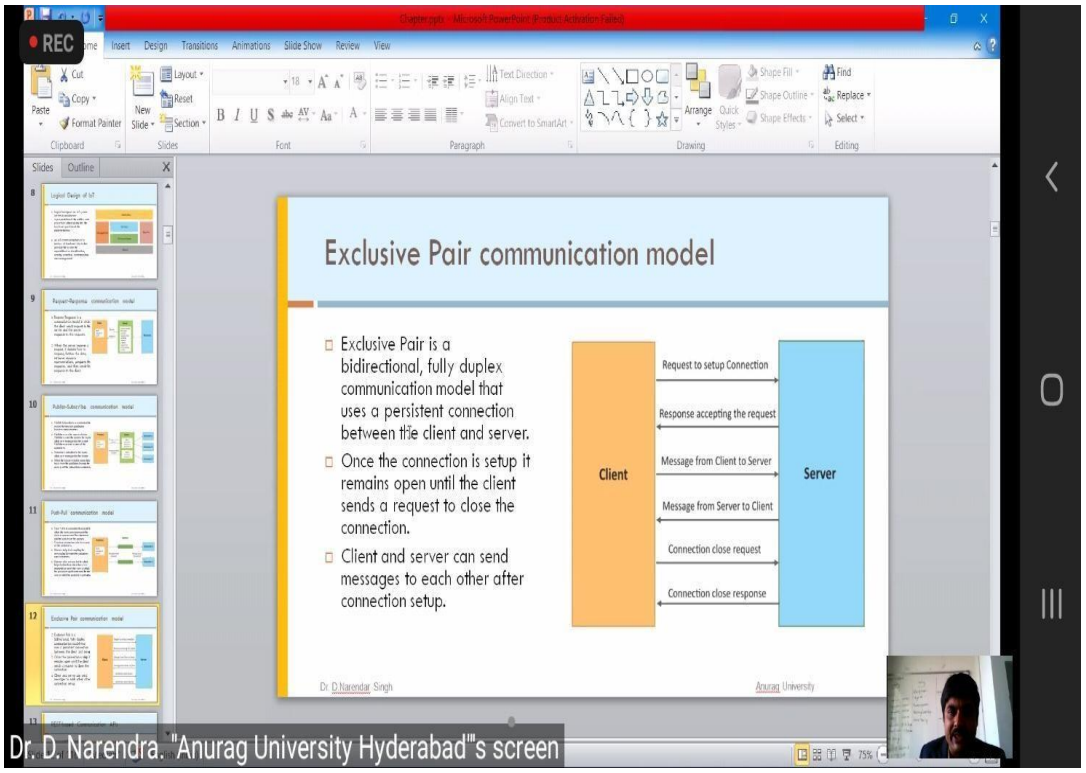
Resource Person: Dr. D. Narendar Singh (Anurag University, Hyderabad)

Venue: online Via Zoom



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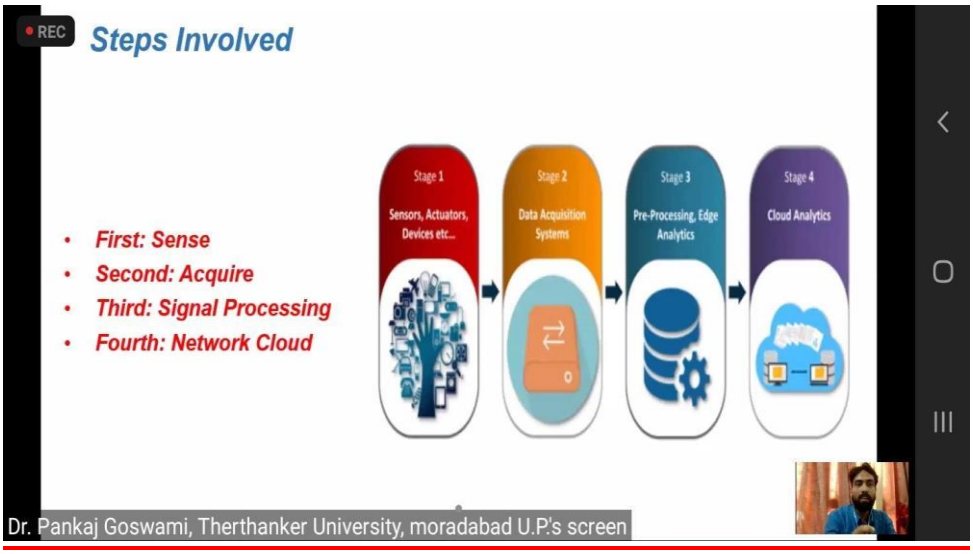
Expert Talk-3

Topic: Antenna utility for IoT application

Resource Person: Dr. Pankaj Goswami (TMU, Moradabad)

Venue: online Via Zoom





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Day-4:- 19 September 2020

Expert Talk-1

Topic: Software Architectural perspective of IoT Data Analytical Systems

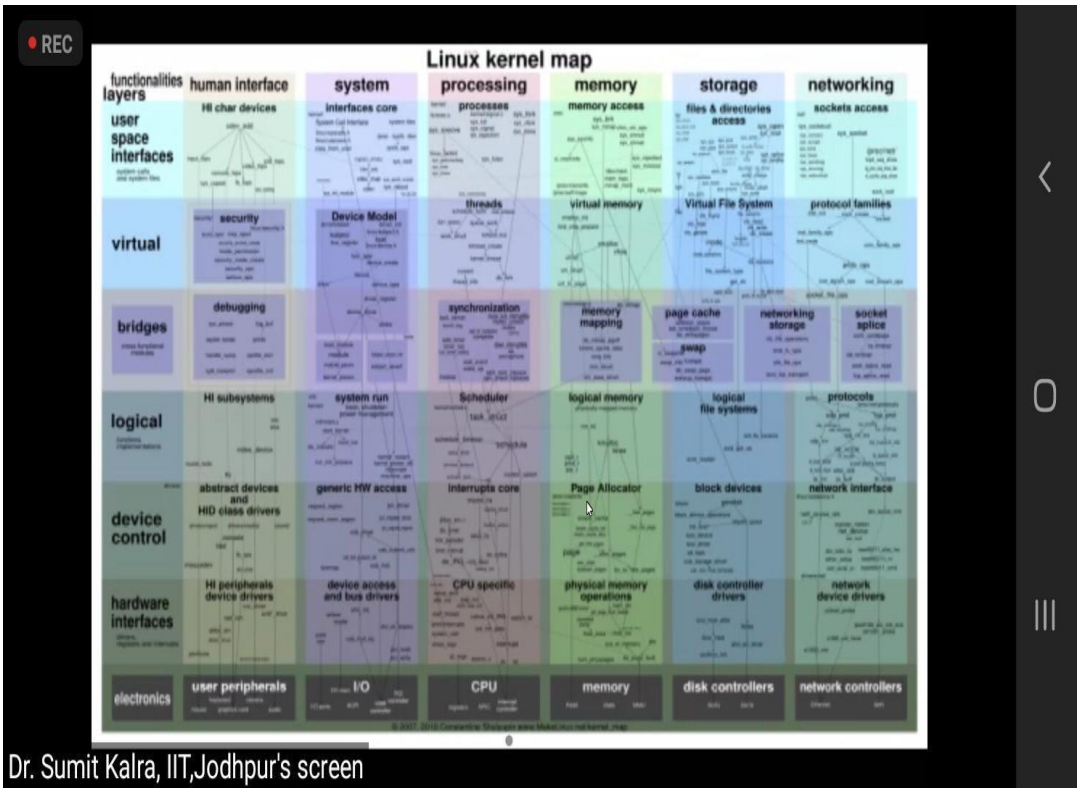
Resource Person: Dr. Sumit Kalra (IIT, Jodhpur)

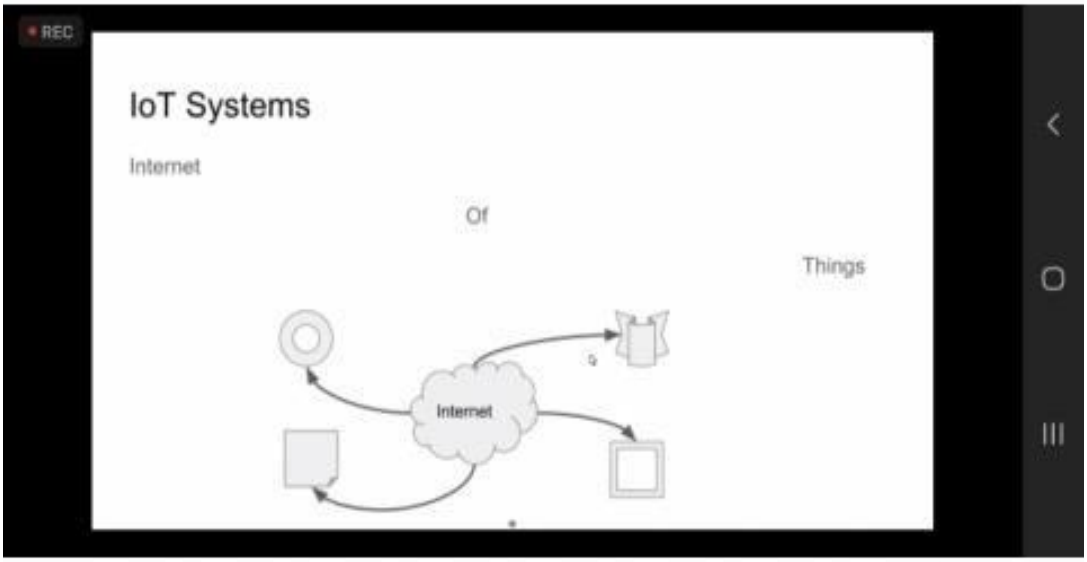
Venue: online Via Zoom



Session delivered by Dr. Sumit Kalra

Dr. Mahesh Bundele
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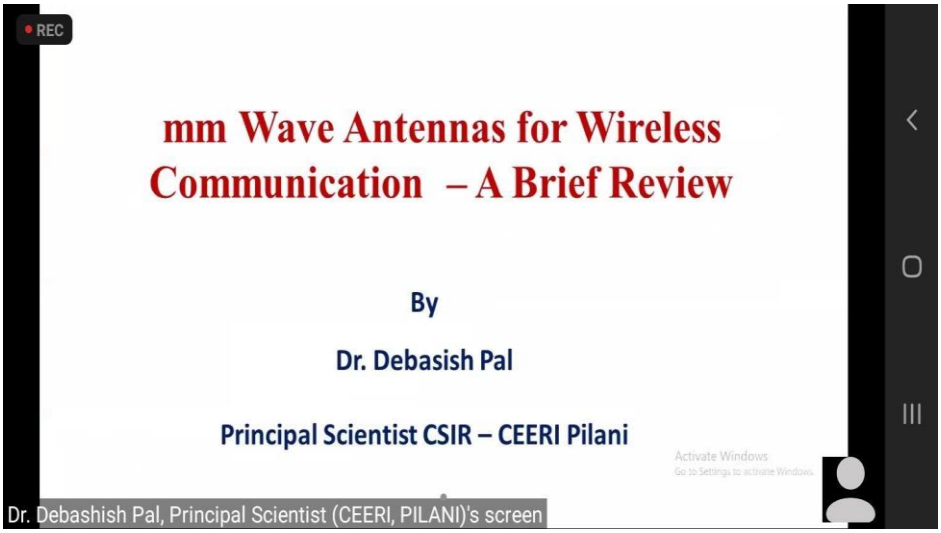
Dr. Mahesh Bundele
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Expert Talk-2

Topic: mm Wave antennas for wireless communication

Resource Person: Dr. Debashish Pal (Principal Scientist, CEERI, PILANI)

Venue: online Via Zoom



Session Delivered by Dr. Debashish Pal



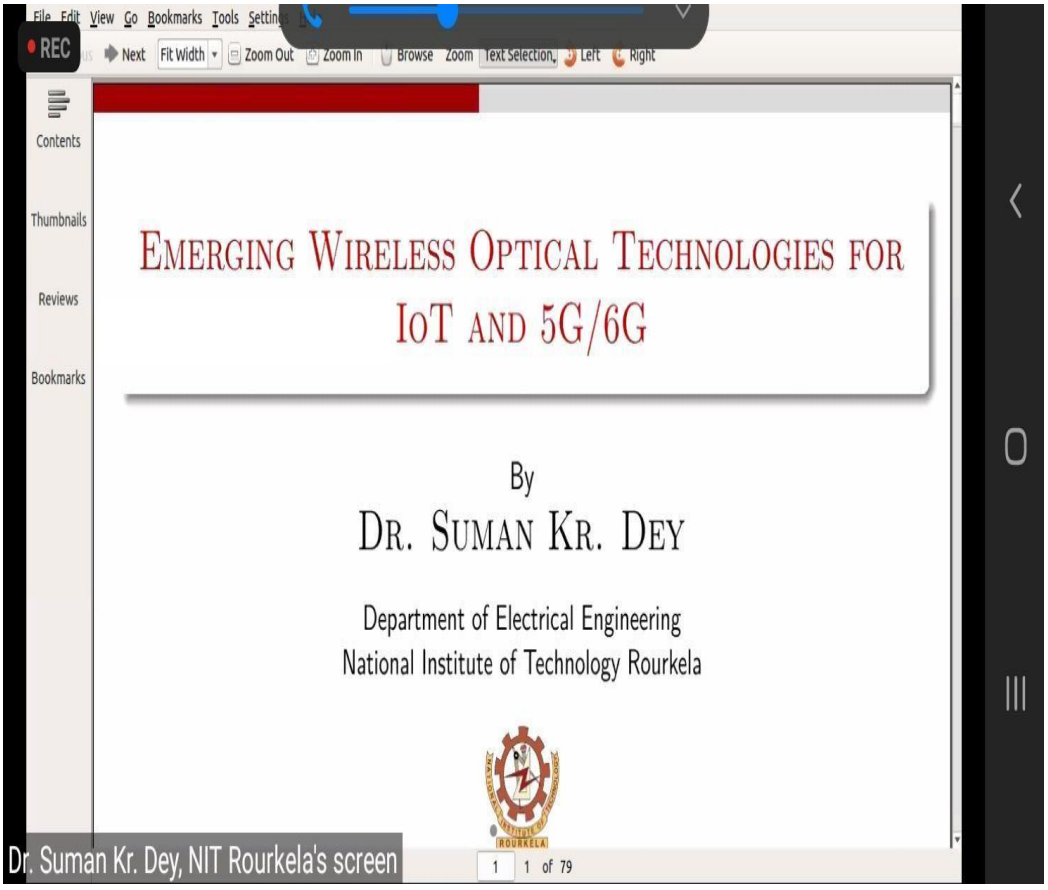
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Expert Talk-3

Topic: Emerging wireless optical technologies for IoT and 5G/6G

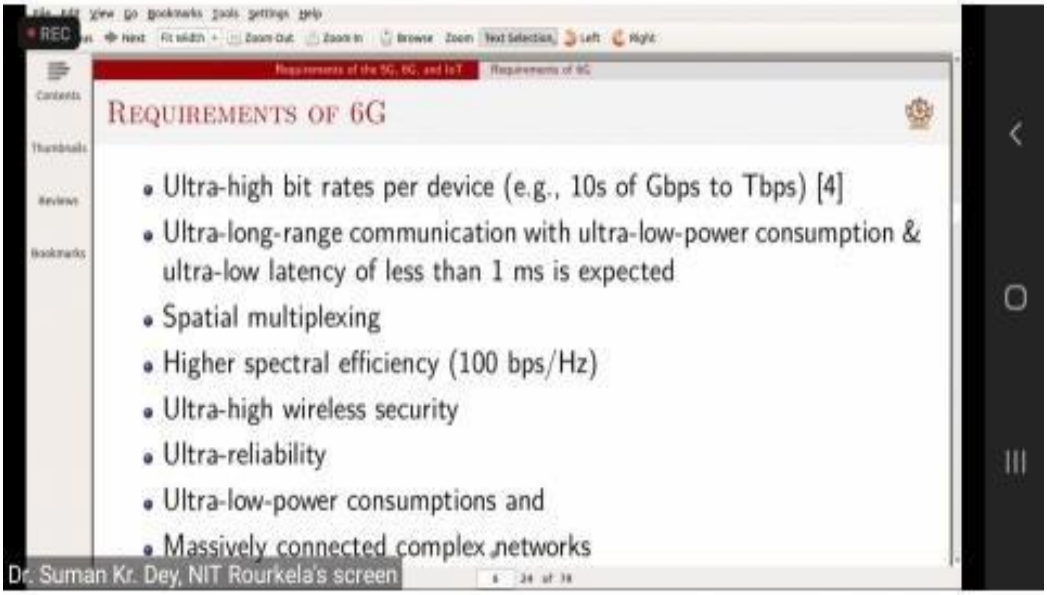
Resource Person: Dr. Suman Kr. Dey (NIT Rourkela)

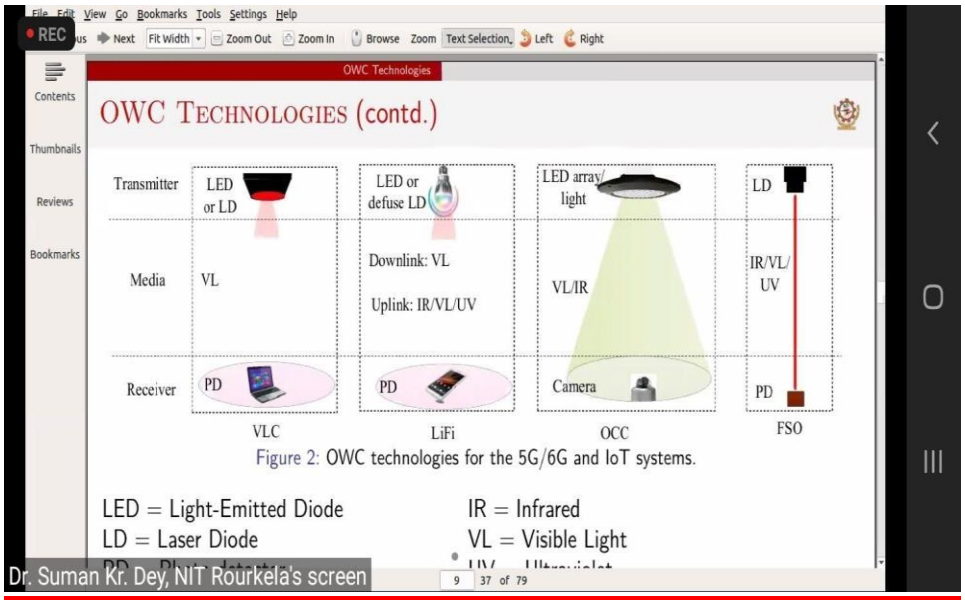
Venue: online Via Zoom



Session delivered by Dr. Suman Kr. Dey

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VALEDICTORY SESSIONS:

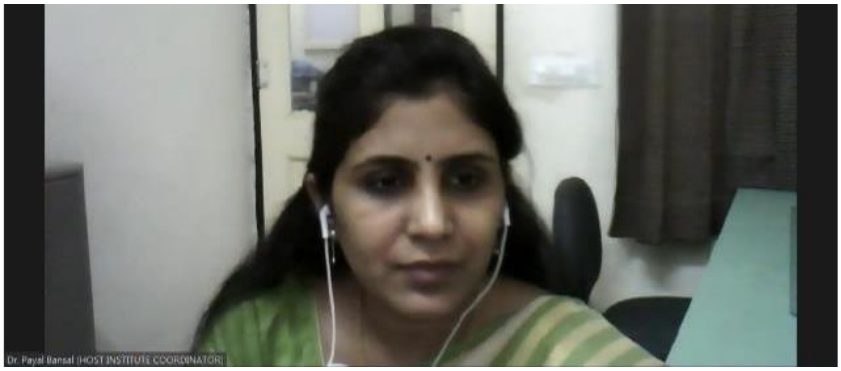
Dr. Mahesh Bundele
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Address by Dr. Mahesh M. Bundele





Report presented by Dr. Garima Mathur



Vote of Thanks by Dr. Payal Bansal

Dr. Mahesh Bundele
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Director
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Certification Distribution

After an online quiz & attendance criteria, certificates are distributed to 82 participants in total. The format of certificate & the final list of participants is attached here for reference-



Four Days TEQIP-III Sponsored Faculty Development Programme
on
Mobile Robotics & Internet of Things
Organised By
Rajasthan Technical University, Kota
Poornima College of Engineering, Jaipur

Certificate

Ref No. /2020

This is to certify that Dr./Mr./Ms. RAKESH KUMAR *of* Poornima College of Engineering, Jaipur *has participated in the four days Faculty Development Programme on "**Mobile Robotics & Internet of Things**" held from 16/09/2020 to 19/09/2020 at Poornima College of Engineering, Jaipur.*

Mr. Pankaj Kumar
Coordinator
(RTU, Kota)

Dr. Paval Bansal
Coordinator
(PCE, Jaipur)

Dr. Mahesh Bundele
Director/ Principal
(PCE, Jaipur)

LIST OF PARTICIPANTS:

S.No.	Name of Participants	Affiliation
1	DR. SONAL SHARMA	Poornima College of Engineering,Jaipur
2	DR.PARESH JAIN	SGVU, Jaipur
3	G HARI KRISHNAN	Sree Vidyanikethan Engineering College, Tirupati, Andhra Pradesh
4	GAJENDRA SINGH CHAWDA	IIT Jodhpur
5	GAURAV SAXENA	Poornima College of Engineering
6	GAURAV KAPOOR	Modi Institute of Technology
7	GHUFRAN KHAN	I-Nurture Education Pvt ltd, Banglore
8	DR HIMANI GOYAL SHARMA	Poornima College of Engineering
9	ISHITA CHAUHAN	Poornima college Of Engineering, Jaipur
10	KALPANA MEENA	Rajasthan technical University
11	KAMLESH GAUTAM	Arya Institute of Engineering Technology and Management, Jaipur
12	KANA RAM MALI	Rajasthan Technical University, Kota
13	KRUSHNA CHANDRA SAHOO	Dreims Aotonomous Engineering College, Cuttack
14	KUSUM YADAV	JECRC Jaipur
15	LAKSHYA RUSTAGI	Poornima college of engineering
16	LOKESH DASHORA	Laxmi Builders Private limited
17	MADHU JAIN	Jaypee Institute of Information Technology, Noida
18	MANISH SHARMA	Poornima College of Engineering, Jaipur
19	MANISH SHARMA	Department of Information Technology and Communication, Govt. of Rajasthan
20	MANISH DUBEY	Poornima College of Engineering, Jaipur
21	MANISH SHARMA	Apex institute of engineering and technology

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22	MANISHA KUMAWAT	Poornima College of Engineering, Jaipur
23	MOHIT SONI	Poornima College of engineering
24	MUKESH CHAND	Poornima College of Engineering, Jaipur
25	NEHA	Poornima college of engineering
26	OM PRAKASH KUMAWAT	IEI Kolkata
27	PABITRA KUMAR NAYAK	Synergy Institute of Engineering and Technology, Dhenkanal
28	PANKAJ DADHEECH	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
29	PRUTHWIJEET PATNAYAK	NPTI, NAGPUR
30	RAHUL RATHI	Poornima College of Engineering
31	RAHUL SHARMA	Poornima College of Engineering
32	RAJ KUMAR JAIN	Poornima college of engineering
33	RAMESH CHAND MEENA	STPI, Ministry of Electronics and IT
34	RAVI PRAKASH MEGHWANSHI	Rajasthan Technical University, Kota
35	REENAL JAIN	UBS
36	RIYANSHI JAIN	Rajasthan Technical University, Kota
37	SAKSHI TIWARI	Arya college of engineering &IT
38	SANA FIROZ	Poornima college of engineering
39	SHEFALI SHARMA	Jaipur National University
40	SHIKHA SHRIVASTAVA	Jaipur Engg College and Research Centre
41	SHIVALI SISODIYA	Rajasthan Technical University Kota
42	SHUBHAM SHARMA	Rajasthan technical Univercity
43	SUMIT KUMAR MANNA	Vidyasagar Metropolitan College
44	SUNIL KUMAR MAHAPATRO	Regional College for Education, Research and Technology, Sitapura, Jaipur, Rajasthan
45	SURBHI SHRINGI	Rajasthan Technical University Kota
46	SUSANTA SARANGI	Ietr Soa Deemed To Be University, Odisha
47	SUSHANTA KUMAR SETHY	DRIEMS Autonomous Engineering College
48	SUSHMA SHESHADRI	Mharaj Institute of technoplogy
49	TARUN MISHRA	Poornima College of Engineering
50	VINIT SHAH	
51	ANKITA MEENA	Rajasthan Technical University, Kota
52	MONIKA MATHUR	Research Scholar
53	MS. KHUSHI YADAV	Shivam ITI Pvt. Ltd.
54	SAURABH CHOPRA	M.B.M. Engineering College, Jodhpur
55	VIJAY DEEP GUPTA	Poornima College Of Engineering
56	ASHISH VIJAY	Allen Carrier Institute

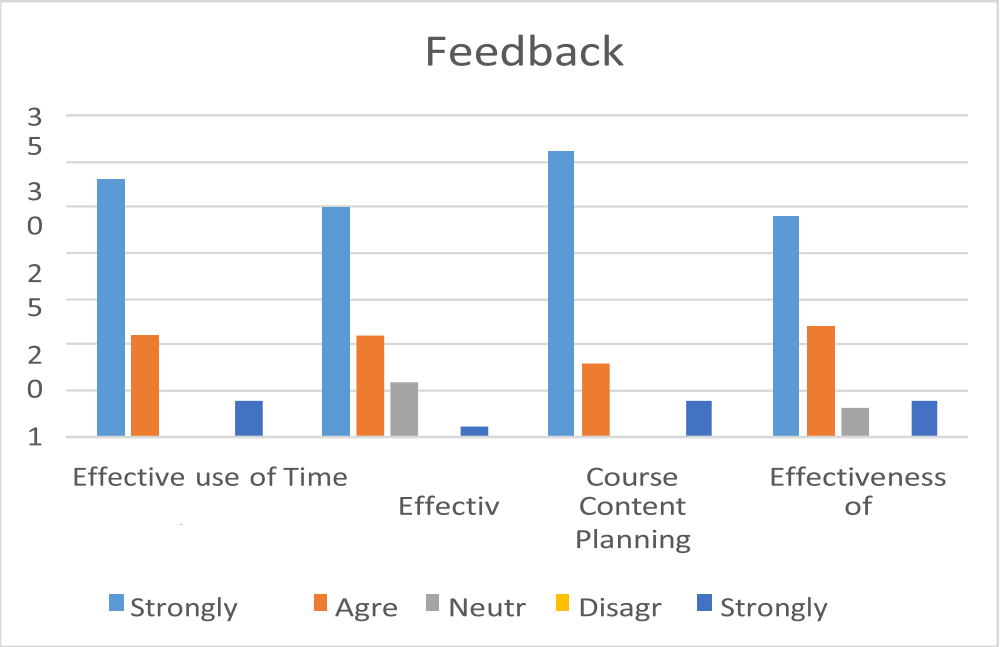
Online feedback

- Virtual feedback and views shared by the participants about the FDP. The FDP has successfully fulfilled the objectives of the FDP set forth. All the participants in their oral feedback have given positive remarks in all respects and shown their satisfaction with all the arrangements and the time management.

Dr. Mahesh Bundele
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ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

FEEDBACK ANALYSIS:

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands-on Sessions
Strongly Agree	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



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A Report on Faculty Development Program

- **TITLE AND DURATION:** "Recent Advances in Power Electronics Drive and Renewable Energy" from September 15-19, 2020.

- **SUPPORTERS:** TEQIP-III.

- **ORGANIZERS:** Electrical Engineering Department, Poornima College of Engineering, Jaipur.

- **BROCHURE / POSTER / LEAFLET / FLYER:**



IEEE EXECUTIVE COMMITTEE

Dr. Rohit Bhakar	Chairperson
Dr. Soumava Mukherjee	Vice-Chair
Dr Sanjeev Yadav	Secretary
Dr. Sandeep Vyas	Treasurer

PCE ACADEMIC COMMITTEE

Er. Pankaj Dhemla	Vice-Principal, PCE
Dr. Rekha Nair	Dean, I Year, PCE
Dr. Amit Shrivastava	Professor, PCE
Dr. Babita Jain	Professor, PCE
Dr. Deepika Chauhan	Professor, PCE
Dr. Himani Goyal Sharma	Professor, PCE
Dr. Neeraj Tiwari	Professor, PCE
Dr. Pravin Machhindra Sonwane	Professor, PCE
Dr. Sunil Gupta	Professor, PCE
Dr. Ranjeet Kumar	Associate Professor, PCE
Dr. Vijay Kumar Gale	Associate Professor, PCE
Dr. Gaurav Jain	Assistant Professor, PCE
Mr. Brijraj Singh Solanki	Associate Professor, PCE
Ms. Ekata Sharma	Associate Professor, PCE
Mohammad Asif Iqbal	Associate Professor, PCE
Mr. Gaurav Srivastava	Assistant Professor, PCE
Mr. Mahesh Kumar Meena	Assistant Professor, PCE
Mr. Mayank Sharma	Assistant Professor, PCE
Mr. Pankaj Gakhar	Assistant Professor, PCE

Resource Persons

The Resource Persons for the FDP will be Eminent Professors and Experts in the area of Power Electronics, Drive and Renewable Energy from IITs, IIITs, NITs, Industry and other Esteemed Institutions.

Eligibility

This course is open to all the Faculty Members of AICTE Approved Institutions, Research Scholars, and Persons working in R&D organizations or Industry. Number of participants for FDP are limited. All the sessions will be conducted online only.

Registration and Fee Particulars

- There is no registration fee for faculty from AICTE approved Institutions, Participants from Industry, and Research Scholars.
- Registration for the program may be done by filling the Registration Form online, Reg. Link: **https://forms.gle/cqjk5PoEVCAMgLYp8**

IMPORTANT DATES

Last date of recipient of application	September 11, 2020
Intimation of selection by mail	September 13, 2020
FDP duration	September 15-19, 2020

Correspondence

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Poornima College of Engineering
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Venue
Department of Electrical Engineering
Poornima College of Engineering
ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022
www.pce.poornima.org

TEQIP-III SPONSORED
One Week FDP
on
Recent Advances in Power Electronics Drive and Renewable Energy
September 15-19, 2020

In Association with
IEEE
RAJASTHAN SUB SECTION

Organized by
Rajasthan Technical University, Kota
&
Department of Electrical Engineering
POORNIMA
COLLEGE OF ENGINEERING
Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

Dr. Mahesh Bundele
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Director
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ISI-6, RIICO Institutional Area
Sitapura, JAIPUR



ABOUT TEQIP-III

The Project, 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 to improve their policy, academic and management practices.

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 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech. 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

Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

Department of Electrical Engineering

The Journey of Department of Electrical Engineering was started in year 2000 with Poornima College of Engineering, Jaipur. The department has its major share in the entire PF with the total intake of more than 600 students. We are providing all the amenities of infrastructure related to knowledge, research, experiments and training of multiple professions.

The department has organized various workshops, seminars, expert lectures in this session i.e. workshop on PLC SCADA, MATLAB, Renewable Energy, Industrial Automation, etc. The department has been taking initiatives for versatile enhancement of the students through technical, cultural and sports fests since the establishment. Most of our final year students have been placed in Infosys, Capgemini India Ltd., FACE, Gram Power, Adani Power, KSTPS, Pinnacle Infotech solutions, etc.

COURSE CONTENTS

Applications of power electronics are expanding at a high pace in industrial power generation, utility, grid integration, and transmission environments due to the advancements in technology and reduction in cost and size of the components and systems. The growth of power electronics starting from semiconductor type switching devices to various multistage topologies which will extensively contribute to the development and growth of renewable energy resources around the globe. It is a fact that power electronics is an integral part of renewable energy generation and utilization and its optimization of size, cost, and performance is necessary for the most efficient harvesting. Individual sources of renewable energy resources interfaced with multistage of power electronic systems are also popular.

Topics to be covered

- Role of Converters/ Inverters for Green Energy System
- Control Applications to the Renewable Energy Systems
- Solar Photovoltaic Systems-Current Trends and Challenges
- Electric Vehicle and Hybrid Electric Vehicle
- Topologies and Control of Wind Energy Conversion Systems
- Short Term Wind Forecasting using Statistical Models
- Wind Farm Layout Optimisation
- Solar Parks Integration
- Efficient Hybrid Energy System

Objectives of the FDP

- To equip teachers with skills and knowledge in the field of Power Electronics, Drive and Renewable Energy. This is essential for inculcating learning values in students and guiding & monitoring their progress towards their career.
- To make the faculty members to train the students to create interest towards the field of Power Electronics, Drive and Renewable Energy and also familiarize the students with the practical aspects of this field and gradually teach them the industrial usage for the same.

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 Mathur

RTU EVENT COORDINATOR
Dr. Mahendra Lalwani (RTU, Kota)

RTU (ATU) TEQIP-III COMMITTEE

Dr. Harish Sharma	Nodal officer
Prof. D. K. Sambariya	Nodal Officer Procurement
Dr. S. D. Purohit	Nodal Officer Finance
Sr. Irum Alvi	Conderence
Mr. Santosh Sharma	Expert Lecture
Mr. Anshul Bansal	GATE & Induction
Mr. Dinesh Kumar	Workshop

HOST INSTITUTE COORDINATORS

Dr. Virendra Sangtani	Professor, EE, PCE
Mr. Devendra Kumar Doda	Assistant Professor, EE, PCE

- **PROGRAM SCHEDULE:**

Programme Outline	
Tuesday, Day 1: 15 September, 2020	
10.00 am – 10.30 am	**Inaugural Function** • **Prof. R. A. Gupta,** Hon'ble Vice Chancellor, RTU Kota **(Chief Guest)** • **Dr.Yogesh D. Sonawane,** Assistant General Manager, Reliance Industries Limited, Mumbai **(Guest of Honour)** • **Prof. (Dr.) DhirendraMathur,** RTU (ATU) TEQIP-III, Coordinator,RTU, Kota**(Guest of Honour)** • **Dr.MahendraLalwani,** RTU Event Coordinator, RTU, Kota • **Ar. Rahul Singhi,** Director,Poornima Group, Jaipur • **Dr. Mahesh Bundele,** Director & Principal, Poornima College of Engineering, Jaipur • **Er. PankajDhemla,** Vice-Principal, Poornima College of Engineering, Jaipur • **Dr Rekha Nair,** Dean, I Year, Poornima College of Engineering, Jaipur • **Dr.VirendraSangtani,** HOD, Department of Electrical Engineering, PCE, Jaipur
10.30 am -12.00 noon	**Session-1** **Topic**:Electric Vehicle and Hybrid Electric Vehicle: A Sustainable Transportation System for Indian Scenario **Resource Person:**Dr.Sanjay Kumar Maurya, Associate Professor, GLA University, Mathura, UP
12.00 - 01.00 pm	**BREAK**

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01.00 pm - 02.30 pm	**Session-2** **Topic:** Wind Farm Layout Optimisation **Resource Person:**Mr.Jagdish Chand Bansal, Associate Professor, South Asian University, Delhi

Programme Outline	
Wednesday, Day 2: 16 September, 2020	
10.30 am - 12.00 noon	**Session-3** **Topic:**Efficient Hybrid Energy System **Resource Person:**Dr. Ajay Kumar Bansal, Dean, School of Engineering and Technology, Central University of Haryana
12.00 -01.00 pm	**BREAK**
01.00 pm - 02.30 pm	**Session-4** **Topic:**Topologies and Control of Wind Energy Conversion Systems **Resource Person:**Dr. HemantAhuja, Professor, ABES Engineering College, Ghaziabad
Programme Outline	
Thursday, Day 3: 17 September, 2020	
10.30 am - 12.00 noon	**Session-5** **Topic:**Control Applications to the Renewable Energy Systems **Resource Person:**Dr. Bhanu Pratap, Assistant Professor, Department of Electrical Engineering,NIT,Kurukshetra
12.00 -01.00 pm	**BREAK**
01.00 pm - 02.30 pm	**Session-6** **Topic:**Micro grid: Application of Advanced Power Electronics **Resource Person:**Dr. Manoj Rathi, Founder, Research Centre for Sustainable Solutions (RCSS) Pvt. Ltd., Enerzies, Nashik, Maharashtra

Programme Outline	
Friday, Day 4: 18 September, 2020	
10.30 am - 12.00 noon	**Session-7** **Topic:**Solar Photovoltaic Systems-Current Trends and Challenges **Resource Person:**Dr. AshishShrivastava, Professor, Department of Electrical Engineering, Manipal University, Jaipur
12.00 -01.00 pm	**BREAK**
01.00 pm - 02.30 pm	**Session-8** **Topic:** Role of Converters/ Inverters for Green Energy System **Resource Person:** Dr. Anshul Agarwal, Associate Professor, NIT, Delhi

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Programme Outline	
Saturday, Day 5: 19 September, 2020	
10.30 am - 12.00 noon	**Session-9** **Topic:**Solar Parks Integration in Rajasthan Power System : A Case Study **Resource Person:**Dr. M. P. Sharma, Assistant Engineer, Rajasthan RajyaVidyutPrasaran Nigam Limited Jaipur
12.00 -01.00 pm	**BREAK**
01.00 pm - 02.30 pm	**Session-10** **Topic:**Short Term Wind Forecasting using Statistical Models **Resource Person**:Dr.Kailash Chand Sharma ,Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab
02.30 pm – 03.00 pm	**Closing & Feedback Session**

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⬧ EXPERT DETAILS:

Expert-1
Name: Dr. Bhanu Pratap
Designation: Assistant Professor
Department: Electrical Engineering
Organization Name: National Institute of Technology Kurukshetra
Email ID: bhanu@nitkkr.ac.in

Expert-2
Name: - Dr.AshishShrivastava
Designation: - Professor
Organization Name: - Manipal University Jaipur
Email ID: - ashish.shrivastava@jaipur.manipal.edu

Expert-3
Name; - Dr.Anshul Agarwal
Designation: - Assistant Professor
Organization Name: - NIT Delhi
Email id: - anshul@nitdelhi.ac.in

Expert-4
Name: Dr. Sanjay Kumar Maurya, PhD
Designation: Associate Professor
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Expert-5
Name: Dr. HemantAhuja
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Email: hoden@abes.ac.in

Expert-6
Name: Dr. Kailash Chand Sharma
Designation: Assistant Professor
Organization Name: Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab
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Expert-7
Name: Dr. Jagdish Chand Bansal
Designation: Associate Professor
Organization Name: South Asian University, Delhi
Email Id (Organizational): jcbansal@sau.ac.in

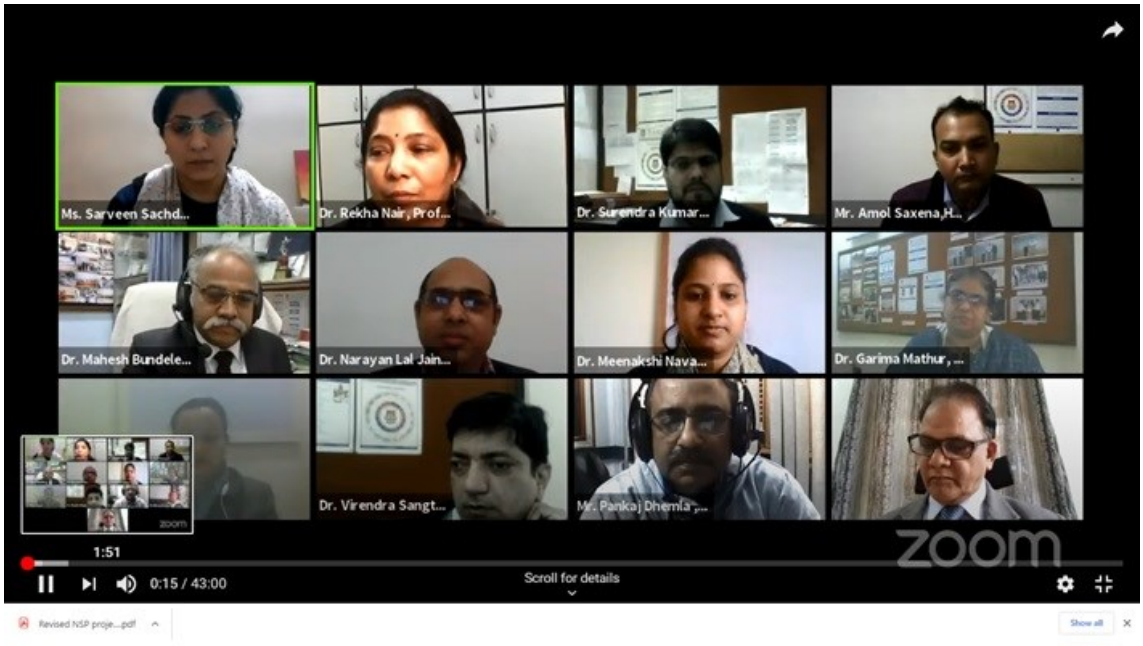
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Expert-8
Name: Dr. M. P. Sharma
Designation: Assistant Engineer
Organization Name: Rajasthan RajyaVidyutPrasaran Nigam Limited Jaipur
Email Id: Mahavir_sh@rediffmail.com

Expert-9
Name: Dr. Ajay Kumar Bansal
Designation: Dean, School of Engineering and Technology
Organization Name: Central University of Haryana
Email Id: ajaybansal@cuh.ac.in, deansoet@cuh.ac.in

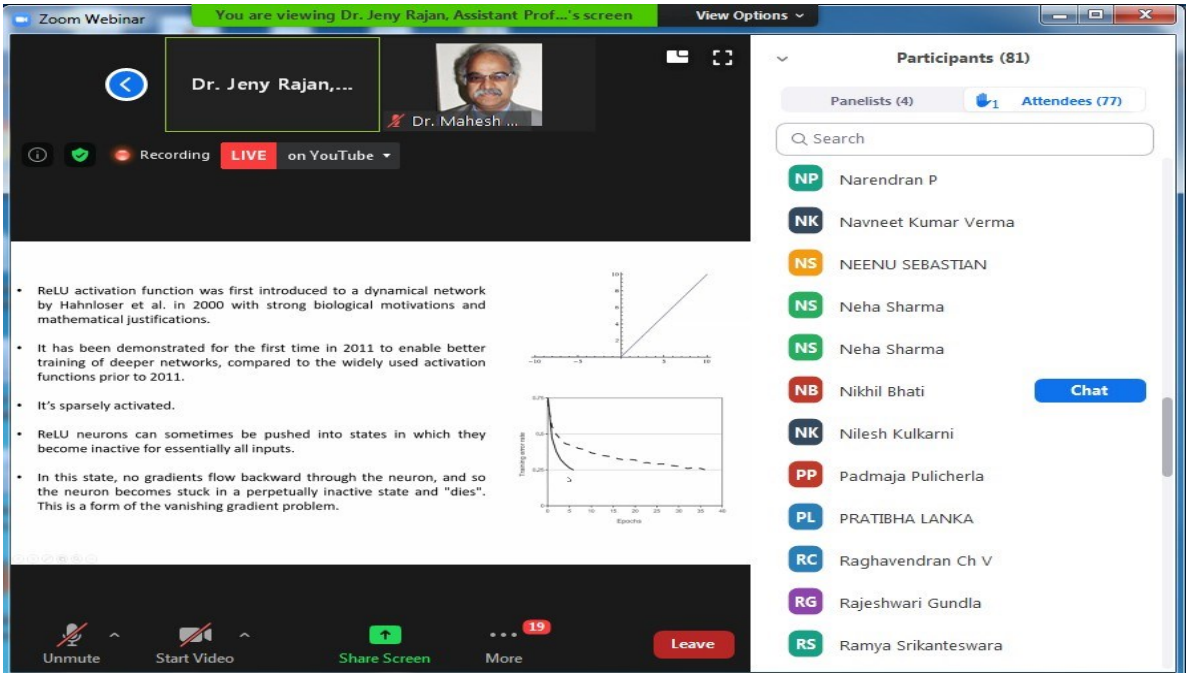
Expert-10
Name: Dr. Manoj Rathi,
Designation: Founder
Organization Name: Research Centre for Sustainable Solutions (RCSS) Pvt. Ltd., Enerzies, Nashik, Maharashtra
Email Id: manojrathi@rcssgroup.com

GLIMPSES OF THE ONLINE SESSION:

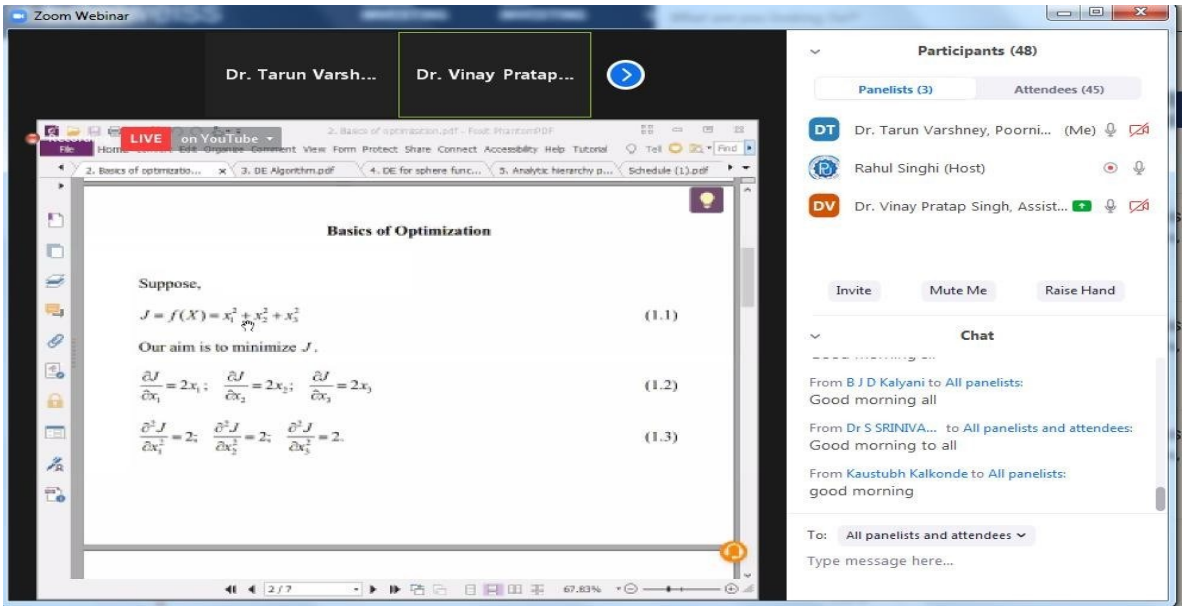


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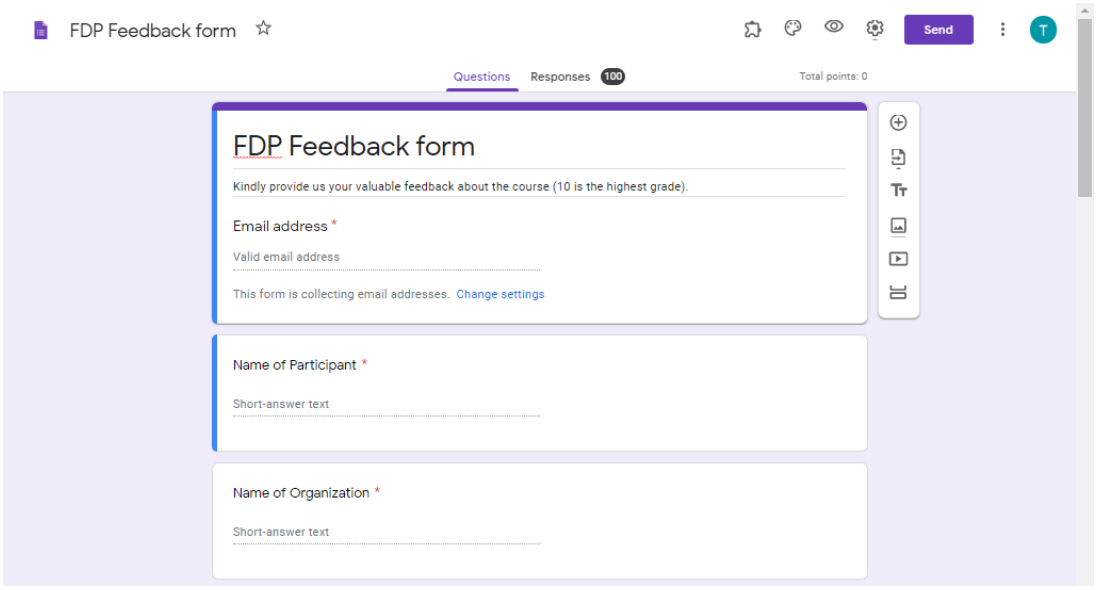


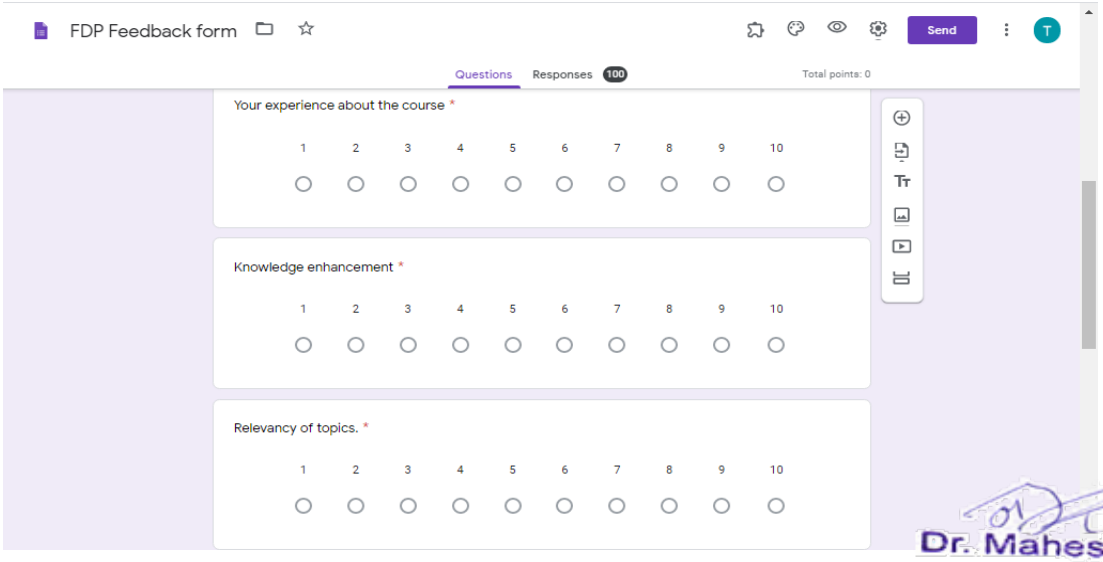


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- **FEEDBACK FORM FORMAT:**





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Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

- **CERTIFICATE FORMATE:**

One Week TEQIP III Sponsored Online Faculty Development Programme
on
"Recent Advances in Power Electronics Drive and Renewable Energy"
In association with
IEEE
RAJASTHAN SUB SECTION
Organised By
Rajasthan Technical University, Kota
&
Poornima College of Engineering, Jaipur

Certificate

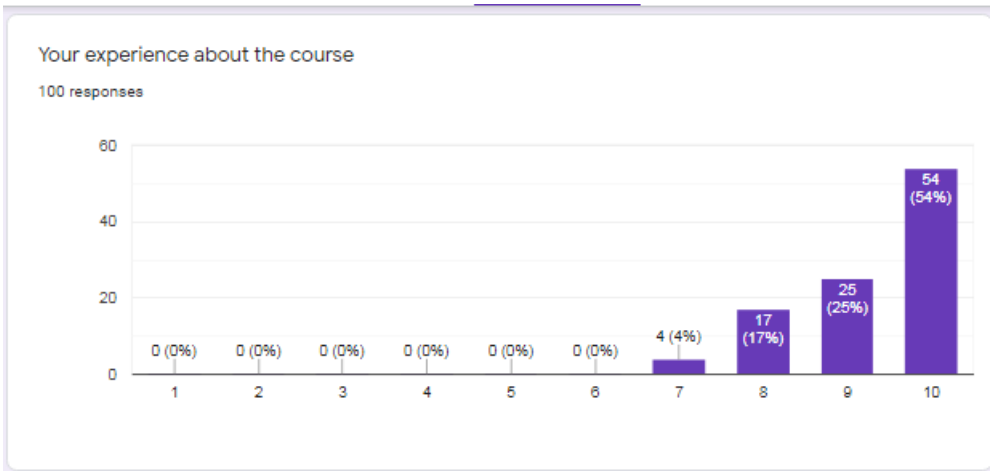
This is to certify that Name *of*
College Name *has participated in the one week*
Faculty Development Programme on **"Recent Advances in Power Electronics Drive and Renewable Energy "**held *from* 15.09.2020 *to* 19.09.2020 .

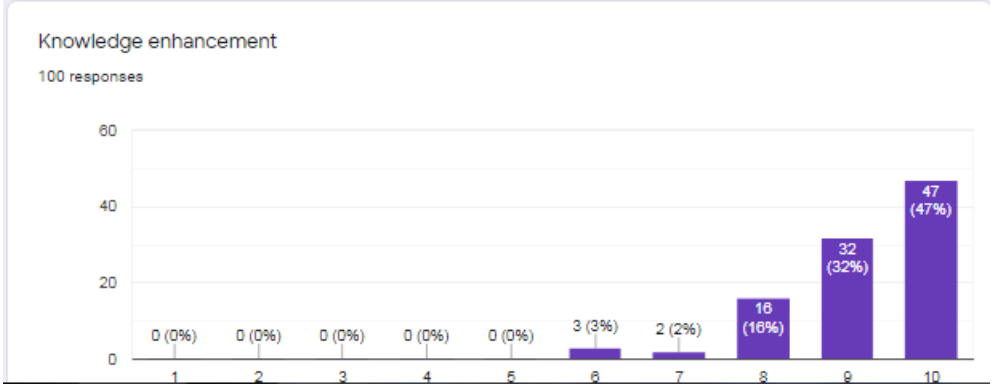
Coordinator
RTU, Kota

Coordinator
(Poornima College of Engineering, Jaipur)

Director & Principal
(Poornima College of Engineering, Jaipur)

- **FEEDBACK ANALYSIS:**





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Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

LIST OF PARTICIPANTS:

S. No	Participant Name
1	AyushGoyal
2	Mukesh Chand
3	Tushar Sharma
4	Rajendra Singh
5	P. Bambhu
6	Pinky Sharma
7	Amit Jain
8	Pushpendra
9	DivyaRastogu
10	PrashantChahar
11	Sayeeda
12	AnkitaChoudhary
13	MangalaPatil
14	Thosara
15	Trilok Chand
16	V S Meera
17	ShubhamPatwari
18	Anil Bhargava
19	Vishnu Shamra
20	Vaibhav Jain
21	Poojajain
22	Man mahendra Singh
23	Dasmanarini
24	Uttam Gupta
25	VivekSharna
26	Vidvi
27	Suresh sharma
28	Raj kumar Jain
29	Keerthikumar
30	Manju
31	ChhaviSaxena
32	Krishna Reddy
33	Deepikasharma
34	Garmima Gupta
35	Manoj
36	Gauravsharma
37	BhumikaGoyal
38	Surendra Sharma
39	Ali Shoyeb
40	Bhaskar Sharma
41	ManSinghMeena
42	UshaKushwah
43	SushilPrajapati
44	MohitMahawar
45	Dinesh Jatav
46	Sunil Jangid
47	P K Sharma
48	Gunjan Dixit
49	Sanju Gupta
50	PmakajKhandelwal
51	HemantSrivastava
52	Naresh Kumar
53	Suneetha
54	Anand Sharma

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

A Report on One week Faculty Development Program

TITLE AND DURATION: "Industry 4.0" from 14 – 18 September, 2020.

SPONSORS: TEQIP-III, Rajasthan Technical University Kota.

SUPPORTERS: Rajasthan Technical University Kota.

ORGANIZERS: Rajasthan Technical University, Kota and Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES: The event aims to provide a forum to exchange views, ideas of latest innovations in the field of manufacturing and industry.

EXPECTED OUTCOMES:

- To provide research-oriented discussion along with theoretical concepts, which shall facilitate the understanding of process through practical implementation in area of manufacturing and industry.
- Bringing together the experts of industry, technologists, enthusiasts, and faculty to discuss the Latest issues and possible solutions.
- Identifying Industry challenges and sensitize about latest trends and technologies.

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

BROCHURE / POSTER / LEAFLET / FLYER:

FDP COMMITTEE

CHIEF PATRON

Prof. R. A. Gupta

Honorable Vice-Chancellor, RTU, Kota

PATRONS

Dr. S. M. Seth
Chairman (Emeritus) Poornima Group

Ar. ShashikantSinghi
Chairman, Poornima Group

RTU (ATU) TEQIP-III COORDINATOR

Prof. Dhirendra Mathur

RTU (ATU) TEQIP-III COMMITTEE

Dr. Harish Sharma (Nodal officer)

Prof. D. K. Sambariya (Nodal Officer Procurement)

Dr. S. D. Purohit (Nodal Officer Finance)

RTU EVENT COORDINATOR

Dr. B.D.Gidwani

Mech. Engg. Dept.

Rajasthan Technical University, Kota

HOST INSTITUTE PRINCIPAL

Dr. Mahesh Bundele

Principal & Director, Poornima College of Engineering

HOST INSTITUTE COORDINATOR

Dr. Yashpal, Associate Professor

Mr. Kalpit Jain, Assistant Professor

Mr. Sanjay Kumawat, Assistant Professor

RESOURCES PERSONS

The resources person for the FDP will be Eminent Professors and Experts in the area of Industry 4.0 from IITs, NITs and Industries.

ELIGIBILITY

This course is open to all the Faculty Members of AICTE Approved Institutions, Research Scholars, and Persons working in R&D organizations or Industry. Number of participants for FDP is limited.

All the sessions will be conducted online only.

REGISTRATION &FEE PARTICULARS

- There is no registration fee for faculty from AICTE approved institutions, Participants from industry and research scholar.
- Registration for the program may be done by filling the registration form online via: https://tinyurl.com/Industry4FDP2K20
- E-certificates will be provided after completion of programme, minimum 80% attendance is required.

CORRESPONDENCE

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Mech. Engg. Dept.
Rajasthan Technical University, Kota

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Mr. Kalpit Jain
Email ID: kalpit.jain@poornima.org
Call: +91-9571255627

Mr. Sanjay Kumawat
Email ID: sanjay.kumawat@poornima.org
Call: +91-9784384269

TEQIP-III SPONSORED

One week

Faculty Development Program

on

INDUSTRY 4.0

(14th – 18th September 2020)



COORDINATORS

Dr. B.D.Gidwani	**Dr. Yashpal**
RTU, Kota	**PCE, Jaipur**

ORGANIZED BY

Rajasthan Technical University, Kota
&
Poornima College of Engineering, Jaipur

Department of Mechanical Engineering,
Poornima College of Engineering,
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ABOUT TEQIP-III

The Project, third phase of Technical Education Quality Improvement Program (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 to improve their policy, academic and management practices.

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 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M. Tech. 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

Poornima 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 success. Its accomplishments forecast its journey through the hardships and its triumph over them one after another. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet.
- Affiliated to RTU, Kota & approved by AICTE, New Delhi.
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI).
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM.

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering of PCE came into existence in the year 2004 with analignment of the department's evolution with key events and technological advances for the betterment of society and nation. At present, it has the intake of 120 students providing all the amenities of infrastructure related to knowledge, research, experiments and training of multiple professions.

ABOUTINDUSTRY 4.0

Industry 4.0 is a part of the fourth industrial revolution. The terms industry 4.0 and fourth industrial revolution are often used interchangeably. Industry 4.0 refers to the concept of factories in which machines are augmented with wireless connectivity and sensors, connected to a system that can visualize the entire production line and make decisions on its own.

In essence, industry 4.0 describes the trend towards automation and data exchange in manufacturing technologies and processes which include internet of things (IoT), industrial internet of things (IIOT), machine learning and artificial intelligence.

TOPICS TO BE COVERED

- Industry 4.0: Challenges & Opportunities
- Data analytics, Big Data, IOT
- Computer and Automation
- Machine Learning in Manufacturing
- Sensors and Actuation
- Role of Robotics in Industry 4.0
- Artificial Intelligence in Manufacturing
- 3 D Printing
- Connectivity: Supply Chain Management

OBJECTIVES OF FDP

- The objective of the Workshop is to provide exposure to Industry 4.0 concepts which revolutionize the modern manufacturing practices. This concept incorporates interdisciplinary knowledge in artificial intelligence, machine learning, Internet of Things, robotics, sensors and actuators.
- Also to provide comprehensive understanding of various aspects of Industry 4.0, its need, applications & opportunities and to inculcate research interest among the participants on Industry 4.0.
- The Faculty Development Program aims at identifying Industry challenges sensitize about latest trends, technologies, available infrastructure in area of Industry 4.0.

PCE ORGANIZING COMMITTEE

Mr. Pankaj Dhemla	Vice Principal, PCE
Mr. Devendra Somwanshi,	Registrar, PCE
Dr. Narayan Lal Jain	Professor & Head, ME
Dr. P. Umesh Kannan	Professor, ME, PCE
Dr. Rahul Sen	Asso. Professor, ME
Dr. Sagar Kumar	Asso. Professor, ME
Dr. Rajkumar Satankar	Asso. Professor, ME
Dr. Surendra Kumar Saini	Asso. Professor, ME
Dr. Akshay Jain	Asst. Professor, ME
Dr. Bhuvnesh Sharma	Asst. Professor, ME
Mr. Amit Mandal	Asst. Professor, ME
Mr. Bhavesh Devra	Asst. Professor, ME
Ms. Asha Kumawat	Asst. Professor, ME
Mr.Dhananjay Kumar	Asst. Professor, ME
Mr.Shailendra Kasera	Asst. Professor, ME
Mr. Ashwani Kapoor	Asst. Professor, ME
Mr. Buddhi P. Panwar	Asst. Professor, ME
Mr. Ratnesh Sharma	Asst. Professor, ME
Mr.Mahesh Chandra Saini	Asst. Professor, ME
Mr. Rahul Sharma	Asst. Professor, ME

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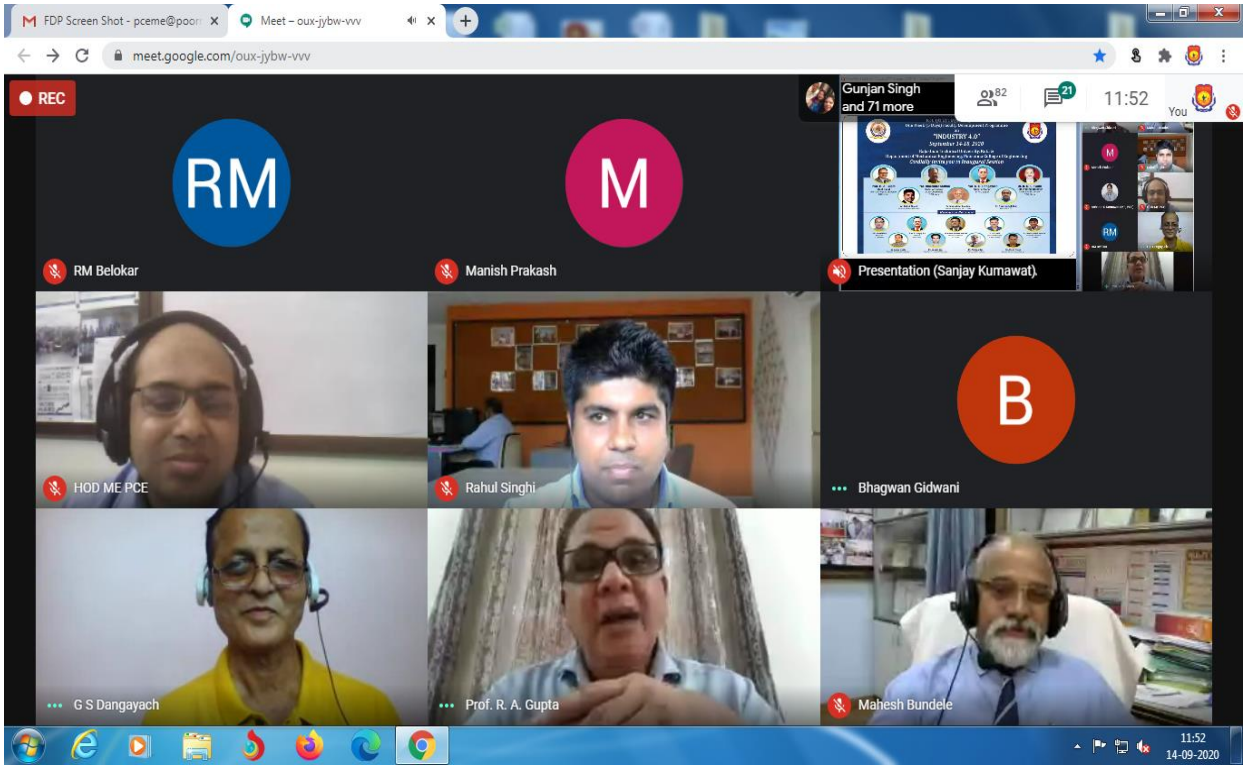
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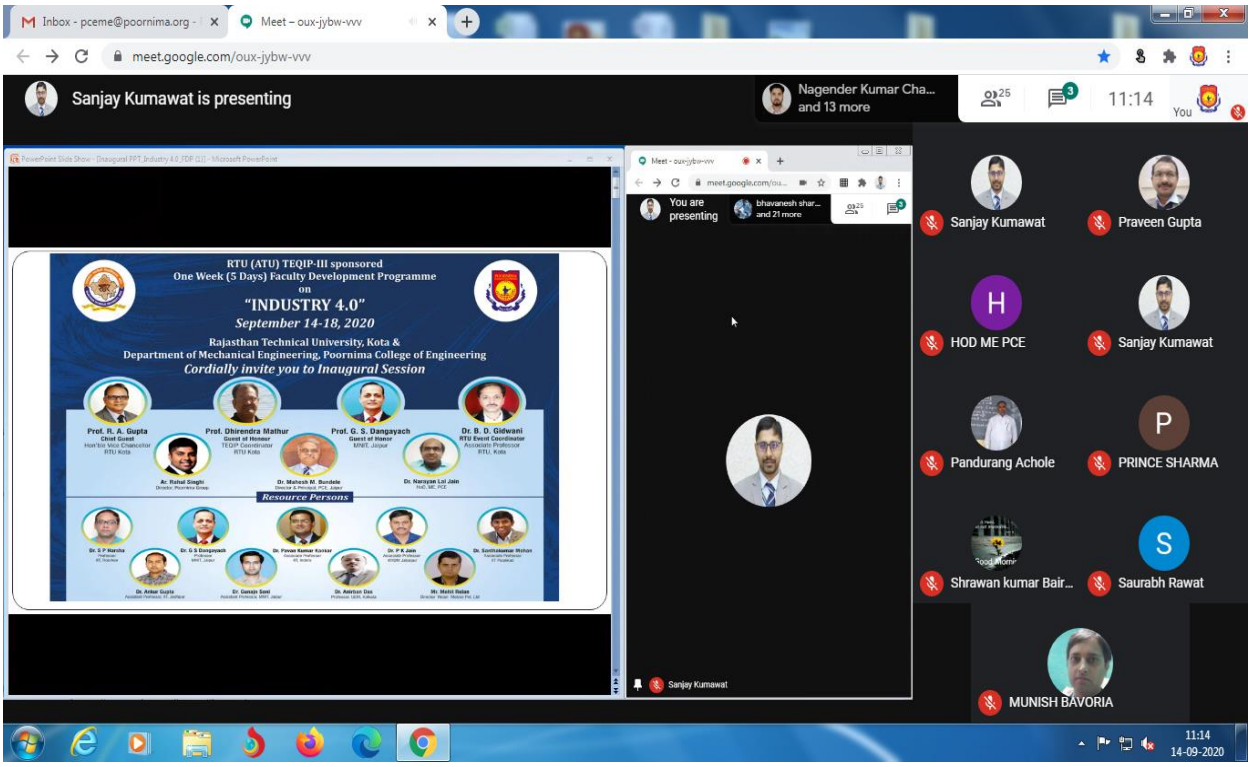
PROGRAM SCHEDULE:



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INAUGURAL SESSION:





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This one week, TEQIP III, RTU (ATU) sponsored online FDP on Industry 4.0 is organized by the Department of Mechanical Engineering, Poornima College of Engineering, Jaipur under the aegis of Rajasthan Technical university, Kota. About Two Hundred Fifty participants from various parts of the country have registered for this Faculty development program. In this FDP, fifteen technical sessions were conducted by the eminent speakers from IITs, NITs and industries.

Programme was initiated by a formal inaugural ceremony in the esteemed presence of Prof. R A Gupta, Honorable vice chancellor of Rajasthan Technical University, Kota; Prof. Dheerendra Mathur, TEQIP-III Co-ordinator, RTU Kota; Prof. G S Dangayach, MNIT, Jaipur; Dr. B. D. Gidwani, Associate Prof. and RTU Event Coordinator of this FDP; Ar. Rahul Singhi, Director, Poornima Group; Dr. Mahesh M. Bundele, Director & Principal, Poornima College of Engineering, Jaipur and other dignitaries of the institute.



DETAILS OF RESOURCE PERSONS:

Dr. Prof. G S Dangayach, MNIT, Jaipur.

Dr Gunjan Soni, Assistant Prof. MNIT Jaipur

Dr Santhakumar Mohan, Associate Prof. from IIT, Palakkad

Dr. Pavan Kumar Kankar from IIT, Indore

Dr. Prashant Kumar Jain, Associate Professor, IIITDM Jabalpur

Dr. Ankur Gupta, Assistant Professor, IIT Jodhpur

Prof. Anirban Das, University of Engineering and Technology (UEM), Kolkata

Mr. Mohit Relan from Relan Motors Pvt. Ltd., Ajmer

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ABOUT THE SPEAKERS:

Dr. Ankur Gupta

Dr. Ankur Gupta is presently an Assistant Professor at Indian Institute of Technology Jodhpur. He



received his Ph.D. degree in Mechanical Engineering from the Indian Institute of Technology Kanpur. He served as Assistant Professor at IIT Bhubaneswar for three years before joining IIT Jodhpur. As foremost credentials, he has over 50 research contributions including a patent, various international journal papers, book chapters, a co-edited book, and over 20 invited talks/presentations across the globe. His research work was presented in several international conferences held in the USA (MRS, California), Canada, Indonesia, China as well as in IIT B, IIT D, IIT BHU, IIT Guwahati, etc. He has won first prize in Electron Microscopy Contest held in 2013 & 2014. He got selected by DST to participate in "2nd BRICS Young Scientist Conclave" held at Zhejiang University, China in 2017. He received the "ISEES Young Scientist Award-2017" and "IEI Young Engineer Award 2020" from the Institution of Engineers (India) in the Production division and nominated for "Distinguished Alumni award" from his alma mater in 2020.

Dr B D Gidwani

Dr BD Gidwani, Associate Professor, RTU Kota. He has done his BE in the year 1991-1995 from



JNV university, Jodhpur. His specaization is Mechanical Engineering. He has done his Masters in the year 2006 from NITTTR Chandigarh in which his specalization was Production Technology.

He was also working As a Research Advisor there. He has completed his Ph. D in the year 2017 from Ak technical University Lucknow in which his specalization is Production and Industrial Engineering. He was also working As a Research Advisor there. Now I would like to request Respected Dr BD Gidwani to enlighten us about this FDP with his words of Wisdom.

Prof. (Dr.) G. S. Dangayach

Dr. Govind Sharan Dangayach is Dean, Planning & Development, Professor in Department of



Mechanical Engineering in Malaviya National Institute of Technology (MNIT), Jaipur. He was graduated in Mechanical Engineering from M.B.M. Engineering College Jodhpur in the year 1984. He obtained Master's degree in Production Engineering from Indian Institute of Technology, Delhi. He earned his Doctorate in Industrial Engineering also at Indian Institute of Technology, Delhi. He has published 244 research papers in various International/National Journals and conferences. He is Editor-in-chief of Journal of Manufacturing Technology Research (An International Journal). He is associate Editor of International Journal of Business Systems Research (IJBSR), and International Journal of Global Business Competitiveness (IJGBC). He is Guest Editor of three International J[illegible] Publication

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Planning & Control (PPC), International Journal of Manufacturing Technology & Management (IJMTM), International Journal of Business Performance Management (IJBPM). He is Reviewer of Thirty Seven International Journals. He is Visiting Professor at DHBW Mosbach, Germany, Asian Institute of Technology (AIT) Bangkok, IIM Khozikode, and IIM Shillong. He delivered several Invited Lectures/ Key note addresses in India & abroad. He has 35 years of Teaching and Industrial Experience. He is Life member of various International & National professional Societies. He has guided 27 Ph.D. & 60 Master's thesis. Prof. Dangayach is Resource person/Expert of AICTE, UPSC and NBA Govt. of India. He has been nominated Member of Board of Management of Rajasthan Technical University by Govt. of Rajasthan. He is Member of BOS, BOG of several Universities in India. He was Chairman of The Institution of Engineers India, Rajasthan State Centre for the session 2014-16. Beside these his other key achievements are:

- Principal Investigator of two DST (Govt. of India) funded Research projects
- Cited in the list of TOP 20 prolific researchers of the world in 2015
- Won 2011 Emerald/IAM Research Fund Award
- Best Case Study award 2012-13 by Indian Institution of Industrial Engineering
- Best Paper Award and Certificate of Merit for 1996-97 by Institution of Engineers (India)

Dr. Gunjan Soni



Dr. Gunjan Soni, Assistant Professor, Mechanical Engineering Department, Malaviya National Institute of Technology, Jaipur. He has completed his PhD from Birla Institute of Technology and Science, Pilani, Rajasthan. He did his M. Tech. in Industrial Engineering from Indian Institute of Technology, Delhi. His research area is Optimization in Supply chain management, Blockchain, Agent based modelling, Multi-plant scheduling. He is having Google scholar 16 h-index: & 987 Citations.

Dr. Gunjan Soni, receive two International Workshop Funding:

- An Advanced Course on Reliability-based Robust Product Design from USA worth amount of $8000 in 2019.
- Circular Manufacturing System from UK worth amount of $8000 in 2020.

Dr. Gunjan Soni conducted Fourteen Number of national workshops. He has guided 7 PhDs and five students are doing PhD under his guidance.

Dr. Prashant K. Jain

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Dr. Prashant K. Jain has over 25 years of research and teaching experience at UG and PG levels. He



is graduated in Mechanical Engineering from Dr. H. S. Gour University Sagar in 1995 and did Master's in Advanced Production Systems from SATI Vidisha. He has received PhD Degree in the area of Rapid Prototyping/Additive Manufacturing, particularly on Part Strength studies in Selective Laser Sintering Process from Indian Institute of Technology Delhi, Delhi in 2009.

Dr. Prashant K. Jain was previously with Delhi Technological University Delhi (formerly known as Delhi College of Engineering) as lecturer in Mechanical Engineering Department. He has also served Indian Institute of Technology Delhi as project scientist and research associate where he was engaged in research work on error compensation in CNC machines and part quality improvement in Fused Deposition Modelling. Currently he is with PDPM IIITDM Jabalpur as Associate Professor and Dean (Students).

He has more than 100 publications to his credit, published in International peer reviewed journals of repute, National and International conferences in India and abroad. He has guided Five PhD's and 25 Master's and several ongoing. He has been a resource person and delivered invited lectures, chaired scientific sessions in several National and International Conferences, STTP's and QIP programs. His research interest extends from Geometric Modelling, CAD/CAM Integration, Incremental Sheet forming, Computational geometry, Rapid Prototyping & Tooling, Incremental sheet forming to Nano Technologies in Manufacturing.

Dr. Pavan Kumar Kankar

Dr. Pavan Kumar Kankar is working as an Associate Professor in Discipline of Mechanical



Engineering. His research interests include fault diagnosis and prognosis using machine learning techniques, reliability, bio-medical signal processing and analysis of dynamical systems. He is having more than 15 years of teaching and research experience. He worked with Villanova University and United Technologies Research Center, USA for effective discrimination between four kinds of common defects in gears by utilizing the method of recurrence analysis. He contributed in various projects awarded by national and international funding agencies under IMPRINT India Initiative by Ministry of Human Resource Development and India-Japan Cooperative Science Programme etc., total worth of Rs. 3.3 crore approx. Dr. Kankar is also a core committee member of Technology Innovation Hub (TIH) on System Simulation, Modelling and Visualization aspects of Cyber-Physical Systems (CPS) at IIT Indore.

Dr. Kankar has established Machine Dynamics and Vibration Lab, UG Computational Lab in IIITDM Jabalpur and System Dynamics Lab at IIT Indore. He organized various short-term courses, workshops and conferences for skill development of students, faculties and participant from industries. He has supervised 6 PhD and 16 M.Tech students. Dr. Kankar is [illegible] of Editorial

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Board of Springer Journal "Life Cycle Reliability and Safety Engineering". He has contributed to more than 100 publications which include journal papers, conference papers, books, and book chapters. He is fellow member of International Institute of Acoustics and Vibration, USA. He is a member of various professional bodies like American Society of Mechanical Engineers, Society for Reliability and Safety (SRESA), Tribology Society of India. His work is having more than 2100 citations.

Dr. Santhakumar Mohan



Dr. Santhakumar Mohan got his Ph.D. (Robotics and Control) from Indian Institute of Technology Madras, Chennai (India) in 2010. From June 2010 to March 2011, he worked as an assistant professor in the Department of Mechanical Engineering at National Institute of Technology Calicut (NITC), Kerala (India). He then worked as World-Class University (WCU) Postdoctoral Fellow at Korean Advanced Institute of Science and Technology (KAIST), Daejeon (Republic of Korea). In 2012, he joined the faculty of the Mechanical Engineering at Indian Institute of Technology Indore. He is holding visiting faculty positions at IISc Bangalore, India, RWTH Aachen, Germany and ECN, France. His active research areas include mobile manipulators, parallel robotic platforms, assistive robots, field and service robots. Furthermore, he has received the outstanding young Scientist for the year 2014 from Korea Robotics Society, Brain Korea 21 (BK21) fellowship (2011-2012), Satellite across virtual institutes (SAVI) fellowship (2013-14), European Master on Advanced Robotics Plus (EMARO+) fellowship (2018-2019) and Alexander von Humboldt (AvH) Fellowship (2016–2017). He has credited 4 patents. Under his guidance 4 Ph.D. has completed and 1 Ph.D. student is under process. He has completed 5 research projects (total approximate cost more than 60 Lakh) of different research organizations like CSIR, DST, NRB and National Research Foundation of Korea, and 5 research projects (more than 5.5 Crore) are undergoing of different research organizations.

Prof Dhirendra Mathur

Prof Dhirendra Mathur completed his PhD from MNIT Jaipur and M.E. from BITS Pilani. His area of Interest are Nano technology and micro electronics. Currently, he is professor of Nano Technology, RTU Kota.



Earlier, he was professor in the Department of Electronics and Communication Engineering at Engineering College Ajmer & Senior scientist at CEERI Pilani. He has published a lot of research papers in International and National Journals.

His Administrative Achievements are:

- He is the Chief coordinator RTU (ATU) TEQIP-III project.

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- He is also the Controller of Examinations in RTU Kota.

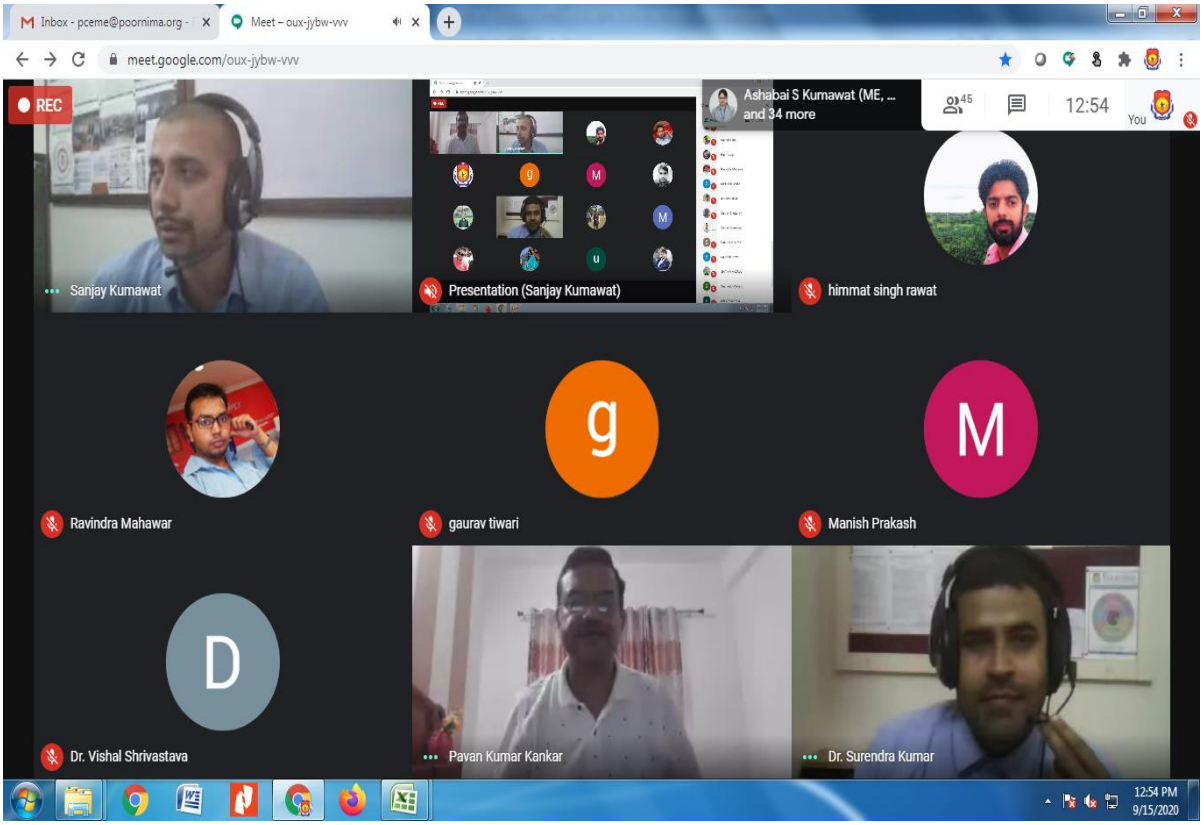
Prof. Dr. Anirban Das



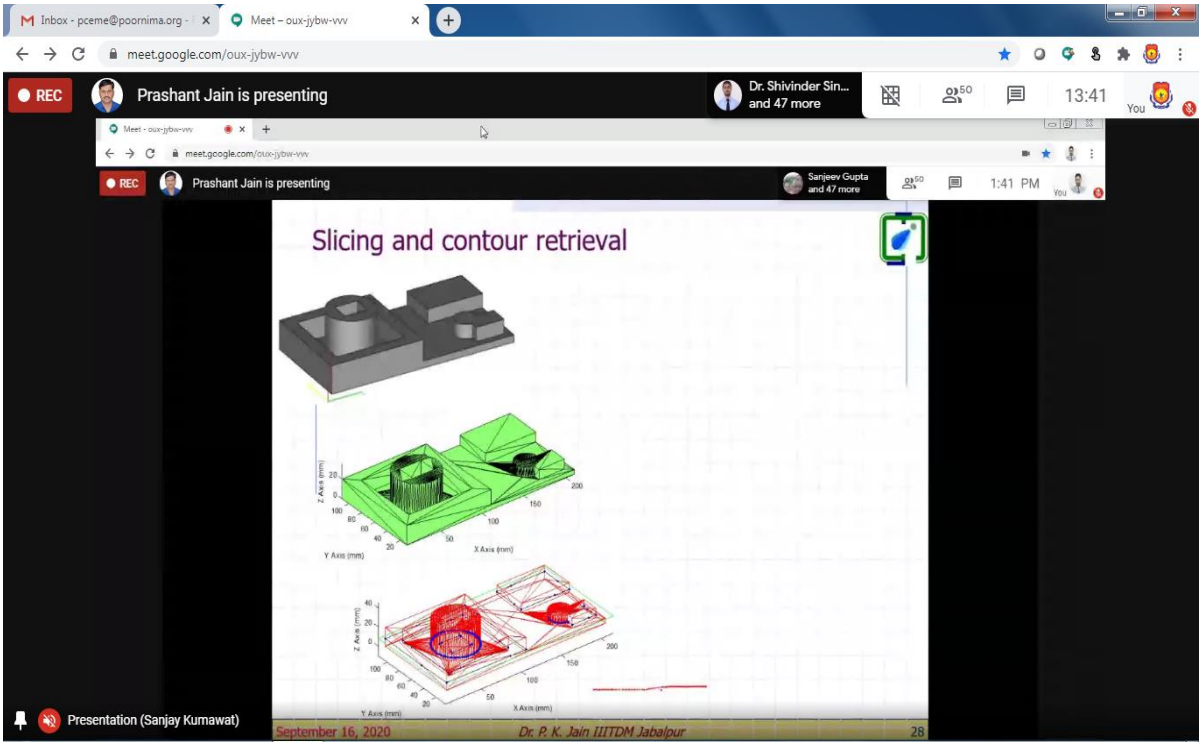
Prof. Dr. Anirban Das is associated with University of Engineering & Management, Kolkata as a Full Professor in Computer Science & Engineering. Prior to that, he was the founder HOD, Computer Science & Engineering in Amity University Kolkata. Dr. Das started his career as a software Engineer in HCL Technologies Ltd He has completed Doctoral degree from NIT Durgapur. Dr. Das is a Visiting Scientist of University of Malaya, Malaysia. He is the honorary Vice President of Scientific and Technical Research Association, Eurasia Research, USA, Fellow of Institution of Electronics and Telecommunication Engineers, India, Fellow of ISRD UK, Fellow of Indian Cloud Computing Association, India. He is Visiting Faculty at Jadavpur University, Kolkata and Central University of Jharkhand, Ranchi. He has authored 10 books, 11 patents and more than 48 research publications mostly in journals and conferences of international repute. He is the "Innovation Ambessabor" certified by MHRD Innovation Cell, Govt. of India. He was awarded as Inclusive Policy Lab Expert, UNESCO, USA, 2019, Swami Vivekananda Yuba Samman- 2015.

GLIPMSES OF CONDUCTION:

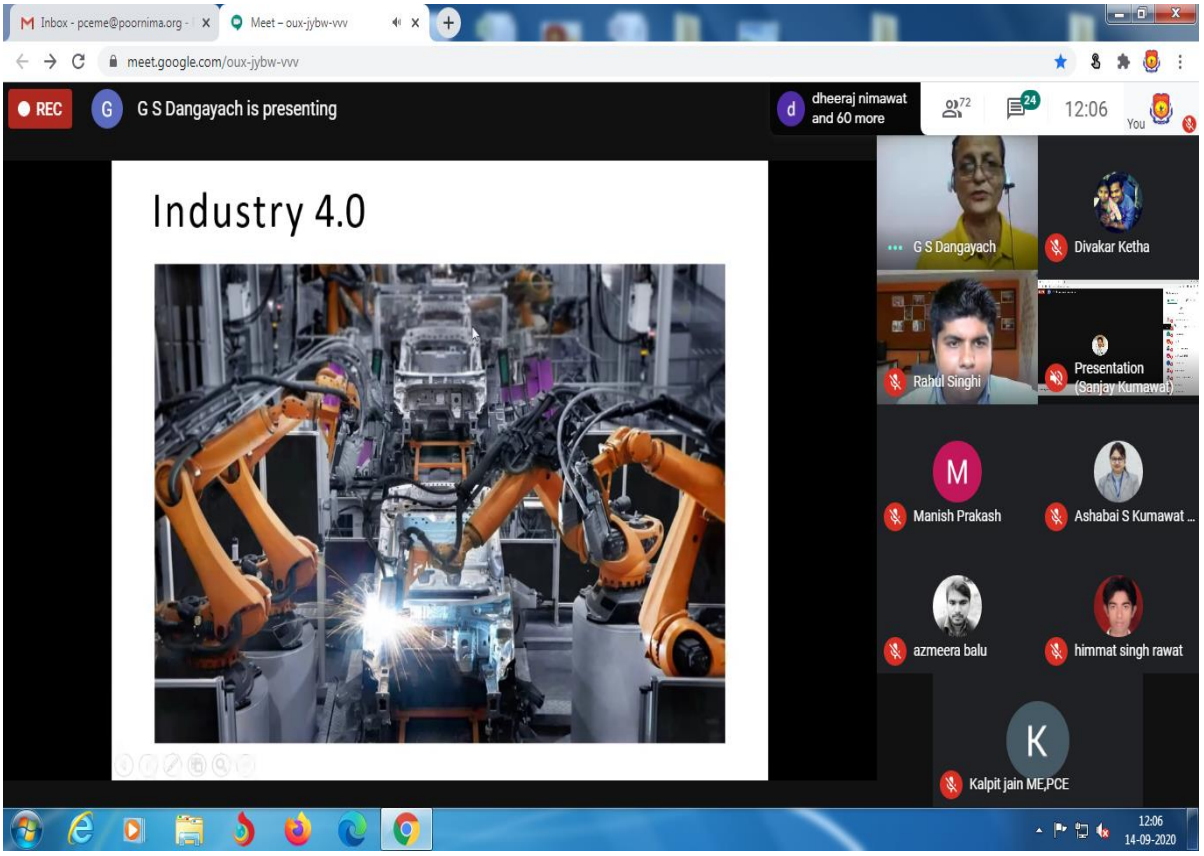
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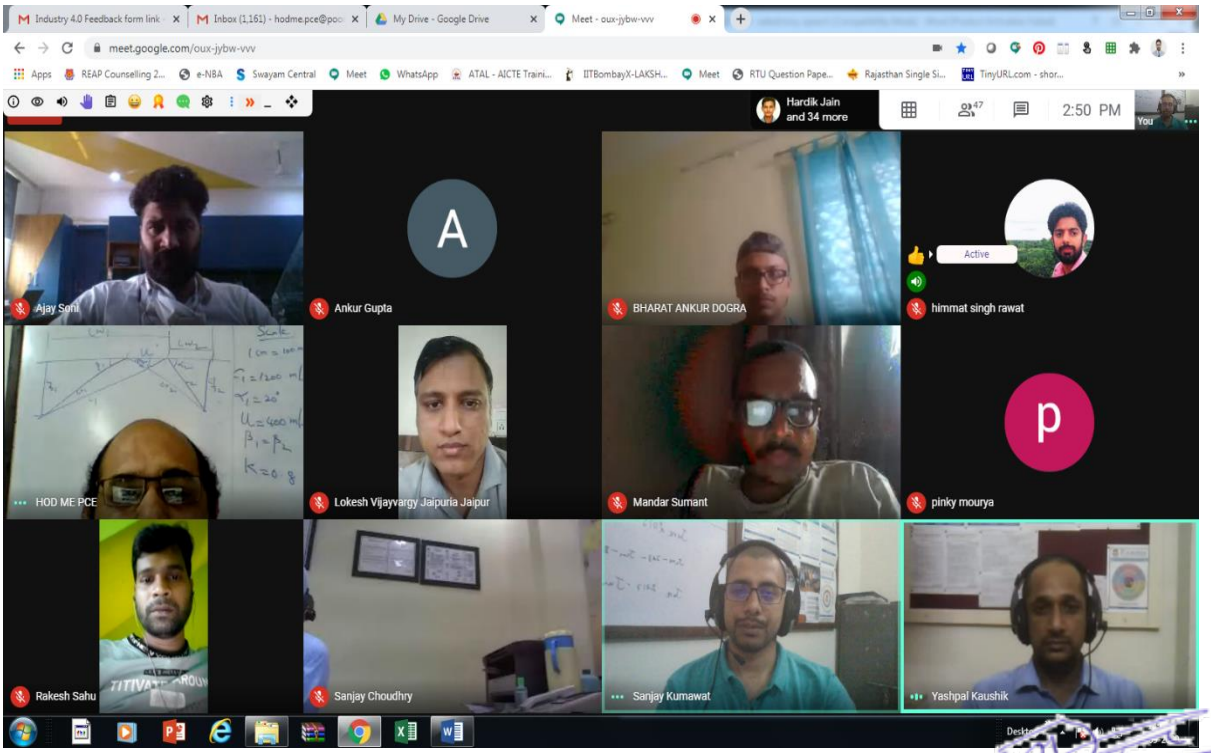
CONTENT DELIVERY / PRACTICAL SESSIONS:



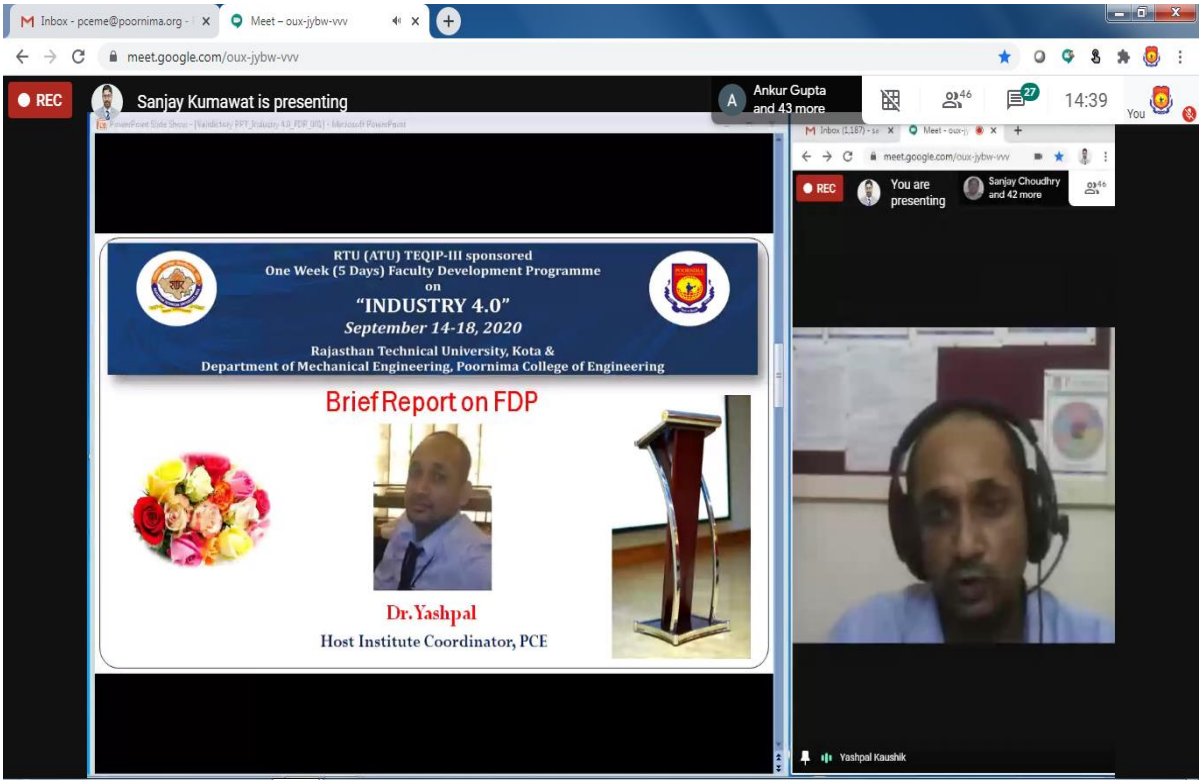
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VALEDICTORY SESSIONS:



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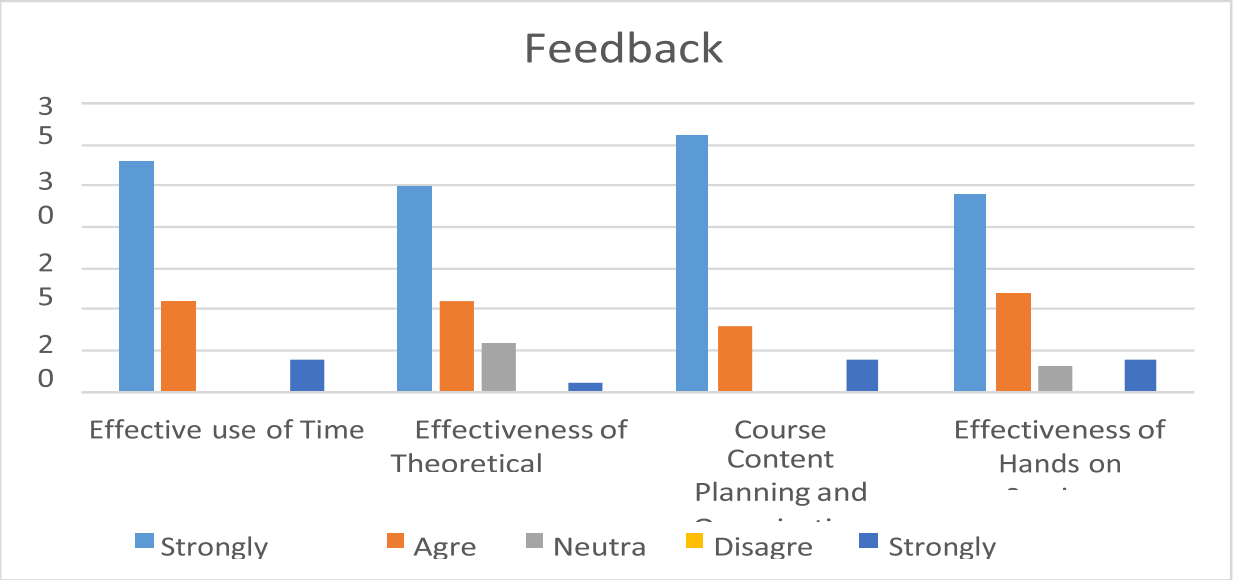
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FEEDBACK ANALYSIS:

	Effective use of Time	**Effectiveness of Theoretical Session**	**Course Content Planning and Organization**	**Effectiveness of Hands on Sessions**
Strongly Agree	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

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Report on 2-days Faculty Development Program

- **TITLE AND DURATION:** "Trends and Applications in Machine Learning and Deep Learning" from 4th-5th September 2020
- **SPONSORS:** Poornima College of Engineering, Jaipur
- **SUPPORTERS:** Rajasthan Technical University Kota
- **ORGANIZERS:** Department of Computer Engineering Poornima College of Engineering, Jaipur
- **OBJECTIVES**: Machine Learning and Deep Learning has changed the way of our life in past two decade. It has tried to simulate human intelligence through machines in all type of applications. With easy availability of huge amount of data there is good reason to believe that intelligent learning will become necessary ingredient for technological progress.

  This FDP aims to provide an opportunity to enhance knowledge about the key concepts and latest advancements in field of machine learning and Deep Learning. The participants will also be able to explore various research opportunities and challenges in the field of machine learning and Deep Learning The primary objective of this one-week Faculty Development Program (FDP) on Research Applications in Artificial Intelligence and Machine Learning was to enrich faculty members of Computer Science stream with preliminaries of artificial intelligence and its modern applications in machine learning and deep learning. The FDP was divided into several modules falling under the umbrella of Artificial Intelligence including Machine Learning, Deep Learning, Data Science, Natural Language Processing and Digital Image Processing. The objective was to address modern trends in the field of Artificial Intelligence with real time problem solving. This FDP focused on hands-on implementation of various algorithms to deliver practical skill to participants.

- **EXPECTED OUTCOMES:**
  - Understand the basic concept of pattern recognition, probability distribution, regression and its types.
  - Identifying and Analyze back propagation, training methods and deep learning for neural networks.

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- To provide research-oriented discussion along with different types of classifiers for algorithm independent machine learning.

BROCHURE / POSTER / LEAFLET / FLYER:



PROGRAM SCHEDULE:

Day 1 – Friday, September 4, 2020

Inaugural Session:

Took place in presence of 200 Participants and eminent guests Dr. Mahesh Bundele, Director Principal, Poornima College of Engineering, Dr. Nitin Khanna, Assistant Professor, IIT Gandhinagar, Dr. Kuldeep Singh, Assistant Professor, MNIT Jaipur,

Mr. Vipin Prakash Yadav, Assistant Professor, RTU Event Coordinator, Dr. Surendra Kumar Yadav, HOD, CSE, Poornima College of Engineering. Dr. Neelam Chaplot welcome everyone and briefed everyone about the Faculty development program.

Welcome speech was delivered by Dr. Mahesh Bundele, Director, PCE. The vote of thanks proposed by Dr. Surendra Kumar Yadav, Head Department of Computer Engineering, PCE.

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Session I: Deep Learning and its Applications by Dr. Kuldeep Singh, MNIT, Jaipur

Dr. Kuldeep discussed about applications and basic concepts of deep learning. He also how imparted in-depth knowledge about the various types of methods used in deep learning.

Session II: Deep Fake and Ethics of Artificial Intelligence by Dr. Om Prakash Rishi, Director IT, University of Kota

Dr. Om Prakash Rishi started the session with a video that was created using Deep Fake after that he explained what is deep fake and what are the models that are used to create deep fake. He discussed about the methodology adopted to create deep fake. He also provided the insight about various application available on internet to create deep fake. He also discussed about the various ethics to be followed for creating such applications and using such applications.

Day 2 – Saturday, September 5, 2020

Session III: Natural Language Processing in Health Care by Mr. Akashat Gupta, Machine Learning Engineer, Navi Life Care

Mr. Akashat Gupta discussed about use of natural language processing in creating applications in health care. He gave demonstration of applications that can extract, Disease, drugs, strength of drugs and dosage from the instructions provided. He demonstrated hands on for the natural language processing in medical domain. He taught how to code such applications using python. He also demonstrated that how such applications can be deployed in actual environments.

Session IV: Machine learning in Medical imaging by Dr. Saugata Sinha, Assistant Professor, Visvesvaraya National Institute of Technology, Nagpur

Dr. Saugata discussed about the various applications that can be created using machine learning techniques in medical field. He discussed about the type of data that that can be used to create such applications and how to convert such data in useful information. He also discussed in detail about the implementation and creation of applications that use medical imaging.

Session V: Machine Learning and Deep Learning for Multimedia Forensics: Is seeing still believing? By Dr. Nitin Khanna, Assistant Professor, IIT Gandhinagar

Dr. Nitin Khanna discussed about the use of machine learning and deep learning for multimedia forensic. He discussed about how to identify various hardware devices that are used to perform forgery, using machine learning and deep learning. He discussed about the various models used to perform the task. He also discussed algorithmic details of the methods used to perform such tasks. He also discussed about the creation of fake images and methods used to identify the fake images. Identify that how this image can be identified.

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Valedictory Session:

Chief Guest Dr. Ashok Bhansali Director, Career Development Center & Professor @ OP Jindal University, Chhattisgarh

The Valedictory Session started by welcoming honorable Chief Guest Dr. Ashok Bhansali and dignitaries Mr. Vipin Prakash Yadav, Assistant Professor, RTU Event Coordinator, Dr. Surendra Kumar Yadav, HOD,CSE, Poornima College of Engineering and Dr. Praveen Gupta Professor, PCE by Dr. Neelam Chaplot . Then she presented the brief report of activities and session that took place in two days under the Faculty Development program.

Honorable Chief Guest Dr. Ashok Bhansali addressed the audience and he congratulated audience for attending such workshop and discussed about the necessity of conducting such workshops. He also pointed out that how these technologies are making revolution in world. He said that lot of work is required to be done in this field by Indian industries so that India can lead in the Artificial Intelligence field.

The valedictory session ended with a vote of thanks proposed by Dr. Surendra Kumar Yadav, HOD, CSE to each and every one present and involved in successful execution of the FDP.

INAUGURAL SESSION:

Took place in presence of 200 Participants and eminent guests Dr. Mahesh Bundele, Director-Principal, Poornima College of Engineering, Dr. Nitin Khanna, Assistant Professor, IIT Gandhinagar, Dr. Kuldeep Singh, Assistant Professor, MNIT Jaipur,

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DETAILS OF RESOURCE PERSONS:

- **Dr. O. P. Rishi**, Director IT, University of Kota
- **Dr. Nitin Khanna**, Assistant Professor, IIT Gandhinagar
- **Dr. Kuldeep Singh**, Assistant Professor, MNIT Jaipur
- **Dr. Saugata Sinha,** Assistant Professor, VNIT Nagpur
- **Mr. Akshat Gupta**, Machine Learning Engineer, Navi Life Care

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- **GLIPMSES OF CONDUCTION:**







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मशीन व डीप लर्निंग के लेटेस्ट ट्रेंड्स पर हुई चर्चा

ब्यूरो/नवज्योति, जयपुर। राजस्थान टेक्निकल यूनिवर्सिटी (आरटीयू) कोटा और पूर्णिमा कॉलेज ऑफ इंजीनियरिंग के कंप्यूटर इंजीनियरिंग डिपार्टमेंट की ओर से ट्रेंड्स एंड एप्लीकेशंस इन मशीन एंड डीप लर्निंग विषय पर दो दिवसीय फैकल्टी डवलपमेंट प्रोग्राम आयोजित किया गया। इसमें करीब 150 फैकल्टी मेंबर्स शामिल हुए। इन सभी प्रतिभागियों को मशीन व डीप लर्निंग के विभिन्न पहलुओं की जानकारी दी गई। एमएनआईटी जयपुर के असिस्टेंट प्रोफेसर डॉ. कुलदीप सिंह ने डीप लर्निंग के विभिन्न मॉडल्स के



बारे में बताया। यूनिवर्सिटी ऑफ कोटा के डायरेक्टर आईटी डॉ. ओमप्रकाश ने डीपफेक टेक्नोलॉजी के बारे में विस्तार से बताया।

नीविया लाइफ केयर गुरुग्राम के इंजीनियर अक्षत गुप्ता ने बताया कि बीमारियों को पहचानने व दवाओं के चयन में यह तकनीक काफी सहायक साबित होती है। इस मौके पर आईआईटीए गांधीनगर के असिस्टेंट प्रोफेसर नितिन खन्ना, डॉ. अशोक भंसाली सहित अन्य लोगों ने भी अपने विचार रखे।

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CONTENT DELIVERY / PRACTICAL SESSIONS:

- Generalized Linear Models in Python
- Decision Tree Models using Python
- Boosting Algorithms using Python
- Support Vector Machines (SVM), Naïve Bayes and KNN in Python
- Unsupervised learning in Python
- Neural Networks
- Deep Feed Forward & Convolutional Neural Networks
- Introduction to Keras
- Sequence to Sequence models with Recurrent Neural Networks, Long-Short Term Memory (LSTM) and Gated Recurrent Unit (GRU)
- Unsupervised Deep Learning

VALEDICTORY SESSIONS:

Valedictory Session: Chief Guest Dr. Ashok Bhansali Director, Career Development Center & Professor @ OP Jindal University, Chhattisgarh

- The Valedictory Session started by welcoming honorable Chief Guest Dr. Ashok Bhansali and dignitaries Mr. Vipin Prakash Yadav, Assistant Professor, RTU Event Coordinator, Dr. Surendra Kumar Yadav, HOD, CSE, Poornima College of Engineering and Dr. Praveen Gupta Professor, PCE by Dr. Neelam Chaplot . Then she presented the brief report of activities and session that took place in two days under the Faculty Development program.

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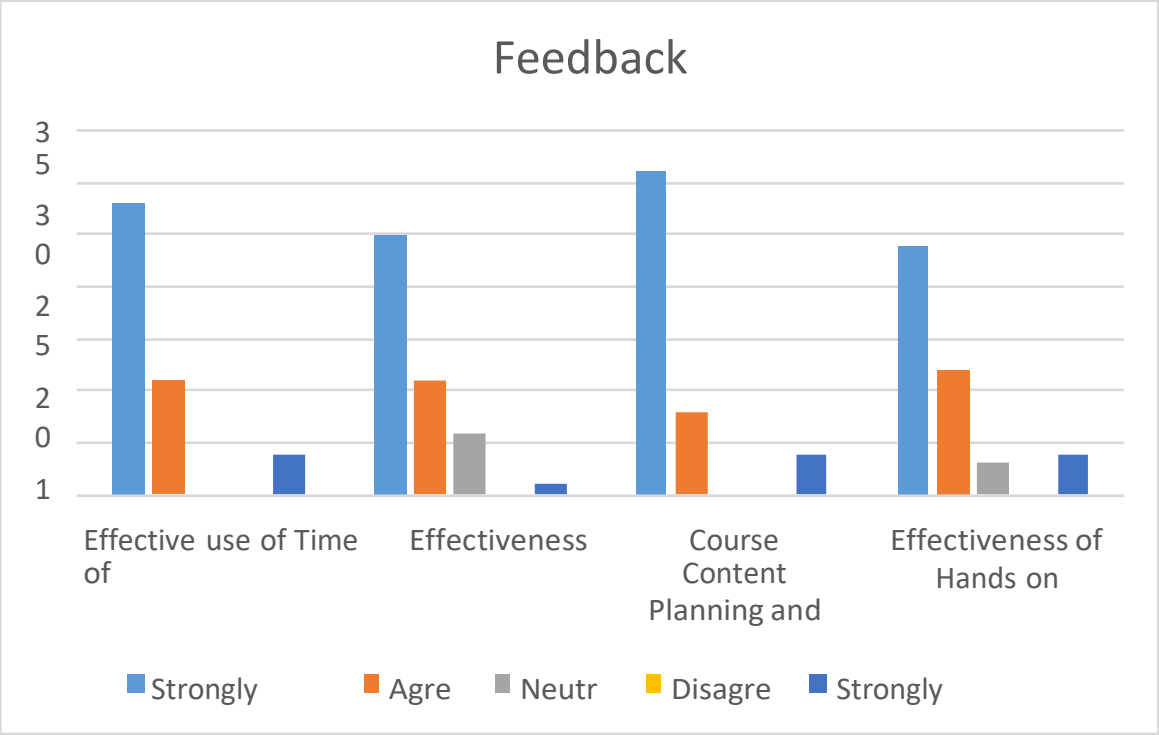
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42	Mr. Jaya Krishna R	Manipal University Jaipur
43	Dr. Vijay Kumar Sharma	Manipal University Jaipur

- **FEEDBACK ANALYSIS:** *** Add Feedback / Attainment Calculations**

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Plan- ning and Organization	Effectiveness of Hands on Sessions
Strongly Agree	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

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- **SWOT ANALYSIS:**
  - It promotes student-centered learning and collaboration
  - Lessons and Contents are more accessible
  - This is more about proper planning and includes any iteration required for the purpose of highly building highly scalable software.
- **BUDGET & ACTUALS: N/A**

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A Report on 2-days Faculty Development Program

TITLE AND DURATION: "Alternative fuel" from 4 – 5 September, 2020.

SPONSORS: TEQIP-III, Rajasthan Technical University Kota.

SUPPORTERS: Rajasthan Technical University Kota.

ORGANIZERS: Rajasthan Technical University, Kota and Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES: The event aims to provide a forum to exchange views, ideas of latest innovations in the field of alternative fuels.

EXPECTED OUTCOMES:

- To provide research-oriented discussion along with theoretical concepts, which shall facilitate the understanding of process through practical implementation in area of alternative fuels.
- Bringing together the experts of alternative fuels, technologists, enthusiasts, and faculty to discuss the Latest issues and possible solutions in area of fuels.
- Identifying Industry challenges and sensitize about latest trends and technologiesin area of alternative fuels.

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

BROCHURE / POSTER / LEAFLET / FLYER:

PCE ORGANIZING COMMITTEE

Mr. Devendra Somwanshi	Registrar, PCE
Dr. Umesh Kanan	Professor, PCE
Dr. Jayant K. Purohit	Professor, PCE
Dr. Yashpal	Associate Professor, PCE
Dr. Rahul Sen	Associate Professor, PCE
Dr. Surendra Kumar Saini	Associate Professor, PCE
Dr. Sagar Kumar	Associate Professor, PCE
Dr. Robin Gupta	Associate Professor, PCE
Dr. Akshay Jain	Assistant Professor, PCE
Dr. Bhuvnesh Sharma	Assistant Professor, PCE
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Mr. Ashwani Kapoor	Assistant Professor, PCE
Ms. Asha Kumawat	Assistant Professor, PCE
Mr. Ratnesh Sharma	Assistant Professor, PCE
Mr. Dhananjay Kumar	Assistant Professor, PCE
Mr. Buddhi P.Panwar	Assistant Professor, PCE
Mr. Rahul Sharma	Assistant Professor, PCE

RESOURCE PERSONS

The resources person for the FDP will be Eminent Professors and Experts in the area of Alternative Fuel from IITs, NITs and other Esteemed Institutions.



ELIGIBILITY

This course is open to all the Faculty Members of AICTE Approved Institutions, Research Scholars, and Persons working in R&D organizations or Industry. Number of participants for FDP is limited. All the sessions will be conducted online only.

REGISTRATION AND FEE PARTICULARS

- There is no registration fee for faculty from AICTE approved Institutions, Participants from Industry, and Research Scholars.
- Registration for the program may be done by filling the Registration Form online, Reg. Link: **https://tinyurl.com/y3pergcj**

IMPORTANT DATES

Last date of recipient of application	September 01, 2020
Intimation of selection by mail	September 02, 2020
FDP duration	September 04-05, 2020

CORRESPONDENCE

Dr. Narayan Lal Jain (Professor & Head, ME)
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Mr. Shailendra Kasera (Assistant Professor, ME)
✉ : shailendrakasera@poornima.org • ✆ : +91-9983144773

Venue

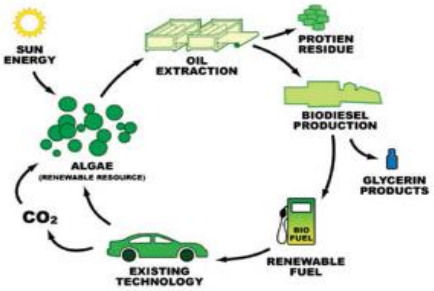
Department of Mechanical Engineering
Poornima College of Engineering
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www.pce.poornima.org



TEQIP-III SPONSORED

Faculty Development Program on "ALTERNATIVE FUELS"

September 4-5, 2020



Organized by

Rajasthan Technical University, Kota
&
Department of Mechanical Engineering

POORNIMA
COLLEGE OF ENGINEERING

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

ABOUT TEQIP-III

The Project, 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 to improve their policy, academic and management practices.

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 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech. 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

Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering of PCE came into existence in the year 2004 with an alignment of the department's evolution with key events and technological advances for the betterment of society and nation. At present, it has the intake of 120 students providing all the amenities of infrastructure related to knowledge, research, experiments and training of multiple professions. Poornima believes that Mechanical Engineering is evergreen branch in the engineering profession. Therefore, the Department of Mechanical Engineering has renowned scholars as the faculty members for imparting the knowledge. The department organizes various workshops, seminars, expert talks and presentations at national and international level. It has been taking initiatives for the versatile enhancement of the students through the technical, cultural and sport fests since its establishment.

ABOUT FACULTY DEVELOPMENT PROGRAM

Alternative fuels are substances that can be used as fuels, other than conventional fuels which serve, at least partly, as a substitute for fossil oil sources in the energy supply to transport. Alternative fuels also have the potential to contribute to its decarburization and enhance the environmental performance of the transport sector. Alternative fuels continue to hold promise, but for a variety of reasons none has yet significantly penetrated the vehicle market around the world. There are several fuels and propulsion systems that offer the possibility of displacing oil and lowering vehicle CO2 emissions, including natural gas, liquefied petroleum gas (LPG), alcohol, and biodiesel for internal combustion engine vehicles; electricity for battery-powered vehicles; and hydrogen (produced from any number of different fuels) for fuel cell-powered vehicles.

TOPICS TO BE COVERED

- Recent development in the field of alternative fuels
- Hydrogen as a future fuels
- New perspective of alternative fuels
- Future challenges of alternative fuels
- Potential of Bio-fuels in India
- Bio-diesel formulation techniques
- Engine performance and emissions of alternative fuels

OBJECTIVES OF THE FDP

The event aims to provide a forum to exchange views, ideas the latest innovations in the field of Alternative Fuels. It also offers learning on basics, emerging trends and challenges in the field of Alternative fuels. In addition it helps to improve ability in carrying out research, testing consultancy in the above mentioned area.

Pollution levels reaching alarming levels, world over there is a quest to search for the environment-friendly alternative fuels and their optimal use may lead to minimizing environmental impacts, produce minimum secondary wastes to make them economically viable.

FDP COMMITTEE

CHIEF PATRON

Prof. (Dr.) R. A. Gupta
Horble Vice Chancellor, RTU Kota

PATRON

Dr. S. M. Seth
Chairman (Emeritus) Poornima Group

Ar. Shashikant Singhi
Chairman, Poornima Group

ADVISORS

Mr. M. K. M. Shah
Director General, Poornima Group

Mr. Hari Singh Shekhawat
Director, (Infrastructure), Poornima Group

Ar. Rahul Singhi
Director, Poornima Group

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

Mr. Pankaj Dhemla
Vice-Principal, Poornima College of Engineering

RTU (ATU) TEQIP-III COORDINATOR

Prof. (Dr.) Dhirendra Mathur

RTU EVENT COORDINATOR

Mr. Vaibhav Gupta (RTU, Kota)

RTU (ATU) TEQIP-III COMMITTEE

Dr. Harish Sharma	Nodal officer
Prof. D. K. Sambariya	Nodal Officer Procurement)
Dr. S. D. Purohit	Nodal Officer Finance
Dr. Irum Alvi	Conference
Mr. Santosh Sharma	Expert Lecture
Mr. Anshul Bansal	GATE & Induction
Mr. Dinesh Kumar	Workshop

HOST INSTITUTE COORDINATORS

Dr. Narayan Lal Jain	Professor and Head
Dr. Raj Kumar Satankar	Associate Professor
Mr. Shailendra Kasera	Assistant Professor

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ABOUT FDP:

Alternative fuels are substances that can be used as fuels, other than conventional fuels which serve, at least partly, as a substitute for fossil oil sources in the energy supply to transport. Alternative fuels also have the potential to contribute to its decarburization and enhance the environmental performance of the transport sector. There are several fuels and propulsion systems that offer the possibility of displacing oil and lowering vehicle CO_2 emissions, including natural gas, liquefied petroleum gas (LPG), alcohol, and biodiesel for internal combustion engine vehicles; electricity for battery-powered vehicles; and hydrogen (produced from any number of different fuels) for fuel cell powered vehicles.

This Two days, TEQIP III, RTU (ATU) sponsored online FDP on **Alternative Fuels** is organized by the Department of Mechanical Engineering, Poornima College of Engineering, Jaipur under the aegis of Rajasthan Technical university, Kota.

About **Two hundred participants** from various parts of the country have registered for this Faculty development program. In these two days, six technical sessions were conducted by the eminent speakers from IITs and NITs.

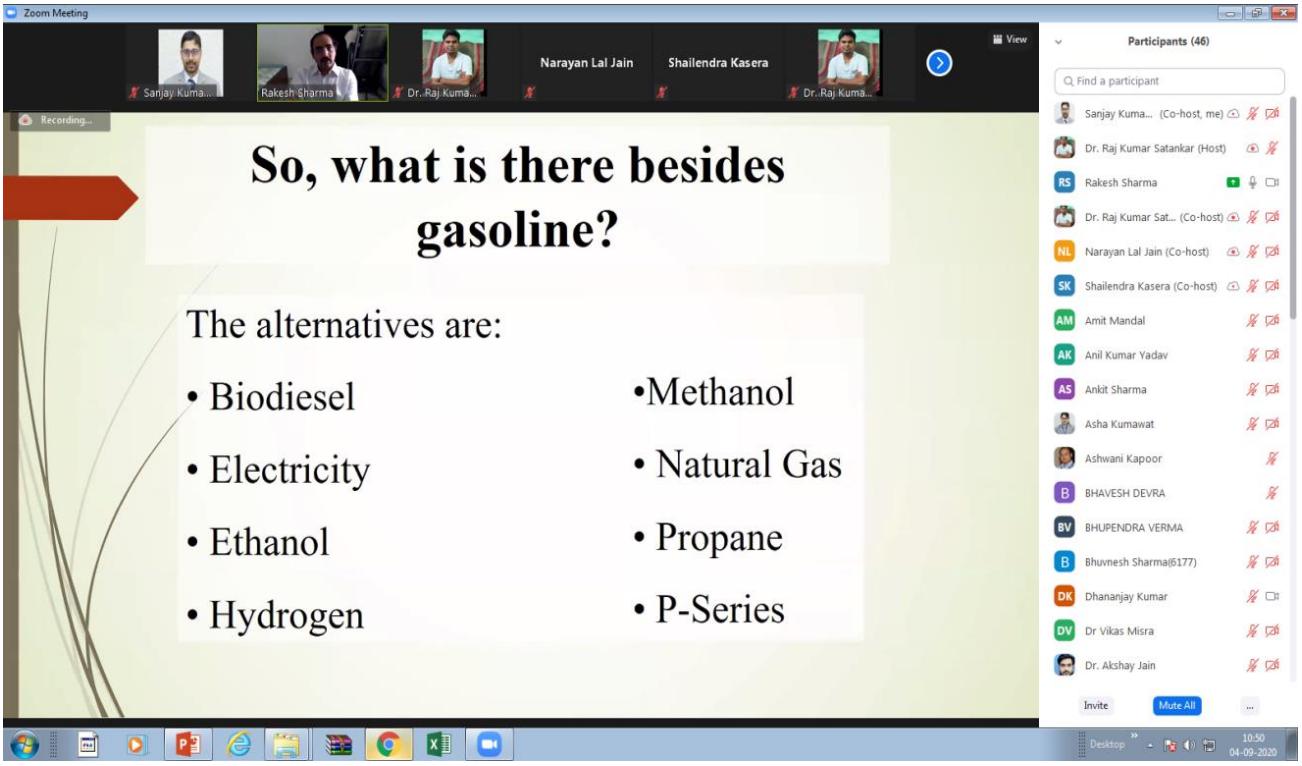
PROGRAM SCHEDULE:



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INAUGURAL SESSION:





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DETAILS OF RESOURCE PERSONS:

Dr. Rakesh Sharma, Associate Dean (R&D), IIT, Jodhpur.

Prof. L.M. Das Retired Professor at the Centre for Energy Studies, IIT Delhi

Prof. Avinash Agarwal from IIT, Kanpur

Professor Dilip Sharma, MNIT, Jaipur

Dr. Vikram Rathore from SVNIT

Dr. T.N. Verma from MANIT Bhopal

CV OF SPEAKERS :



Prof. R. A. Gupta,
Vice -Chancellor, Rajasthan Technical University, Kota (RTU, Kota)

Professor R. A. Gupta, Vice -Chancellor, Rajasthan Technical University, Kota (RTU, Kota), has been associated with Malaviya National Institute of Technology, Jaipur (formerly MREC, Jaipur) for 30 years where he joined as Associate Professor in 1990, became Professor in 1999. Prior to joining MNIT, he served as Assistant Professor at MBM Engineering College, Jodhpur for about eight years. He did BE in 1980 and ME 1984 both in Electrical Engineering from MBM Engineering College, Jodhpur and Ph.D. from University of Roorkee (presently Indian Institute of Technology Roorkee) in 1996. Professor Gupta in his career, worked on various positions of administrative responsibility at MNIT Jaipur including Dean Faculty Welfare, Head Electrical Engineering Department, Co-ordinator TEQIP, Convener Faculty Grievance Redressal Cell, Chairman Departmental Research Committee (DRC), President Games & Sports, Proctor, Warden, PG Co-ordinator, Co-ordinator QIP centre, Chairman Industry-Institute Interaction Cell, Chairman Vision Document Preparing Committee, Convener NBA at MNIT and so many administrative responsibility at MNIT. Professor Gupta worked as Independent Director on the Board of Jaipur VidhyutVitaran Nigam Ltd, Jodhpur Vidhyut Vitaran Nigam Ltd, Ajmer VidhyutVitaran Nigam Ltd. and he is Member of Advisory committee, Rajasthan Electricity Regulatory Commission.

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Professor Gupta made a contribution in research in various areas of Electricals Machines, Drives and Power Electronics, Renewable Energy etc. He published about 220 research papers and guided 18 PhDs.

He was also key person to Design and Developed a new Power Electronics laboratory out of one MHRD Grant in MREC for UG, PG, and Ph.D. Students. Prof. Gupta was also associated in research in Conditioning Monitoring of Electrical Machines and Power Electronics where he also worked on two sponsored research projects awarded by AICTE and MHRD.

Professor Gupta received Eminent Engineer's Award in recognition of eminence and contribution to the profession of Electrical Engineering by the Institution of Engineers (India) at Chennai on 7th November, 2019 and he also received a Life Time Achievement Award by The Institution of Engineers (India) at Jodhpur on 52th Engineers Day, 15th September, 2019. Professor Gupta is a Fellow of the Institution of Engineers (India), Senior Member of IEEE and life member of the Indian Society of Technical Education.

Professor Gupta has been assigned so many administrative responsibilities by the State Govt./Hon'ble Governor of Rajasthan like: Chairman of the committee to Grant of CAS (6000-7000, 7000-8000 and 8000-9000) to the Faculty Members of all Govt. Engineering College in Rajasthan, Prepare a scheme to switchover from Annual scheme to semester system, prepare syllabus, examination scheme, Choice based credit system on the guide lines of Modal Syllabus provided by AICTE to all the Polytechnic Colleges in Rajasthan from the session 2020-2021.

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Dr. Rakesh K Sharma,

Associate Professor, Indian Institute of Technology, Jodhpur

Rakesh K Sharma was born in village Sikrai in Dausa, Rajasthan in 1976. He received B.Sc. and M.Sc. in organic Chemistry from University of Rajasthan, Jaipur. After being employed at Zydus Healthcare limited, Ahemdabad and Central Salt and Marine Chemicals Research Institute (CSIR) where he worked on total synthesis and zeolite based heterogeneous catalysis respectively. Rakesh received his Ph.D. in 2007 from Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore where he discovered natural chiral pool based metalbisphosphinite complexes for asymmetric catalysis. He was awarded NIH Postdoctoral Fellowship for 2006-2010 at The Ohio State University, Columbus and Harvard University, United States. Presently, Rakesh is Associate Dean (R&D) and former head of chemistry department at Indian Institute of Technology Jodhpur. He has published more than 80 international research papers and 20 patents.

He has been awarded more than 15 international, national and industrial research grants of worth >8 crore. He has been selected best teacher based of student poll at IIT Jodhpur for his innovative teaching methods. He has developed various technologies using Rajasthani Clay such as Biofuels, Catalytic converters, water treatment, fast charging Li-Ion batteries, sensors and solid lubricants, highlighted in various print and electronic media worldwide. His water sensor technology has been bought and marketed by Panasonic Japan. His biofuel, catalytic converter and emollient technologies are under development stage by automobile and cosmetic manufactures. His current research interests focus on carbon-dioxide to methane, fast charging lithium ion batteries, heterogeneous asymmetric catalysis, and technologies for soil, air, and water remediation.

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Prof. L. M. Das
Retired Professor,
Centre for Energy Studies, IIT Delhi

Dr. L. M. Das is currently Retired Professor at the Centre for Energy Studies, IIT Delhi. He took his Bachelor's degree in Mechanical Engineering from Regional Engg college, Rourkela in 1970 and M Tech degree from Indian Institute of Technology, Kharagpur and PhD from IIT, Delhi

Dr Das has got a teaching/research experience of about thirty-eight years to his credit. His primary areas of research interest include development of alternative-fuelled low emission engines/vehicles. He has supervised 34 PhD theses and about 78 M. Tech Projects in this area. Dr Das has published more than 80 research papers in various independently refereed international and national journals in the area of alternative fuels such as Hydrogen, CNG, Biodiesel and Hydrogen-CNG blend.

Dr. Das has had a close international research interaction. He had several research assignments in University of California, Riverside(USA),Thornton Research Centre, Chester,(England) INRETS, Lyon, (France) and at the Instituto Superior Technico, Lisbon(Portugal).He had delivered invited lecturers in several international symposia/conferences in India and abroad such as USA, England, France, Germany, Japan, Switzerland, Australia, Belgium, Netherlands, Thailand, Moscow, Turkey Philippines, Nepal and Srilanka. He was a Member, Expert Group on Transportation constituted by the Steering Group of the National Hydrogen Energy Board, India as well as a Member of the CAR (Core group of Automotive Research) of the Govt of India .He was the Convener of the Technical Committee of the World Hydrogen Technology Convention held in August 2009 at New Delhi**.**

Extremely eco-conscious in his research models aiming at sustainable growth and development he has been rather passionate about the use of Biodiesel extracted from several Indian non-edible seeds in existing vehicles. As part of a sponsored project by General Motors, vehicle was operated on road from Delhi to Kanyakumari using 20% biodiesel .He has been awarded "Rajiv Gandhi Samman" by the Department of Science and Technology, Government of Orissa as an Exemplary Scientist and Educationist for Achievements and contributions in the field of Non-conventional Energy Sources in 2005.This year in 2012 he has been a winner at the "Innovators Competition" for DST-Lckheed Martin India Innovation Growth Programme .

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Dr Das has had several consultancy/projects sponsored by UNIDO, General Motors (USA), European Union, Shell, MNRE, and DST. With an effort to transfer the technology from lab to land, Dr Das has co-ordinated an academia-industry UNIDO-Sponsored project consortium consisting of IIT Delhi, Mahindra and Air products with support from UNIDO-ICHET, UNIDO (India) and ITPO in which world's first fleet of hydrogen-operated three wheelers were demonstrated during Auto-expo 2012 in New Delhi.



Prof. Avinash Kumar Agarwal
Department of Mechanical Engineering,
Indian Institute of Technology, Kanpur

Prof. Avinash Kumar Agarwal obtained his B.E. (Mech Engg., 1994) from Malviya Regional Engineering College, Jaipur and M.Tech. (Energy, 1996) and Ph.D. (Energy, 1999) from Indian Institute of Technology Delhi. After his Post-Doctoral Fellowship (1999 – 2001) stint at the Engine Research Center, University of Wisconsin, Madison, USA, he returned to India in 2001 and joined Department of Mechanical Engineering, Indian Institute of Technology Kanpur, where he is now serving as SBI Endowed Chair Professor. He was a Visiting Professor to University of Loughborough, UK, Photonics Institute, University of Vienna, Austria, Hanyang University, South Korea and Korea Advanced Institute of Science and Technology, South Korea.

At IIT Kanpur, Prof. Agarwal worked in the areas of IC engines, combustion, conventional fuels, alternative fuels, methanol fuelled engine development, hydrogen, fuel sprays, lubricating oil tribology, optical diagnostics, laser ignition, HCCI, particulate and emission control, and large bore engines. Prof. Agarwal has published more than 280 peer reviewed international journal and conference papers, 35 edited books, 63 books chapters and has 9300+ Scopus and 14500+ Google scholar citations. He is Associate Principle Editor of "FUEL", Editor-in-Chief of Journal of Energy and Environmental Sustainability and Associate Editor of "ASME Journal of Energy Resources Technology", International Journal of Vehicle Systems Modelling and Testing and the Journal of the Institute of Engineers (Series C), and editorial board member of IMechE International Journal of

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Engine Research. He has edited "Handbook of Combustion" (5 Volumes; 3168 pages), published by Wiley VCH, Germany, which is the most updated compilation on combustion in the world.

For his outstanding contributions, Prof. Agarwal is conferred upon **Sir J C Bose National Fellowship** (2019) by SERB, Clarivate Analytics India Citation Award-2017 in Engineering and Technology, **Prestigious Shanti Swarup Bhatnagar Prize (2016)** in Engineering Sciences, Rajib Goyal Prize in Physical Sciences (2015); NASI-Reliance Industries Platinum Jubilee Award (2012); INAE Silver Jubilee Young Engineer Award (2012); Dr. C. V. Raman Young Teachers Award (2011); SAE International's Ralph R. Teetor Educational Award (2008); INSA Young Scientist Award (2007); UICT Young Scientist Award (2007); INAE Young Engineer Award (2005); Devendra Shukla Research Fellowship (2009-12), Poonam and Prabhu Goyal Endowed Chair Professorship (2013-16), SBI Endowed Chair Professorship (2018-21) at IIT Kanpur; AICTE Career Award for Young Teachers (2004); DST Young Scientist Award (2002); and DST BOYSCAST Fellowship (2002).

Prof. Agarwal is highly cited researcher-2018 and is among top ten HCR from India, among 4000 HCR researchers globally in 22 fields of enquiry. He is an elected **Fellow of Society of Automotive Engineers** International, USA (SAE; 2012), **American Society of Mechanical Engineers** (ASME; 2013), Indian National Academy of Engineering (INAE; 2015), International Society for Energy, Environment and Sustainability (ISEES; 2016), Royal Society of Chemistry (RSC; 2018), National Academy of Science Allahabad (NASI; 2018) and **American Association for Advancement in Science** (AAAS; 2020). At IIT Kanpur, Prof. Agarwal has established a state-of-the art "Engine Research Laboratory" (www.iitk.ac.in/erl) and he is also the founder of IIT Kanpur's Science and Technology Research Parks (Technopark@iitk; http://www.technoparkiitk.com).

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Prof. Dilip Sharma

Professor, MNIT Jaipur

Prof. Dilip Sharma is a Mechanical Engineering Graduate (1988) from MREC Jaipur (Now known as MNIT Jaipur). After working with CIMMCO Ltd, Bharatpur for a short while, he joined Roorkee University for Post Graduation in Thermal Engineering and was awarded with University Medal for securing highest marks in Post Graduation. Dr. Sharma joined as a faculty in Mechanical Engineering (1992) at MREC, which is now known as. He is presently working as Head, Department of Mechanical Engineering. He has done research in the field of biodiesels, engine performance, emissions and tribology investigations at MNIT Jaipur and was awarded Ph.D. degree from University of Rajasthan Jaipur.

12 students have completed Ph.D. under his supervision and **04** are pursuing in the field of Alternate Sources of energy. He has **published more than 150 research papers in Journals and Conferences**. He has filed **07 patents (2 Awarded),** published **15 books** and **07 book chapters**. Dr. Sharma has completed **07 major R&D projects**. He has done more than **41 consultancy projects**.

He had been a member of various Selection Committees, Academic Councils and Board of Studies Various Universities and Colleges. He is associated with various academic bodies such as NBA, NAAC, AICTE and TEQIP etc. He had also been member of various committees in UPSC, DRDO and RPSC etc. He had been a member of Research Degree committee of PTU Jalandhar and MANIT Bhopal. He is actively associated in innovation activities and is a board member of State Innovative council **(SIC)** (Earlier known as GIAN) and member of many other bodies working in the field of Innovations. Dr. Sharma has taken various assignments at MNIT, Jaipur, such as Dean (Students Welfare & Alumni Affairs), Associate Dean (Students Welfare and Alumni Affairs), Coordinator Institute Security, Coordinator Transportation, Assistant Proctor, In-charge of Institute Guest house etc.

He at present is working with Alcohols, Hydrogen, Acetylene, Biodiesels, Waste vegetable oils

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and other additives as substitution fuel in I.C. engines for single generation as well as trigeneration. He is also working in the field of Solar Cogeneration and Trigeneration systems.



Dr. T.N. Verma

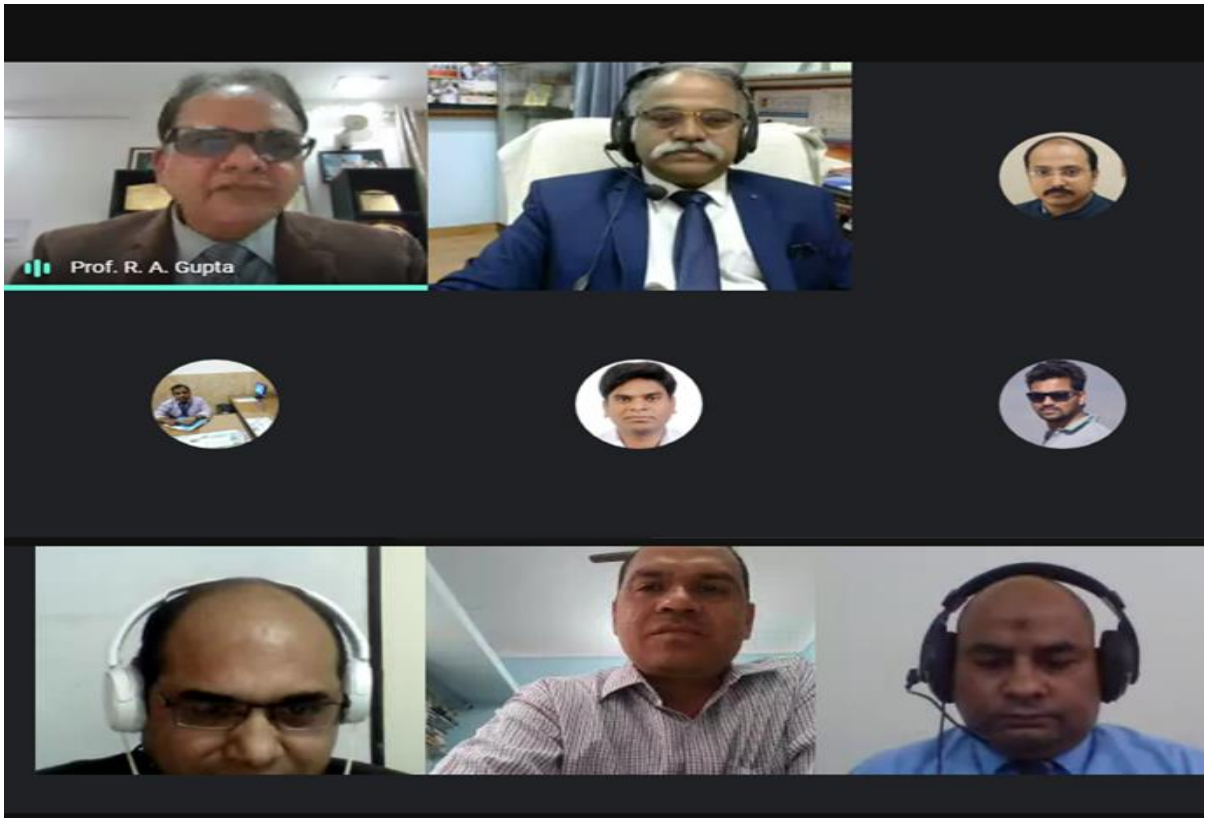
MANIT Bhopal

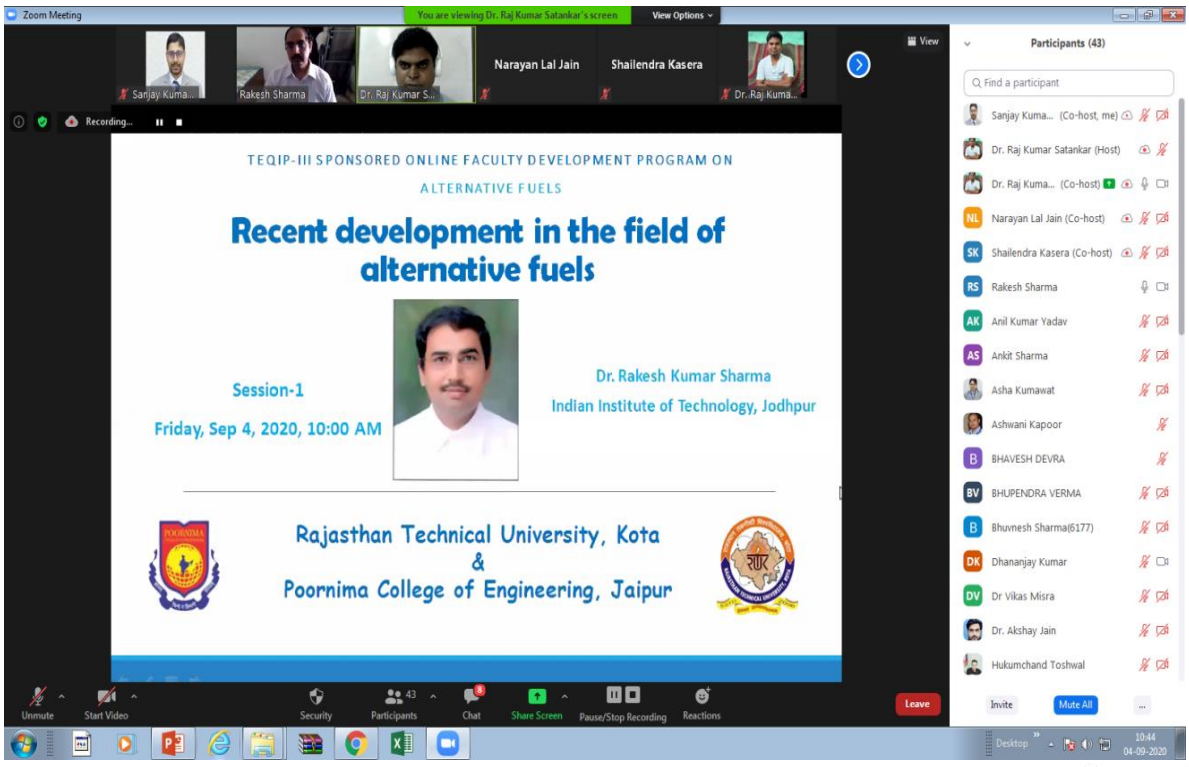
Dr. T.N. Verma was born in Bhilai in Chhattisgarh state of India. He received his Bachelor of Engineering degree in Mechanical Engineering from Pt. Ravi Shankar Shukla University, Raipur in 2006. He did his Masters in Thermal Engineering from the department of Mechanical Engineering, MANIT Bhopal in 2009, Further, He received his PhD degree from National Institute of Technology Raipur and then joined National Institute of Technology Manipur as Assistant Professor in September 2015 and served there till May 2020.

Presently Dr. T.N. Verma is working as an Assistant Professor (Grade-I) in Mechanical Engineering department at Maulana Azad National Institute of Technology, Bhopal. His current areas of research interest includes computational fluid dynamics, heat and mass transfer, renewable energy and alternative fuels in internal combustion engines. Dr Verma has 70 international journal paper, 28 research papers in the proceedings of international and national Conferences, 11 book chapters and he has also published one (01) book in his name. He has been a 3 times Recipient prestigious Khel Shikhar Swarn Alankaran award given Chhattisgarh government. Dr. Verma is an active researcher and reviewer of various reputed journals published by Elsevier and Springer.

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GLIPMSES OF CONDUCTION:





Dr. Mahesh Bundele
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Director
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Programme was initiated by a formal inaugural ceremony in the esteemed presence of Mr. Dheerendra Mathur, TEQIP-III Co-ordinator, RTU Kota, Dr. Mahesh M. Bundele, Director, Poornima College of Engineering Jaipur and other dignitaries of the institute.

The first technical session was conducted by **Dr. Rakesh Sharma, Associate Dean (R&D), IIT, Jodhpur.** He delivered his talk on **recent developments in the field of alternative fuels** where he focused on the need of bio-fuels to replace the fossil fuels. In addition to it **Prof. Sharma** also discussed results from current research studies on bio-fuel operated engines using catalytic converters. He also discusses about his experimentation and results with various clays.

Second Technical session was delivered by **Prof. L.M. Das from IIT Delhi** on the **prospects and challenges of alternative fuel**s. Where he discussed about various challenges of bio fuels but his focused was on **Hydrogen as a clean and future fuel**. In his presentation he demonstrated various vehicles which are designed to operate with Hydrogen fuel. He also presented the comparison of the risk involved in hydrogen operated vehicle with the vehicles operated with other alternative fuels.

The last technical talk of the day was conducted by **Prof. Avinash Agarwal from IIT, Kanpur** on future prospect of green and environment friendly methanol economy. His talk was comprised of three important technical issues; **green, clean and future fuel of India**, **Methanol for SI**

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Engine and **DI-Ethyl Ether for CI engine**. He presented detailed comparison on properties and economics of methanol with existing fuels. He also compared IC Engine with Electric Vehicles and focused that IC engines are better than Electric vehicle in all respects. In his talk he supported, the use of hybrid vehicles instead of electric vehicle. **Prof. Agrawal** also discuss the economics of policy of Govt. of India to produce and use of 30% electric vehicle by 2025.

In the first session of second day of FDP professor Dilip sharma from MNIT, Jaipur delivered his talk on **hydrogen as an alternative fuel.** He discussed various properties of hydrogen and compared it with other fuels. One important aspect was also discussed to generate hydrogen by solar energy. He also discussed about main technologies, barriers and challenges in engines using hydrogen. He suggested various modifications require in IC engines for operating it with pure hydrogen. He also discussed use of hydrogen as a fuel with CNG, petrol and diesel fuel and discussed about hydrogen-based fuel cell to operate the vehicles.

The second session was conducted Dr. Vikram Rathore from SVNIT on introduction of gasifiers and its applications. He suggested to generate the gases using many types of waste bio mass generated in kitchen and agriculture farms and industries. He also discussed on the gasification systems and types of gasifiers with the potential of bio mass in India.

The last session of this FDP was delivered by Dr. T.N. Verma from MANIT Bhopal on Introduction to bio fuels. He mentioned the various types of plant seeds available in India which can be used to extract the oil and extracted oil can be used as fuel in IC Engines. He also informed that the use of edible oils is banned in India only the non-edible oil can be used as a fuel in India. But edible oils is being used as a fuel in USA.

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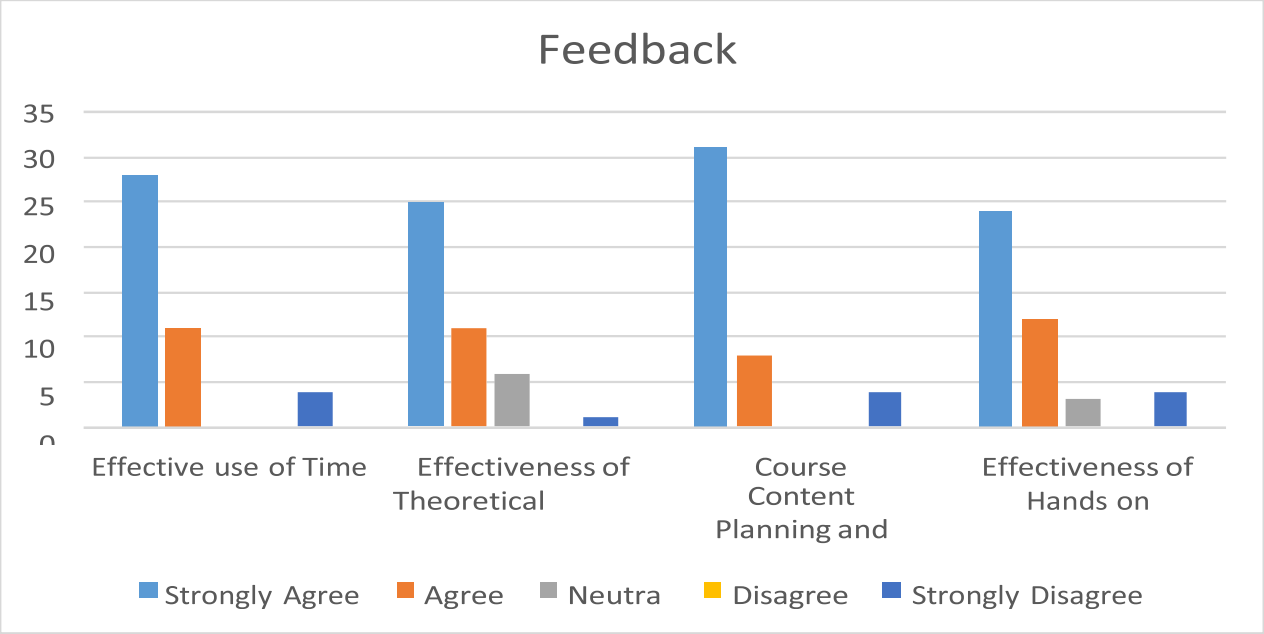
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FEEDBACK ANALYSIS:

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands on Sessions
Strongly Agree	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



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POORNIMA
COLLEGE OF ENGINEERING

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

A Report on one week Faculty Development Program

- **TITLE AND DURATION:** "Machine Learning & Deep Learning Techniques with its Applications" from August 18-22, 2020.

- **SUPPORTERS:** IEEE Rajasthan Sub Section.

- **ORGANIZERS:** Electrical Engineering Department, Poornima College of Engineering, Jaipur.

- **BROCHURE / POSTER / LEAFLET / FLYER:**



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ABOUT TEQIP-III

The Project, 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 to improve their policy, academic and management practices.

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 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech. 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

Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

Department of Electrical Engineering

The Journey of Department of Electrical Engineering was started in year 2000 with Poornima College of Engineering, Jaipur. The department has its major share in the entire PF with the total intake of more than 600 students. We are providing all the amenities of infrastructure related to knowledge, research, experiments and training of multiple professions.

The department has organized various workshops, seminars, expert lectures in this session i.e. workshop on PLC SCADA, MATLAB, Renewable Energy, Industrial Automation, etc. The department has been taking initiatives for versatile enhancement of the students through technical, cultural and sports fests since the establishment. Most of our final year students have been placed in Infosys, Capgemini India Ltd., FACE, Gram Power, Adani Power, KSTPS, Pinnacle Infotech solutions, etc.

COURSE CONTENTS

Machine learning (ML) is the scientific study of algorithms and statistical models that computer systems use to perform a specific task without using explicit instructions, relying on patterns and inference instead. The purpose of machine learning is to discover patterns in the data and then make predictions based on often complex patterns to answer business questions, detect and analyse trends and help solve problems. Machine learning is effectively a method of data analysis that works by automating the process of building data models.

Deep learning (DL) is part of a broader family of machine learning methods based on learning data representations, as opposed to task-specific algorithms. Deep learning is a key technology behind driverless cars, enabling them to recognize a stop sign, or to distinguish a pedestrian from a lamppost. It is the key to voice control in consumer devices like phones, tablets, TVs, and hands-free speakers. It is the buzz word of today's Artificial Intelligence (AI) industry.

Topics to be covered

- Introduction to ML and DL
- Architectures
- Naive Bayes
- Convolution neural network
- TLBO and its variant
- Transfer learning models
- Difference between ML and DL
- Algorithms
- Binary Genetic Algorithm
- Segmentation
- Classification
- DL in image processing & electric utility.

Objectives of the FDP

- To equip teachers with skills and knowledge in the field of machine learning and deep leaning, this is essential for inculcating learning values in students and guiding & monitoring their progress towards their career.
- To prepare the faculties for creating interest towards the field of machine learning and deep leaning and also familiarize the students with the practical aspects of this field and gradually teach them the industrial usage of machine learning and deep leaning for various applications.

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Hon'ble Vice Chancellor, RTU Kota

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Chairman (Emeritus) Poornima Group

Ar. Shashikant Singhi
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RTU (ATU) TEQIP-III COORDINATOR

Prof. (Dr.) Dhirendra Mathur

RTU EVENT COORDINATOR

Mr. Vikash Tripathi

RTU (ATU) TEQIP-III COMMITTEE

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Prof. D. K. Sambariya (Nodal Officer Procurement)
Dr. S. D. Purohit (Nodal Officer Finance)
Sr. Irum Alvi (Conference)
Mr. Santosh Sharma (Expert Lecture)
Mr. Anshul Bansal (GATE & Induction)
Mr. Dinesh Kumar (Workshop)

HOST INSTITUTE COORDINATORS

Dr. Tarun Varshney — Professor, EE, PCE
Dr. Virendra Sangtani — Professor & HOD, EE, PCE

• PROGRAM SCHEDULE:

Programme Outline	
Tuesday, Day 1: 18 August, 2020	
10.00 am – 10.30 am	**Inaugural Function** **Prof. R. A. Gupta, Hon'ble Vice Chancellor, RTU Kota (Chief Guest)** **Prof. Rahul Banerjee, Director, LNMIIT Jaipur(Guest of Honour)** **Dr. Mahesh Bundele**, Director-Principal, Poornima College ofEngineering **Mr.ViakshTripathi, RTUeventCoordinator** **Dr.VirendraSangtani,** HOD,EED **Dr.TarunVarshney**, Coordinator
10.30 am -11.30 am	**Session-1** **Topic:Apply Data Science Techniques to Cyber Security** **Resource Person:**Mr.DivyanshuVerma, Sr. Manager, Intel Technologies Banglore
11.30 am - 1.00 pm	**Session-2** **Topic:**Introduction to Neural Network and Deep learning **Resource Person:**Dr.JenyRajan, Assistant Professor, ECD, NIT, Surathkal
Programme Outline	
Wednesday, Day 2: 19 August, 2020	
9.30 am -10.30 am	**Session-3** **Topic:**Neural Networks and Machine Learning

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	Resource Person: Dr.Nitin Singh, Associate Professor, EED, MNNIT, Allahabad
10.30 am -11.30 am	**Session-4** **Topic:**Mathematical framework behind Machine Learning **Resource Person:**Dr.AnupamYadav, Assistant Professor Department of Mathematics, NIT Jalandhar
11.30 am – 12.00 Noon	**BREAK**
12.00 - 1.00 pm	**Session-5** **Topic:**Naive Bayes Algorithm **Resource Person:**Dr. KK Mishra, Assistant Professor, CSE, MNNIT, Allahabad
Programme Outline	
Thursday, Day 3: 20 August, 2020	
9.30 am -11.00 am	**Session-6** **Topic:**TLBO and its variant with its application in Segmentaion **Resource Person:**Dr.VinayPratap Singh, Assistant Professor, EED, MNIT Jaipur
11.00 am -11.30 am	**BREAK**
11.30 am - 1.00 pm	**Session-7** **Topic:**Binary GA Classification **Resource Person:**Dr. KK Mishra, Assistant Professor, CSE, MNNIT, Allahabad
Programme Outline	
Friday, Day 4: 21 August, 2020	
9.30 am -11.00 am	**Session-8** **Topic:Deep learning Architectures for Segmentation of Histopathogy Medical** Images **Resource Person**:Dr.ShyamLal, Assistant Professor, ECD, NIT, Surathkal
11.00 am -11.30 am	**BREAK**
11.30 am - 1.00 pm	**Session-9** **Topic:**DE and Binary DEwith its application in Machine learning **Resource Person:**Dr.VinayPratap Singh, Assistant Professor, EED, MNIT Jaipur
Programme Outline	
Saturday, Day 5: 22 August, 2020	
9.30 am -11.00 am	**Session-10** **Topic:**Clustering and Classification (Lab session by using Python) **Resource Person:**Lt (Dr.) Divya Kumar, Assistant Professor, CSE, MNNIT, Allahabad
11.00 am -11.30 am	**BREAK**
11.30 am - 12.30 pm	**Session-11** **Topic:**Application of ML/DL in Health

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	Utility **Resource Person:**Dr. B. Satish, Utilities Lead Consultant, Infosys Limited
12.30 pm –1.00 pm	**Closing & Feedback Session**

DETAILS OF RESOURCE PERSONS:

Dr.K.K. Mishra

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Dr. K. K. Mishra is presently working as Assistant Professor in Department of Computer Science and Engineering, MNNIT Allahabad, Prayagraj. He has successfully organized around 6 IEEE conferences in India (ICCCT Series) as a conference secretary and worked as a program chair for many other conferences. He has worked as PC members for many conferences in India and abroad and has successfully organized some special issues in highly index journals. He is a regular reviewer of Journal of Supercomputing (Springer), Applied Intelligence, Applied Soft Computing, IEEE Transaction on Cybernetics, IEEE System Journal, Neural computing and application and IETE journals. In addition to it, he has reviewed many publications for SCI andScopus indexed journal.



Mr. Divyanshu Verma

Sr. Manager, Intel Technologies ,Banglore, divyanshuv@gmail.com

A Senior Technology Leader with more than 20 years of experience in Cyber Security, Networking, IoT security, embedded system development, Secured embedded Linux, Kernel Hardening, secure hypervisor, Hardware and software security compliance and standards, SDL security standards and processes,x86, ARM and MIPS architecture.

Divyanshu has contributed towards the success of some of most prestigious organizations such as Intel, Broadcom, Ericsson, Dell RnD, Indian Defense organizations, GE etc.

He has worked closely with Presidents of Business units on various strategic initiatives such as, technical due diligence for prospective acquisition, and Post merger integration

Divyanshu worked 4 years in United States and Europe and led multi-cultural teams in g[illegible] locations such as south East Asia, Israel, Europe and United States

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Dr.Nitin Singh is currently working as an Associate Professor in Department of Electrical Engineering, MNNIT Allahabad, Prayagraj, India. He is an alumnus of Motilal Nehru National Institute of Technology Allahabad, India. His primary areas of research are Power System Planning, Electricity markets, Artificial Intelligence, implementation of optimization algorithms and machine learning techniques for power system optimization. He has published more than 45 publications in International Journals and in Proceedings of International Conferences of repute. He is serving as reviewer of several Scopus, SCI and E-SCI-indexed journals. He has organized several international conferences under the banner of IEEE and Springer. He is Member of IEEE, member of IEEE Computational Intelligence Society, Power Energy Society, and Industrial Application society. He is currently serving as Secretary, IEEE Joint Chapter of Industrial Electronics/ Power Electronics /Control System at MNNIT Allahabad.



Dr. Shyam Lal

Assistant Professor, ECD, NIT ,Surathkal,shyamfec@nitk.edu.in; shyam.mtec@gmail.com

ShyamLal received Ph.D. degree in Digital Image Processing from Department of Electronics & Communication Engineering, Birla Institute of Technology, Mesra, Ranchi (Jharkhand), India in 2013. Currently; he is working as Assistant Professor in the department of Electronics & Communication Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore (Karnataka), India since 18th Decem

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2013. He has more than 17 years of Teaching & Research experience. He has supervised 04 Ph.D. students and currently 04 Ph.D. students are working under his supervision in the area of Medical and Remote sensing Image Processing and he has completed 01 R&D project funded by SERB-DST and currently executing 03 R&D projects funded by Govt. of India. He has published more than 70 research papers in the area of Digital Image Processing, Medical Image Processing and remote sensing at International/National Journals & Conferences. He has received Early Career Research Award (Young Scientist) in 2017 from Science Engineering and Research Board,

India and Young Faculty Research Fellowship Research grant in 2019 under Visvesvaraya PhD Scheme for Electronics & IT, Digital India Innovation, MeitY ,Govt of India. He has been Guest Editor of IJSISE, Inderscience Publishers, Editorial member of Open Access Journal of Biomedical Engineering and its Applications, Lupine Publishers, USA. He is Senior Member of IEEE, life member of ISTE, New Delhi, India, Life member of IAENG, Hong Kong and Life member of IACSIT, Singapore. His area of interest includes Digital Image Processing, Histopathology Image Processing, Medical Image Processing, Remote Sensing Image Processing, Machine and Deep Learning with Applications, and Optimization Algorithms with application in Image Processing.



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Dr. Vinay Pratap Singh

Assistant Professor, EED, MNIT Jaipur, vinay.ee@mnit.ac.in

Research Interest

Control Systems, Applications of control to power systems and power electronics, Optimization, Artificial intelligence, Power system optimization, Image processing, Soft computing techniques, Neural networks, fuzzy logic, deep learning.



Dr. Satish Balantrapu

Utility leader consultant, Infosys Limited, findsatish@gmail.com

Dr. B. Satish is a Lead Consultant within the Utilities division of Infosys Ltd. He has over 20 years of experience in the Electric Utilities domain and is a core member of the Smart Grid Practice. He has been involved in various implementation projects related to Smart Grid and Distributed Energy Resources. His interests lie in the application of AI/ML techniques in the Electric Utilities domain. He obtained his PhD on 'Artificial Intelligence techniques for electric load forecasting' from IIIT, Hyderabad and published around 25 papers in International Journals & Conferences including IEEE & Elsevier.



Dr. Divya Kumar

Assistant Professor, CSE, MNNIT, Allahabad, divyak@mnnit.ac.in

Dr. Divya Kumar, is assistant Professor, MNNIT Allahabad. He has completed his M.Tech & Ph.D. from MNNIT Allahabad. He worked as a Senior Software Developer in [illegible] India Ltd. He has published more than 20 research papers in national [illegible]

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reputed journals. He has completed many government projects and more than 15 thesis supervised.



Dr. Jeny Rajan

Assistant Professor, Dept. of Computer Science and Engg, NIT, Surathkal, jenyrajannitk.edu.in, jenyrajan@gmail.com

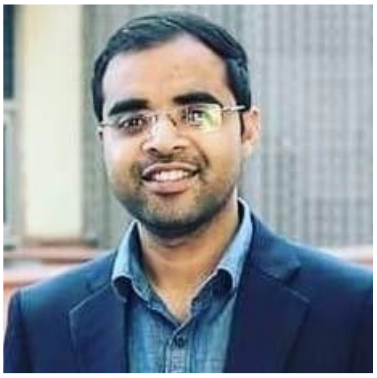
JenyRajan received his PhD from the University of Antwerp (Vision Lab) Belgium in 2012. Currently he is working as an Asst. Professor at the Dept. of Computer Science and Engineering at the National Institute of Technology Karnataka (NITK), Surathkal (Mangalore), India. His research interests include image processing, deep learning and medical image analysis. He has published around 60 papers in reputed journals and conferences. He is a recipient of Young System Scientist Award from System Society of India (SSI), 2016.



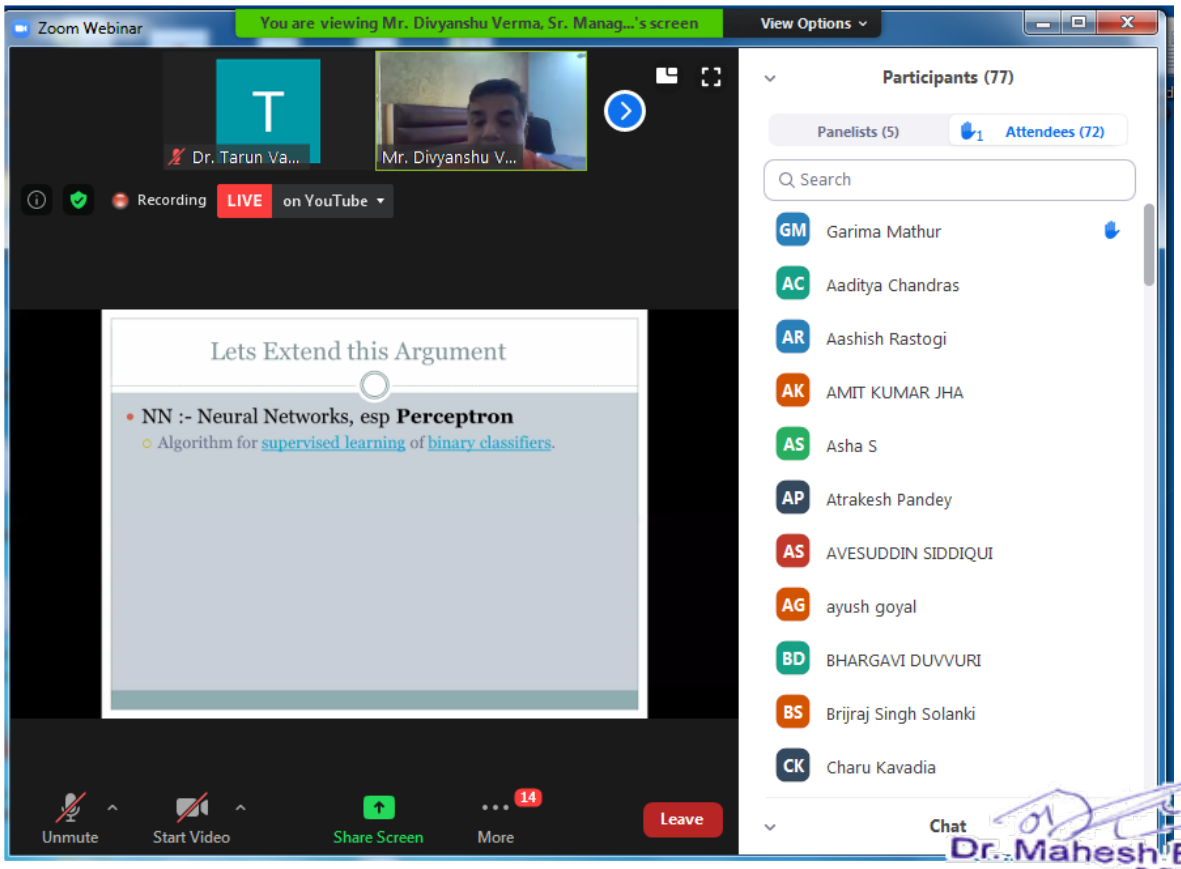
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Dr. Anupam Yadav

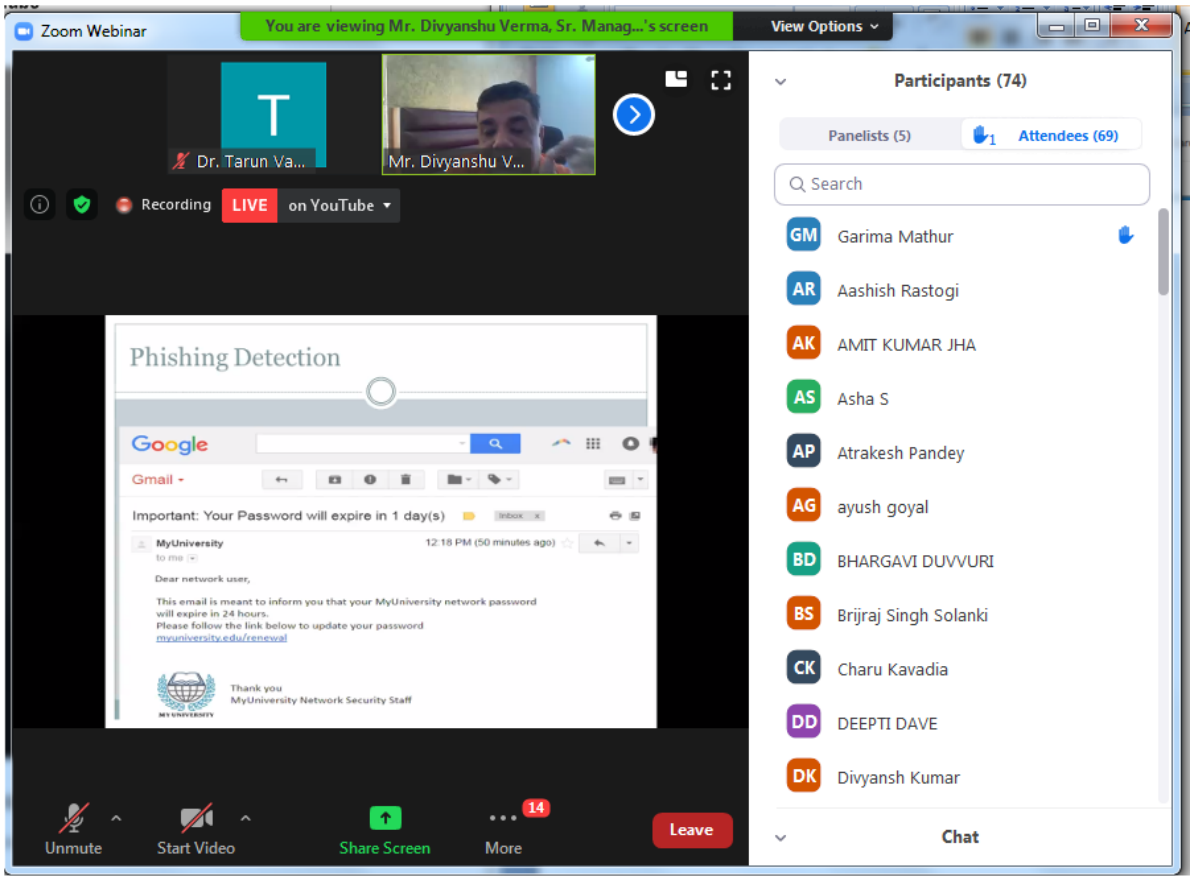
Dr.AnupamYadav, Assistant Professor, Department of Mathematics, Dr. BR Ambedkar National Institute of Technology Jalandhar, India. His research area includes numerical optimization, soft computing and artificial intelligence, he has more than ten years research experience in the areas of soft computing and optimization. Dr.Yadav has done PhD in soft computing from Indian Institute of Technology Roorkee and he worked as a research professor at Korea University. He has published more than twenty five research articles in journals of international repute, has published more than fifteen research articles in conference proceedings. Dr.Yadav, has authored a text book entitled "An introduction to neural network methods for differential equations. He has edited three books which are published by AISC, Springer Series. Dr.Yadav was General Chair, Convener and member of steering committee of several international conferences. He is an Associate Editor in the journal of the experimental and theoretical artificial intelligence. Dr.Yadav is a member of various research societies.

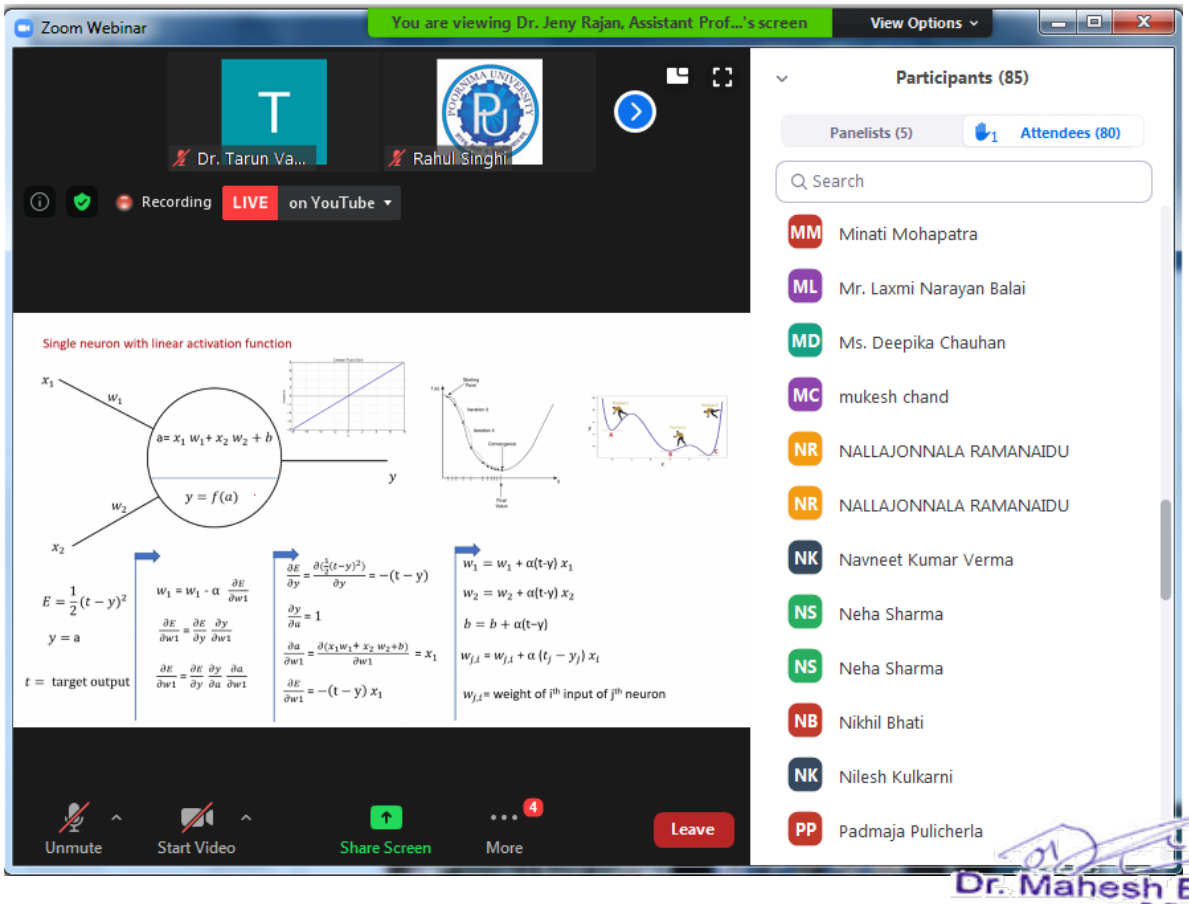


- **GLIPMSES OF CONDUCTION:**

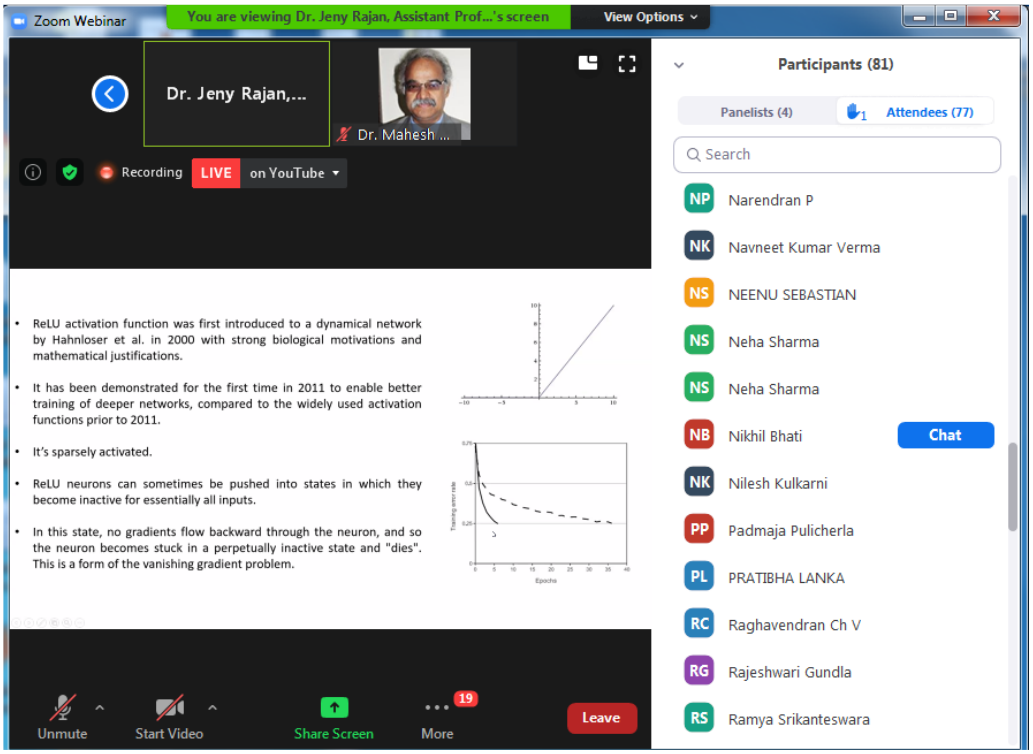


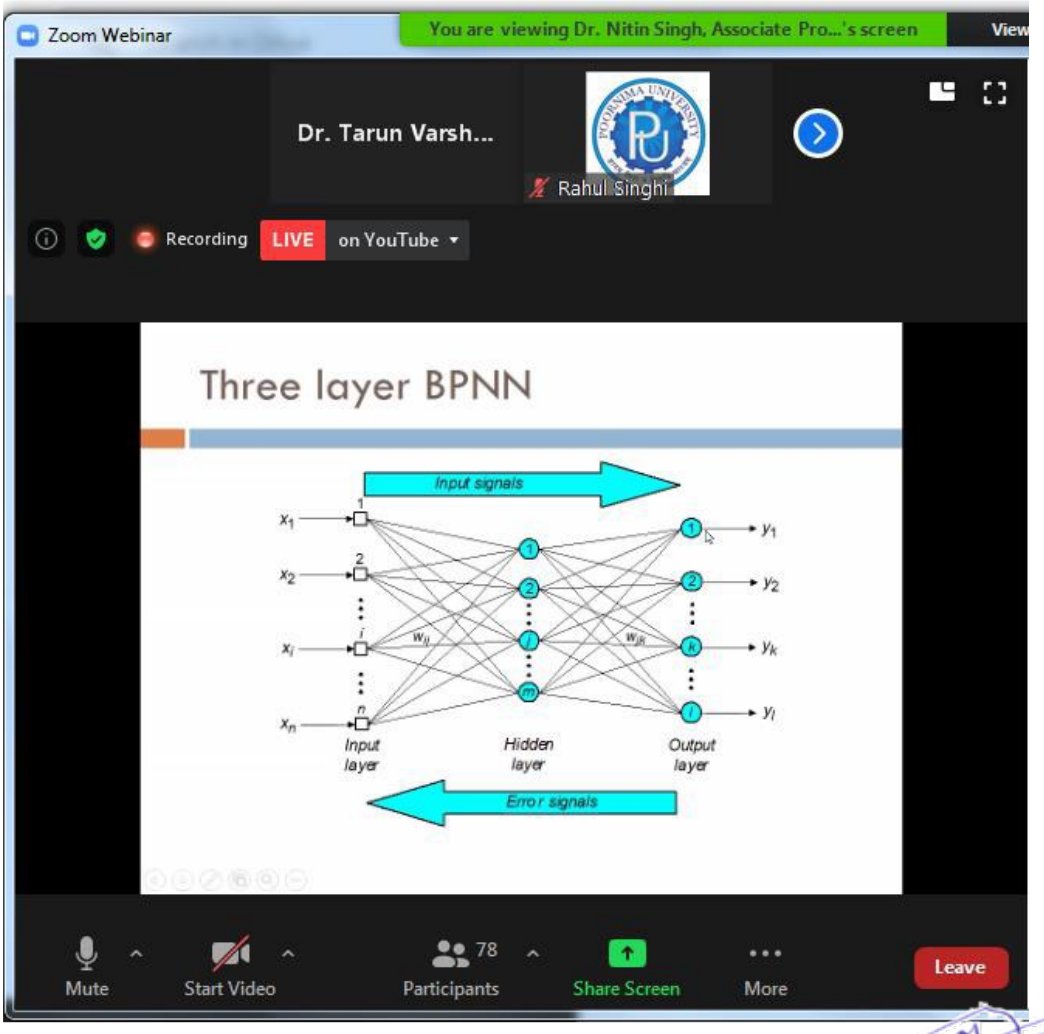
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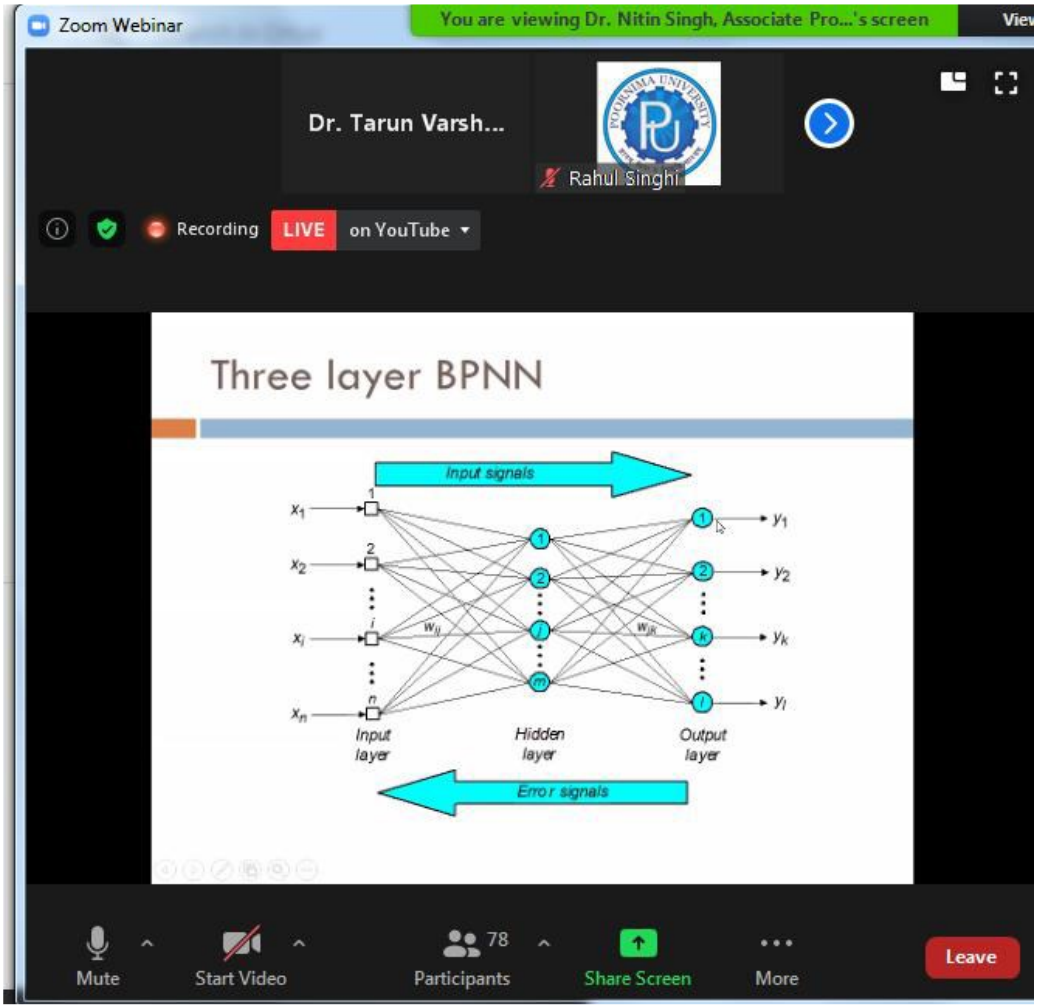


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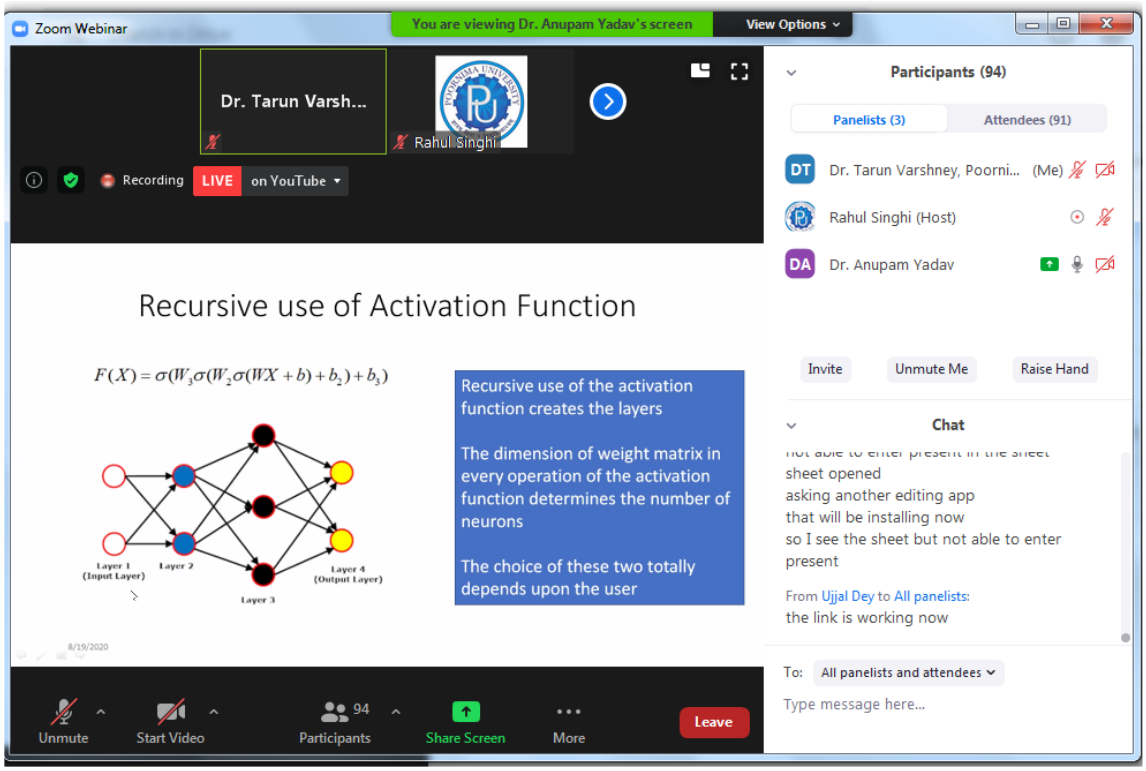


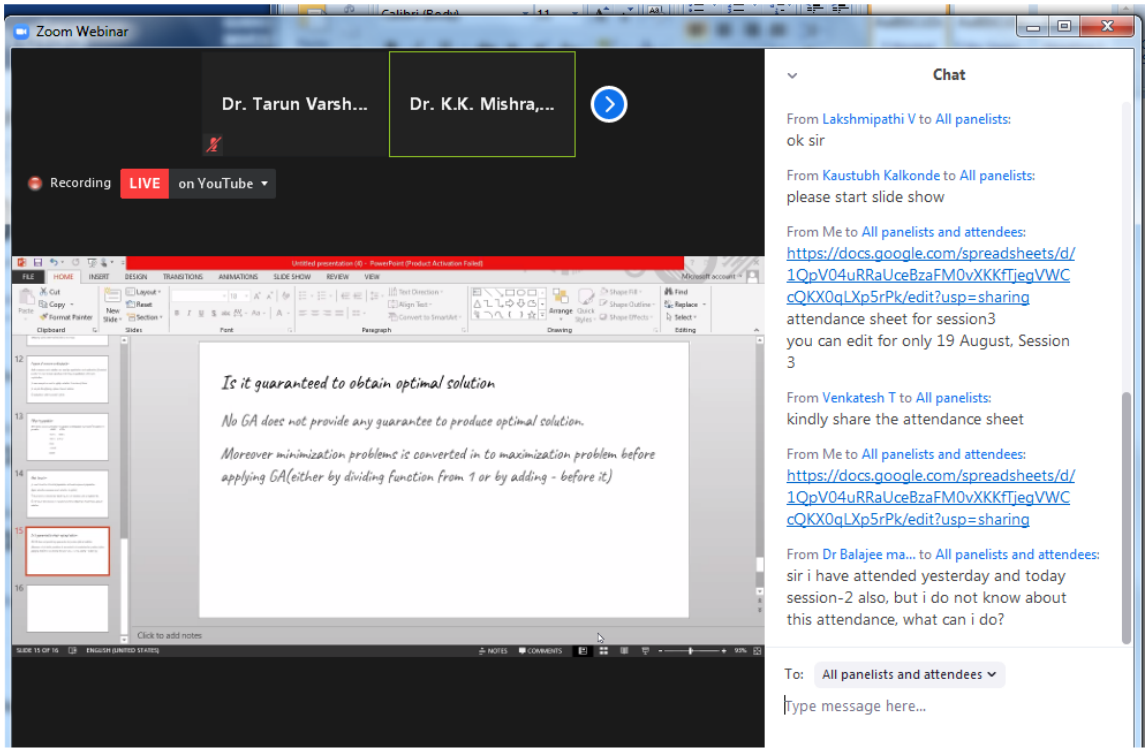
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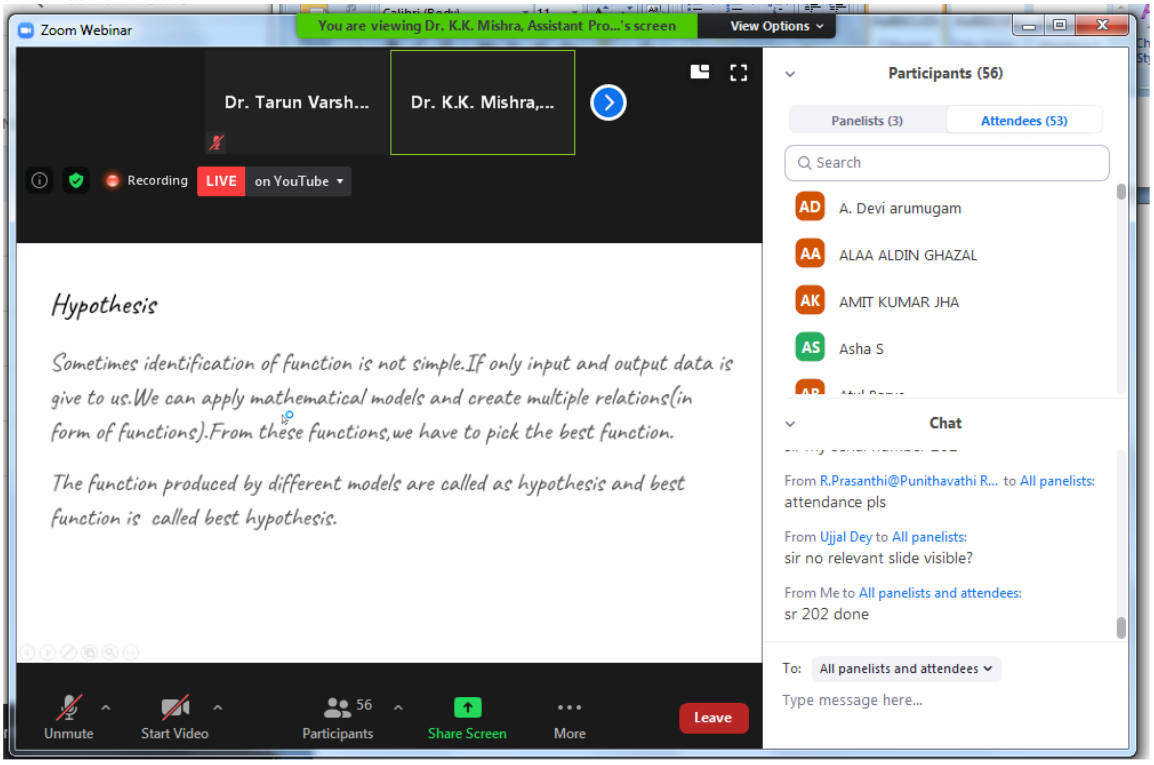


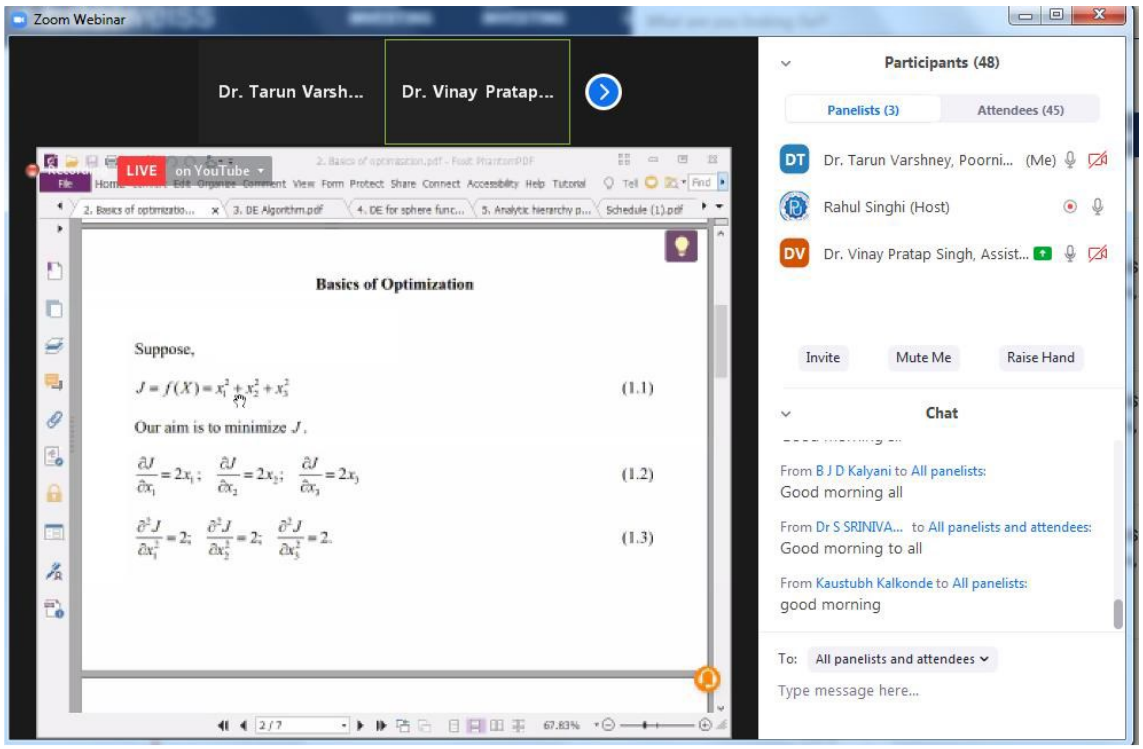
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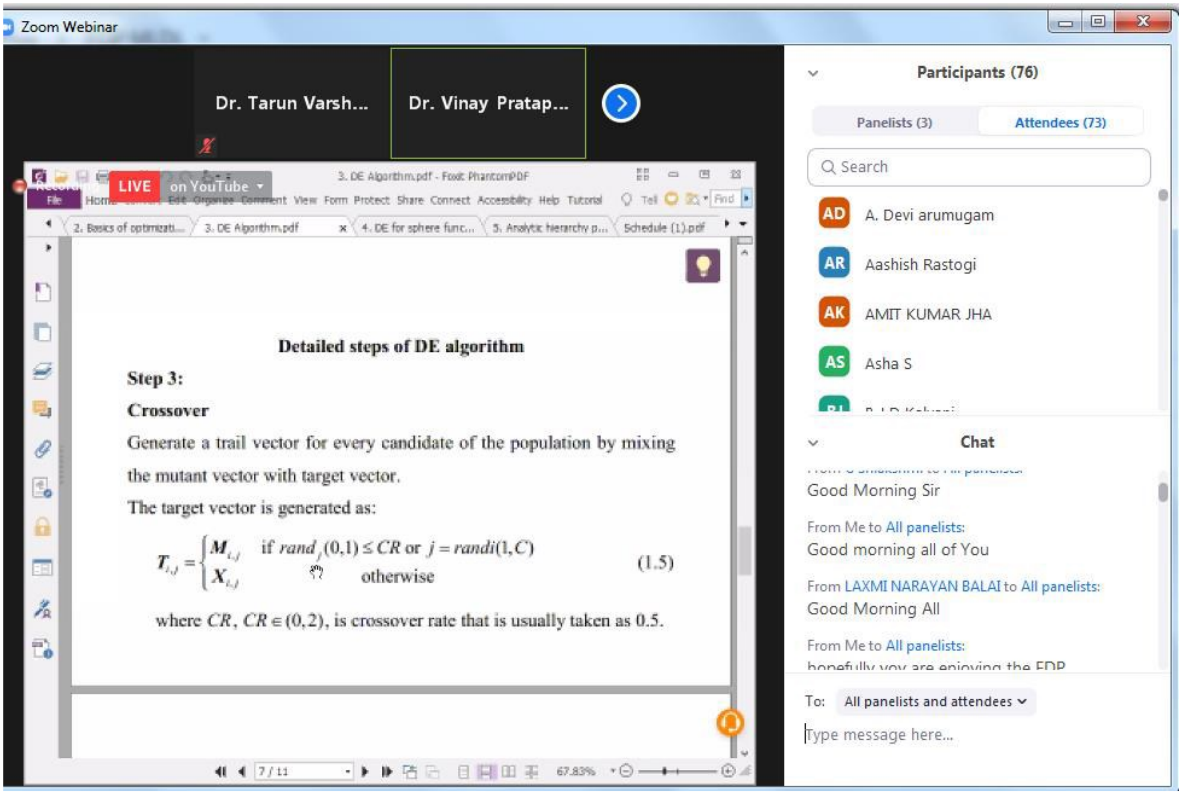


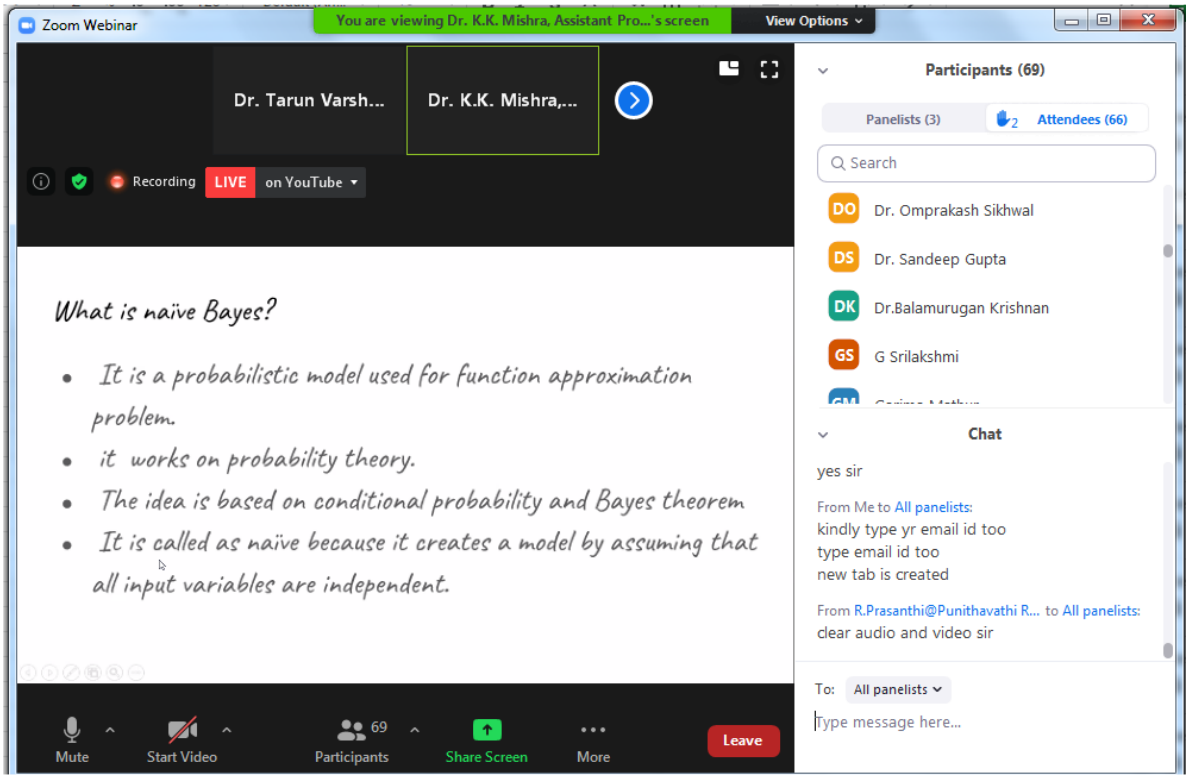
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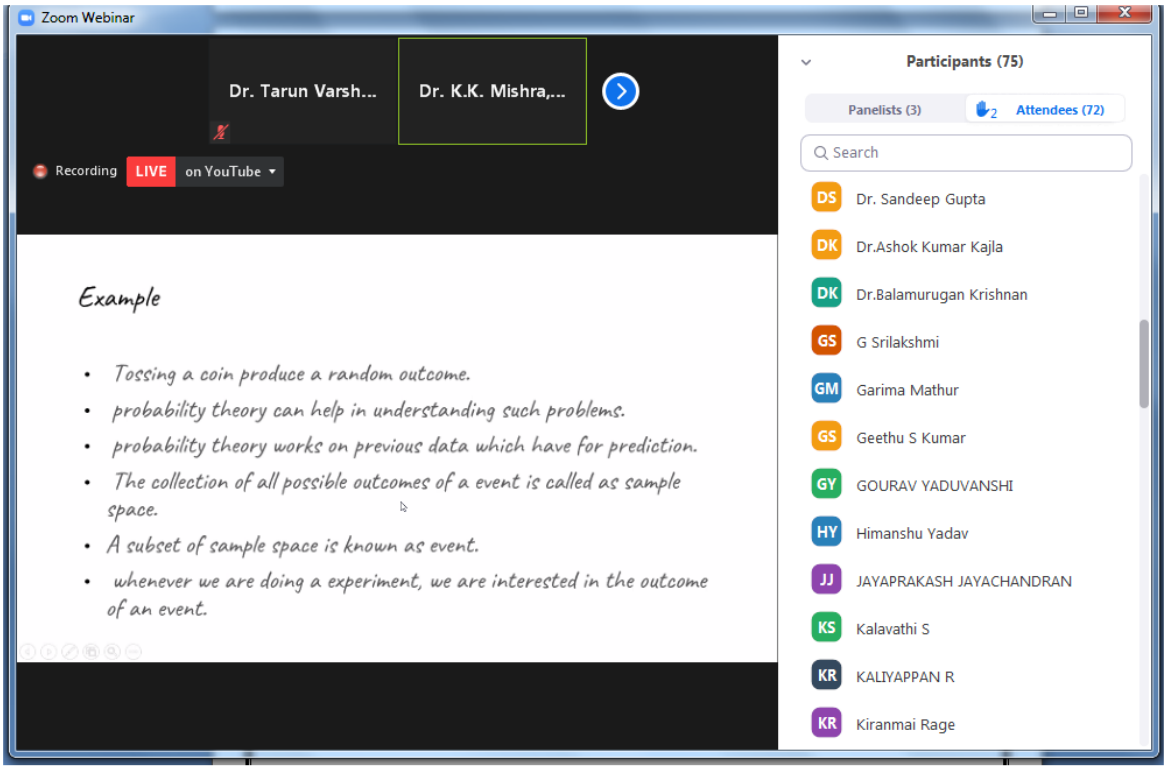


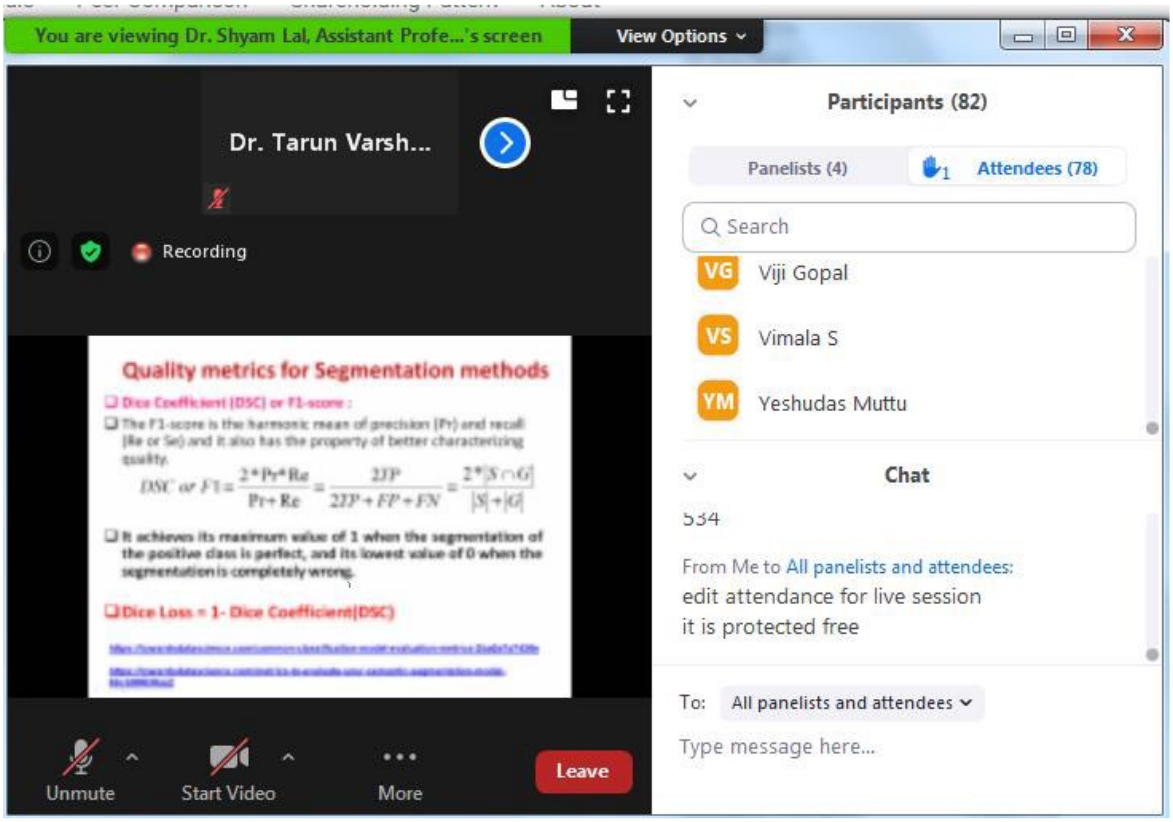
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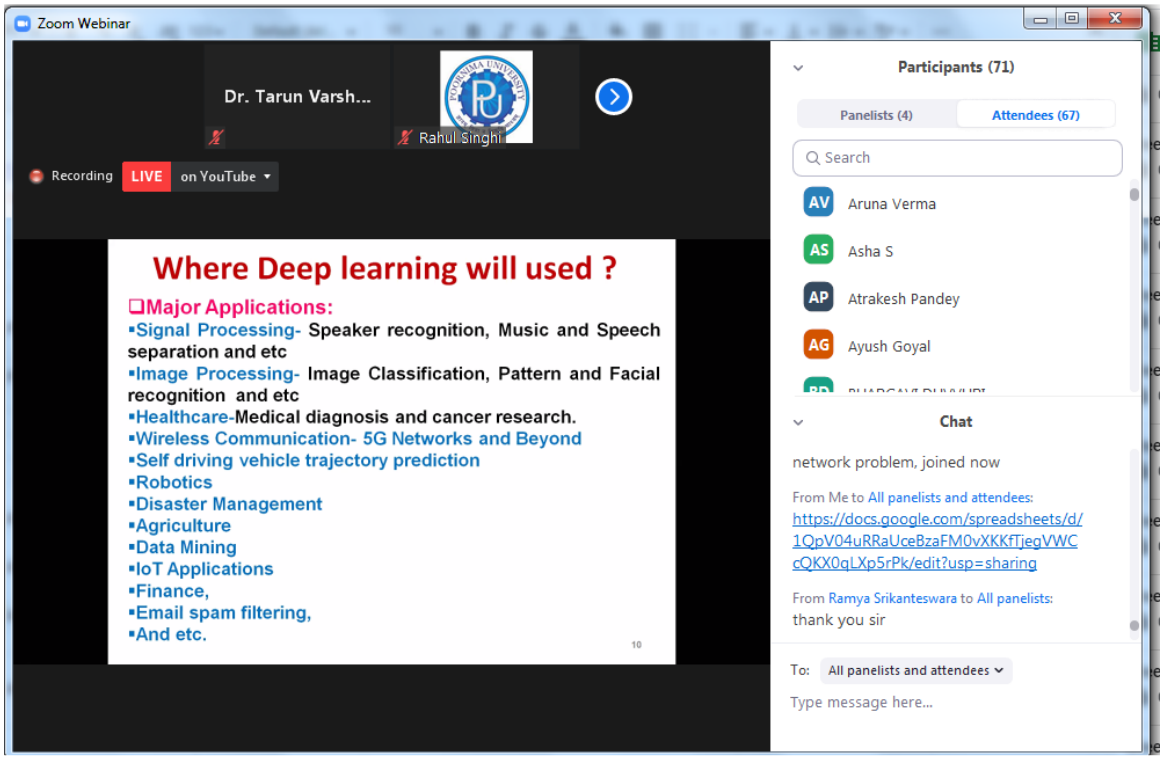


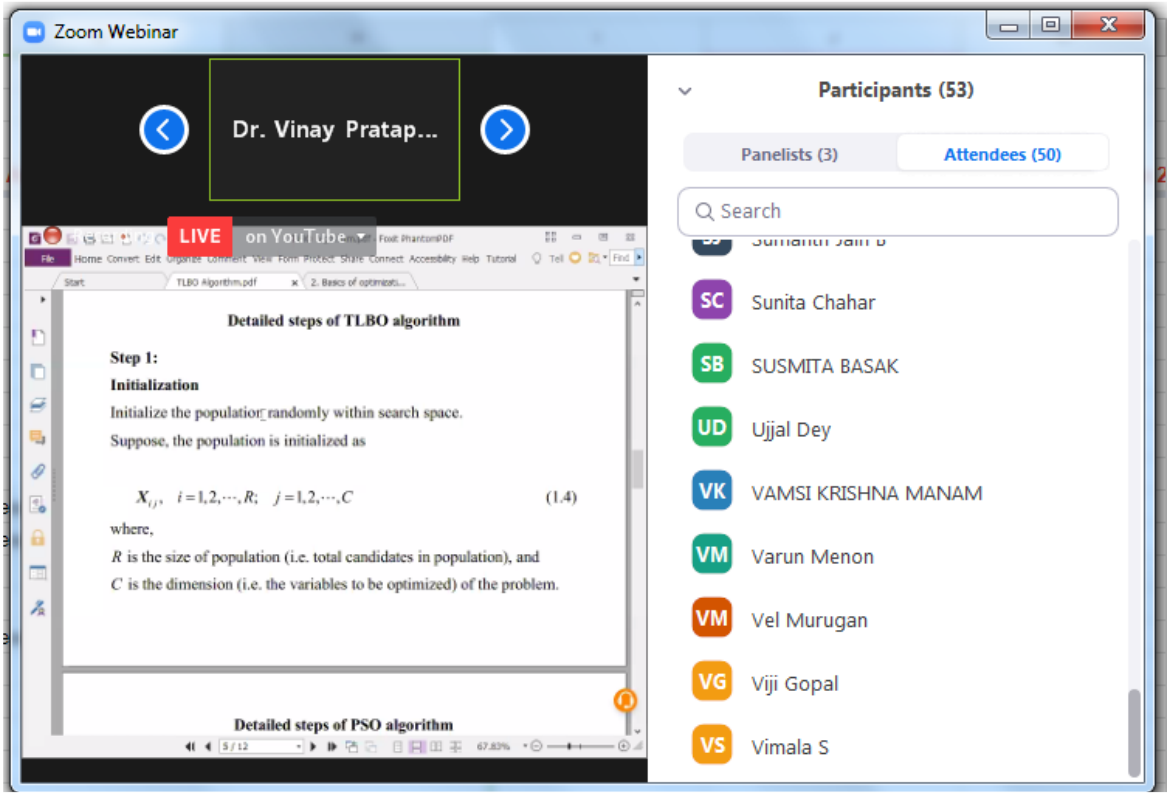
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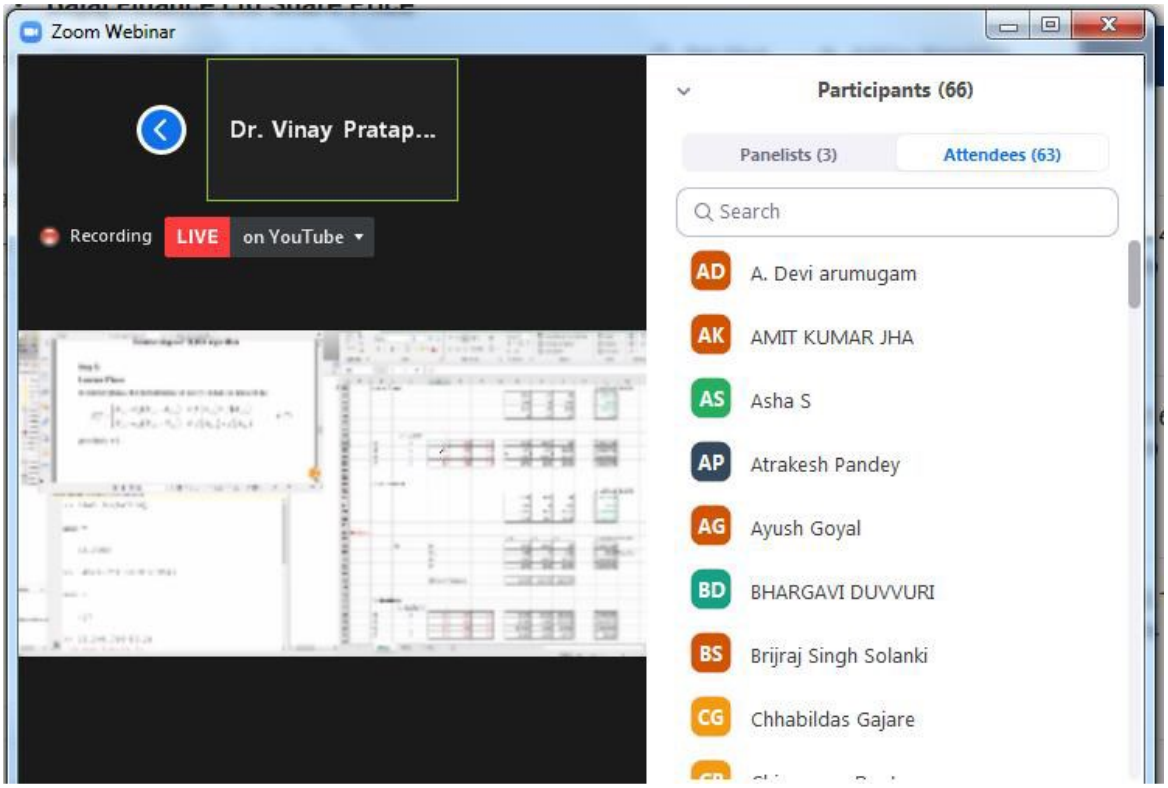


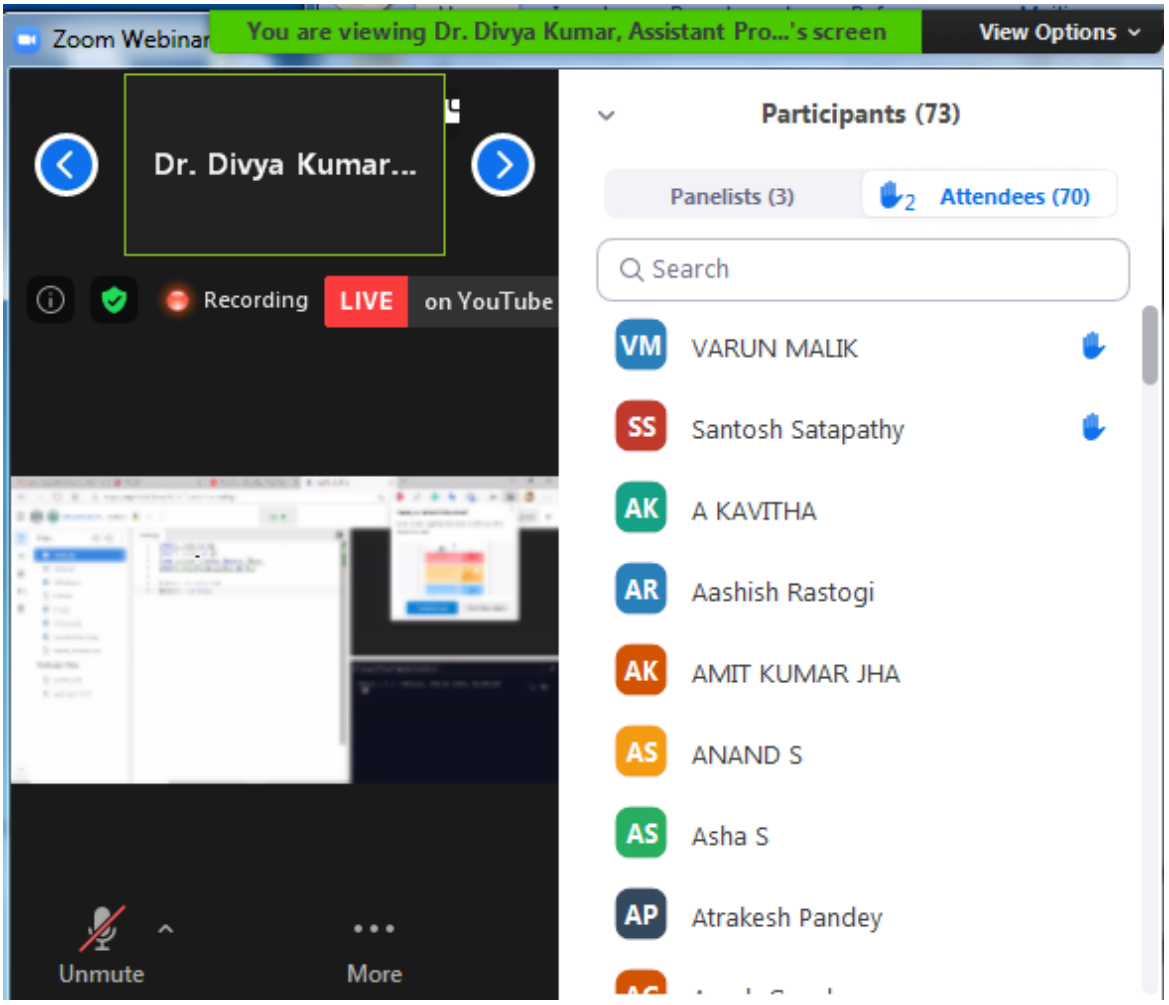
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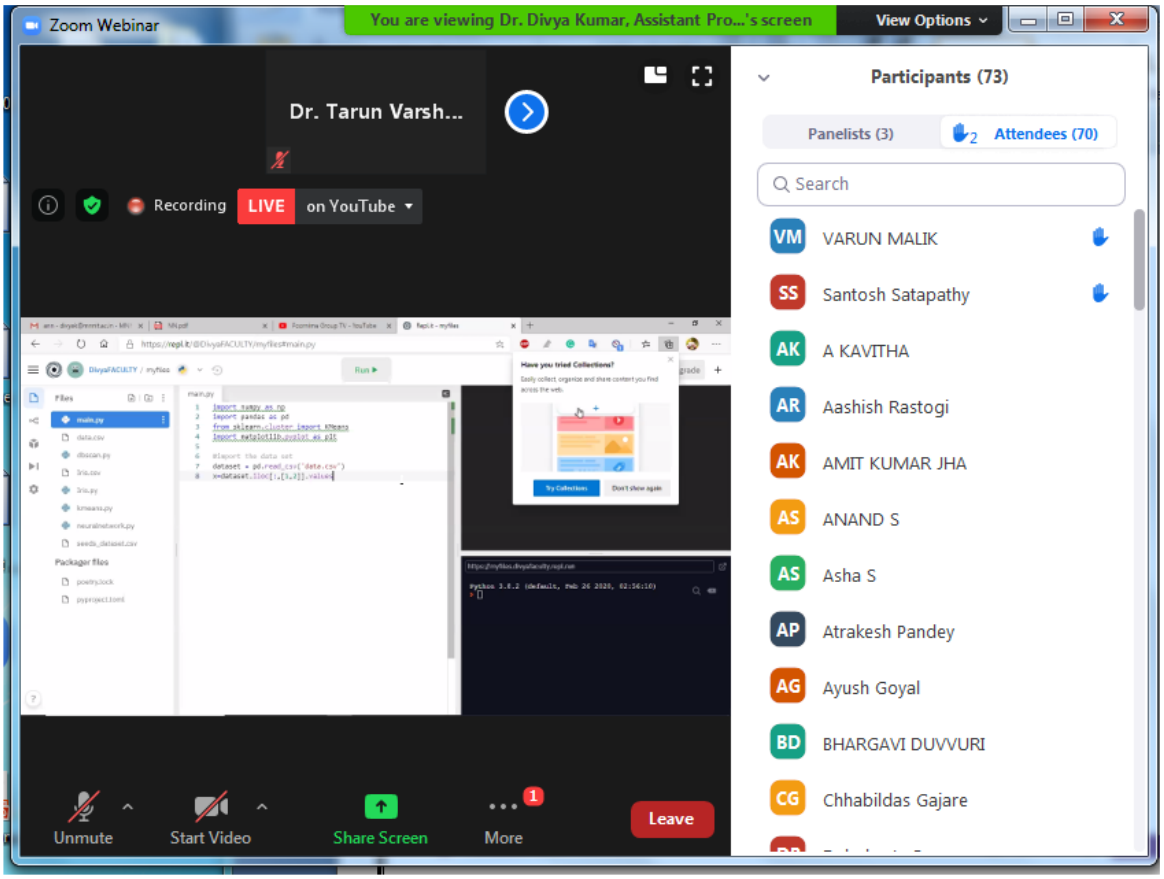


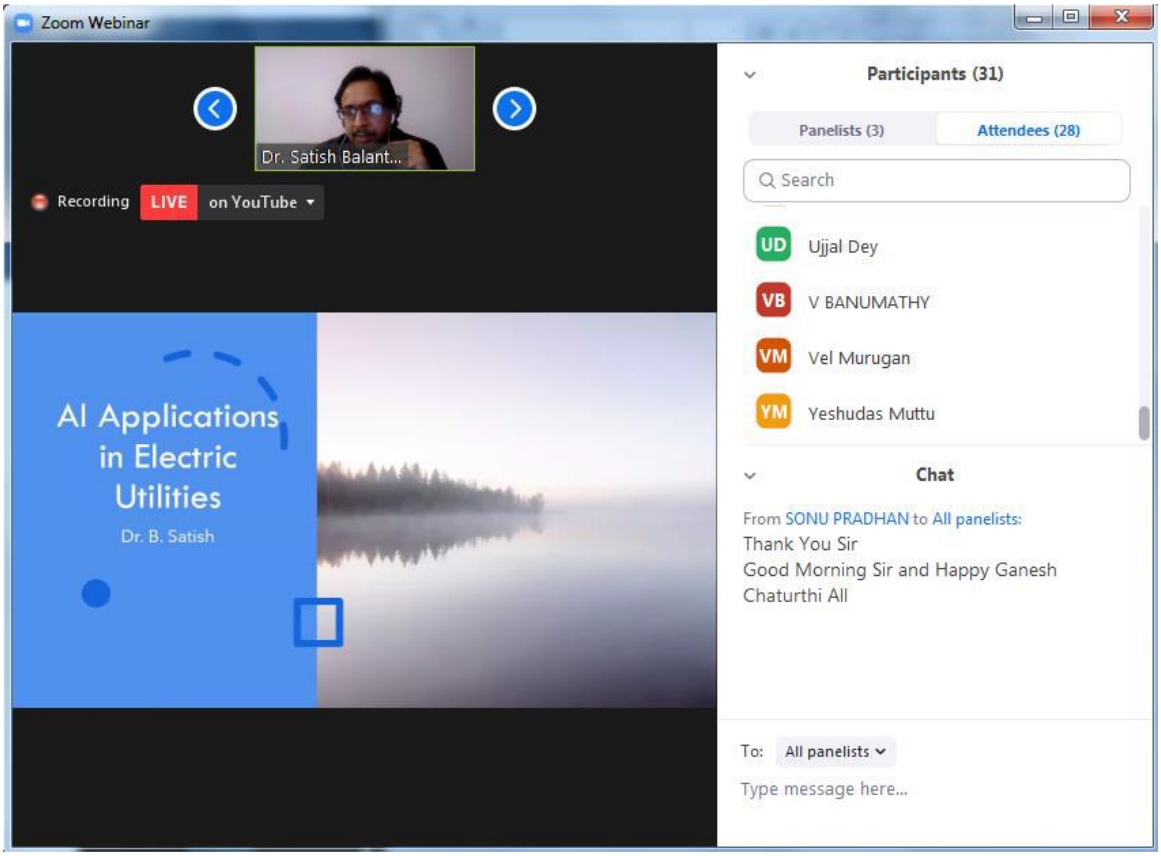
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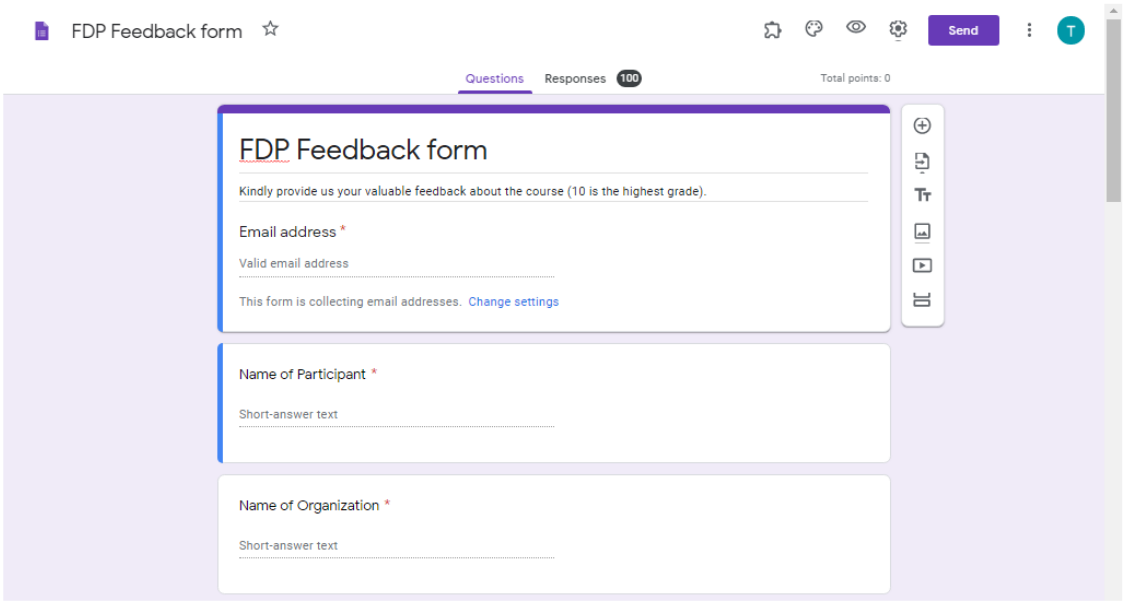
Dr. Mahesh Bundele
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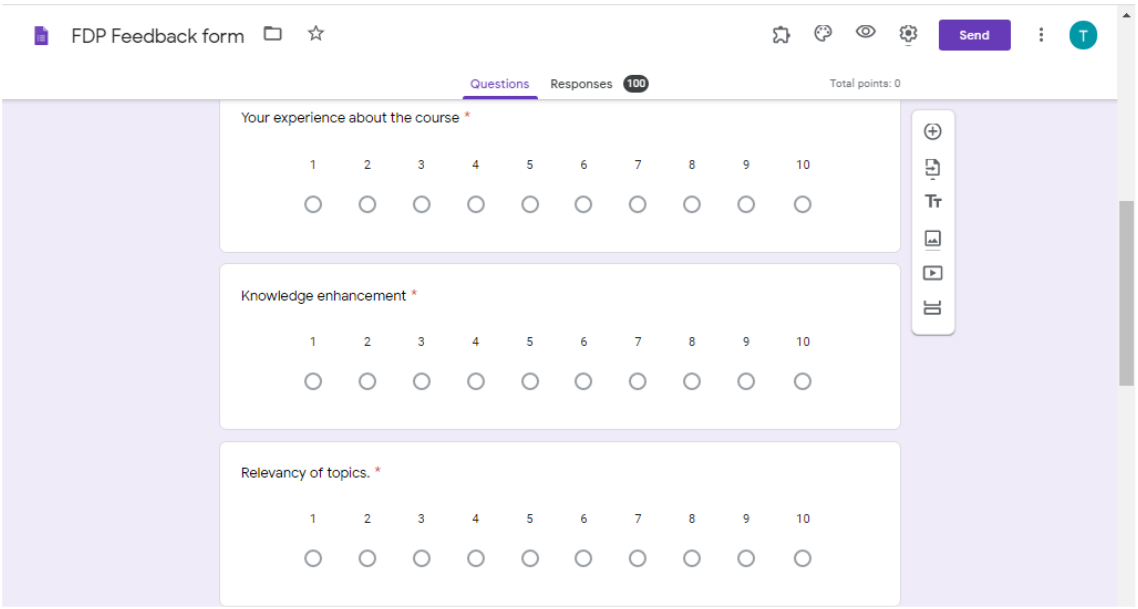




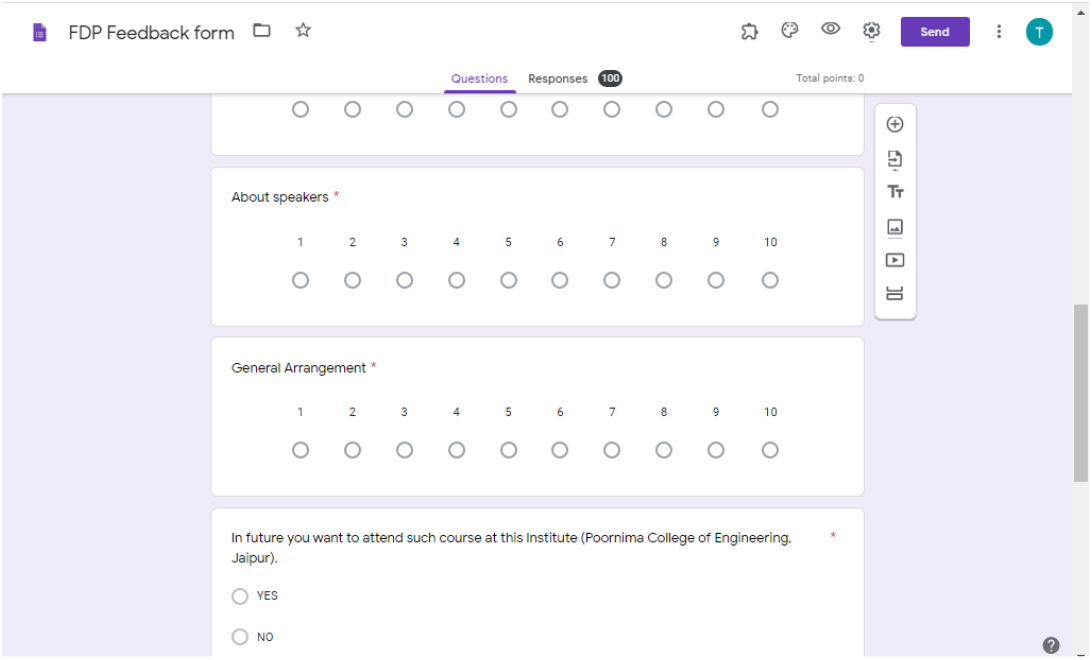
Dr. Mahesh Bundele
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- **FEEDBACK FORM FORMAT:**

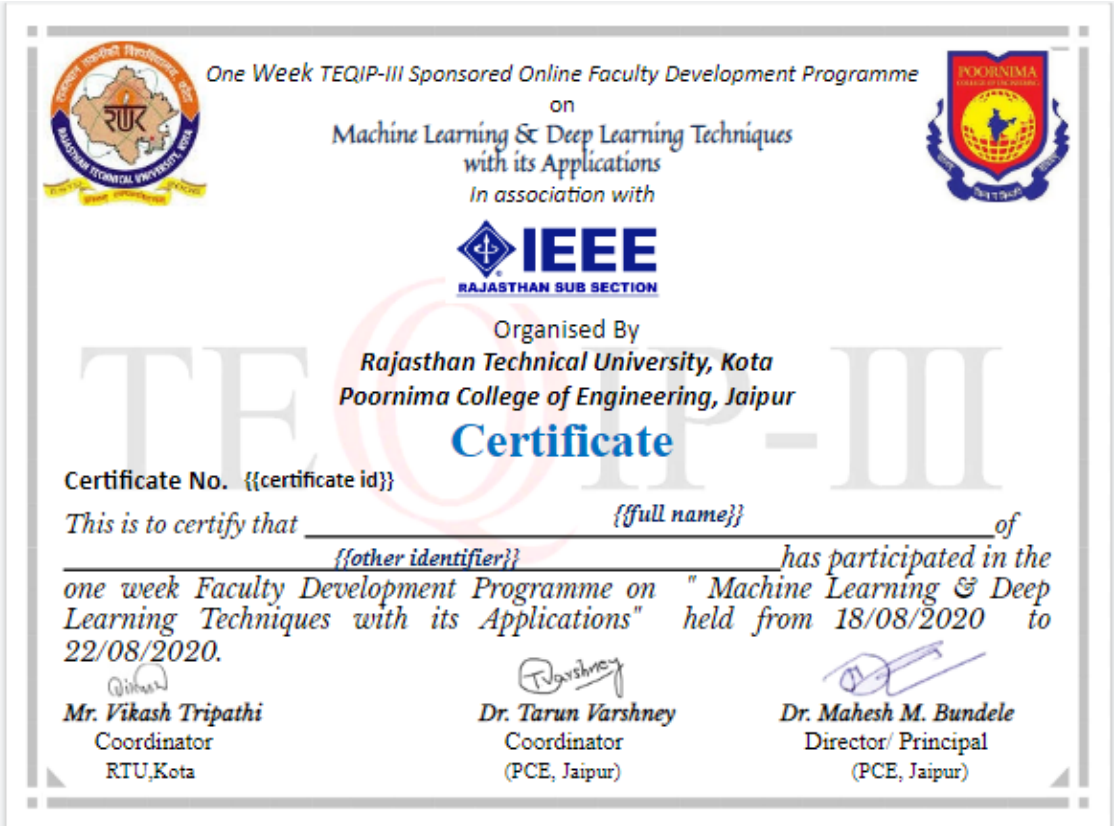




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- **CERTIFICATE FORMATE:**



One Week TEQIP-III Sponsored Online Faculty Development Programme
on
Machine Learning & Deep Learning Techniques
with its Applications
In association with

IEEE
RAJASTHAN SUB SECTION

Organised By
Rajasthan Technical University, Kota
Poornima College of Engineering, Jaipur

Certificate

Certificate No. {{certificate id}}

This is to certify that {{full name}} of {{other identifier}} has participated in the one week Faculty Development Programme on " Machine Learning & Deep Learning Techniques with its Applications" held from 18/08/2020 to 22/08/2020.

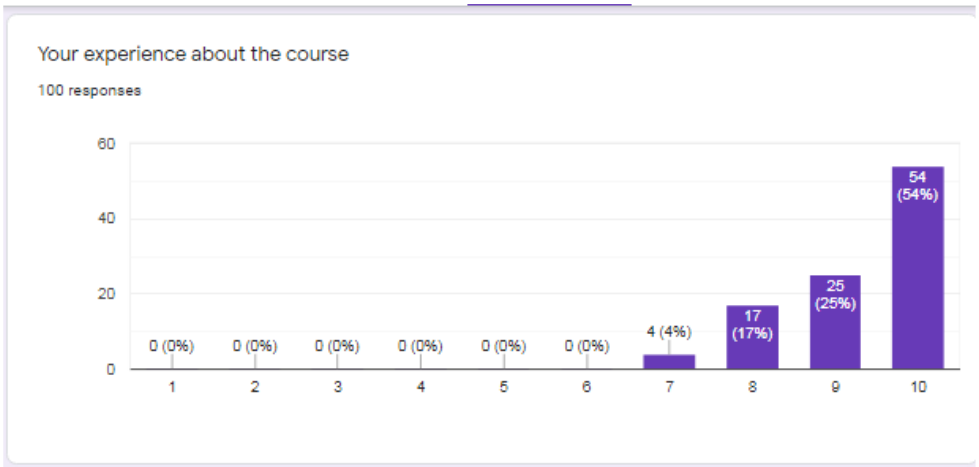
Mr. Vikash Tripathi
Coordinator
RTU,Kota

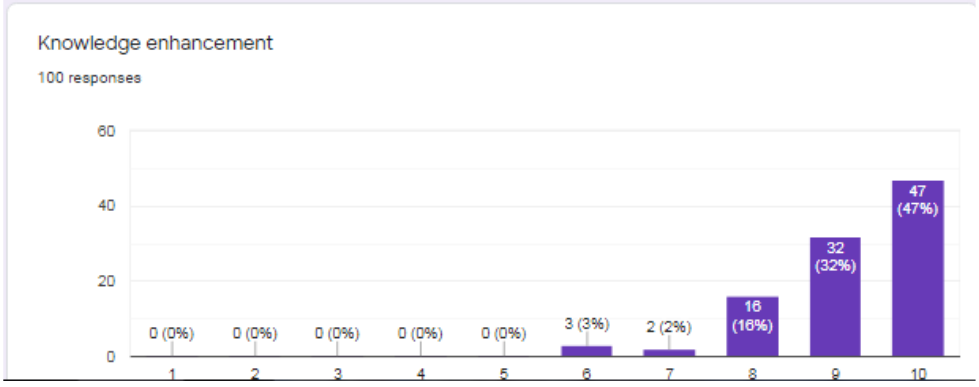
Dr. Tarun Varshney
Coordinator
(PCE, Jaipur)

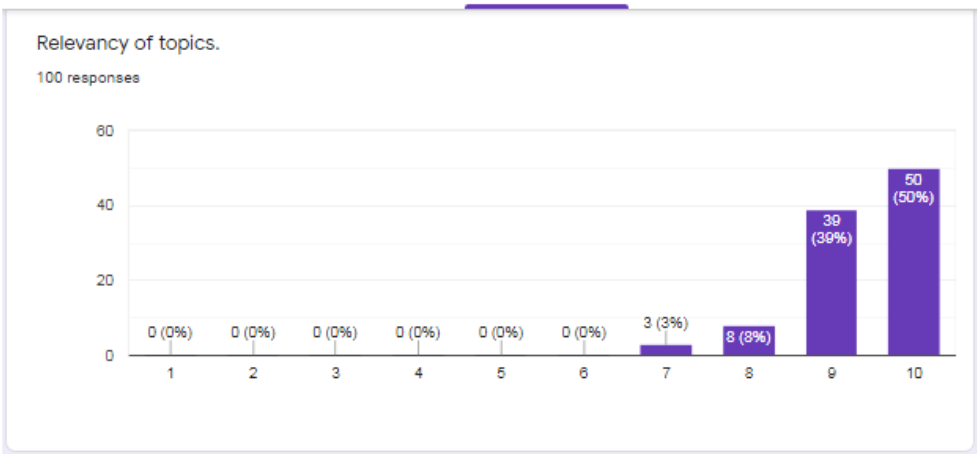
Dr. Mahesh M. Bundele
Director/ Principal
(PCE, Jaipur)

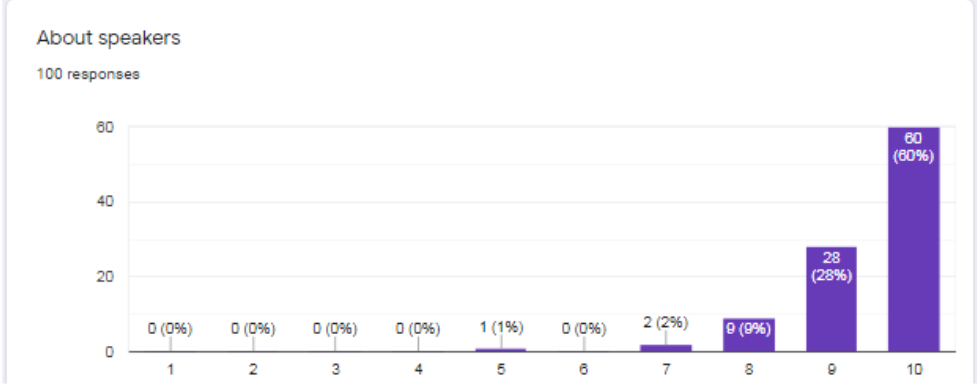
Dr. Mahesh Bundele
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- **FEEDBACK ANALYSIS:**





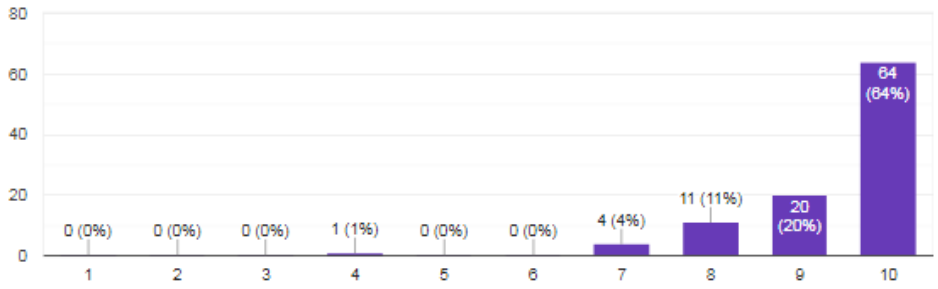




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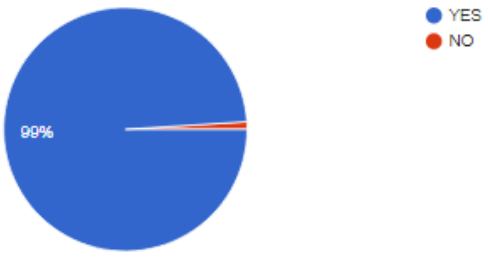
General Arrangement

100 responses



In future you want to attend such course at this Institute (Poornima College of Engineering, Jaipur).

100 responses



Knowledge gain by the course

100 responses

Yes
Good
Machine Learning
good
yes
DL
Great
Excellent
Lots of learning

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Topic that can be covered in the next course

100 responses

AI

Blockchain

Data Science

IOT

AI

Machine Learning

Python

yes

Virtual and augmented reality.

Knowledge gain by the course

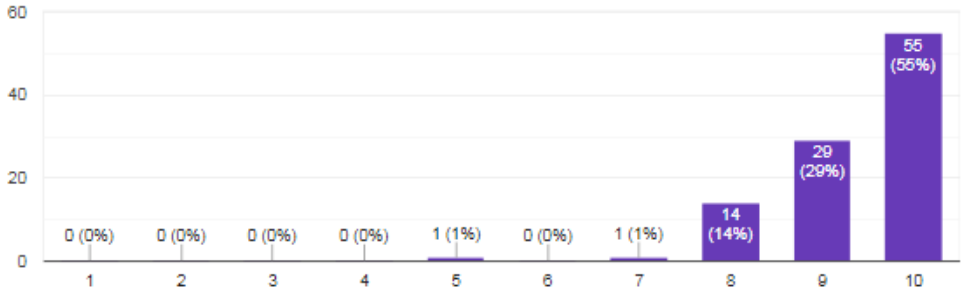
100 responses

Yes

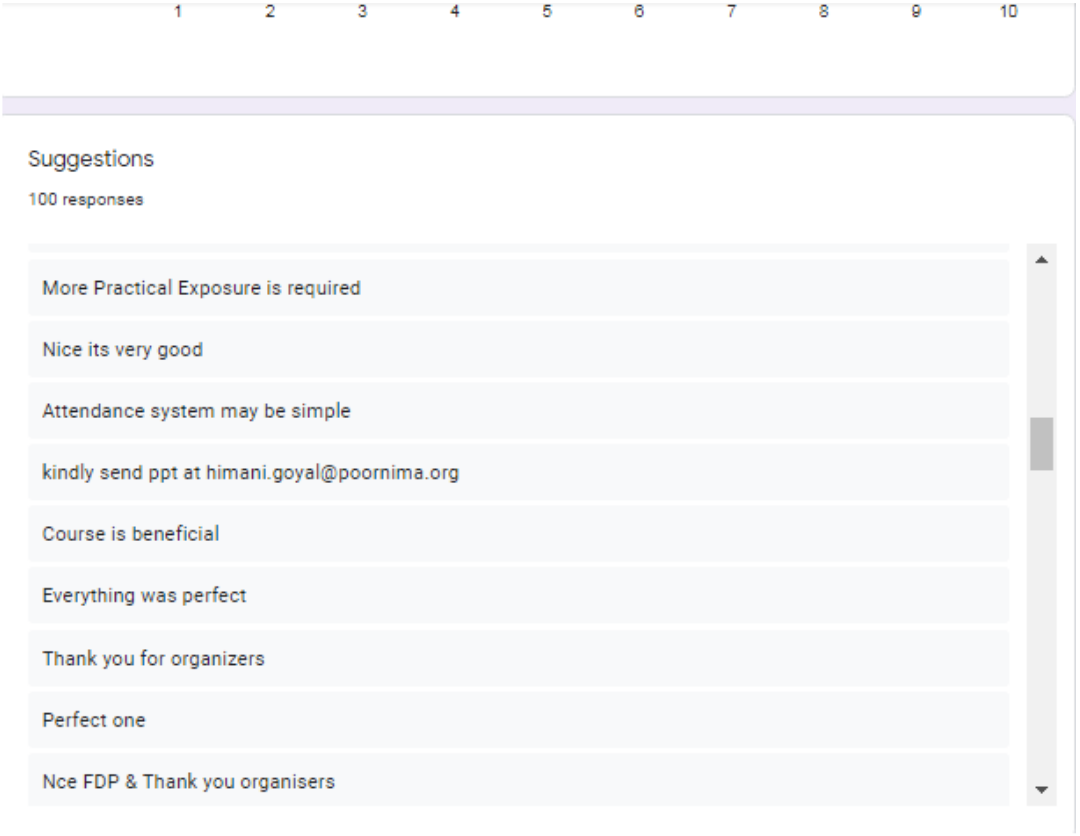
Good

Overall experience of the course

100 responses



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- **LIST OF PARTICIPANTS:**

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3.	VAISHALI SHIRSATH	SANDIP UNIVERSITY, NASHIK	Nashik
4.	Mohammad Asif Iqbal	Poornima College of Engineering	Jaipur
5.	Ruchi Varshney	MIT Moradabad	Moradabad
6.	Dr. Omprakash Sikhwal	Poornima Institute of Engineering and Technology, Jaipur	Jaipur
7.	Dr. Amit Shrivastava	Poornima University Jaipur	Sitapura
8.	DR. RUPALI SHRIVASTAVA	VIVEKANANDA GLOBAL UNIVERSITY	JAIPUR
9.	A. KAVITHA	ADITANAR COLLEGE OF ARTS AND SCIENCE	ADITANAR COLLEGE OF ARTS AND SCIENCE, TIRU[illegible]

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11.	Ms. Deepika Chauhan	SKITM, Indore	Indore
12.	Dhruv Saxena	Government Engineering College Ajmer	Civil Department, Government Engineering College Ajmer
13.	SUSHANTA KUMAR PRADHAN	Radhakrishna Institute of Technology and Engineering, Bhubaneswar	Bhubaneswar
14.	Dr. Ch.V. Raghavendran	Aditya College of Engineering & Technology	Kakinada
15.	Prashant Kumar	CTAE UDAIPUR	plot no 240, flat no 301 nandpuri-b near mahima panache
16.	UJJAL DEY	Jalpaiguri Government Engineering College	Jalpaiguri, West Bengal
17.	Dr. Sanagavarapu Neelima	Priyadarshini Institute of Science and Technology for Women	Khammam
18.	YESHUDAS ANTHONYDAS MUTTU	Don Bosco College of Engineering	Margao, Goa
19.	FIRASATH NABI	Baba Ghulam Shah Badshah University	Rajouri, J&K
20.	SIVAMURUGAN K	VSVN POLYTECHNIC COLLEGE	VIRUDHUNAGAR -626001
21.	Swathi Somayaji	S D M Institute of technology, ujire	S D M I T staff quatress ujire.
22.	Dr. Sandeep Gupta	JECRC University Jaipur	Electrical Engineering Department, JECRC University Jaipur
23.	SARAVANAN S T	VSVN POLYTECHNIC COLLEGE	College road
24.	Dr. Chaitanya Singh	SKITM, Indore.	House No. 237, Giriraj Dham, NX, Maksi Road Dewas.
25.	Monika Rani	Meerut Institute of Engineering and Technology Meerut	Baghpat Bypass Meerut
26.	MANISHA KUMAWAT	POORNIMA COLLEGE OF ENGINEERING	SITAPURA
	Narendran P	Gobi Arts & Science College	[illegible] am

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27.			
28.	Dr.Padmaja.Pulicherla	Teegala Krishna Reddy Engineering College	Hyderabad
29.	Dr. Navneet Kumar Verma	VIT BHOPAL UNIVERSITY	Kotri Kalan, Ashta, Near, Indore Road, Bhopal, Madhya Pradesh 466114
30.	DUVVURI BHARGAVI	Andhra University College of engineering	Visakhapatnam
31.	Neenu Sebastian	SCMS School of Engineering and Technology	Ernakulam Kerala
32.	Asha S	SCMS School of Engineering and Technology	Vidya Nagar, Karukutty, 683576
33.	LAKSHMIPATHI V	Ramaiah college of arts science and commerce	MSR Nagar, Bangalore, karnataka-560054
34.	Debabrata Barman	Jalpaiguri Polytechnic Institute	Jalpaiguri ,WB-735101
35.	Rosebell Paul	SCMS College of Engineering and Technology	2/423, OORRIALE HABITAT
36.	Kaustubh Sunil Kalkonde	VYWS's PRMCEAM Badnera Amravati	New Express Highway Narendra Amravati 444701
37.	VARUN G MENON	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY	ERNAKULAM, KERALA, INDIA
38.	SHAHEENA KV	ANSAR WOMEN'S COLLEGE PERUMPILAVU	Karikkad PO,Thrissur,680519
39.	Santosh Kumar Satapathy	Pondicherry Engineering College,Puducherry	Puducherry
40.	Nikhat Fatma Mumtaz Husain Shaikh	Anjuman-I-Islam's Kalsekar Technical Campus,School of Engineering and Technology, New Panvel	Plot No. 2 & 3, Sector - 16, Near Thana Naka, Khandagao, New Panvel, Navi Mumbai, Maharashtra 410206
41.	Atrakesh Pandey	Poornima Institute of Engineering and Technology	ISI-2,RIICO Institutional Area,Sitapura ,Jaipur
42.	R.VELMURUGAN	NPA CENTENARY POLYTECHNIC COLLEGE	SAKTHI MALAI, KOTAGIRI - 643217 TAMILNADU

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43.	Dr. Pushpendra Singh	JK Lakshmipat University Jaipur	Near Mahindra SEZ, Mahapura, Ajmer Road, Jaipur
44.	Ramya Srikanteswara	Nitte Meenakshi Institute Of Technology	govindapura,gollahalli,yelahanka,Bangalore
45.	N.SWARNALATHA	A.D.J.DHARMAMBALPOLYTECHNIC	46,Sivan Sannathi Street,Nagapattinam
46.	BRIJRAJ SINGH SOLANKI	Poornima College of Engineering, Jaipur	ISI-06, RIICO Institutional Area, Sitapura, Jaipur
47.	Mr. SONU KUMAR PRADHAN	UN AUTONOMOUS COLLEGE OF SCIENCE & TECHNOLOGY, CUTTACK	Baideswar Colony, Cuttack
48.	VIJI GOPAL	SCMS School of Engineering & Technology	KARUKUTTY, COCHIN, KERALA - 683 582
49.	K. Valarmathi	Virudhunagar S.Vellaichamy Nadar polytechnic college	College road, Virudhunagar
50.	S.ANAND	IRT POLYTECHNIC COLLEGE, CHROMEPET, CHENNAI.	CHROMEPET, CHENNAI
51.	Sumanth Jain B	SDM Institute of Technology,Ujire	SDM Institute of Technology,Ujire Belthangady Taluk, Dakshin kannada, Karnataka, 574240
52.	Sreeja Rajesh	SCMS School of Engineering &Technology	Karukutty, Ernakulam
53.	R.PRASANTHI@PUNITHAVATHI	A.D.J.DHARMAMBAL POLYTECHNIC COLLEGE, NAGAPATTINAM	A.D.J.DHARMAMBAL POLYTECHNIC COLLEGE, NAGAPATTINAM-611 001
54.	Dr. Garima Mathur	Poornima College of Engineering, Jaipur	ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022
55.	Mrs V.SABITHA	Vaagdevi College Of Engineering	Warangal
56.	Geethu S Kumar	SCMS College of Engineering, Angamaly Kerala	SSET, Angamaly,Cochin,Kerala
57.	LAXMI NARAYAN BALAI	YAGYAVALKYA INSTITUTE OF TECHNOLOGY, JAIPUR	YIT Lane,Opp. Chokhi Dhani [illegible] Road,Sitapura,

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			Jaipur 302022
58.	SNEHA PRASAD	SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY	yelahanka bangalore karnataka
59.	Dr.N.Kopperundevi	Swarnanadhra College of Engineering and Technology	Narasapur,Andhra Pradesh
60.	Chinmayee Rout	Ajay Binay Institute of Technology	Cuttack, Odisha
61.	Dr. Deepika Agarwal	Meerut Institute of Engineering and Technology, Meerut	N.H. 58, Delhi-Roorkee Highway, Baghpat Bypass Road Crossing, Meerut, Uttar Pradesh 250005
62.	PRAFULLA KUMAR SAHOO	Radhakrishna Institute of Technology and Engineering	Bhubaneswar
63.	S.NEDUNCHEZHIAN	Sankar Polytechnic College, Sankarnagar	Sankarnagar-627357, TN
64.	Dr S SRINIVASULU RAJU	Velagapudi Ramakrishna Siddhartha Engineering College	VIJAYAWADA
65.	Chhabildas Madhukar Gajare	ADYPU Pune	ADYPU Pune
66.	Dr S VIMALA	Bhakthavatsalam Polytechnic College	Bhakthavatsalam Polytechnic College, Kanchipuram
67.	PROF. RANJIT ARJUN KATKAR	DR. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD.	BANAWADI, KARAD.
68.	SUSMITA BASAK	Aliah university	DUMDUM
69.	Dr. Sandeep Gupta	JECRC University, Jaipur	Electrical
70.	Sunita Chahar	RTU, KOTA	EED, RTU, Kota
71.	Nilesh Kulkarni	SKNCOE, Pune	Hadapsar, Pune - 411028
72.	Pabitra Ojha	Radhakrishna Institute of Technology and Engineering	Bhubaneswar
73.	MANAM VAMSI KRISHNA	MALINENI LAKSHMAIAH ENGINEERING COLLEGE	Singarayakonda
74.	Manas Singhal	Moradabad Institute of Technology, Moradabad	Ram Ganga Vihar, Phase II
75.	Dinesh soni	UD RTU Kot	K[illegible]

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76.	AMRENDRA KUMAR SHARMA	SHRI JAI NARAIN MISRA P.G. COLLEGE, LUCKNOW	LUCKNOW UP
77.	Dr.Balamurugan Krishnan	Swarnandhra College of Engineering and Technology	Narsapur, Andhra Pradesh
78.	Devendra Kumar Doda	Poornima College of Engineering	Sitapura, Jaipur, Rajasthan
79.	GAURAV JAIN	Poorniima College of Engineering	Jaipur
80.	Pankaj Gakhar	Poornima College of Engineering	Jaipur
81.	Gaurav Srivastava	PCE, Jaipur	poornima college of engineering
82.	Dr HIMANI GOYAL SHARMA	POORNIMA COLLEGE OF ENGINEERING	POORNIMA COLLEGE OF ENGINEERIN G
83.	Ekata Sharma	Poornima College of Engineering	jaipur
84.	Dr. Ashok Kumar Kajla	Poornima College of Engineering	RIICO Industrial Area, Sitapura Jaipur
85.	Manish Sharma	Poornima College of Engineering, Jaipur	ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Pincode-302022
86.	Dr. Harshwardhan Singh Chouhan	Poornima College of Engineering	Sitapura Industrial Area, Jaipur
87.	VIRENDRA SANGTANI	Poornima college of engineering	ISI-6
88.	Dr. Amit Saxena	Moradabad Institute of Technology	Ramganga Vihar phase 2, Moradabad, U. P.
89.	Dr.Deepika chauhan	Poornima college of Engineering	Jgatapura
90.	Dr. Pravin M. Sonwane	Poornima College Of Engineering, Jaipur	Jaipur
91.	Narendra Singh Pal	Moradabad Institute of Technology Moradabad	Dett. of ECE , Moradabad Institute of Technology Moradabad UP
92.	Pankaj Bhardwaj	MIT, Moradabad	Ram Ganga Vihar Phase-2, Moradabad UP
93.	Devendra Somwanshi	Poornima College of Engineering	Jaipur

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94.	Arpit Singh Bhadoriya	Poornima College of Engineering	Jaipur
95.	Saravanan B	VSVN Polytechnic College	College Road
96.	(Dr.) YASMEEN BEGUM	SHRI JJT UNIVERSITY, RAJASTHAN	M. B Nagar, Kalaburagi
97.	Kumar Manu	Moradabad Institute of Technology	B-24, Ramganga Vihar Phase-2, Moradabad
98.	J. JAYAPRAKASH	KARAIKAL POLYTECHNIC COLLEGE, KARAIKAL	Varichikudy, Karaikal
99.	Nafi'u Abdulkadir	University of Leipzig	Augustusplatz, Leipzig Germany
100.	MANU SINGH	KDK ENGINEERING COLLEGE NAGPUR	Nandanvan Nagpur

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A Report on 2-days Faculty Development Program

Flyer:



- **TITLE AND DURATION:** "Mobile Network Security & Smart Antenna**"** March 6-7, 2020
- **SPONSORS:** Nil
- **ORGANIZERS:** Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES:

The main objective of this workshop was to provide an exposure to the participants to the state Advances in Mobile Network Security & Smart Antenna through interaction with different eminent experts. The main content of Workshop were LTE-Advanced and 5G Security, SATCOM Security, Wi-Fi, Bluetooth and NFC Security, antenna radiation patterns and testing and optimizing antennas.

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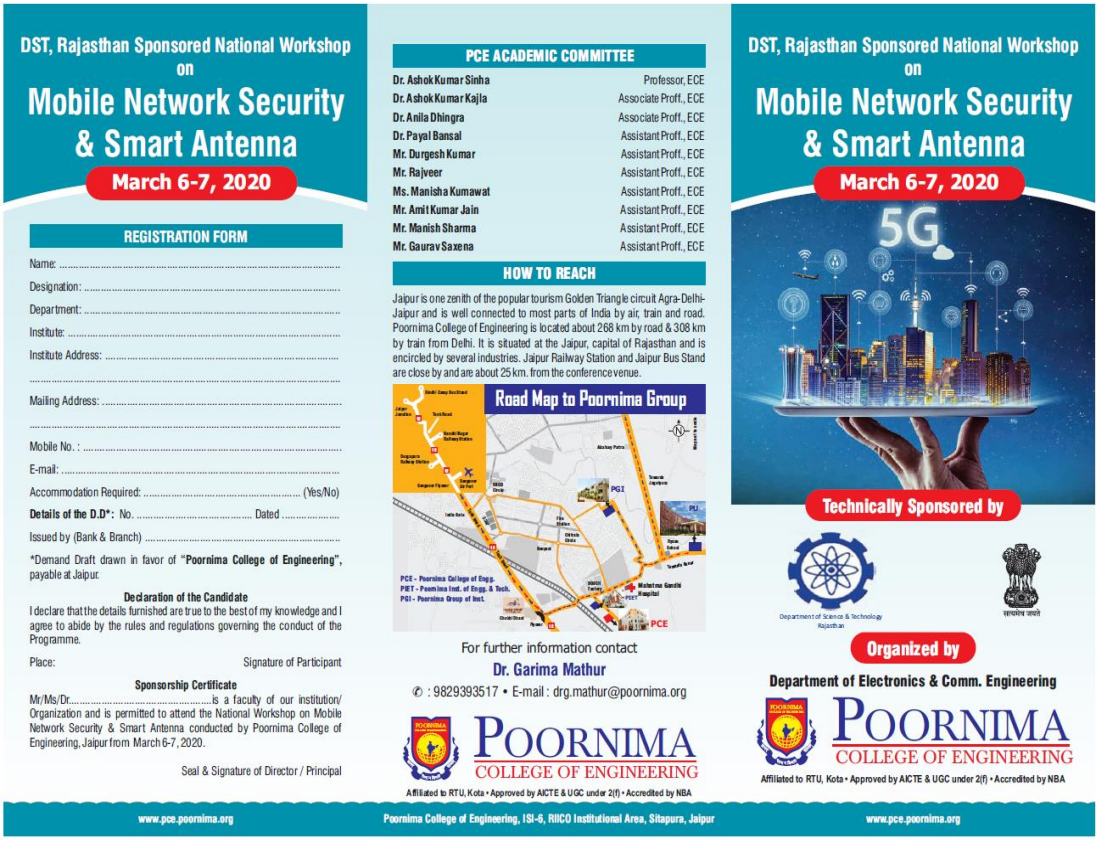
- **EXPECTED OUTCOMES:**

1. Gain expertise of Mobile Network Security like LTE and LTE-Advanced and 5G Security etc. that can be used to solve various Complex and Smart Engineering Systems.

2. Understand features of Smart Antenna in the context of their concept, various adaptive beam forming techniques.

3. Design antenna approaches used for planning, designing, operating, testing and optimizing antennas and antenna systems.

- **BROCHURE / POSTER / LEAFLET / FLYER:**



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POORNIMA COLLEGE OF ENGINEERING

Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM
- An excellent institution building its rapport in all sectors of education, research and development

WORKSHOP OBJECTIVES WITH EXPECTED OUTCOMES

The main objective of this workshop is to provide an exposure to the participants to the state Advances in Mobile Network Security & Smart Antenna through interaction with different eminent experts.

Explosive growth of function rich smart devices coupled with rapid advances in smart networking infrastructure and upsurge of smart antennas have transformed the functional capabilities and service offering of the conventional wireless networks into next generation 5G networks.

In view of explosive growth in the number of digital cellular subscribers, service providers are becoming increasingly concerned with the limited capacities of their existing networks with security. This concern has led to the deployment of smart antenna systems throughout major metropolitan cellular. Such a configuration dramatically enhances the capacity of a wireless link through a combination of diversity gain, array gain, and interference suppression. Increased capacity translates to higher data rates for a given number of users or more users for a given data rate per user.

Expected Outcomes:

1. Gain expertise of Mobile Network Security like LTE and LTE-Advanced and 5G Security etc. that can be used to solve various Complex and Smart Engineering Systems.
2. Understand features of Smart Antenna in the context of their concept, various adaptive beam forming techniques.
3. Design antenna approaches used for planning, designing, operating, testing and optimizing antennas and antenna systems.

WORKSHOP CONTENTS

- Overview of Mobile Networks Security & Smart Antenna
- Concepts behind LTE and LTE-Advanced and 5G Security
- Concepts of the antenna theory and antenna types
- SATCOM Security
- Concepts behind Wi-Fi, Bluetooth and NFC Security
- Understand the basic antenna terminology and terms
- Discuss concepts behind antenna radiation patterns, antenna pattern shaping, beam width, ratios,
- Discuss concepts of suppression, passive intermodulation, mechanical and electrical down tilt, reflectors, linear antenna types, array antenna, directional antenna and the Yagi.
- Discuss the effect of antenna radiation patterns and the role of various antenna components.
- Summarize the approaches used for planning, designing, operating, testing and optimizing antennas and antenna systems

REGISTRATION

Candidates should complete the enclosed registration form and send scanned copy by mail to the coordinator: drg.mathur@poornima.org. Confirmation of eligible candidates will be on FIRSTCOME-FIRST-SERVE basis. The complete registration form should be received to the coordinator till February 29, 2020.

HOW TO APPLY

The interested participants are requested to complete the online registration form **https://shorturl.at/szI19** A registration fee for participants form industries is ₹500/- which can be paid through Demand Draft.

IMPORTANT DATES

Deadline for receiving Registration Form 02. 03. 2020
Intimation of Selection : 04. 03. 2020

ACCOMMODATION

Accommodation will be provided to the participants on prior request based on availability in hostel on payment.

ELIGIBILITY

Faculty Members/Ph.D/PG/UG Scholors from AICTE recognized Engineering colleges & Polytechnic colleges.

PATRON

Dr. S. M. Seth
Chairman (Emeritus) Poornima Group

Ar. Shashikant Singhi
Chairman, Poornima Group

ADVISORS

Mr. M. K. M. Shah
Director (Admin & Finance)
Poornima Group

Mr. Hari Singh Shekhawat
Director, (Infrastructure)
Poornima Group

Ar. Rahul Singhi
Director, Poornima Group

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

Mr. Pankaj Dhemla
Vice-Principal
Poornima College of Engineering

COORDINATORS

Dr. Garima Mathur Professor
Tarun Mishra Assistant Professor

ACCOMMODATION & TRANSPORT

Mr. Ashwini Lata Dean (Hostel), PG
Mr. Amit Gupta Proctor-In-Chief, PG
Mr. B. P. Yadav Transport Officer, PG
Mr. Ajmeet Singh Proctor, PCE
Mr. Anmol Chaturvedi Proctor, PCE

- **PROGRAM SCHEDULE:**

Program Outline		
Friday, Day 1: 06 March, 2020		
Activity	**Duration**	**Time**
Welcome Reception and Registration Opens	30 Min.	8.30 AM– 09.00 AM
Inaugural Function A. **Chief Guest : Prof. R. P. Yadav,** Professor-HAG, MNIT Jaipur B. **Dr. Mahesh Bundele**, Director, PCE, Jaipur C. **Mr. Pankaj Dhemla**, Vice Principal, PCE, Jaipur D. **Dr. Garima Mathur**, Coordinator, PCE, Jaipur **Venue: CG-05, Seminar Hall, PCE, Jaipur**	30 Min.	9.00 AM – 9.30 AM
Expert Talk-1 **Topic: Concepts behind LTE and LTE-Advanced and 5G Security** **Resource Person**: **Prof. R. P. Yadav,** Professor-HAG, MNIT Jaipur **Venue: CG-05, Seminar Hall, PCE, Jaipur**	60 Min.	9.30 AM – 10.30 AM
High Tea	30 Min.	10.30 AM – 11.00 AM

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Expert Talk-2 **Topic: Compact Planar Antennas and their Applications** **Resource Person**: **Dr. Sanyog Rawat,** Manipal University, Jaipur **Venue: CG-05, Seminar Hall, PCE, Jaipur**	120 Min.	11.00 AM - 1.00 PM
Lunch Break	30 Min.	1.00 PM - 1.30 PM
Lab Session **Topic: CST STUDIO SUITE** **Resource Person: Dr. Payal Bansal & Mr. Tarun Mishra** **Venue: AS-02, Computer Lab, PCE, Jaipur**	90 Min.	1.30 PM–3.00 PM
Saturday, Day 2: 07 March, 2020		
Activity	**Duration**	**Time**
Expert Talk-3 **Topic: Some Recent Results on Design, Operation and Security of IoT and Cyber-physical Systems** **Resource Person: Dr. Arpan Chattopadhya,** IIT Delhi **Venue: CG-05, Seminar Hall, PCE, Jaipur**	105 Min.	08.45 AM - 10.30 AM
High Tea	30 Min.	10.30 AM– 11.00 AM
Expert Talk-4 **Topic: Mobile & Cyber Security Threats & Their Countermeasures** **Resource Person: Dr. Kota Solomon Raju,** Senior Principal Scientist, CEERI, Pilani **Venue: CG-05 Poornima College of Engineering, Jaipur**	105 Min.	11.00 AM- 12.45 PM
Lunch Break	45 Min.	12.45 PM - 1.30 PM
Valedictory Session	30 Min.	1.30 PM – 2.00 PM

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- **INAUGURAL SESSION:**

"Mobile Network Security & Smart Antenna"
March 6-7, 2020
Department of Electronics & Communication Engineering,
Poornima College of Engineering, Jaipur
Inaugural Session
Q- Sheet

Friday, 6th March, 2020

Venue: CG 05, PCE, Jaipur

S. No	Activity	Duration	Time
1	Reporting and Registration of Delegates	30 Min.	08:30 AM-09:00 AM
2	Welcome of Dignitaries by the anchors	2 Min.	09:00 AM-09:02 AM
3	Request the dignitaries for lightning of lamp E. **Chief Guest : Prof. R. P. Yadav,** Professor-HAG, MNIT Jaipur F. **Dr. Mahesh Bundele**, Director, PCE, Jaipur G. **Mr. Pankaj Dhemla**, Vice Principal, PCE, Jaipur H. **Dr. Garima Mathur**, Coordinator, PCE, Jaipur	3 Min.	09:02 AM-09:05 AM
4	Felicitation of Chief Guest **Prof. R. P. Yadav** by **Dr. Mahesh M Bundele**, Principal & Director, PCE, Jaipur	2 Min.	09:05 AM-09:07 AM
5	Welcome Address by **Dr. Garima Mathur**, Professor ECE, PCE, Jaipur	5 Min.	09:07 AM-09:12 AM
6	Words of Wisdom by **Dr. Mahesh M Bundele**, Director, PCE, Jaipur	10 Min.	09:12 AM-09:22 AM
7	Address by **Prof. R. P. Yadav,** Professor-HAG, MNIT Jaipur	60 Min.	09:22 AM-10:22 AM
8	Vote of Thanks by **Dr. Ashok Kajla**, Professor, ECE, PCE	3 Min.	10:22 AM-10:25 AM
9	Group Photograph	5 Min.	10:25 AM-10:30 AM
10	**High Tea**	30 Min.	10:30 AM-11:00 AM

- **DETAILS OF RESOURCE PERSONS:**

1. Prof. R. P. Yadav, Professor-HAG, MNIT Jaipur
2. Dr. Sanyog Rawat, Manipal University, Jaipur
3. Dr. Arpan Chattopadhya, IIT Delhi

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4. Dr. Kota Solomon Raju, Senior Principal Scientist, CEERI, Pilani

- **GLIMPSES OF CONDUCTION:**

Day 1: 6th March: Inaugural session witnessed the presence of Chief Guest Prof. R. P. Yadav, Professor-HAG, MNIT Jaipur, Dr. Mahesh Bundele, Director, PCE, Jaipur,



Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur, Coordinator, PCE, participants along with the faculty members. The event started with the lamp lighting and felicitation of the Chief Guest Prof. R. P. Yadav by Dr. Mahesh Bundele, Director PCE. Dr. Garima Mathur put light upon workshop and its content.

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In welcome address Dr. Mahesh M. Bundele, director, PCE, motivated the students to adopt the new techniques related Security and smart antenna. Prof. R.P Yadav presented his expert talk on the topic "Concepts behind LTE and LTE-Advanced and 5G Security". Another Talk was delivered by Dr. Kanad Ray, Professor, Amity University on Topic "Biomaterial Inspired Antenna and Development of Humanoid Bot.



After Lunch Hands on Session on Compact Antenna Planner Design with the help of CST studio was conducted by Dr. Payal Bansal and Mr. Tarun Mishra.

- **Day 2: 7th March:** Dr. Sanyog Rawat, Manipal University Jaipur, delivered his talk on "Compact Planar Antennas and their Applications" at 8.45 am. In his two

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hour long talk he explained about various configurations of antennas and smart antenna applications. Next eminent speaker was Dr. Kota Soloman Raju, Senior Principal Scientist, CEERI Pilani. He expressed his views on Mobile & Cyber Security Threats & their Countermeasures.



After Lunch valedictory session was held Dr. Kota Soloman Raju Chief Guest, Dr. Mahesh M Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur, Coordinator, PCE, participants and faculty members attended the session.

It started with the felicitation of Chief Guest Dr. Kota Solomon Raju, by Dr. Mahesh M Bundele, Principal & Director, PCE, Jaipur. A brief report on workshop was

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presented by Dr. Garima Mathur. Valuable feedback was taken from the participants. The Certificate of participation was awarded to all the participants who successfully completed the Program.



Dr. Mahesh M Bundele congratulated the participants for taking keen interest in learning the new technologies in his address. He also appreciated the organizing team. Dr. Kota Soloman Raju said that active involvement of most prominent speakers and delegates and their innovative ideas will create a stimulating atmosphere for the further development of multi-disciplinary and convergent research in the area of mobile network security and smart antenna. Dr. Anila Dhingra, Associate Professor, ECE Deptt., PCE proposed the Vote of Thanks. At the end of the session a group photograph was taken with the Dignitaries including participants.

CONTENT DELIVERY / PRACTICAL SESSIONS:



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VALEDICTORY SESSIONS

Q- Sheet

Saturday, 7th March, 2020

Venue: CG 05, PCE, Jaipur

S. No	Activity	Duration	Time
1	Welcome of Dignitaries by the anchors A. **Chief Guest : Dr. Kota Solomon Raju,** Senior Principal Scientist, CEERI, Pilani B. **Dr. Mahesh Bundele**, Director, PCE, Jaipur C. **Mr. Pankaj Dhemla**, Vice Principal, PCE, Jaipur D. **Dr. Garima Mathur**, Coordinator, PCE, Jaipur	3 Min	1:30 PM – 1:33 PM
2	Felicitation of Chief Guest **Dr. Kota Solomon Raju**, by Dr. Mahesh M Bundele, Principal & Director, PCE, Jaipur	3 Min	1:33 PM – 1:36 PM
3	Feedback of Workshop	5 Min	1:36 PM – 1:41 PM
4	Words of Wisdom by **Dr. Mahesh M Bundele,** Director, PCE	5 Min	1:41 PM – 1:46 PM
5	Address by Chief Guest **Dr. Kota Solomon Raju,** Senior Principal Scientist, CEERI, Pilani	5 Min	1:46 PM – 1:51 PM
6	Certificate Distribution	10 Min	1:51 PM – 2:01 PM
7	Vote of Thanks by **Dr. Anila Dhingra**, Associate Professor**,** ECE, PCE	2 Min	2:01 PM – 2:03 PM
8	Group Photograph	2 Min	2:03 PM – 2:05 PM

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LIST OF PARTICIPANTS:

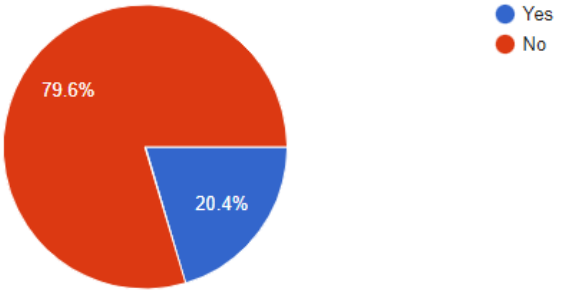
S. No.	Name of Participants	Name of Organization
1	Kirti Vyas	Arya College of Engineering and IT
2	Surendra Singh Dua	Global Institute of Technology
3	Lakshya Rustagi	Poornima College of Engineering
4	Himani Goyal Sharma	Poornima College of Engineering
5	Vikas Verma	Jaipur National University, Jaipur
6	Dr. Sandeep Vyas	JECRC College of Engineering
7	Prachi Mathur	Poornima College of Engineering
8	Dr. Pramod Shrama	Poornima College of Engineering
9	Mohd Asif Khan	Jaipur National University Jaipur
10	Shreya Asthana	Jaipur National University
11	Saloni Jain	Jaipur National University
12	Abhinandan Kumar	Poornima University
13	Dr. Pankaj Dadheech	SKIT, JAIPUR
14	Vivek Bhojak	Anand International College of Engineering, Jaipur
15	Vineet Chhabra	Anand International College of Engineering, Jaipur
16	Gajendra Singh	Anand International College of Engineering, Jaipur
17	Rakshita Singhal	Anand International College of Engineering, Jaipur
18	Sukhdarshan Vinayak	Global Institute of Technology
19	Mohammad Idrish Rajja	Global Institute of Technology
20	Ravi Prajapat	Global Institute of Technology
21	Dristi Ranjan	Global Institute of Technology
22	Surendra Kumar Saini	Jaipur National University, Jaipur
23	Sourav Singh	Global Institute of Technology
24	Abhishek Gupta	Poornima College of Engineering

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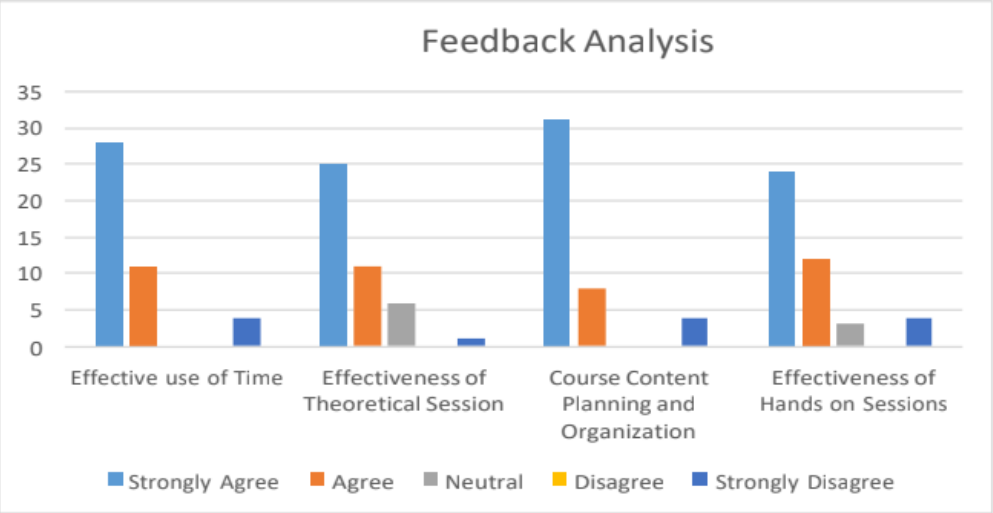
25	Rahul Gothwal	Jaipur National University
26	Manaal Mishra	Poornima College of Engineering
27	Yogendra Kumar Katiyar	Regional College For Education Research and Technology
28	Bhoopendra Sharma	Suresh Gyan Vihar University Jaipur
29	Monika Mathur	SKIT, JAIPUR
30	Dr. Pramod Sharma	Regional College For Education Research And Technology, Jaipur.
31	Ankur	SKIT, JAIPUR
32	Shreya Mathur	Poornima College of Engineering
33	Arvind Singh	Poornima College of Engineering
34	Aman Agarwal	Poornima College of Engineering
35	Bhavana Addania	Poornima College of Engineering
36	Aman Sharma	Poornima College of Engineering
37	Itee Soni	Poornima College of Engineering
38	Siddhant Mundra	Poornima College of Engineering
39	Srishti Meena	Poornima College of Engineering
40	Arpit Sharma	Poornima College of Engineering
41	Gopesh Yadav	Poornima College of Engineering
42	Ishita Shivran	Poornima College of Engineering
43	Mohit Jangir	Arya College of Engineering and IT
44	Lokesh Chandra Lohar	Arya College of Engineering and IT
45	Mandeep Singh	Arya College of Engineering and IT
46	Lavish Chouhan	Arya College of Engineering and IT
47	Tapan Nahar	Manipal University Jaipur
48	Ishika Jain	Poornima College of Engineering
49	Kunal Singh Ranawat	Poornima College of Engineering
50	Harshit Khandelwal	Poornima College of Engineering

FEEDBACK ANALYSIS:

1) Do you want these types of FDP in Future?



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POORNIMA
COLLEGE OF ENGINEERING

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

A Report on Two Days Faculty Development Program

TITLE AND DURATION: "Implementation of Outcome Based Education" from 14th – 15th Feb, 2020.

SPONSORS: Poornima College of Engineering

SUPPORTERS: N/A.

ORGANIZERS: Computer Engineering Department.

OBJECTIVES:

The objective of this FDP was to nurture the philosophy of Outcome Base Education (OBE) and to build the capacity of the young Faculty Members / Heads of department / Principal so as to facilitate its institutionalization in the Teaching-Learning System and other Academic Processes of the Institution.

- To Provide knowledge of outcome-based teaching and learning methods.
- Early career researchers, young academicians, and other participants will be trained to improve their knowledge and skills in outcome-based teaching and research.
- To develop the course outcomes (CO) for the courses.
- To give a thorough understanding of teaching pedagogy.
- To allow participants to discuss and learn about the challenges that education and research face in the current virtual era.

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EXPECTED OUTCOMES:

- Participants will be able to experiment with outcome-based teaching and learning methods.
- Participants will be able to identify emerging research areas in a variety of specializations
- and fields of study.
- With the assistance of experts, participants will be able to produce quality research work that will be published in reputable journals at the national and international levels.
- The participants will be able to appreciate the challenges that teaching-learning methods and research face, as well as better prepares themselves for them.

BROCHURE / POSTER / LEAFLET / FLYER:



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POORNIMA COLLEGE OF ENGINEERING



Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet

Affiliated to RTU, Kota & approved by AICTE, New Delhi

The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)

The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

An excellent institution building its rapport in all sectors of education, research and development

ABOUT THE PROGRAM

Accreditation of Educational institutions and Technical education programs by National and International Agencies is mandatory in the present scenario. The accreditations by NBA will help the Engineering institutions to improve the quality of education, and produce high-quality graduates. This Faculty Development Programme (FDP) addresses the need to enhance the knowledge about the latest Outcome-Based Education (OBE) and its implications in teaching, assessment, and evaluation. This workshop aims to help the faculty members of Engineering colleges to have an idea about preparing for NBA Accreditation.

Moreover, the objectives of FDP are as follows;

- Create awareness about the Outcome-Based Education System
- Educate the faculty members on how to reorient their teaching-learning processes based on OBE
- Understand the implementation of OBE in NBA Process

COURSE CONTENTS

- Overview of OBE
- Process of developing vision & mission of the Institute/Department.
- PEOs and PSOs and their mappings
- Developing Courses Outcomes/ Learning Outcomes (COs/ LOs)
- Mapping of COs/LOs with PO/PSO, Importance, Rubrics/formats & examples
- Design of question paper with mapping of CO/PO
- Gap finding and Actions to be taken for curriculum, Course/Lab/PO/PSO.

Registration

Candidates should complete the enclosed registration form and send scanned copy by mail to the coordinator khutetaajay@poornima.org. Confirmation of eligible candidates will be on FIRSTCOME-FIRST-SERVE basis. The complete registration form should be received to the coordinator till 13th February 2020.

REGISTRATION FEES

The registration fee is Rs. 1000/- for all participants including Kit and Lunch.

ACCOMMODATION

Accommodation will be provided to the participants on prior request based on availability in hostel on payment.

ELIGIBILITY

Faculty members from various AICTE/UGC approved colleges and universities can apply.

RESOURCE PERSON

Dr. Mrs. ShailaSubbaraman
Professor, Walchand College of Engineering, Sangli, MS

Dr. Mrs. ShailaSubbaraman, Ph. D. from I.I.T., Bombay (1999) and M. Tech. from I.I.Sc., Bangalore (1975) has a vast experience in industry in the capacity of R & D engineer and Quality Assurance Manager in the field of manufacturing semiconductor devices and ICs. She also has more than 29 years of teaching experience in Electronics Engineering. She retired as Dean Academics of autonomous Walchand College of Engineering, Sangli in 2010 and currently is working as Professor (PG) in the same college. Additionally she has worked as a NBA program evaluator for evaluating engineering programs while as an expert for giving guidance to the faculty of various engineering colleges regarding Outcome Based Education philosophy under NPIU umbrella. She was felicitated in 2017 by "Pillars of Hindustani Society" award instituted by Trans-Asia Chamber of Commerce, Mumbai for her contribution to Higher Education in Western Maharashtra.

DATE AND VENUE

FDP will be held during 14-15 February, 2020 at Poornima College of Engineering, Jaipur.

PATRON

Dr. S. M. Seth
Chairman (Emeritus) Poornima Group

Ar. Shashikant Singhi
Chairman, Poornima Group

ADVISORS

Mr. M. K. M. Shah
Director (Admin & Finance)
Poornima Group

Ar. Rahul Singhi
Director
Poornima Group

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

Er. Pankaj Dhemla
Vice-Principal
Poornima College of Engineering

COORDINATORS

Dr. Ajay Khunteta	Coordinator

PCE ACADEMIC COMMITTEE

Dr. Surendra Kumar Yadav	HOD, CSE
Dr. Virendra Sangtani	HOD, EE
Mr. Amol Saxena	HOD, IT
Dr. Ashok Kajla	Professor, ECE
Dr. Sunil Pathak	Professor, CSE
Dr. Praveen Gupta	Professor, CSE
Dr. Sunil Gupta	Asso. Professor, CSE
Dr. Neelam Chaplot	Asso. Professor, CSE
Dr. Satya Prakash Maurya	Asso. Professor, CSE
Dr. Sonal Sharma	Asso. Professor, CSE
Dr. Meenakshi Naval	Asso. Professor, CSE
Dr. Anila Dhingra	Asso. Professor, ECE
Mr. Manish Bhardwaj	Asst. Professor, CSE
Mr. Rajveer	Asst. Professor, ECE
Mr. Tarun Mishra	Asst. Professor, ECE

OBE OUTCOME-BASED EDUCATION

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PROGRAM SCHEDULE:

Poornima College of Engineering, Jaipur is organizing a Two Days Faculty Development Program (FDP) on "Implementation of Outcome Based Education" on 14th and 15th February 2020.The objective of this FDP is to make the faculty members understand how to implement Outcome Based Education and NBA Accreditation Process.

COURSE CONTENTS

- Introduction to OBE.
- Outcome-based Curriculum Design.
- Defining Vision, Mission, PEOs and PSOs.
- Defining Course Outcomes.
- Roles and Responsibilities of a Teacher in Higher Education.
- Graduate Attributes and Accreditation (NBA. NAAC. Washington Accord etc.).
- Assessment and Evaluation (Offline and Online).
- Active Learning Strategies.
- Course Files preparation and Analysis for continuous quality improvement.
- Measuring and validating attainments.

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INAUGURAL SESSION:

POORNIMA
COLLEGE OF ENGINEERING

Two Days FDP Programme
on
Implementation of Outcome Based Education
14.02.2020 to 15.02.2020

Q- Sheet Inaugural Session

Date:-14/02/2020 **Time:-09:00-11:00 AM**

S. No	Activity	Duration	Time
1.	Reporting and Registration of Delegates	30 Min	09:00 am-09:30 am
2.	Welcome of Dignitaries by the anchors	05 Min	09:30 am-09:35 am
3.	Request the dignitaries for lighting of lamp (Parallel Sarasvati Vandana)	05 Min	09:35 am-09:40 am
4.	Welcome address by Dr. Mahesh Bundele , Director, Poornima College of Engineering	5 Min	09:40 am-09:45 am
5.	Group Photograph	5 Min	09:45am-09:50 am
6.	High Tea	10 Min	09:50am-10:00 am
7.	Introduction of Outcome-based education Dr. Mrs. Shaila Subbaraman Professor, Walchand College of Engineering, Sangli	1 Hour	10:00-11:00am

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DETAILS OF RESOURCE PERSONS:

Dr. Mrs. Shaila Subbaraman Professor, Walchand College of Engineering, Sangli is the resource persons of this FDP.

CONTENT DELIVERY / PRACTICAL SESSIONS:

This Faculty Development Program intends to focus on the following Sub-themes:

- Building blocks of Outcome Based Education (OBE)
- Outcome-based NBA Accreditation & SAR.
- Outcome-based Education Framework & its Components (Vision, Mission & PEO, PSO, PO & CO).
- Mapping Outcomes, Assessment and Rubrics.
- Attainment of CO, PO and Continuous Quality Improvement.
- Project-Based Learning and Design of Outcome based Curriculum

VALEDICTORY SESSIONS:

The program was presided over by the program coordinator Dr. Ajay Khunteta and Head CSE department, Poornima College of Engineering. The valedictory function was also attended by Dr Mahesh Bundele, Director; Poornima College of Engineering Among others who attended the Valedictory function was the distinguished resource persons, participants, faculty members of Poornima College of Engineering and invitees. The welcome and overview of the Two days Faculty development program was given by the program coordinator, Dr. Ajay Khunteta .Subsequent to which the certificates were distributed to the participants on successful completion of the FDP.

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LIST OF PARTICIPANTS:

S.NO.	Name	Designation
1	Mr. AMOL SAXENA	FACULTY
2	Ms. ANU ARORA	FACULTY
3	Mr. BRIJRAJ SINGH SOLANKI	FACULTY
4	Mr. DURGESH KUMAR	FACULTY
5	Ms. MADHURI SAHAL	FACULTY
6	Ms. MANISHA KUMAWAT	FACULTY
7	Mr. ASIF IQBAL	FACULTY
8	Ms. MONIKA SURANA	FACULTY
9	Mr. RAJVEER MARWAL	FACULTY
10	Mr. RAKESH KUMAR GOYAL	FACULTY
11	Dr. REKHA NAIR	FACULTY
12	Ms. RENUKA JAIN	FACULTY
13	Mr. SANDEEP GUPTA	FACULTY
14	Mr. SANJAY KUMAR GUPTA	FACULTY
15	Ms. SHAZIA HAQUE	FACULTY
16	Dr. SUNIL GUPTA	FACULTY
17	Mr. BHANWAR VEER SINGH	FACULTY
18	Mr. CHANDAN KUMAR DUBEY	FACULTY
19	Mr. NITIN MUKESH MATHUR	FACULTY
20	Mr. SUMIT KUMAR	FACULTY
21	Mr. VAIBHAV SHARMA	FACULTY
22	Mr. VEDANSHU VASHISTHA	FACULTY
23	Mr. AMITESH KUMAR	FACULTY
24	Mr. AVINASH SHARMA	FACULTY
25	Mr. PUSHPENDRA MUDGAL	FACULTY
26	Mr. TARUN MISHRA	FACULTY
27	Ms. PRIYANKA SHARMA	FACULTY
28	Mr. SHIRISH NAGAR	FACULTY
29	Ms. ANSHU CHITTORA	FACULTY
30	Dr. DEEPIKA CHAUHAN	FACULTY
31	Dr. VIRENDRA SWAROOP SANGTANI	FACULTY
32	Ms. MEENA TEKRIWAL	FACULTY
33	Mr. AMIT KUMAR JAIN	FACULTY

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34	Mr. PRAVEEN AGRAWAL	FACULTY
35	Mr. DEEPAK BABERWAL	FACULTY
36	Ms. SAKSHI MISHRA	FACULTY
37	Mr. SHAILENDRA KASERA	FACULTY
38	Ms. RIDDHI SHRIVASTAVA	FACULTY
39	Mr. DINESH KUMAR SHARMA	FACULTY
40	Mr. RAJENDRA SINGH	FACULTY
41	Mr. PRADEEP KUMAR NATANI	FACULTY
42	Mr. KULDIP SHARMA	FACULTY
43	Mr. KALPIT JAIN	FACULTY
44	Mr. SAURABH ANAND	FACULTY
45	Mr. ANIL PRATAP SINGH	FACULTY
46	Mr. TARUN MEHTA	FACULTY
47	Mr. GAURAV SAXENA	FACULTY
48	Mr. MANISH SHARMA	FACULTY
49	Mr. DHANANJAY KUMAR	FACULTY
50	Mr. ALOK KUMAR	FACULTY
51	Mr. VIKRAM KHANDELWAL	FACULTY
52	Mr. DINESH CHAND GUPTA	FACULTY
53	Mr. DEEPAK SHARMA	FACULTY
54	Dr. SHUCHI DAVE	FACULTY
55	Mr. PRASHANT HEMRAJANI	FACULTY
56	Mr. PRINCE DAWAR	FACULTY
57	Mr. PUNIT SHUKLA	FACULTY
58	Mr. AMBER BATWARA	FACULTY
59	Ms. KAVITA KUNTAL	FACULTY
60	Mr. SANJAY CHHOTURAM KUMAWAT	FACULTY
61	Ms. SWATI PALIWAL	FACULTY
62	Ms. SITA GUPTA	FACULTY
63	Mr. ABHISHEK KUMAR	FACULTY
64	Mr. AMARJEET BHARTI	FACULTY
65	Mr. SUSHIL JAIN	FACULTY
66	Mr. PANKAJ GAKHAR	FACULTY
67	Ms. ANKITA BHATIA	FACULTY
68	Mr. UDIT MAMODIYA	FACULTY
69	Mr. DHEERAJ VADHWANI	FACULTY

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70	Mr. AMIT KUMAR MANDAL	FACULTY
71	Mr. MUKESH CHAND	FACULTY
72	Mr. GAJANAND SINGH RATHORE	FACULTY
73	Mr. DIVYA VISHNOI	FACULTY
74	Mr. GAURAV SRIVASTAVA	FACULTY
75	Mr. KAVEENDRA KUMAR	FACULTY
76	Mr. AJMEET SINGH	FACULTY
77	Mr. YOGESH MISHRA	FACULTY
78	Dr. VEENA YADAV	FACULTY
79	Mr. ASHISH DUBEY	FACULTY
80	Mr. SHANKER PRASAD MISHRA	FACULTY
81	Mr. MAYANK SHARMA	FACULTY
82	Ms. SHRUTI BHARGAVA	FACULTY
83	Mr. PRAVEEN KUMAR TYAGI	FACULTY
84	Mr. ARPIT KHANDELWAL	FACULTY
85	Mr. PRAVIN KUMAR	FACULTY
86	Mr. MOHAMMED TARIQUE	FACULTY
87	Dr. SAGAR KUMAR	FACULTY
88	Ms. ASHABAI SANJAY KUMAWAT	FACULTY
89	Ms. PRACHI SHARMA	FACULTY
90	Ms. RAKSHA GOYAL	FACULTY
91	Dr. SUNIL KUMAR YADAV	FACULTY
92	Dr. HIMANI GOYAL SHARMA	FACULTY
93	Mr. RAVINDRA MAHAWAR	FACULTY
94	Mr. ABHISHEK SINGH	FACULTY
95	Mr. KUSHALDEEP SHARMA	FACULTY
96	Mr. BHAVESH DEVRA	FACULTY
97	Mr. JITENDRA KUMAR	FACULTY
98	Mr. BALWAN	FACULTY
99	Dr. ANILA DHINGRA	FACULTY
100	Mr. SAKAR GUPTA	FACULTY
101	Ms. ANITA YADAV	FACULTY
102	Mr. KRISHANKANT KATARA	FACULTY
103	Mr. RAVI SHANKAR SINGH	FACULTY
104	Ms. SHALINI PURI	FACULTY
105	Mr. VISHAL CHOUDHARY	FACULTY

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109	Mr. MANISH PRAKASH	FACULTY
110	Mr. PIYUSH SHARMA	FACULTY
111	Mr. VISHAL CHAURASIA	FACULTY
112	Dr. GAURAV BADHOTIYA	FACULTY
113	Mr. AJIT NOONIA	FACULTY
114	Dr. P UMESHKANNAN	FACULTY
115	Dr. ASHOK KAJLA	FACULTY
116	Dr. YOGESH KUMAR	FACULTY
117	Mr. DEVENDRA DODA	FACULTY
118	Mr. SANDEEP BHARGAVA	FACULTY
119	Dr. SUDHIR RAJGURU	FACULTY
120	Dr. RAVI YADAV	FACULTY
121	Mr. PAWAN PATIDAR	FACULTY
122	Mr. RAJ KUMAR JAIN	FACULTY
123	Mr. ARPIT SINGH BHADORIYA	FACULTY
124	Mr. NIMISH ARVIND	FACULTY
125	Dr. SATYA MAURYA	FACULTY
126	Mr. MUKESH KATARIA	FACULTY
127	Dr. SWATI SHARMA	FACULTY
128	Mr. LAL BABU PURBEY	FACULTY
129	Mr. PRASHANT MISHRA	FACULTY
130	Dr. GARIMA MATHUR	FACULTY
131	Dr. NEERAJ TIWARI	FACULTY
132	Mr. PEEYUSH VATS	FACULTY
133	Ms. SHIVANSHI	FACULTY
134	Dr. SANTOSH AGRAHARI	FACULTY
135	Dr. SUNIL KUMAR GUPTA	FACULTY
136	Dr. MAHESH JOSHI	FACULTY
137	Dr. MEENAKSHI NAWAL	FACULTY
138	Dr. NIKHIL VARGHESE	FACULTY
139	Dr. BRIJ KISHOR SHARMA	FACULTY
140	Dr. ROBIN GUPTA	FACULTY
141	Dr. JAYANT PUROHIT	FACULTY

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143	Dr. DIPTI MATHUR	FACULTY
144	DR. ARUN DWIVEDI	FACULTY
145	Dr. AMIT SHRIVASTAVA	FACULTY
146	Mr. UPENDRA CHAUHAN	FACULTY
147	Mr. RAJ ANAND	FACULTY
148	Mr. RAVI KUMAR	FACULTY
149	Dr. NITESH KAUSHIK	FACULTY
150	DR. YASHPAL	FACULTY
151	Mr. RAJESH KUMAR	FACULTY
152	Dr. RAHUL SEN	FACULTY
153	Mr. RANDHIR BAGHEL	FACULTY
154	Dr. NANDANI SHARMA	FACULTY
155	Mr. SUGANDHA VERMA	FACULTY
156	Ms. JIGISHA VANJANI	FACULTY
157	Dr. MANSI MATHUR	FACULTY
158	Mr. SOURABH MATHUR	FACULTY
159	Mr. VINAY BHATT	FACULTY
160	Mr. ABHAYRANJAN SINGH	FACULTY
161	Mr. MAHESH SAINI	FACULTY
162	Mr. JAY BIJARNIYA	FACULTY
163	Dr. PRITI KAUSHIK	FACULTY
164	Dr. NEERAJ JAIN	FACULTY
165	Dr. SHILPI JAIN	FACULTY
166	Dr. AJAY KHUNTETA	FACULTY
167	Mrs. ARCHANA BHARDWAJ	FACULTY
168	Mr. ABHISHEK SHARMA	FACULTY
169	Dr. PIYUSHA SOMVANSHI	FACULTY
170	Mr. BHAVANESH CHANDRA SHARMA	FACULTY
171	Mr. GAURAV SHARMA	FACULTY
172	Ms. RICHA CHAUDHARY	FACULTY
173	Ms. MITHLESH ARYA	FACULTY
174	Mr. PRATEEK SHARMA	FACULTY
175	Ms. ARCHANA SONI	FACULTY
176	MR. AJIT SINGH RAJAWAT	FACULTY
177	MS. SONAM GOUR	FACULTY

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179	Ms. REENA SHARMA	FACULTY
180	Dr. PAYAL BANSAL	FACULTY
181	Dr. GEETA GANDHI	FACULTY
182	Mr. AMIT KUMAR JHA	FACULTY
183	MR. PANKAJ DHEMLA	FACULTY
184	DR. NARAYAN LAL JAIN	FACULTY
185	Dr. RAJ KUMAR SATANKAR	FACULTY
186	Dr. PUSHPENDRA SINGH SISODIA	FACULTY
187	Dr. NEELAM CHAPLOT	FACULTY
188	Dr. SURENDRA KUMAR YADAV	FACULTY
189	MR. ASHWANI KAPOOR	FACULTY
190	Mr. SHIVRAJ SHARMA	FACULTY
191	Ms. RISHIKA SETHI	FACULTY
192	Mr. DHARMENDRA KUMAR BANSAL	FACULTY
193	Dr. PRAVIN MACHHINDRA SONWANE	FACULTY
194	Ms. UPMA KUMARI	FACULTY
195	MR. MANISH DUBEY	FACULTY
196	Ms. NIKITA JAIN	FACULTY
197	Ms. NEHA SHROTRIYA	FACULTY
198	MR. ANKUR DALMIYA	FACULTY
199	Mr. VIJENDRA KUMAR PATEL	FACULTY
200	Mr. SHIV KUMAR AGARWAL	FACULTY
201	Ms. SHIKHA SHARMA	FACULTY
202	Mr. Abhishek Ramswaroop Verma	Technical Assistant
203	Mr. Sunil Kr. Sain	Technical Assistant
204	Mr. Balveer Singh	Technical Assistant
205	Mr. Narendra Singh Shekhawat	Technical Assistant
206	Mr. Suneel Kumar Sharma	Technical Assistant
207	Mr. Lokesh kr Prajapat	Technical Assistant
208	Mr. Yogesh Yogi	Technical Assistant
209	Mr. Tushar Sharma	Technical Assistant
210	Mr. Subhash Chand Sharma	Technical Assistant
211	Mr. Mahendra Kumar Verma	Technical Assistant
212	Mr. Naresh Kumar Prajapat	Technical Assistant
213	Mr. Chandra Mohan Sharma	Technical Assistant

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215	Mr. Rameshwar Kholia	Technical Assistant
216	Mr. Mahavir Singh Shekhawat	Technical Assistant
217	Mr. Anirudh Sharma	Technical Assistant
218	Mr. Deepak Gupta	Technical Assistant
219	Mr. Roshan Sharma	Technical Assistant
220	Mr. Raghunath Dewasi	Technical Assistant
221	Mr. Hiralal Prajapat	Technical Assistant
222	Mr. Vishal Saini	Technical Assistant
223	Mr. Ravi Prasad Narauliya	Technical Assistant
224	Mr. Manish Saini	Technical Assistant
225	Ms. Vijay Deep Gupta	Technical Assistant
226	Mr. Hanuman Prasad Khoral	Technical Assistant
227	Mr. JITENDRA KUMAR ATAL	Technical Assistant
228	Mr. SHUBHAM SINGH	Technical Assistant
229	Mr. Chanchal Kumar Sharma	Technical Assistant
230	Mr. Ashish Kumar Sharma	Technical Assistant
231	Mr. Yadram Saini	Technical Assistant
232	Mr. Ritesh Sharma	Technical Assistant
233	Mr. BRAKBHAN SINGH	Technical Assistant
234	Mr. DEEPAK KUMAR PATEL	Technical Assistant

FEEDBACK ANALYSIS:

The feedback of the participants was very positive and motivational for the organizers. The participants felt very happy for conducting the Two Days FDP on Implementation of Outcome Based Education which is very useful for them in Day-to-Day activities. Resource person is knowledgeable but could not be involved so much this time. The sessions were all good. Role of teachers, professional advantage and scope of opportunities to develop leadership qualities among students could have been touched upon. Additional videos and more examples to instill a sense of leadership across ages could have made the FDP more useful.

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SWOT ANALYSIS:

The advantage is that outcome based education teaches thinking skills and engages students more. When the student creates a product this is much more meaningful than answers on a test. Outcome based education (when done right) provides learning more similar to real world applications.

The disadvantage is that most teachers are only prepared for transfer of knowledge and not guiding students to reach their own learning. Lesson plans are still required but they need flexibility. This is like the difference between writing a story with one ending and one that has possible different ways to branch.



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POORNIMA
COLLEGE OF ENGINEERING

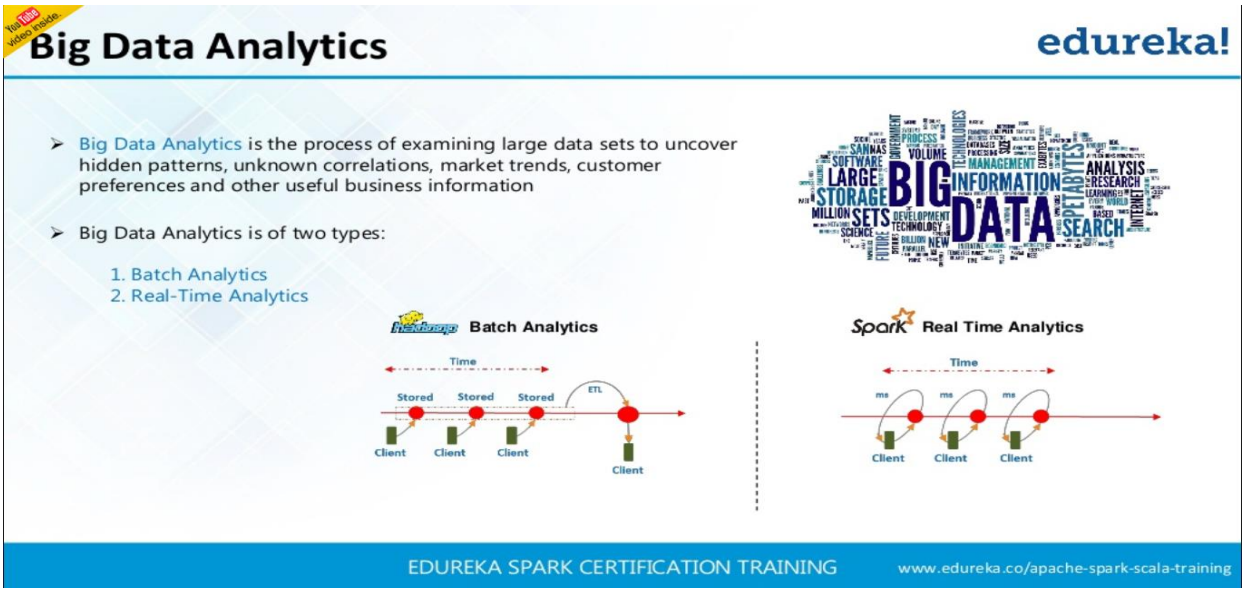
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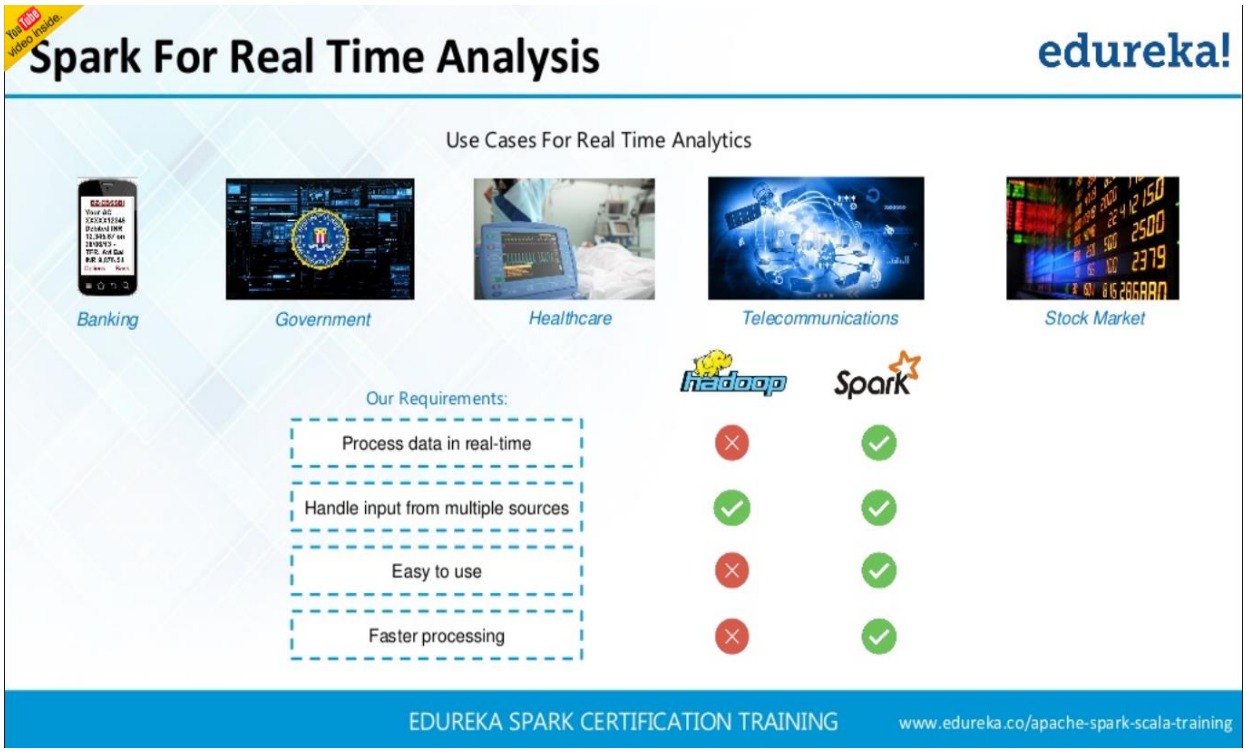
A Report on 5-days Faculty Development Program

- **TITLE AND DURATION:** "Big Data Analytics" from 3rd – 7th February, 2020
- **SPONSORS:** Poornima College of Engineering, Jaipur
- **SUPPORTERS:** N/A
- **ORGANIZERS:** Computer Engineering Department in association with AICTE
- **OBJECTIVES:** To learn fundamental concepts in Big Data Analytics
  - To understand various data analytics methods
  - To implement Hadoop, Map Reduce, HDFS and Hive
  - To extract and evaluate live data from social media
  - To analyze data using R, Numpy, Pandas and Matplotlib
- **EXPECTED OUTCOMES:**
  - The objective of bringing together academic scientists, professors, research scholars and students working in various fields of engineering and Technology.
  - It will provide the authors, research scholars, listeners with opportunities for national and international collaboration and networking among universities and institutions for promoting research and developing the technologies globally.
  - To promote translation of basic research into institutional and industrial research and convert applied investigation into real- time application.

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- **BROCHURE / POSTER / LEAFLET / FLYER:**





- **PROGRAM SCHEDULE:** Poornima College of Engineering (PCE), under the aegis of its Department of Computer Engineering, and Department of Electronics & Comm. Engineering, organized the Short-Term Training Program on **Big Data Analytics** from 03rd-07^{sth} February, 2020. This STP was sponsored by Poornima College of Engineering, Jaipur.

- **COURSE CONTENTS:**
  - Introduction to Big Data Analytics
  - Data Analytics
  - Machine Learning Techniques for Big Data Analytics
  - Hadoop, Map Reduce and HDFS

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- Data Extraction from Social Media
- Predictive Mining
- Big Data Analytics on Cloud
- Data Analytics using R
- Data Analytics using Numpy, Pandas and Matplotlib
- Data Processing using Hive

CONTENTS COVERED:

- Introduction to Big Data Analytics (Prof. Mala Kalra)
- Data Analytics using Python (Er. Shano Solanki)
- Hadoop, MapReduce and HDFS (Er. Vipin Gupta)
- Data Processing using Hive/HBase (Er. Vipin Gupta)
- Analysis of YouTube Data using Pyspark (Er. Shruti Wadhwa)
- Advance Data Visualization and Plotting (Er. Shruti Wadhwa)
- Knowledge Discovery from Bio-Informatics Based Big Data (Dr. Gaurav Kumar)
- Big Data Analytics on Cloud Platforms (GK)

INAUGURAL SESSION:

STC Program on

Sponsored by

Poornima College of Engineering, Jaipur

Organized by:

Department of Computer Engineering

Poornima College of Engineering, Jaipur

Q- Sheet Inaugural Session

3rd February 2020 to 7th February, 2020, Venue: CG 05, PCE, Jaipur

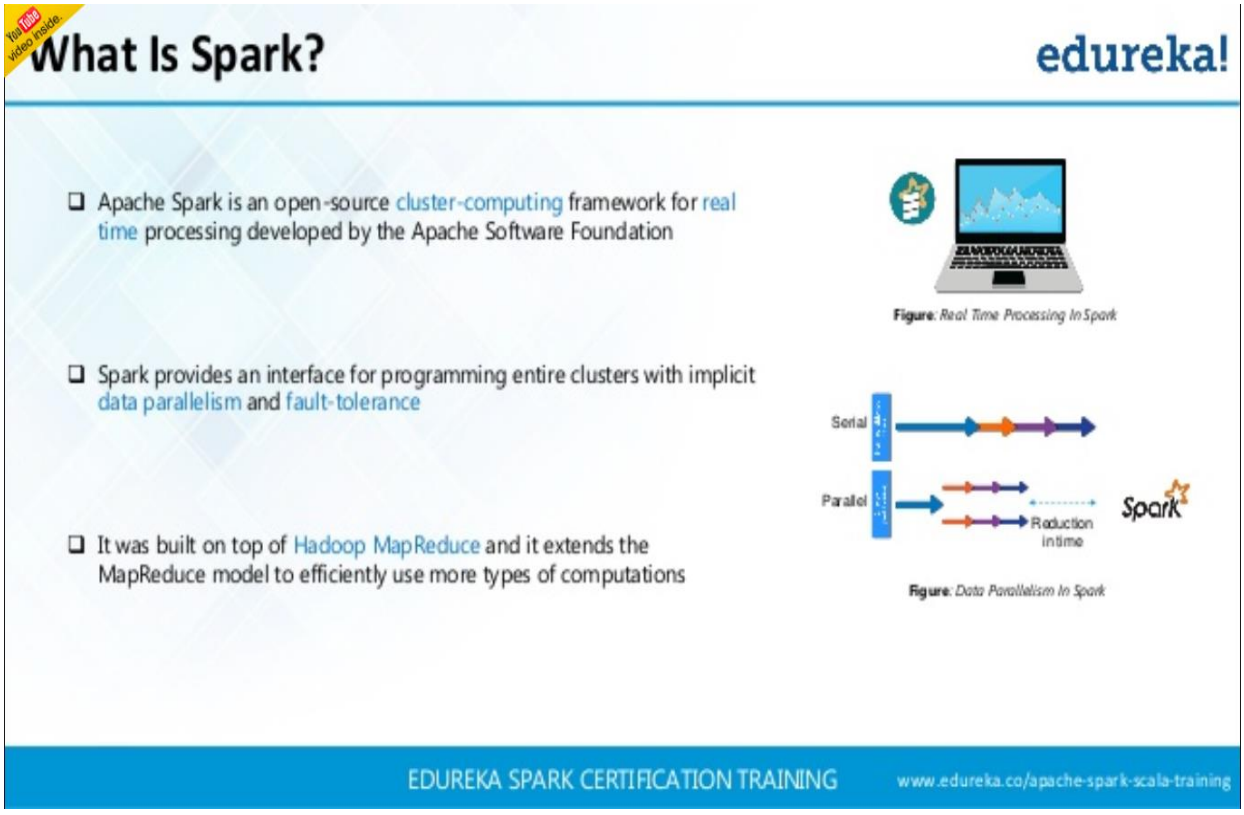
S. No	Activity
1.	Reporting and Registration of Delegates
2.	Welcome of Dignitaries by the anchors
3.	Request the dignitaries for lighting of lamp (Parallel Sarasvati Vandana) Introduction to Big Data Analytics (Prof. Mala Kalra)
4.	Data Analytics using Python (Er. Shano Solanki) Machine Learning Techniques for Big Data Analytics

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5.	Hadoop, MapReduce and HDFS (Er. Vipin Gupta) Data Processing using Hive/HBase (Er. Vipin Gupta) Analysis of YouTube Data using Pyspark (Er. Shruti Wadhwa)
6.	Advance Data Visualization and Plotting (Er. Shruti Wadhwa) Knowledge Discovery from Bio-Informatics Based Big Data (Dr. Gaurav Kumar) Big Data Analytics on Cloud Platforms (GK)
7.	Welcome address by **Dr. Mahesh Bundele**, Director, Poornima College of Engineering
9.	Group Photograph
10.	High Tea

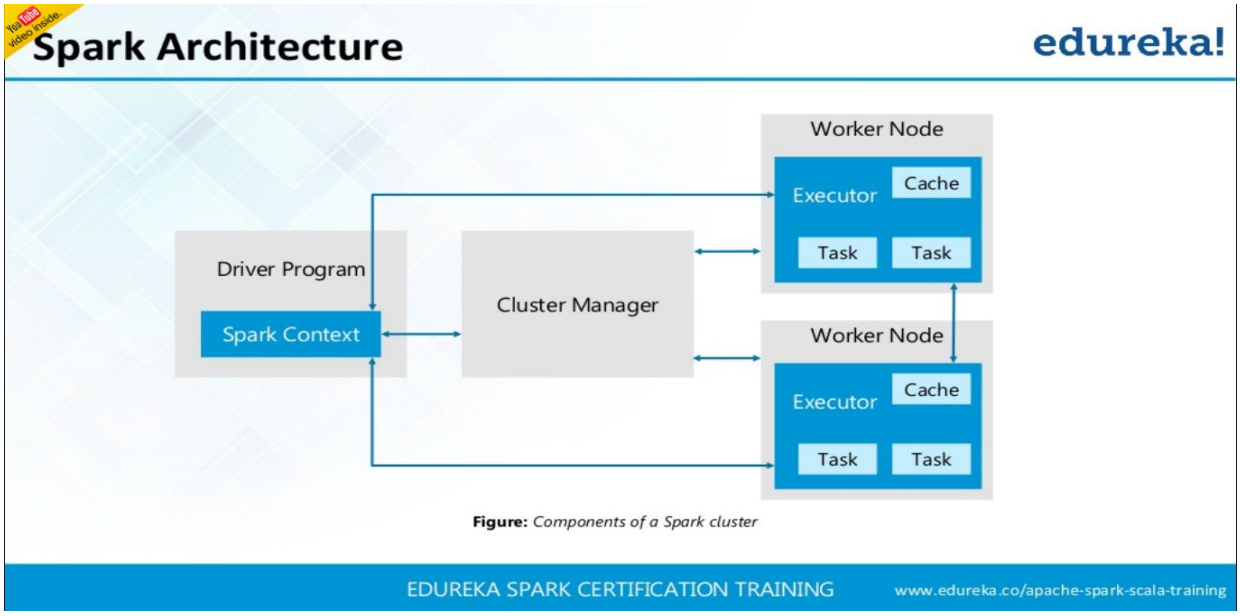
- **DETAILS OF RESOURCE PERSONS:**
  - Prof. Mala Kalra (Coordinator), NITTTR, Chandigarh
  - Er. Shano Solanki, Assistant Professor, NITTTR Chandigarh
  - Er. Amit Doegar, Assistant Professor, NITTTR Chandigarh
  - Er. Vipin Gupta, Sr. Consultant, U-Net Solutions, Moga
  - Dr. Gaurav Kumar, Director, Magma Research & Consultancy Pvt. Ltd., Ambala
  - Er. Shruti Wadhwa, CEO, Nidus Technologies, Chandigarh

- **GLIPMSES OF CONDUCTION:**

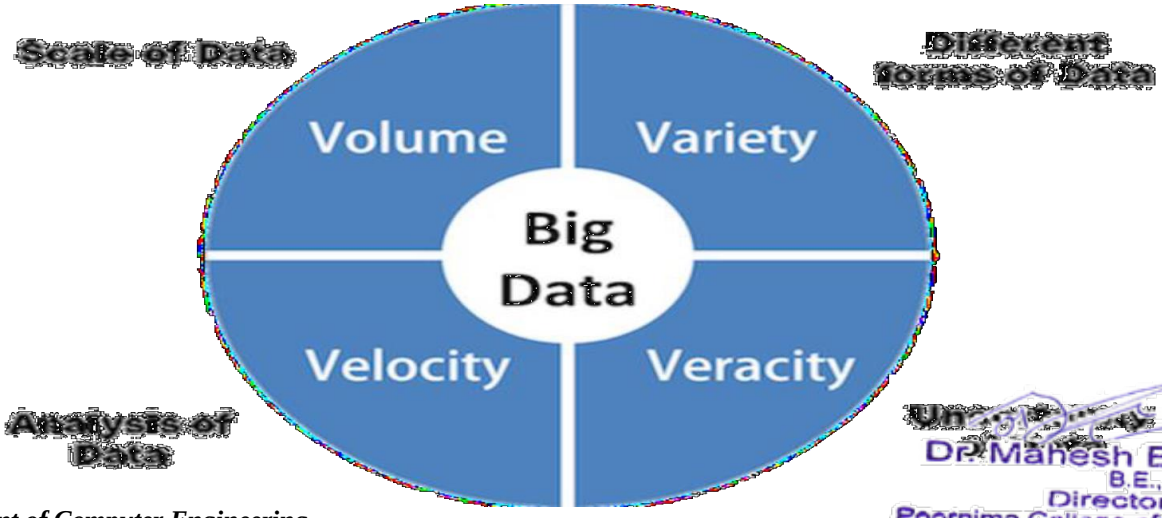


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- **FACTORS OF BIG DATA:**



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- **FOUR VS OF BIG DATA:**



- **APACHE HADOOP:**

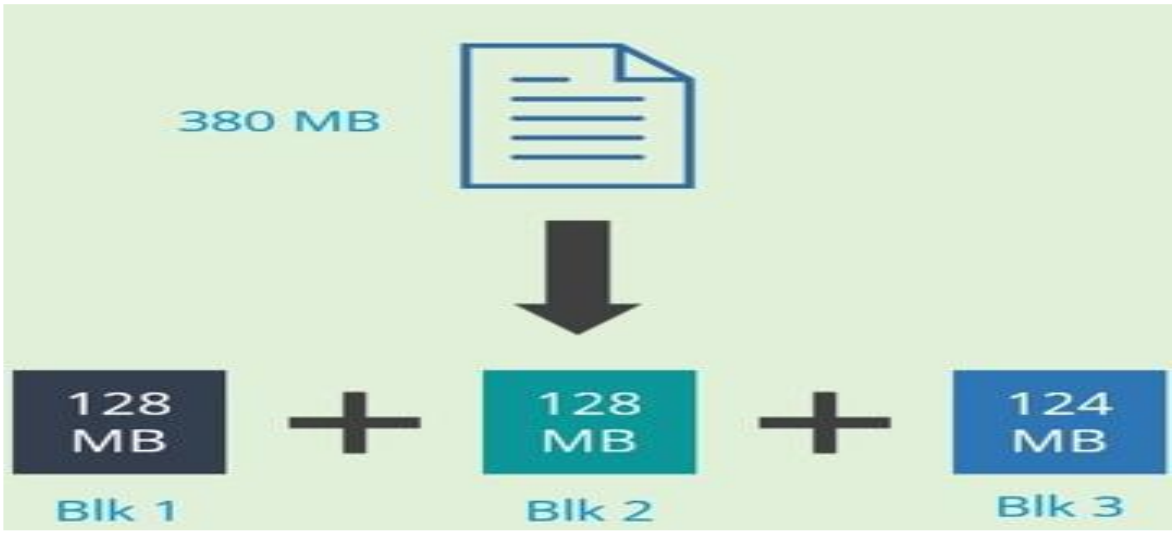


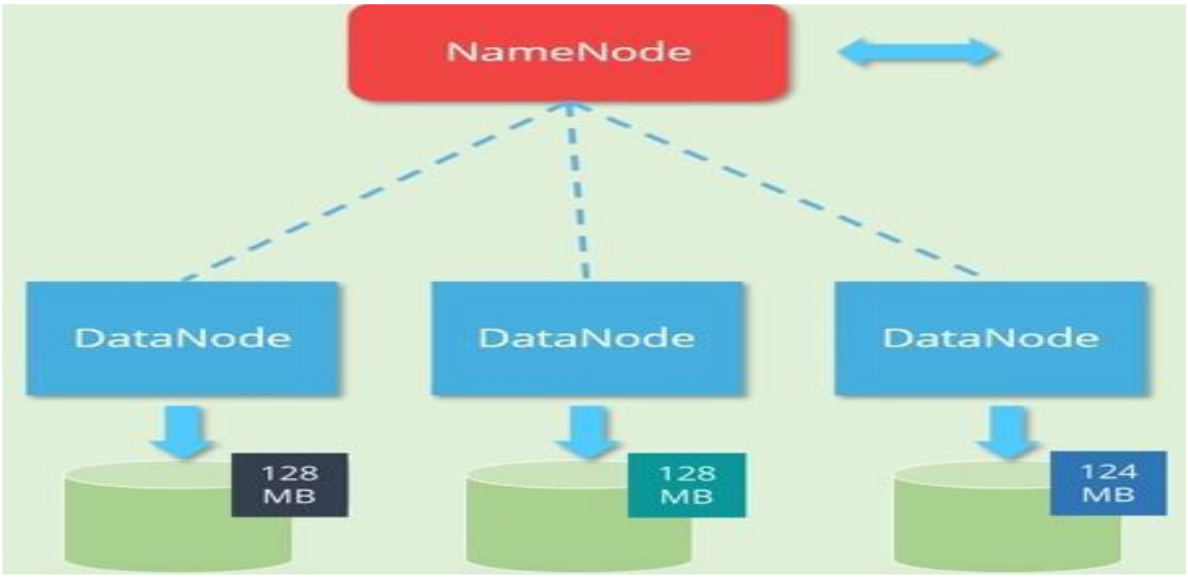


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CONTENT DELIVERY / PRACTICAL SESSIONS:

- **HDFS data block:**





- **Get file from HDFS to Linux file system:**

```
[cloudera@quickstart ~]$ hadoop fs -get student/student.txt /tmp
[cloudera@quickstart ~]$
[cloudera@quickstart ~]$ cd /tmp/
[cloudera@quickstart tmp]$
[cloudera@quickstart tmp]$ ls -l student.txt
-rw-r--r-- 1 cloudera cloudera 56 Jul 22 08:25 student.txt
```

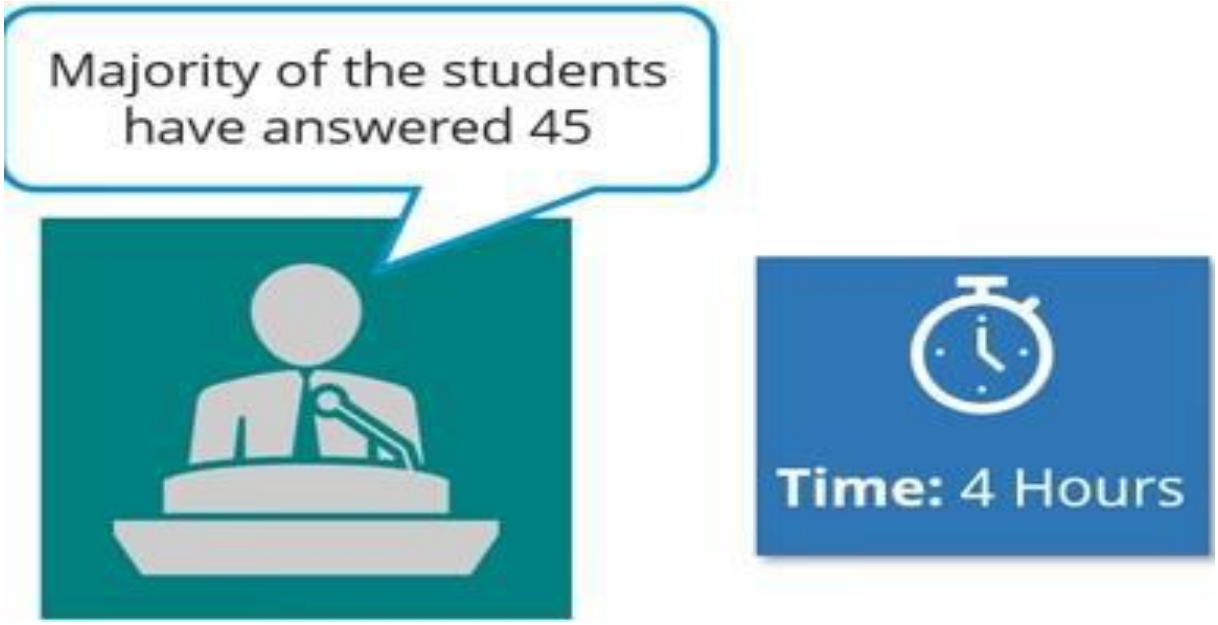
- **Remove file from HDFS:**

```
[cloudera@quickstart ~]$ hadoop fs -rm -r student/student.txt
Deleted student/student.txt
[cloudera@quickstart ~]$
[cloudera@quickstart ~]$ hadoop fs -ls
Found 1 items
drwxr-xr-x   - cloudera cloudera          0 2019-07-22 08:28 student
[cloudera@quickstart ~]$
[cloudera@quickstart ~]$ hadoop fs -ls student
[cloudera@quickstart ~]$
```

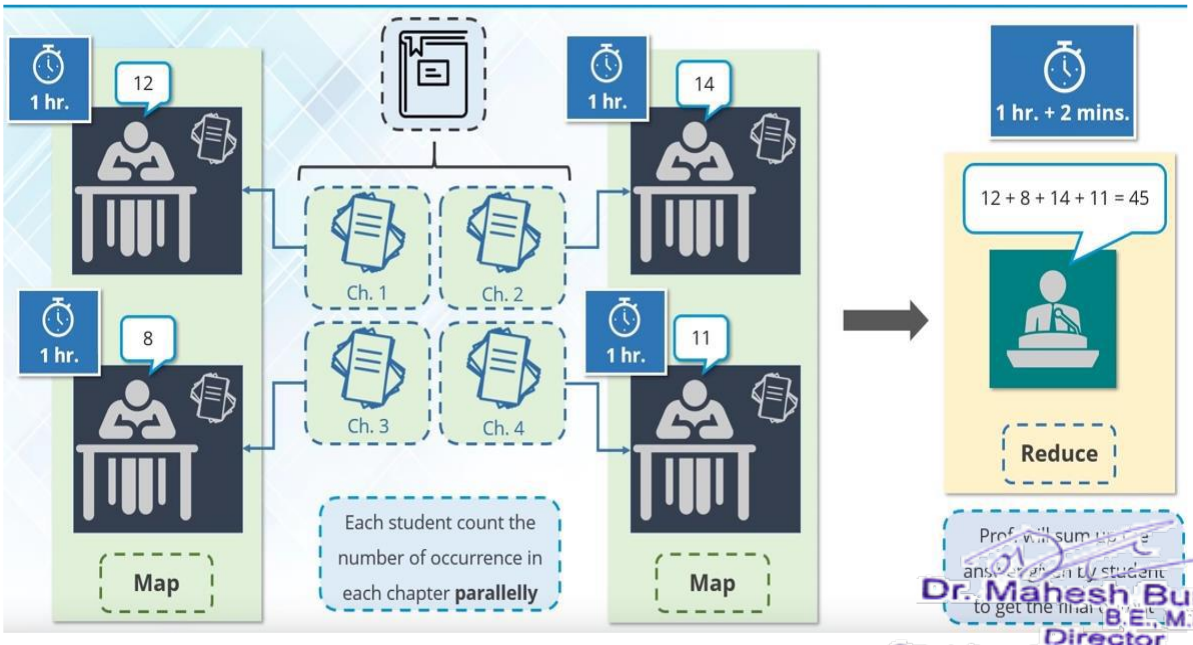
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- **MAPREDUCE:**



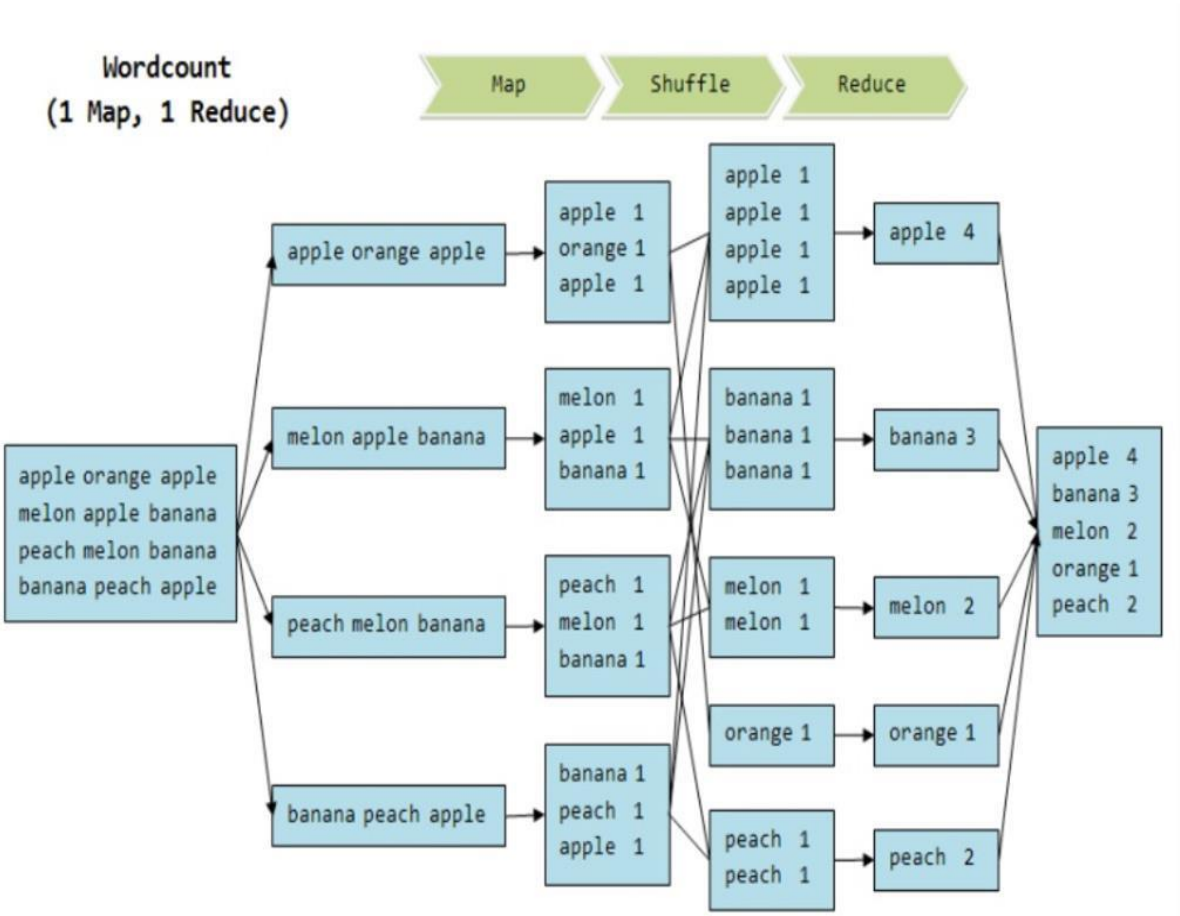


- **EFFECTIVE SOLUTION:**

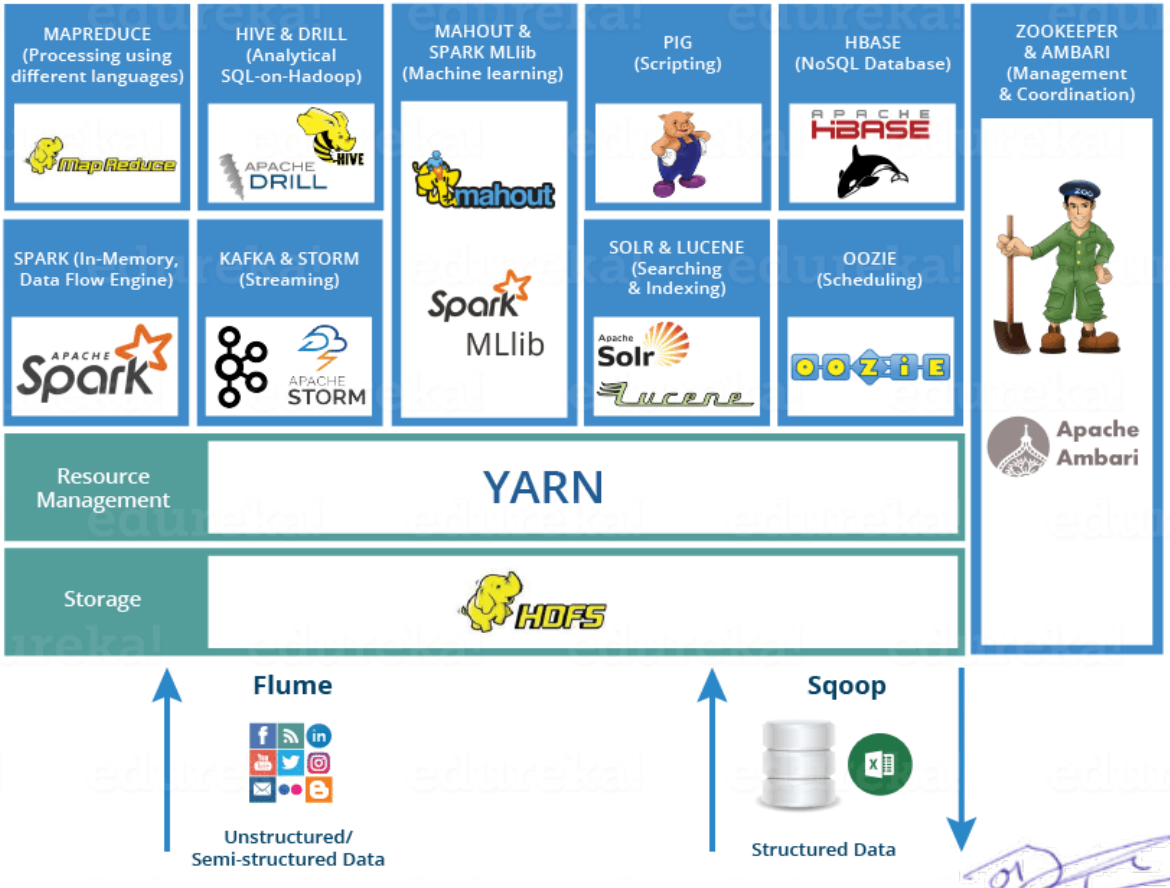


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♦ MAP REDUCE WORD COUNT PROBLEM AND SOLUTION:



♦ HADOOP ECOSYSTEM:



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VALEDICTORY SESSIONS:

Dr. Mahesh Bundele Principal, PCE in his valedictory talk, started with congratulating coordinators and organizing committee for the successful conduct of STC on Big Data Analytics 3rd to 7th February 2020.

He emphasized the need of such programs as they provide a unique opportunity to explore and known in various domains of Engineering and Technology. He also mentioned that such programs provide a common platform to discuss and learn new methodology to upgrade ourselves.

After that Course Coordinator, STC-2020 along with department presented the glimpse of activity report based on the deliberations held during the STTP. The function ended with a Vote of Thanks presented by Dr. Surender Kumar Yadav HOD, CSE.

LIST OF PARTICIPANTS:

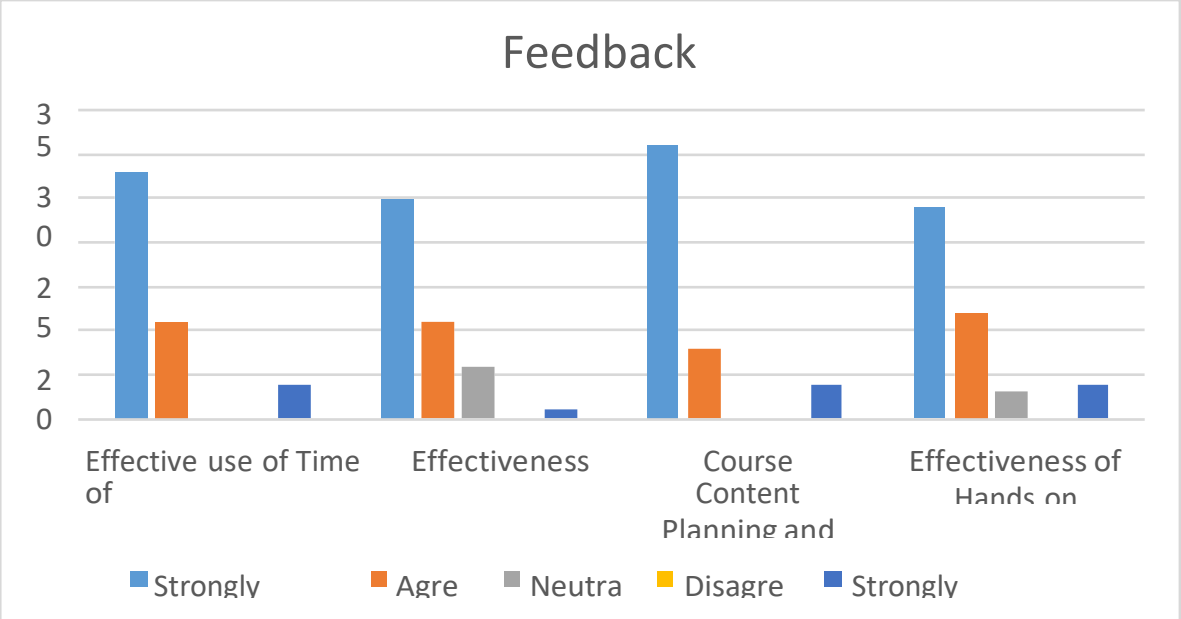
S. No.	Name	Organization
1	Mr. Satpal Singh	Manipal University Jaipur
2	Mr. Amit Kumar Jha	Poornima College Of Engineering, Jaipur
3	Mrs. Deepika Sharma	Manipal University Jaipur
4	Mr. Amit Kumar Jain	Poornima College Of Engineering, Jaipur
5	Mr. Manish Dubey	Poornima College Of Engineering, Jaipur
6	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

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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

- **FEEDBACK ANALYSIS: * Add Feedback / Attainment Calculations**

	Effective use ofTime	**Effectiveness of Theoretical Session**	**Course Content Plan-ning and Organization**	**Effectiveness of Hands on Sessions**
Strongly Agree	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



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- **SWOT ANALYSIS:**
  - It promotes student-centered learning and collaboration
  - Lessons and Contents are more accessible
  - It can more efficient
  - It relies on preparation and trust
  - There is significant work on the front end
  - This is more about proper planning and includes any iteration required for the purpose of highly building highly scalable software.

- **BUDGET & ACTUALS:** N/A

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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

(14th – 18th September, 2020)

Under TEQIP-III Program

Venue: Online Mode

POORNIMA
COLLEGE OF ENGINEERING

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, RIICO Institutional Area
Sitapura, JAIPUR

1. WORKSHOP BROCHURE



PCE ORGANIZING COMMITTEE

Er. Pankaj Dhemla	Vice-Principal, PCE
Dr. Rekha Nair	Dean I Year, PCE
Mr. Amol Saxena	Assistant Professor & HoD
Dr. Pushpendra Sisodia	Associate Professor
Ms. Shazia Haque	Assistant Professor
Mr. Sandeep Bhargava	Assistant Professor
Mr. Saurabh Anand	Assistant Professor & Dy. HoD
Mr. Amit Kumar Jha	Assistant Professor
Mr. Dinesh C. Gupta	Assistant Professor
Ms. Sita Gupta	Assistant Professor

RESOURCE PERSONS

The resource persons for the FDP will be eminent professors and experts in the area of Blockchain and Cryptocurrency from esteemed Institutions and corporate firms.

ELIGIBILITY

This course is open to all the Faculty Members of AICTE Approved Institutions, Research Scholars, and Persons working in R&D organizations or Industry. Number of participants for FDP is limited. **All the sessions will be conducted on line only.**

IMPORTANT DATES

Last date of recipient of application	September 10, 2020
Intimation of selection by mail	September 11, 2020
FDP duration	September 14-18, 2020

REGISTRATION AND FEE PARTICULARS

- There is no registration fee for faculty from AICTE approved Institutions, Participants from Industry and Research Scholars.
- Registration for the program may be done by filling the Registration Form online, Reg. Link: **https://tinyurl.com/blckfdp**

CORRESPONDENCE

MR. VIKAS K. JAIN
Event Coordinator, RTU
✆ : +91-9981008680
✉ : vkjain.npiu.cse@rtu.ac.in

MR. SHIRISH NAGAR
Event Coordinator, PCE
✆ : +91-8003514249
✉ : shirishnagar@poornima.org

Venue

Department of Information Technology
Poornima College of Engineering
ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022
www.pce.poornima.org

TEQIP-III SPONSORED

Faculty Development Program on Blockchain and its Applications

September 14-18, 2020

Organized by

Rajasthan Technical University, Kota
&
Department of Information Technology

POORNIMA COLLEGE OF ENGINEERING

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

ABOUT TEQIP-III

The Project, 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 to improve their policy, academic and management practices.

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 Engineering Colleges, 4 B.Arch, 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech. 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

Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

DEPARTMENT OF INFORMATION TECHNOLOGY

The Department of Information Technology of PCE was established in 2001. The department is considered one of the vibrant 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 aims to provide both theoretical as well as practical know-how to its students and make them employable and ready for industry intake. The department has produced excellent IT engineers who are serving in different reputed organizations and pursuing higher studies at institutes of excellence. The department has very close interaction with local and national industries and their inputs are taken into consideration to give value additions to our seminars, projects, various workshops and training programs.

ABOUT FACULTY DEVELOPMENT PROGRAM

A five day Faculty Development Programme shall be organized for faculty members from different Engineering colleges across India from 14th – 18th September, 2020. Experts across the country shall deliver the lectures on approaches to design a scalable, robust, and secure Blockchain, thereby validating how vulnerable are current designs and the ways in which can they be mitigated. The experts will elaborate on various concepts of Cryptography, different cryptographic issues, Distributed System, Cryptocurrency, Blockchain Mining, Advances in Blockchain and its Applications, Blockchain Software and their uses, accompanied with practical demonstration on Ethereum™, Solidity™ and so on.

COURSE MODULES

- Basics of Cryptography and Block Chain Technology
- Design and Application of Block Chain, and Cryptocurrencies
- Consensus protocols, and Infrastructure
- Identity Management for Decentralized Applications
- Peer to Peer Communication
- Threats, Attacks and Security to Blockchain
- Solidity and Smart Contracts
- Hands-on Session over BlockChain Tools



OBJECTIVES OF THE FDP

- The Faculty Development Program aims at bringing together the blockchain technologists, enthusiasts, and faculty to discuss the algorithms, applications and issues concerned with the technology, through not 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 BlockChain 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 Mathur

RTU EVENT COORDINATOR

Mr. Vikas K. Jain (RTU, Kota)

RTU (ATU) TEQIP-III COMMITTEE

Dr. Harish Sharma	Nodal officer
Prof. D. K. Sambariya	Nodal Officer Procurement)
Dr. S. D. Purohit	Nodal Officer Finance
Dr. Irum Alvi	Conference
Mr. Santosh Sharma	Expert Lecture
Mr. Anshul Bansal	GATE & Induction
Mr. Dinesh Kumar	Workshop

HOST INSTITUTE COORDINATOR

Mr. Shirish Nagar	Assistant Professor

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-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..
3. 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.

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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.

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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 particpants 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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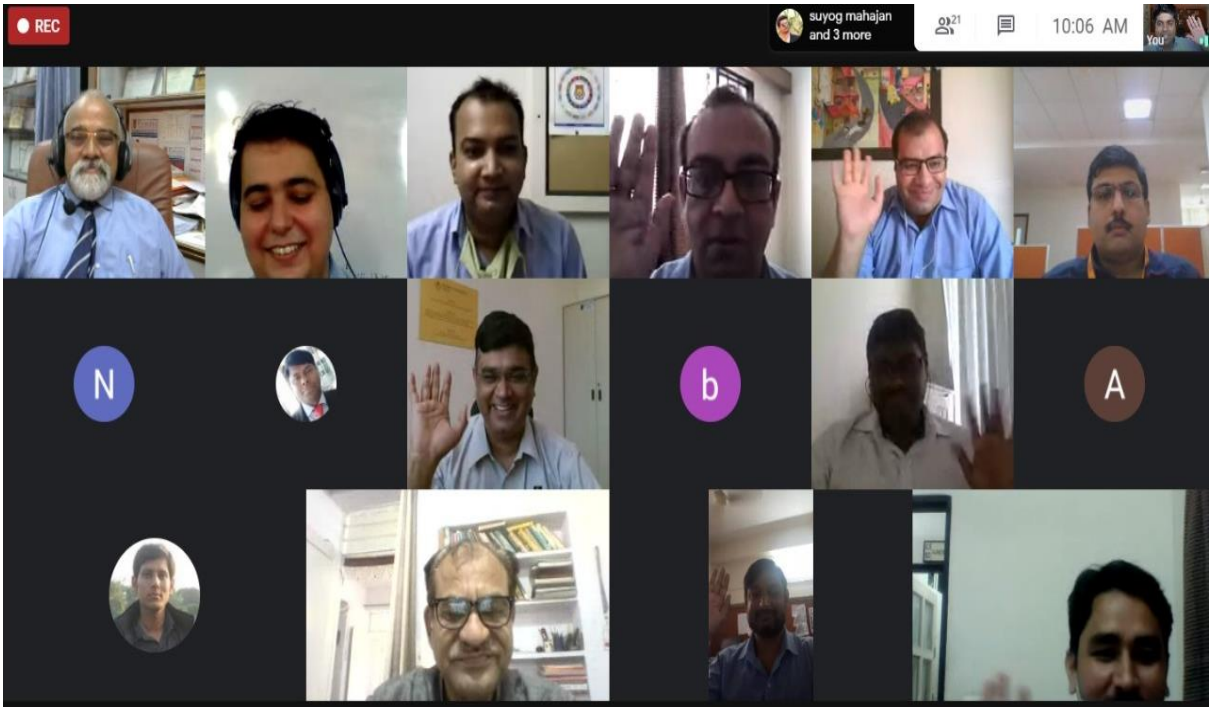
5. GLIMPSE OF INAUGURAL CEREMONY











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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: https://meet.google.com/uni-heri-uoc

Venue: Online

Inaugural Session Schedule

S. No	Activity	Duration	Time
1.	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)** • **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	**05 Min**	**9:30 -9:35AM**
2.	Welcome Address by **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering, Jaipur	**05 Min**	**9:35 -9:40AM**
3.	Address by **Ar. Rahul Singhi**, Director, Poornima Group	**05 Min**	**9:40 -9:45AM**
4.	Introduction of Guest of Honour & Address by Guest of Honour **Prof. Dhirendra Mathur** , RTU (ATU) TEQIP-III Coordinator	**05 Min**	**9:45 -9:50AM**
5.	Introduction of Chief Guest & Inaugural Address by the Chief 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 -10:05AM**

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7. FDP DETAILED PROGRAM SCHEDULE





TEQIP-III SPONSORED
5-Day Faculty Development Program
On
"Blockchain and its Applications"
September 14 -18, 2020
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 – 14th September, 2020	
Program Outline	
9.30 AM – 10.00 AM	**Inaugural Ceremony** **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
10.00 AM -11.30 AM	**Session-I** **Topic:** Introduction to Blockchain **Resource Person: Dr. Meenakshi Tripathi,** Associate Professor, Department of Computer Science and Engineering, MNIT, Jaipur
LUNCH BREAK	
1.00 PM - 2.30 PM	**Session-II** **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 – 15th September, 2020	
Program Outline	
10.00 AM -11.30 AM	**Session-III** **Topic:** Consensus protocols, Infrastructure & Identity Management for Decentralized Applications **Resource Person: Mr. Pranay Singh Chouhan,** Founder - SKVS Foundation
LUNCH BREAK	
1.00 PM - 2.30 PM	**Session-IV** **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**

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Wednesday - Day 3 – 16th September, 2020	
Program Outline	
10.00 AM -11.30 AM	**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 – 17th 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 September, 2020	
Program Outline	
10.00 AM -11.30 AM	**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**

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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

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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
Strongly Agree	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

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POORNIMA
COLLEGE OF ENGINEERING

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

A Report on 5-days Faculty Development Program

- **TITLE AND DURATION:** "Ubiquitous Computing and Wireless Sensor Networks" from 16 - 21 Sept., 2019
- **SPONSORS:** AICTE Quality Improvement Scheme (AQIS).
- **SUPPORTERS:** Dept. of Computer Engineering Dept. of Electronics & Communication Engineering
- **ORGANIZERS:** Poornima College of Engineering, Jaipur
- **OBJECTIVES:** The aim of the Short-Term Training Program (STTP) is to bring together the Communities who are working in the areas of Ubiquitous computing and wireless sensor network.
  - To make them understand current developments in Ubiquitous computing.
  - To provide knowledge about WSN, communication protocols and algorithms to be used in various industrial and societal applications and to create ubiquitous / pervasive computing environment for such applications.
  - To provide awareness and usage of various tools for implementing Ubiquitous and WSN applications.
  - To provide hands-on practice to carry out further experimental / research work in the area.
- **EXPECTED OUTCOMES:**
  - The objective of bringing together academic scientists, professors, research scholars and students working in various fields of engineering and Technology.
  - It will provide the authors, research scholars, listeners with opportunities for national and international collaboration and networking among universities and institutions for promoting research and developing the technologies globally.
  - To promote translation of basic research into institutional and industrial research and convert applied investigation into real- time application.

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♦ BROCHURE / POSTER / LEAFLET / FLYER:

Short Term Training Programme (STTP)
on
Ubiquitous Computing & Wireless Sensor Networks
September 16-21, 2019

REGISTRATION FORM

Name: .....

Designation: .....

Department: .....

Institute: .....

Institute Address: .....

.....

Mailing Address: .....

.....

Mobile No. : .....

E-mail: .....

Accommodation Required: ..... (Yes/No)

Details of the D.D*: No. ..... Dated .....

Issued by (Bank & Branch) .....

*Demand Draft drawn in favor of **"Poornima College of Engineering"**, payable at Jaipur.

Declaration of the Candidate

I declare that the details furnished are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct of the AICTE sponsored programme

Place: Signature of Participant

Sponsorship Certificate

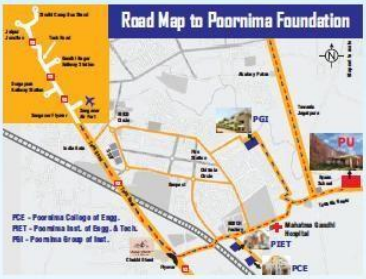
Mr/Ms/Dr. .....is an employee of our Institute and is hereby sponsored by us. He / She will be permitted to attend the course if selected.

Seal & Signature of Director / Principal

ACCOMMODATION & TRANSPORT

Mr. Ashwini Lata	Dean (Hostel), PG
Mr. Anmol Chaturvedi	Proctor, PCE
Mr. Amit Gupta	Proctor-In-Chief, PG
Mr. B. P. Yadav	Transport Officer, PG

HOW TO REACH



For further information contact

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Department of Computer Engineering
Department of Electronics & Comm. Engineering

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Short Term Training Programme (STTP)
on
Ubiquitous Computing & Wireless Sensor Networks
September 16-21, 2019



Sponsored by

New Delhi

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Under
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Organized by

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Department of Electronics & Comm. Engineering

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POORNIMA COLLEGE OF ENGINEERING



Poornima 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 success. 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 glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet

Affiliated to RTU, Kota & approved by AICTE, New Delhi

The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)

The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

An excellent institution building its rapport in all sectors of education, research and development

ABOUT THE PROGRAM

Recent years, there has been development of new technologies related to Internet of Things, Industrial IoTs (IIoT), Industry 4.0, Smart Factories, Smart HealthCare, Smart Logistic and Supply Chains, Smart Mobility, and Smart Energy etc. Sensor nodes are the backbone of these technologies and these nodes can be worn, carried, embedded in the environment those can provide interesting contextual information. A significant increase in real world event monitoring capability with Wireless Sensor Networks will lead to a further evolution of ubiquitous computing applications. This new paradigm is about networked processors embedded in everyday objects, surrounding us, talking to each other over wireless links. Wireless Sensor Network along with RFID plays a vital role for ubiquitous computing as both the components can couple the physical world and virtual world. Ubiquitous computing and wireless sensor network has emerged as multi-disciplinary area of research and development.

Course participants will learn these topics through lectures and hands-on experiments. Also case studies and assignments will be shared to stimulate research motivation of the participants.

PROGRAM OBJECTIVES

The aim of the Short Term Training Programme (STTP) is to bring together the communities who are working in the areas of Ubiquitous computing and wireless sensor network and;

- To make them understand current developments in Ubiquitous computing.
- To provide knowledge about WSN, communication protocols and algorithms to be used in various industrial and societal applications and to create ubiquitous / pervasive computing environment for such applications.
- To provide awareness and usage of various tools for implementing Ubiquitous and WSN applications.
- To provide hands-on practise to carry out further experimental / research work in the area.

COURSE CONTENTS

Wireless Sensor Networks:

- Introduction to Wireless Sensor Networks and its Application
- Architecture ,Routing Algorithms
- Clustering algorithms
- Energy Efficient Schemes in WSN
- Application areas and Research issues in WSN
- Security issues in WSN
- WSN and NS-2: Hands-on experience
- Introduction to Sensnut: A hands-on session

Ubiquitous Computing

- Architectural Structure, Design Decisions and Philosophies
- Autonomic Management of Ubiquitous Systems
- Intelligent Devices and Environments
- Wearable Computers and Technologies
- Ubiquitous intelligent applications like Health care system, wearable devices

IMPORTANT DATES

Deadline for receiving Registration Form	10. 09. 2019
Intimation of Selection :	11. 09. 2019

ACCOMMODATION

Accommodation will be provided to the participants on prior request based on availability in hostel on payment.

REGISTRATION FEES

No fees for this STTP

ELIGIBILITY

Faculty members/PG /Ph.D Scholors from AICTE recognized Engineering colleges & Polytechnic colleges.

EMINENT SPEAKERS

Dr. Uday Desai	IIT, Hyderabad
Dr. Shankar Prakriya	IIT, Delhi
Dr. Rahul Banerjee	LNMIIT, Jaipur
Dr. Santhi Thilagam	NIT, Surathkal, Karnataka
Dr. T.S. Pradeep Kumar,	VIT University, Tamil Nadu
Dr. L. Nirmala Devi	O. U. College of Engineering, Telangana

PATRON

Dr. S. M. Seth	**Ar. Shashikant Singhi**
Chairman (Emeritus) Poornima Group	Chairman, Poornima Group

ADVISORS

Mr. M. K. M. Shah	**Ar. Rahul Singhi**
Director (Admin & Finance)	Director
Poornima Group	Poornima Group
Dr. Mahesh M. Bundele	**Er. Pankaj Dhemla**
Principal & Director,	Vice-Principal
Poornima College of Engineering	Poornima College of Engineering

COORDINATORS

Dr. Ajay Khunteta	Coordinator
Dr. Garima Mathur	Co-ordinator

PCE ACADEMIC COMMITTEE

Dr. Surendra Kumar Yadav	HOD, CSE
Dr. Virendra Sangtani	HOD, EE
Mr. Amol Saxena	HOD, IT
Dr. Ashok Kajla	Professor, ECE
Dr. Sunil Pathak	Professor, CSE
Dr. Praveen Gupta	Professor, CSE
Dr. Sunil Gupta	Asso. Professor, CSE
Dr. Neelam Chaplot	Asso. Professor, CSE
Dr. Satya Prakash Maurya	Asso. Professor, CSE
Dr. Sonal Sharma	Asso. Professor, CSE
Dr. Meenakshi Naval	Asso. Professor, CSE
Dr. Anila Dhingra	Asso. Professor, ECE
Mr. Manish Bhardwaj	Asst. Professor, CSE
Mr. Rajveer	Asst. Professor, ECE
Mr. Tarun Mishra	Asst. Professor, ECE

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♦ PROGRAM SCHEDULE:

Poornima College of Engineering (PCE), under the aegis of its Department of Computer Engineering, and Department of Electronics & Comm. Engineering, organized the Short-Term Training Program on Ubiquitous Computing and Wireless Sensor Networks from 16-21st September, 2019. This STTP was sponsored by AICTE under AQIS scheme. Programme schedule for all six days and Q Sheet of Inaugural function are as follows

Programme Outline	
Monday, Day 1: 16th September, 2019	
8.00 am – 09.00 am	Welcome Reception and Registration Opens
9.00 am – 10.00 am	**Inaugural Function** A. Chief Guest Prof. (Dr.) Uday B. Desai, Former Director, IIT, Hyderabad B. Guest of Honour Prof. (Dr.) Rahul Banerjee, Director, LNM IIT, Jaipur C. Dr. Mahesh Bundele, Director, Poornima College of Engineering D. Mr. Pankaj Dhemela, Vice Principal, Poornima College of Engineering E. Dr. Ajay Khunteta, Coordinator STTP Venue: CG-05 Poornima College of Engineering,Jaipur
10.00 am – 10.30 am	**High Tea / Coffee Break**
10.30 am -11.45 am	**Keynote Address-1** Resource Person: Prof. (Dr.) Uday B. Desai, Former Director, IIT, Hyderabad Venue: CG-05 Poornima College of Engineering, Jaipur
11.45 am - 1.00 pm	**Keynote Address -2** Resource Person: Prof. (Dr.) Rahul Banerjee, Director, LNM IIT, Jaipur Venue: CG-05 Poornima College of Engineering, Jaipur
1.00 pm - 2.00 pm	**Lunch Break**
2.00 pm - 4.00 pm	**Lab Session 1: Introduction & Hands-on on NS-3** Resource Person: Mr. Rahul Hada, System Engineer, Criterion Networks Ltd, Bangalore Venue: IBM Lab
Tuesday, Day 2: 17th September, 2019	

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9.00 am -11.00 am	**Session 1** Title: Popular Routing Algorithms WSN Resource Person: Dr. L. Nirmala Devi, Osmania University. Hyderabad Venue: CF-05 Poornima College of Engineering, Jaipur
11.00 am – 11.30 am	**High Tea / Coffee Break**
11.30 am - 1.30 pm	**Session 2** Title: Popular Clustering Algorithms in WSN Resource Person: Dr. L. Nirmala Devi, Osmania University. Hyderabad Venue: CF-05 Poornima College of Engineering, Jaipur
1.30 pm - 2.00 pm	**Lunch Break**
2.00 pm - 4.00 pm	**Lab Session 2: Hands-on on NS-3** Resource Person: Mr. Rahul Hada, System Engineer, Criterian Networks Ltd, Bangalore Venue: IBM Lab
Wednesday, Day 3: 18th September, 2019	
9.00 am -11.00 am	**Session 3** Topic: Extending Battery Lifetime Through Energy Harvesting, and the Journey Towards Self-Sustaining Nodes Resource Person: Dr. Shankar Prakriya, Professor, Deptt of ECE, IIT Delhi Venue: CF-05 Poornima College of Engineering, Jaipur
11:00 am – 11:30 am	**High Tea / Coffee Break**
11.30 am -1.30 pm	**Session 4** Title : Towards Higher security and Spectral Utilization Efficiency through Interference Management Resource Person: Dr. Shankar Prakriya, IIT Delhi Venue: CF-05 Poornima College of Engineering, Jaipur
1.30 pm-2.00 pm	**Lunch Break**
2.00 pm - 4.00 pm	Lab Session 3: Introduction & Hands-on on SenseNut WSN Tool Resource Person: Dr. Garima Mathur, HoD, ECE, PCE Jaipur Venue: IBM Lab
Tuesday, Day 4: 19th September, 2019	
9.00 am – 11.00 am	**Session 5** Title: Research on WSN at IIT Bombay Resource Person: Dr. Shabbir Merchant, IIT Bombay, Mumbai Venue: CG-05 Poornima College of Engineering, Jaipur

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11:00 am – 11:30 am	**High Tea / Coffee Break**
11.30 am - 1.30 pm	**Session 6** Title: WSN Taxonomy of Simulation Tools Resource Person: Dr Tarun Kumar Dubey, Manipal University, Jaipur Venue: CG-05 Poornima College of Engineering, Jaipur
1.30 pm - 2.00 pm	**Lunch Break**
2.00 pm - 4.00 pm	**Lab Session 4: Hands-on on SenseNut WSN Tool** Resource Person: Dr.Garima Mathur, HoD, ECE, PCE Venue: IBM Lab
09:00 am – 11:00 am	**Session 7** Title: Data Management Issues in WSNs Resource Person: Dr. Santhi Thilagam, Professor, NIT, Surathkal, Karnataka Venue: CG-05 Poornima College of Engineering, Jaipur
11:00 am – 11:30 am	**High Tea / Coffee Break**
11.30 pm - 1.30 pm	**Session 8** Title: Wireless Sensor Networks and Network Simulator 2 Hands On Experience Resource Person: Dr. T.S. Pradeep Kumar, Professor, VIT University, Tamil Nadu Venue: CG-05 Poornima College of Engineering, Jaipur
1.30 pm - 2.00 pm	**Lunch Break**
2.00 pm - 4.00 pm	**Lab Session 5: Hands on Practise on NS2** Resource Person: Dr. T.S. Pradeep Kumar, Professor, VIT University, Tamil Nadu Venue: IBM Lab
Tuesday, Day 6: 21st September, 2019	
9:00 am – 10:00 am	**Session 9** Title: Challenges in Ubiquitous Computing & WSN Resource Person: Dr. Mahesh Bundele, PCE Venue: CG-05 Poornima College of Engineering, Jaipur
10:00 am -11:00am	**Evaluation Test** Venue: CG-05 Poornima College of Engineering, Jaipur
11:00 am - 11:30 am	**High Tea / Coffee Break**
11.30 am - 12.30 pm	**Valedictory Function**
12.30 pm - 1.30 pm	**Lunch Break**
1.30 pm - 5.30 pm	**Jaipur Visit**

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♦ INAUGURAL SESSION:

Short Term Training Program on

Ubiquitous Computing and Wireless Sensor Networks September 16 -21, 2019

Sponsored by

AICTE Quality Improvement Scheme

(AQIS)

Organized by:

Department of Computer Engineering Department of Electronics & Comm. Engineering

Poornima College of Engineering, Jaipur

Q- Sheet Inaugural Session

Monday 16th September, 2019, Venue: CG 05, PCE, Jaipur

S. No	Activity	Duration	Time
1.	Reporting and Registration of Delegates	30 Min	08:30 am-09:00 am
2.	Welcome of Dignitaries by the anchors	05 Min	09:00 am-09:05 am
3.	Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana) • **Chief Guest Prof. (Dr.) Uday B. Desai,** Former Director, IIT, Hyderabad • **Guest of Honour Prof. (Dr.) Rahul Banerjee**, Director, LNM IIT, Jaipur • **Dr. Mahesh Bundele**, Director, Poornima College of Engineering • **Mr. Pankaj Dhemela**, Vice Principal, Poornima College of Engineering • **Dr. Ajay Khunteta,** Coordinator STTP	05 Min	09:05 am-09:10 am

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4.	• **Felicitation of Chief Guest Prof. (Dr.) Uday B. Desai, Former Director, IIT, Hyderabad** by **Dr. Mahesh Bundele**, Director, Poornima College of Engineering • **Felicitation of Guest of Honour (Dr.)Rahul Banerjee, Director, LNM IIT, Jaipur by Mr. Pankaj Dhemela**, Vice Principal, Poornima College of Engineering	5 Min	09:10 am-09:15 am
5.	Introduction of STTP by Coordinator **Dr. Ajay Khunteta**, Professor CSE, PCE	5 Min	09:15 am-09:20 am
6.	Welcome address by **Dr. Mahesh Bundele**, Director, Poornima College of Engineering	5 Min	09:20 am-09:25 am
7.	Address by **Porf. (Dr.) Rahul Banerjee,** Director, LNMIIT, Jaipur	10 Min	09:25 am-09:35 am
8.	Inaugural Address by **Chief Guest Dr. Uday B. Desai, IIT, Hyderabad**	15 Min	09:35 am-09:50 am
9.	Vote of Thanks by **Dr. Garima Mathur**, HoD, ECE	05 Min	09:50 am-09:55 am
10	Group Photograph	05 Min	09:55 am-10:00am
11	High Tea	30 Min	10:00 am-10:30 am

♦ DETAILS OF RESOURCE PERSONS:

- Dr. Uday Desai, Professor, IIT, Hyderabad Dr. Shankar Prakriya, Professor, IIT, Delhi
- Dr. Rahul Banerjee, Professor, LNMIIT, Jaipur
- Dr. Shabbir Merchant, Emeritus Professor, IIT Bombay, Mumbai Dr. Santhi Thilagam, Professor NIT, Surathkal, Karnataka
- Dr. T.S. Pradeep Kumar, Professor, VIT University, Tamil Nadu
- Dr. L. Nirmala Devi, Associate Professor, O. U. College of Engineering, Tamil Nadu Dr. Mahesh Bundle, Professor, Poornima College of Engineering, Jaipur
- Dr. Tarun Kumar Dubey, Associate Professor, Manipal University, Jaipur Dr. Garima Mathur, Professor, Poornima College of Engineering, Jaipur.
- Mr. Rahul Hada, System Engineer, Criterion Networks Ltd, Bangalore

♦ GLIPMSES OF CONDUCTION:

On First day 16th September, 2019, the inaugural ceremony was organized in Conference

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Hall CG-05. Prof. Dr. Uday B. Desi, Former Director, IIT Hyderabad was invited as the Chief Guest and Dr. Rahul Banerjee, Director, LNM IIT, Jaipur was invited as Guest of Honor in the ceremony. Presence of students and faculty members of various engineering colleges across India as audience made the event lively. The inaugural ceremony started with lighting of lamp by the dignitaries.



Anchor of Inaugural Session

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Lighting of Lamp by Prof. Dr. Rahul Banerjee



Lighting of Lamp by Prof. Dr. Mahesh Bundele

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Lighting of Lamp by Prof. Pankaj Dhemela



Lighting of Lamp by Dr. Ajay Khunteta

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Dignitaries were felicitated by bouquets and mementos. The ceremony was enlightened by precious words of Dignitaries.



Felicitation of Dr. Uday B. Desi By Dr. Mahesh Bundele



Felicitation of Dr. Uday B. Desi By Dr. Mahesh Bundele

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Felicitation of Dr.Rahul Banerjee by Prof. Pankaj Dhemela



Felicitation of Dr. Rahul Banerjee by Prof. Pankaj Dhemela

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- **Introduction of One Week STTP on Ubiquitous Computing and WSN:**

Dr. Ajay Khunteta Professor and Coordinator of this STTP, welcome and introduced all guests to the audience. He threw a light on importance and relevance of this STTP in current scenario. He informed to all that total 42 PG students and faculty members across India are participating in this Training Program. He briefly introduced all the experts of STTP and lab session on NS3 and Sensnut.



Introduction of STTP by Dr. Ajay Khunteta

- **Address by Director, PCE:**

Dr. Mahesh Bundele (Director, PCE) congratulated all the participant to be a part of this training program. Dr. Mahesh Bundele spoke about the steps taken by Poornima Engineering College for improvement in research and development. He also informed the audience about ongoing and upcoming IEEE conferences organizing by college in near future. He also invited all audience for submit their research paper in upcoming IEEE conference ICRAIE-2019 (International Conference on Recent Advances in Engineering - 2019) to be held in Malaysia in month of November 2019.

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Welcome Address by Dr. Mahesh Bundele, Director, PCE

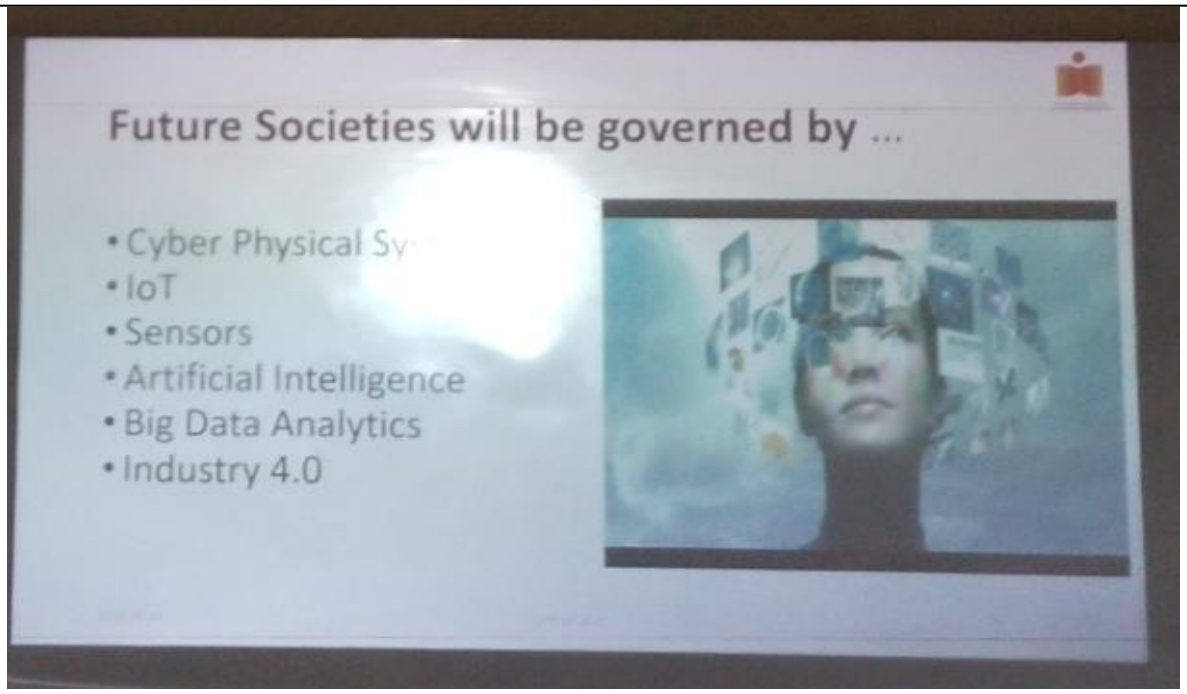
The Expert talk were conversed by Prof. Dr. Uday B. Desi Former Director, IIT Hyderabad and Dr. **Rahul Banerjee.** , Director, LNM IIT, Jaipur.

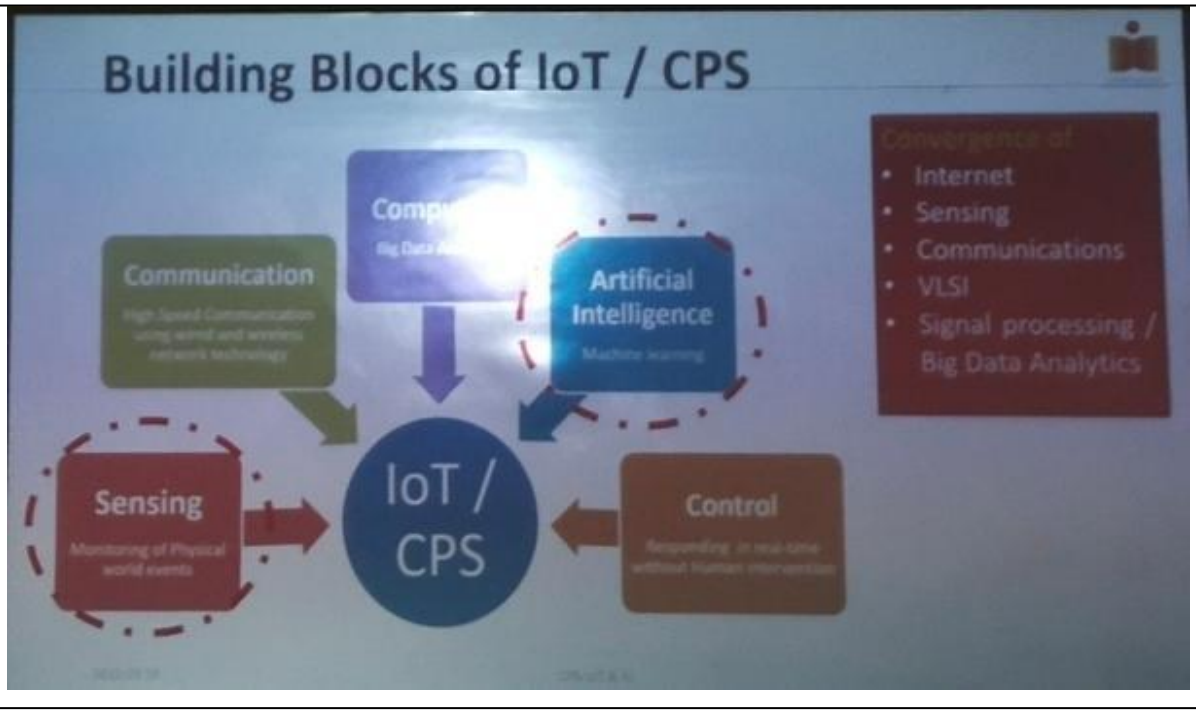


Expert Talk by Prof. Dr. Udai Desi, Former Director, IIT Hyderabad

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Prof. Dr. Uday B. Desi, Former Director, IIT Hyderabad delivered a talk on challenges of Ubiquitous computing and WSN. He motivated students to work on some challenging problems and discussed some project and research work carried out at IIT Hyderabad in areas of Robotics, Healthcare, IOT and Agriculture. He also shown some video of projects of woman security using wsn, autopilot drone, Drone based remote sensing, IOT network for smart agriculture, detection of flowering panicles, Emergency alarming device with LoRa, and crop prediction of rice etc carried out at IIT H by his team and students.





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Cyber Physical System (CPS)

- Orchestrating **physical world** with **networked** computational resources
- CPS: Fundamentally a closed loop system
- Feedback will play a very important role

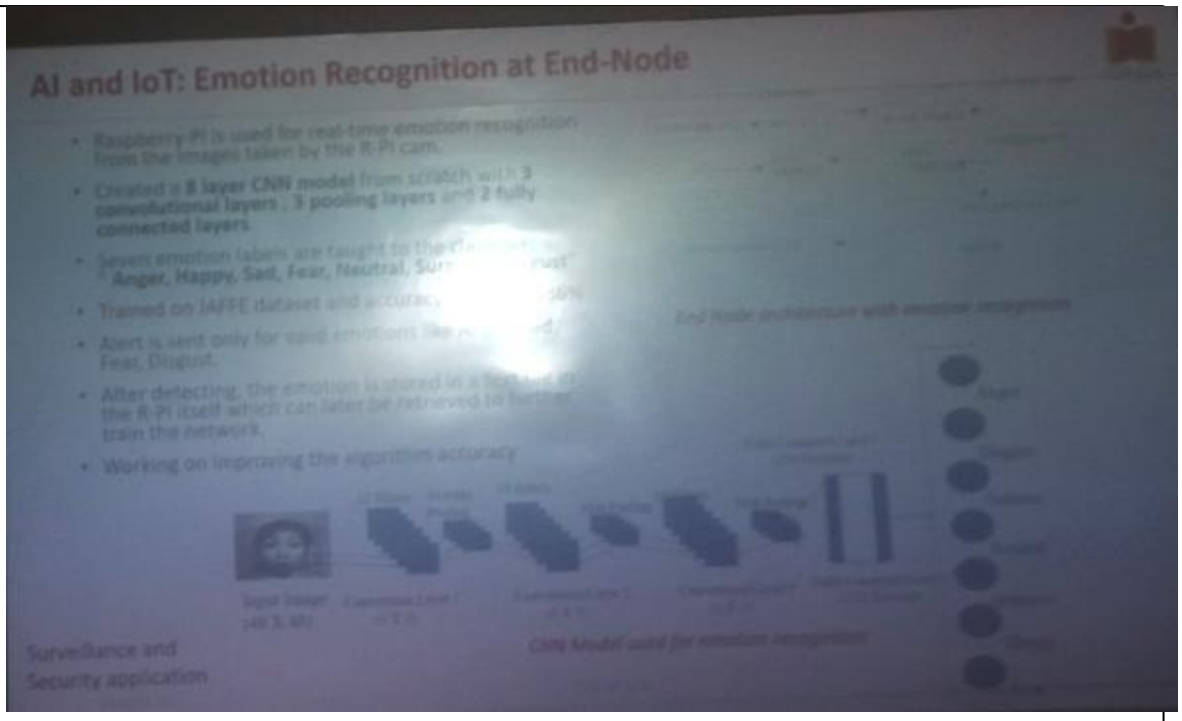


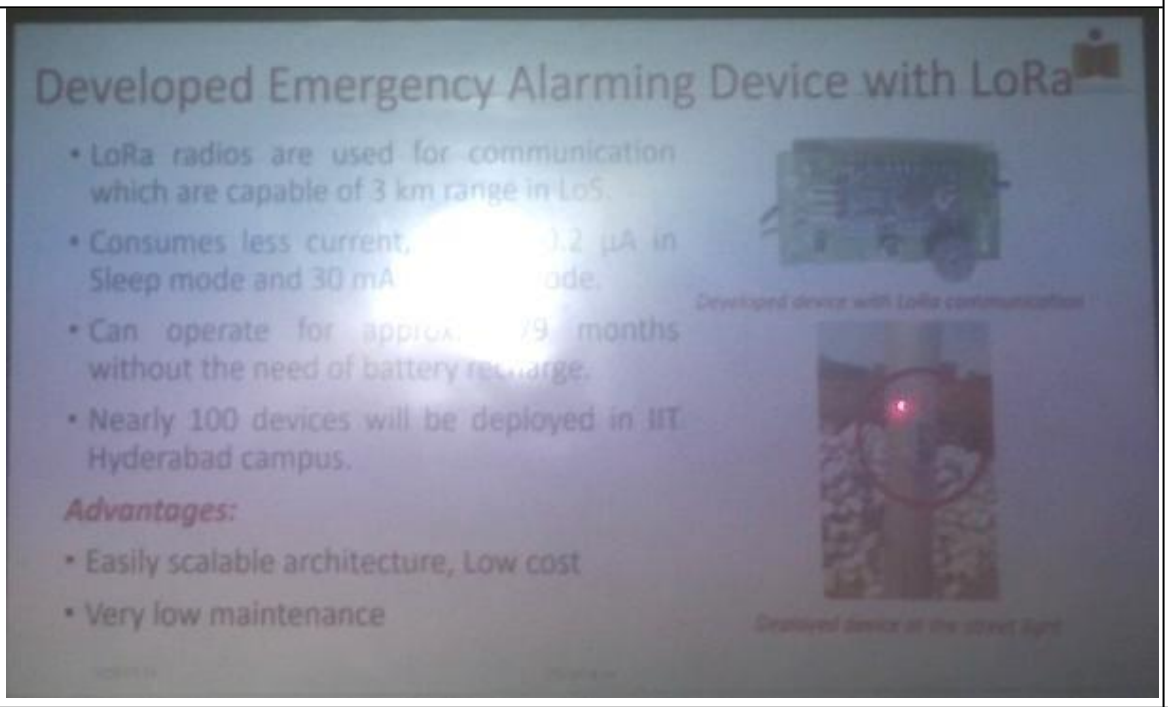
IoT Network for Smart Agriculture

- Monitoring:
  - **Soil Parameters:** Soil Moisture and Soil Temperature
  - **Environmental Parameters:** Ambient Temperature, Humidity, Light intensity and CO2 concentration.
- In-House developed **IITH mote** as a sensor node and the sink.
- Senors:
  - ✓Light Intensity **BH1750**
  - ✓Humidity and Ambient Temperature: **DHT11**
  - ✓CO2 concentration: **Figaro's CDM4161A**
  - ✓Soil Temperature: **Thermister – 10kΩ**
  - ✓Soil Moisture: **In-house developed at IITH**



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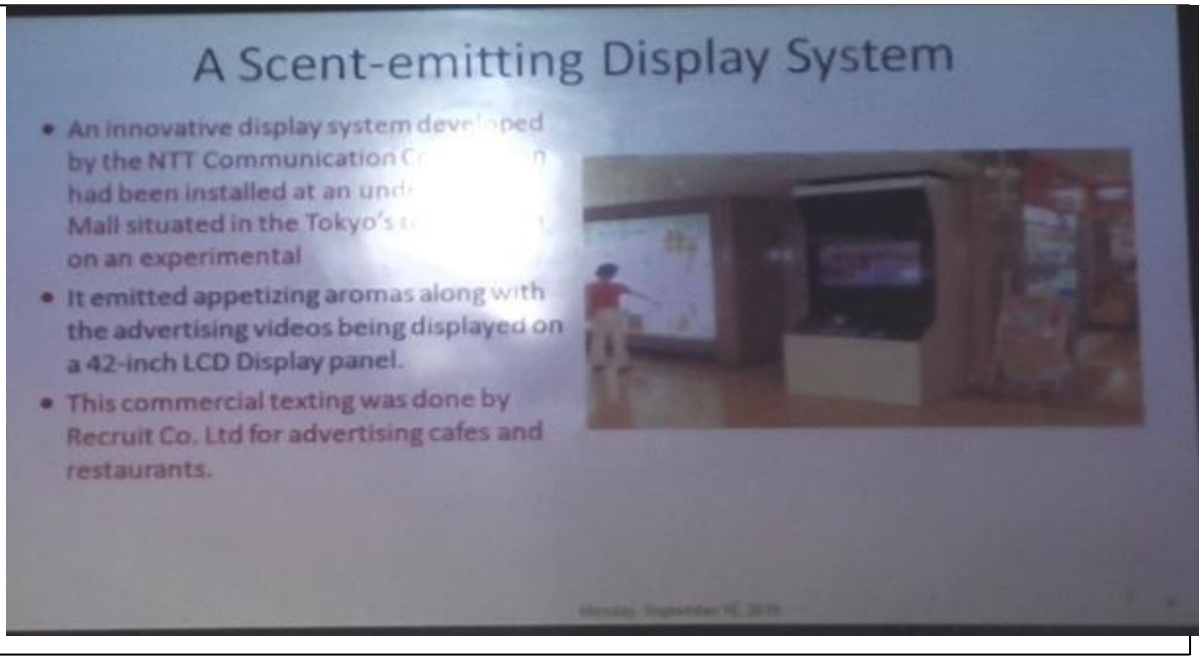
Some of slides during talk of Prof. Dr. Uday B. Desi

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The other keynote speaker **Dr. Rahul Banerjee.** , Director, LNMIIT, Jaipur shared his experiences in field of Ubiquitous computing. He shared some challenging problems and their possible solutions with the participants. He discussed a scent emitting display system, MS EL Project carried out at an MSR laboratory, and Emotion recognition at end node using AI and IOT.



Expert Talk by Prof. Dr. Rahul Banerjee, Director, LNMIIT, Jaipur



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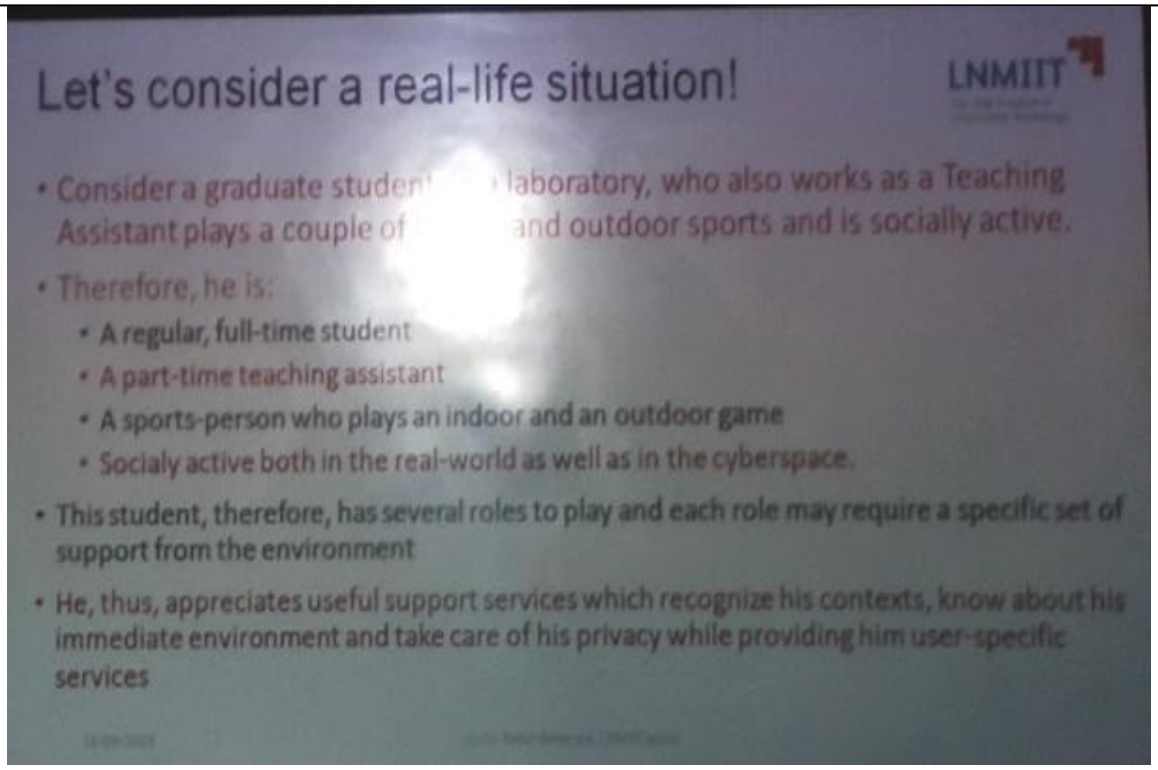


Update on Communication & Networking Aspects and IoT Software Development and Services

LNMIIT

- **Open Connectivity Foun** OCF): One of the major objectives is to bring about interoperabil ugh open source framework: **IoTvity**. https://openconnectivity.org/
- **IoTivity**: IoTivity is an open source software framework for enabling seamless device-to-device (smallest to largest devices) connectivity for IoT services
  - IoTvity (regular / full)
  - IoTity Lite <See: https://wiki.iotivity.org and code is available on GitHub>
  - IoTvity support / plug-ins for many platforms like IoTvity plug-in for **Eclipse** SmartHome, iOS™, Apple® **MacOS**™, **Linux**™, MicroSoft® **Windows**™, IoTvity for **Contiki**™, **TinyOS**™, many other RTOS
  - IoTvity Simulator is also available for free download online
  - IoTvity Tutorials (many, on TouTube™)

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Some of slides during talk of Prof. Dr. Rahul Banerjee



Vote of Thanks by Dr. Garima Mathur, Professor, PCE, Jaipur

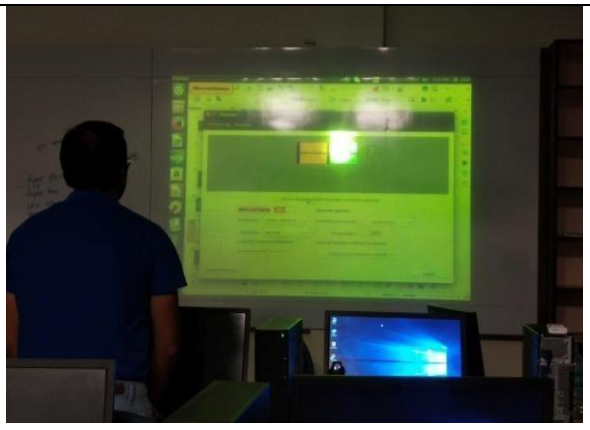
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Dr.Garima Mathur Prof. ECE department proposed vote of thanks. Celebration was successfully completed under the encouraging support and guidance of Dr. Mahesh Bundele, Director, Mr. Pankaj Dhemla, Vice Principal, Mr. Punit Shukla, Registrar, Dr. Suchi Dave, Chair WISE, Mr. Amol Saxena HOD-IT, Poornima College of Engeering.



- **CONTENT DELIVERY / PRACTICAL SESSIONS:**

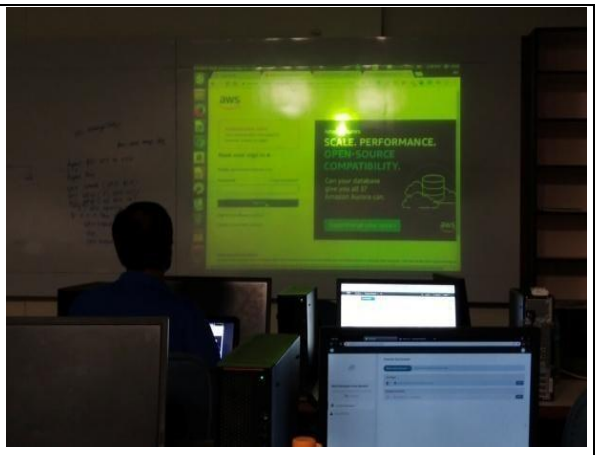
After lunch Mr. Rahul Hada has taken the lab session on NS3. He discussed the importance features of NS3 which are useful in research in area of network. He demonstrated the method through which anybody can use NS3 from cloud which was deployed by himself. He also demonstrated the process of installation of NS3 on desktop PC.

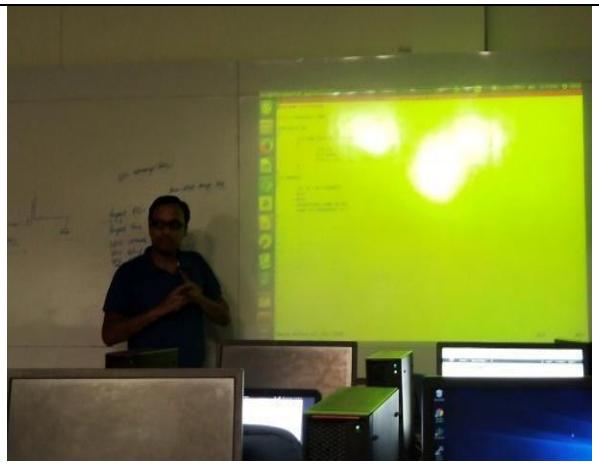


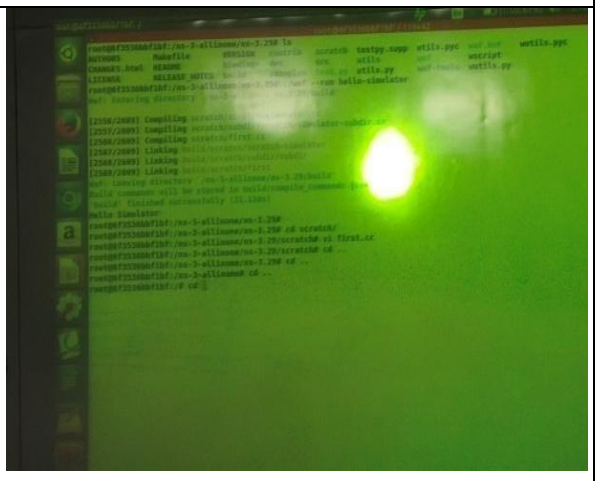


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Some Screenshot of lab session taken by Mr. Rahul Hada

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Day 2:

On day 2 Tuesday Prof. **Dr. L. Nirmala Devi**, from Osmania University. Hyderabad was resource person. She took two different session on WSN from 9.00am to 11 am and 11.30 am to 1:30 pm. In first session form 9:00am to 11:00 am she explained some very popular routing algorithms in field of WSN.



Felicitation of Dr. L. Nirmala Devi by Dr. Mahesh Bundele



Felicitation of Dr. L. Nirmala Devi By Dr. Mahesh Bundele

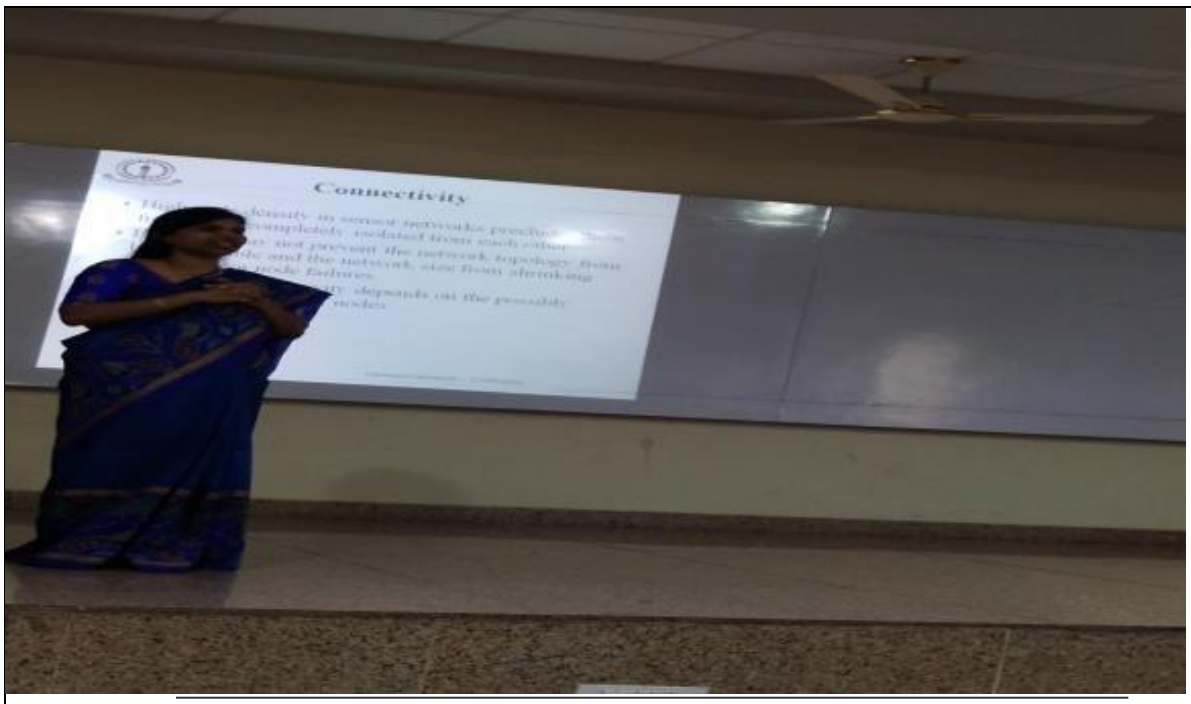
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She discussed the challenges and limitation with exiting routing algorithms in wsn. She discussed some of her publications related possible solution of energy problems in exiting routing algorithm. She was very much focused on energy harvesting systems in WSN and related protocols. She explained the architecture of some very famous solution of battery problem with real time examples. In next session form 11:30am to 1:30 pm she demonstrates some projects which were carried out by PG students under her supervision.





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Some Screenshot during talk of Dr. L. Nirmala Devi

She also discussed one DST project on measurement of water quality on hill areas at Hyderabad. She explained the role of wsn in water problem using sensors and 3D printing machine.

Lab session: on day 2 Mr. Rahul Hada continued with previous session. He demonstrates the implementation of some routing algorithms using NS3.

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Day 3:

On day 3 Wednesday, **Dr. Shankar Prakriya**, Professor, Dept. of ECE, IIT Delhi was the resource person. He took session first from 9:00am to 11:00am and second session from 11:30am to 1:30 pm.



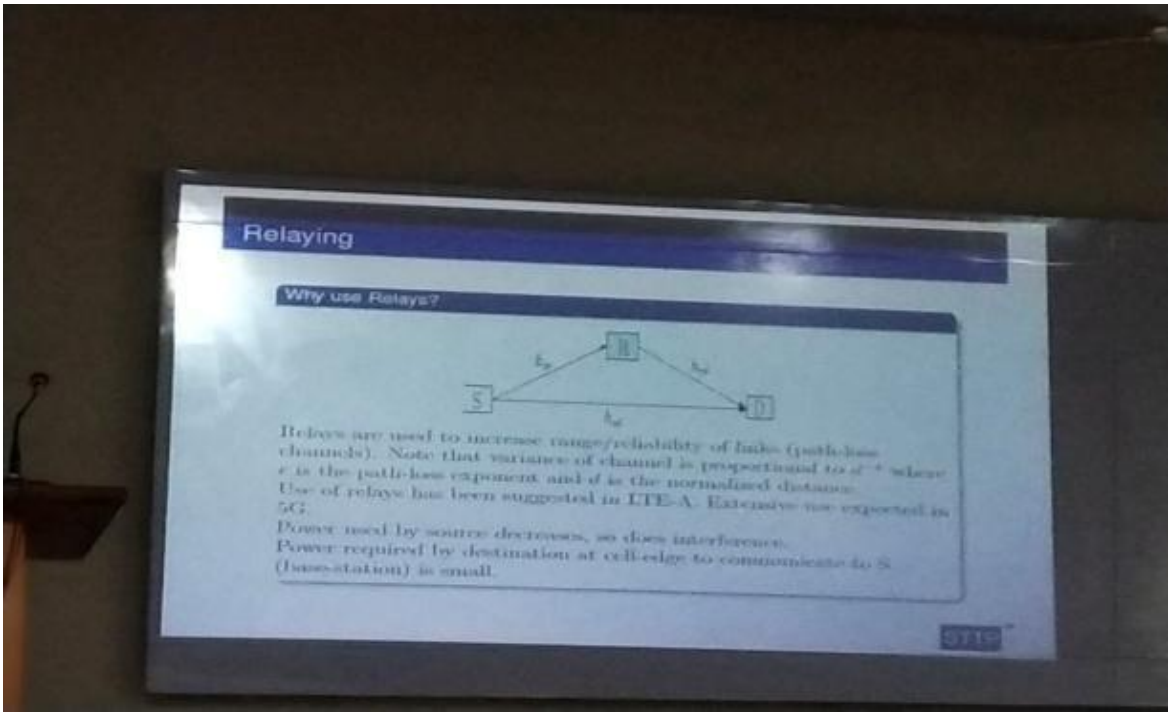
Felicitation of Dr. Shankar Prakriya by Dr. Mahesh Bundele



Felicitation of Dr. Shankar Prakriya by Dr. Mahesh Bundele

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In first session he delivered a talk on “Extending Battery Lifetime through Energy Harvesting, and the Journey towards Self-Sustaining Nodes”.

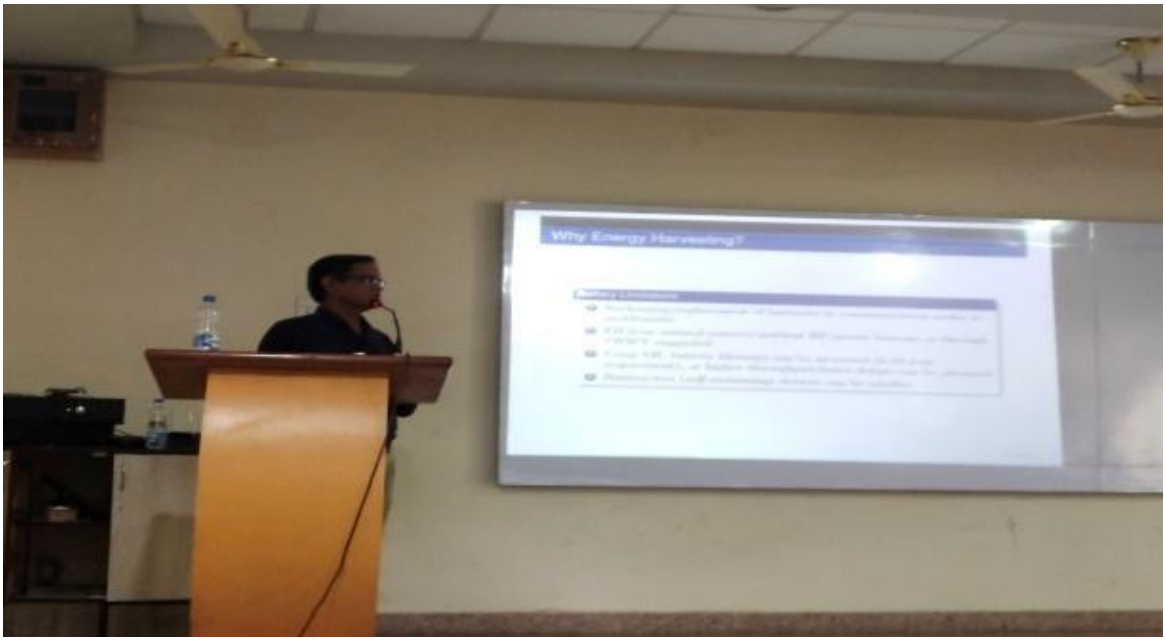




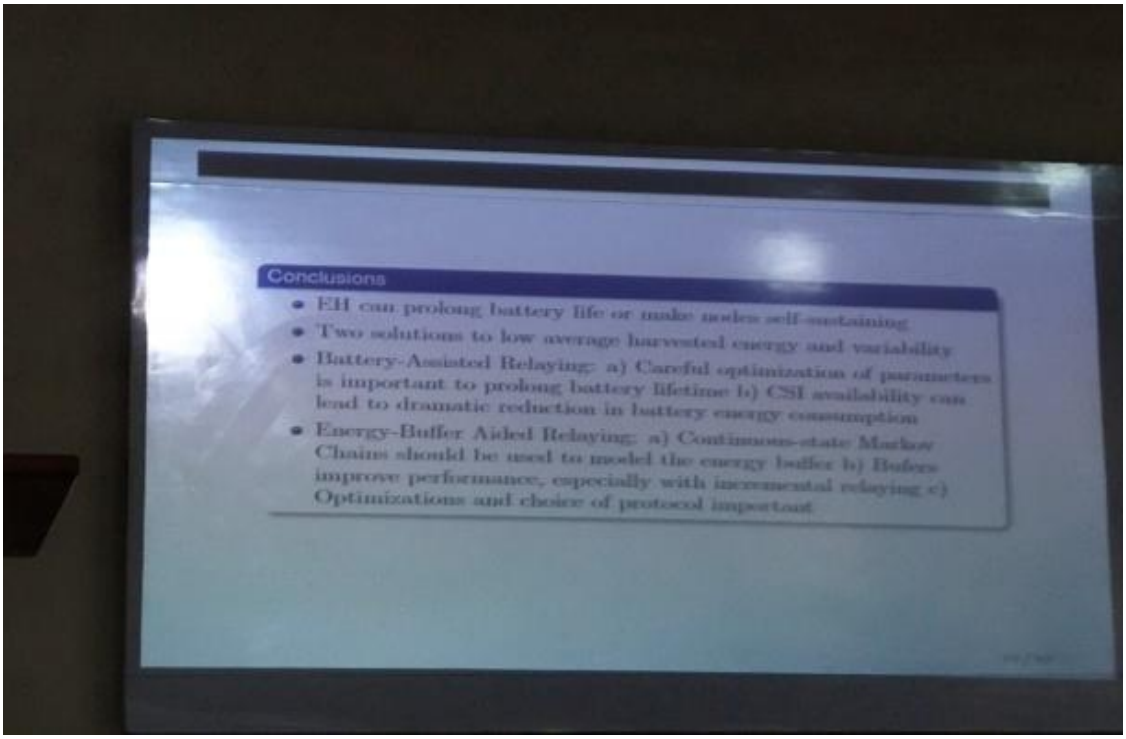
Some Screenshot during talk of Prof. Dr. Shankar Prakriya

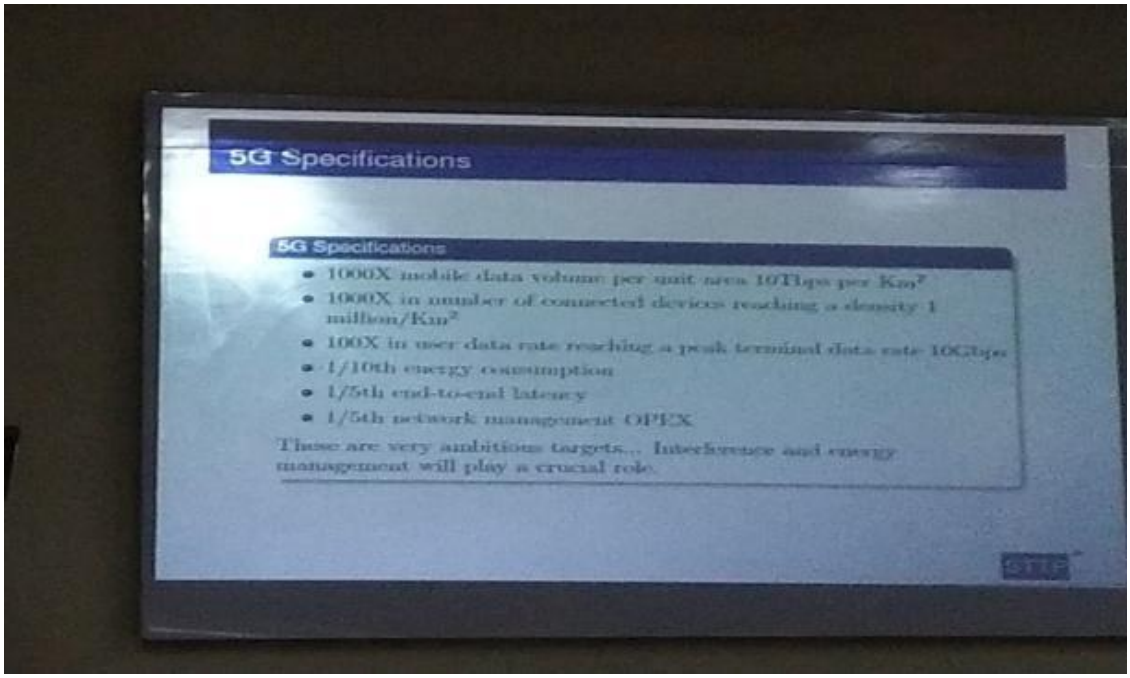
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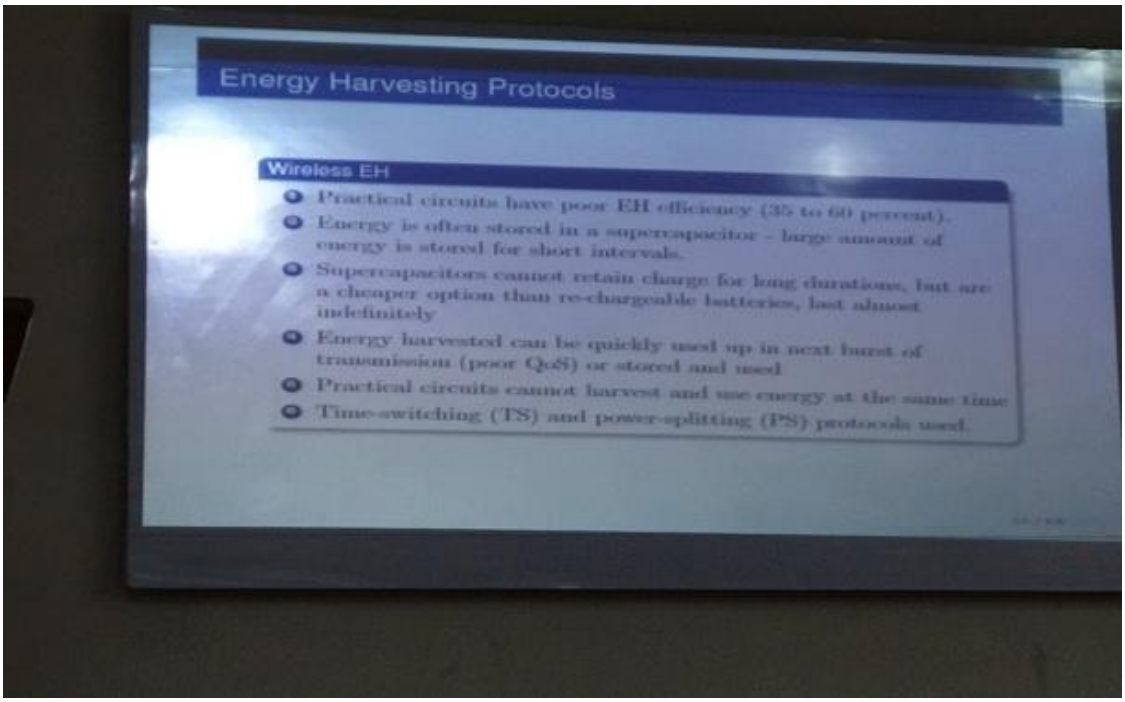
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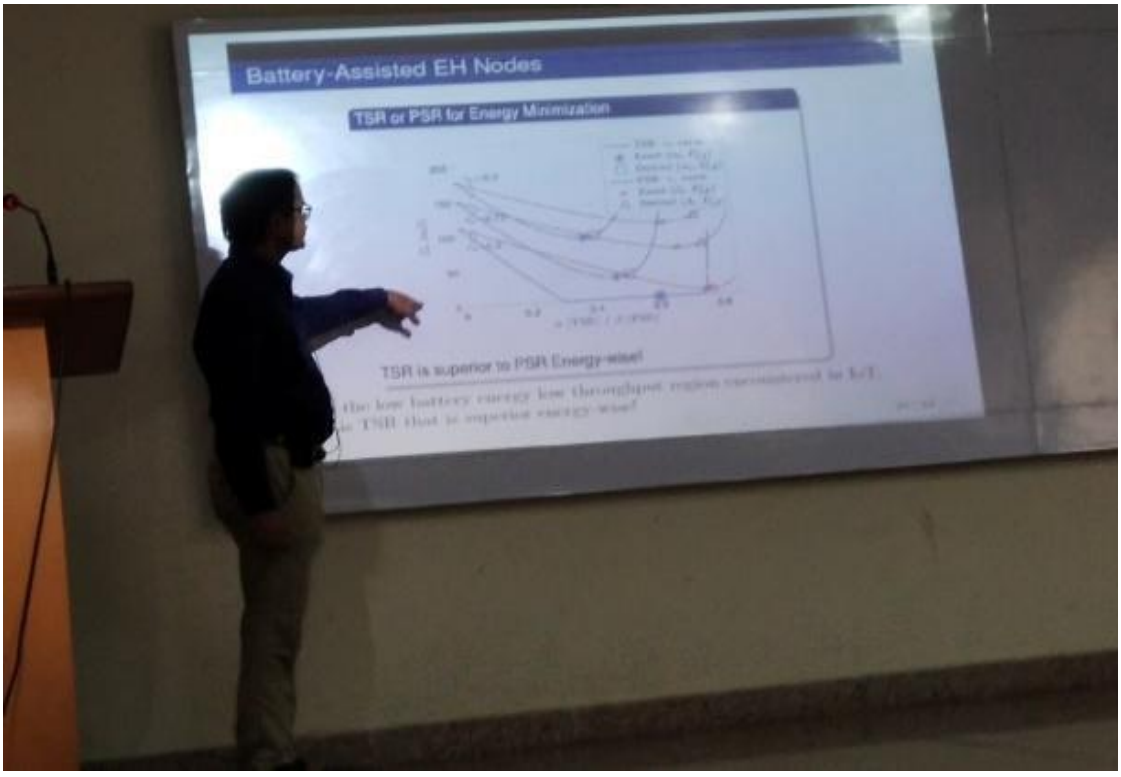




Some Screenshot during talk of Prof. Dr. Shankar Prakriya

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He started his session with some discussion on some communication terminology like Throughput, Relaying, 5G specifications, and then he explained some of his work on energy harvesting protocols. In second session he discussed Optimization methods and battery assisted EH nodes architecture and results of his research work carried out at IIT Delhi. He motivated and invited interested participants to work on WSN in IIT Delhi.

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♦ Lab session:

Day Third Dr. Garima Mathur and his team explain the role of sensnut in field of WSN. They also demonstrated solutions of some small problems using sensnut. The list of experiments is attached with this report as appendix 1.



Lab Session on Sensnut

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Day 4:

19th September, Day 4, Dr. Shabbir Merchant, Emeritus Professor, IIT Bombay, and Dr. Tarun Dubey, Associate professor were resource person.



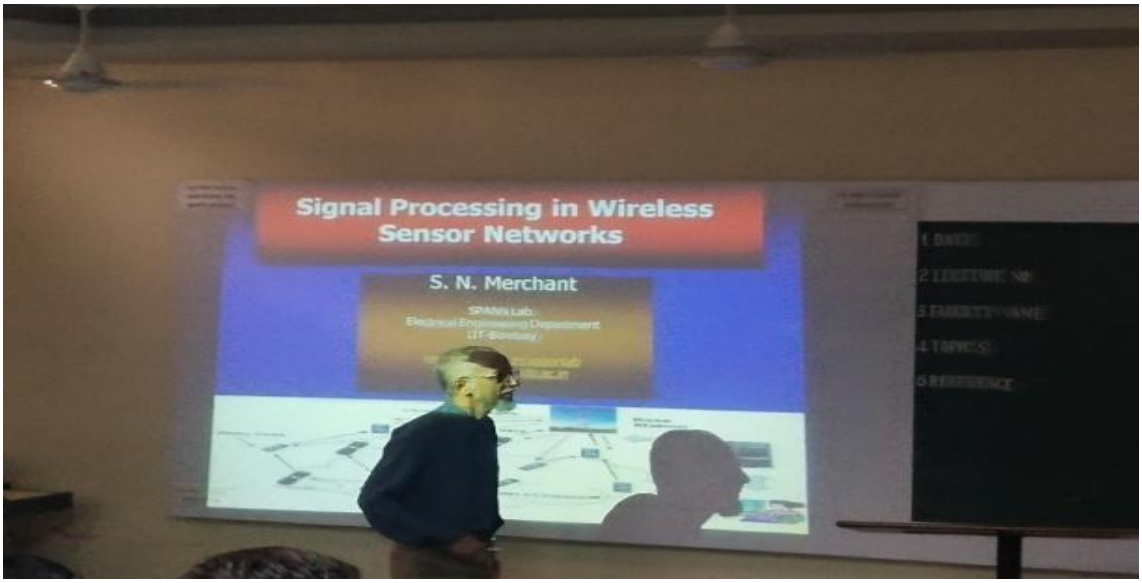


Felicitation of Prof. Dr. Shabbir Merchant by Dr. Mahesh Bundele

Dr. Shabbir Merchant discussed various project which they impleted at IIT Bombay related various social problems. He discussed the theoretical concepts of WSN, and architecture of different systems which they developed at IIT Bombay. He discussed signal Processing in WSN, Ubiquitous computing, importance of WSN in agriculture, and then he discuss in details of Design and development of

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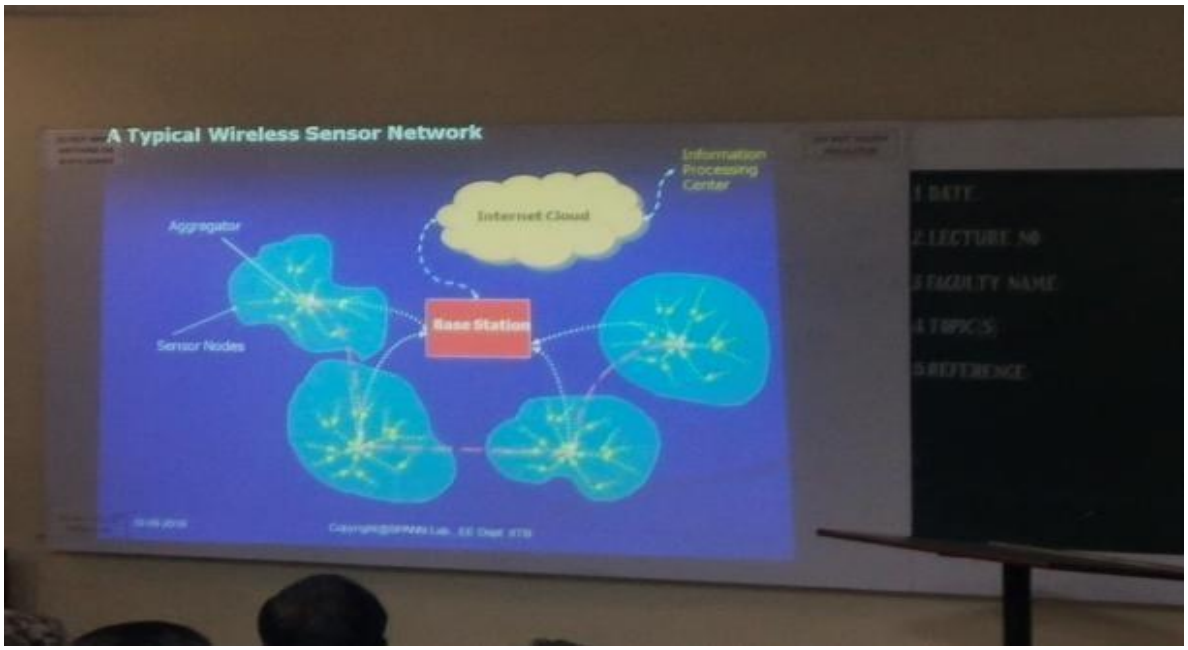
Wireless Network for Intra and Inter Vehicular communication.



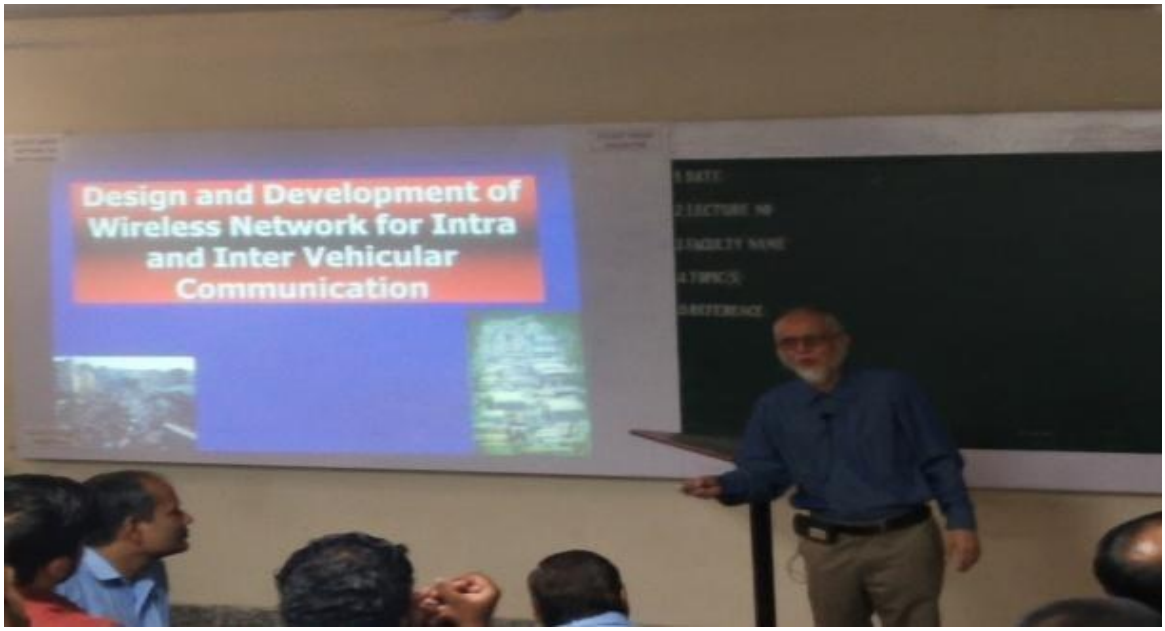


Some Screenshot during talk of Prof. Dr. Shabbir Merchant

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Some Screenshot during talk of Prof. Dr. Shabbir Merchant



Prof. Trun Dubey presented a talk on "Wireless sensor networks: Taxonomy of Simulation Tools"

He discusses various simulation tools available online free of cost in area of WSN. He discussed the limitation and advantages of these tools in details and gave some suggestion as per the need and availability of best tools in different research areas.

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Expert Talk by Dr. Tarun Kumar Dubey

- **Lab session:**

Forth Day Dr. Garima Mathur and his team explain and demonstrated solutions of some problems using sensnut. The list of experiments is attached with this report as appendix 1.

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Day 5:

On day 5, 20th September the resource Person were Dr. Santhi Thilagam, Professor, NIT, Surathkal, Karnataka, and **Dr. T.S. Pradeep Kumar**, Professor, VIT University, Tamil Nadu.



Felicitation of Prof. Dr. Santhi Thilagam By Dr. Mahesh Bundele



Felicitation of Prof. Dr. Santhi Thilagam By Dr. Mahesh Bundele

Dr. Santhi delivered a talk on Data Management Issues in WSNs in morning session. She discussed External Storage and Query Management, and TAG approaches as a solution of these types of problems. She also discussed some of her publications in this area.

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Felicitation of Prof. Dr. T.S. Pradeep Kumar by Dr. Mahesh Bundele

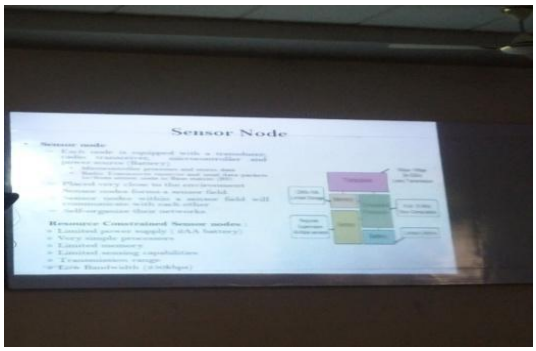


Felicitation of Prof. Dr. T.S. Pradeep Kumar by Dr. Mahesh Bundele

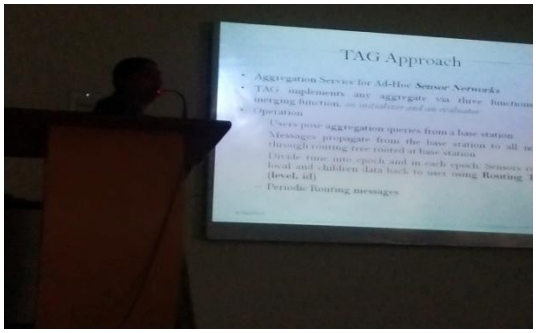
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In second session Dr. T.S. Pradeep Kumar delivered a talk on how to design some good projects using WSN and IOT. He Demonstrate some projects implemented at VIT using WSN like Traffic controller, Smart Dustbin, Woman security, Blind Person Kit, Waste Management of Plastic Pen etc. He also demonstrates some of code to implement some ideas in NS2.









Some Screenshot during talk of Prof. Dr. Santhi Thilagam

♦ Lab session:

Fifth Day Dr. Garima Mathur and Dr. T.S.Pradeep Kumar explain some Projects using NS2 and sensnut. The list of experiments is attached with this report as appendix 1.





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Some Screenshot during talk of Prof. Dr. T.S. Pradeep Kumar

Day 6:

On last day of this STTP Prof. Mahesh Bundle Director delivered a talk on "Challenges in Ubiquitous Computing & WSN Resource". In his talk he discussed various challenges in ubiquitous computing and possible solutions. He motivated all to start work in field of WSN and ubiquitous computing.

A MCQ test was also taken which includes the questions which were discussed and explained in this STTP by different experts. The MCQ paper is attached as Appendix 2.

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After teak break valedictory function started in which Dr. Ajay Khunteta discussed the various outcomes of this sttp. Some of participants shared their views about this STTP. All participants appreciated the efforts done by organized team for success of this STTP. At last participation certificates distributed to participants. After the lunch a bus was available for Jaipur visit.

♦ VALEDICTORY SESSIONS:

9:00 am –10:00 am	**Title:** Challenges in Ubiquitous Computing & WSN **Resource Person: Dr. Mahesh Bundele**, PCE **Venue:** CG-05 Poornima College of Engineering, Jaipur
10:00 am -11:00am	**Evaluation Test** **Venue:** CG-05 Poornima College of Engineering, Jaipur
11:00 am - 11:30 am	**High Tea / Coffee Break**
11.30 am - 12.30 pm	**Valedictory Function**
12.30 pm - 1.30 pm	**Lunch Break**
1.30 pm - 5.30 pm	**Jaipur Visit**

♦ LIST OF PARTICIPANTS:

S.No.	Name	Affilation	Department	Conatact Details	E-Mail
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♦ FEEDBACK ANALYSIS: * Add Feedback / Attainment Calculations

Assessment test for all participants

Attempt all questions. **Time: 3 hours**

All the questions has one marks.

Topic: Introduction of Ubiquitous & WSN

1. MEMS stands for_____

2. A sensor network is subject to a unique set of resource constraints such as

a: finite on-board battery power

b: limited network communication bandwidth

3. In a typical sensor network, each sensor node operates unethered and has a microprocessor and a small amount of memory for signal processing and task scheduling (true/false)_____

4. Each node is equipped with one or more sensing devices such as acoustic microphone arrays, video or still cameras, infrared, seismic or magnetic sensors (true/false)_____

5. Information collected by and transmitted on a sensor network describes conditions of physical environments and requires advanced query interfaces and search engines effectively

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6. support user-level functions (true/false)

7. _____routes user queries or commands to appropriate nodes in a sensor network (bridge/gateway)

8. Communicating 1 bit over the wireless medium at short ranges consumes _____ energy than processing that bit (less/more)

9. For the Sensoria sensors and Berkeley motes, the ratio of energy consumption for communication and computation is in the range of_____to (100/1000/10000)

10. A sensor network is designed to collect information from a enviornment (logical/physical)

11. It is more appropriate to address nodes in a sensor network by than by (IP address/physical properties)

12. Mobility and instability in wireless links prevent the use of many existing edge network gateway protocols for internetworking IP and sensor networks (true/false)_____

13. The challenges we face in designing sensor network systems and applications include a: limited hardware

b: limited support for networking

c: limited support for software development Ans:___(a/b/c/all)

14. Match the following

Limited hardware:	the tasks are typically real-time and massively distributed, involve dynamic collaboration among nodes, and must handle multiple competing events
Limited support for networking:	each node has limited processing, storage and communication capabilities, and limited energy supply and bandwidth
Limited support for software development:	the network is peer-to-peer , with a mesh topology and dynamic, mobile and unreliable connectivity

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Topic: Localization and Tracking

1. Localizing and tracking moving objects is an essential capability for a sensor network in many practical applications (true/false)_____

2. A central problem for CSIP is to dynamically define and form sensor groups based on

_____=

(task requirements/resource availability/both)

3. A sensor network can be defined as an abstract tuple G=<V, E, Pv, Pe. where

__specifies nodes,_specifies link connectivity,_is a set of functions that characterizes the properties of each node and specifies properties of eachlink

4. DOA stands for_____

5. _____is a distributed physical quantity such as temperature, pressure or optical flow across a region of space (area/field)

6. A tracking task can be formulated as a constrained optimization problem <G, T, W, Q, J, C. where is the sensor network ,_____ is a set of targets,_____is a signal model for how target signals propagate and attenuate in the physical medium, denotes a set of user queries, specifies an objective function defined by task requirements and specifies a set of constraints

7. In wireless sensor networks, some of the information defining the objective function and constraints is available only at_____(compile time/run time)

8. The position estimation may be accomplished by a: triangulation computation

b: least square computation

9. Bayesian estimation can be used for position estimation (true/false)_____

10. When the two targets move close to a target track,_____problem has to be addressed (data relationship/data association)

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Topic: Networking Sensors

1. Networking allows geographical distribution of the sensor nodes and their placement close to signal sources (true/false)_____

2. Radio communication is the most expensive operation a node performs in terms of energy usage, and thus it must be used sparingly and only as dictated by the task requirements (true/false)

3. Sensor networks are typically deployed in an adhoc manner (true/false) _____

4. Wireless communication between nodes utilizes radio links (true/false)_____

5. Within the coverage range, communication is by_____(multicast/broadcast)

6. UDG stands for_____

7. Nodes operate unethered and have limited power resources(true/false)_____

8. For communication, the main consideration is that communication paths consists of many short hops can be_____energy efficient than paths using a few long hops (less/more)

9. Networking involves multiple layers in the protocol stack (true/false)_____

10. _____sub-layer manages access to the physical network medium, and its fundamental goal is to reduce or avoid packet collisions in the medium (MAC/LLC)

11. Following characteristics of wireless sensor networks point to the need for a specialized MAC protocol

a: the issues of fairness of the node level are much less important than overall application performance

b: most sensor nodes are idle much of the time

c: In-network processing can greatly improve bandwidth utilization

d: the assumed lack of mobility and therefore the relatively fixed neighborhood of each node can be exploited in medium access protocol design

e: issues of energy efficiency, scalability and robustness remain paramount

12. Following MAC protocols have been developed for wireless voice and data communication networks

a: TDMA b: FDMA c: CDMA d: CSMA e: WLAN

13. The main goal of the_____is to reduce energy waste caused by idle listening, collisions, overhearing and control overhead (S-MAC protocol/IEEE802.15.4 standard)

14. The S-MAC protocol includes following major components

a: periodic listen and sleep

b: collision avoidance c: overheating avoidance d: message passing

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Topic: Infrastructure Establishment

1. The problem of_____for a sensor network is how to set the radio range for each node so as to minimize energy usage, while still ensuring that the communication graph of the nodes remains connected and satisfies other desirable communication properties (topology control/traffic monitoring)

2. CTR stands for_____

3. _____problem states "compute the minimum common transmitting range r such that the network is connected" (topology control/critical transmitting range)

4. The probabilistic theory best suited to the analysis of CTR is the theory of (GRG/GLS)_____

5. GRG stands for_____

6. In_____setting, n points are distributed into a region according to some distribution, and then some aspect of the node placement is investigated (GRG/GLS)

7. If n points are randomly and uniformly distributed in the unit square, then the critical transmission range is, with high probability

a: r=c.sqrt (n/logn) b: r=c.sqrt (logn/n)

8. One should choose_____ranges in areas of high node density and _____ranges in regions of low density (short/long)

9. The range assignment problem has been shown to be NP complete for dimensions & above (1/2)_____

10. _____MST based algorithms can be expensive to implement on typical sensor nodes (homogeneous/non-homogeneous/either)

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Topic: Sensor Tasking and Control

1. _____sensor can be tasked to look for animals of a particular size and color.

. sensor can be tasked to detect the presence of a particular type of vehicle (acoustic/camera)

2. IDSQ stands for_____

3. The purpose of a sensor system is to obtain information that is as extensive and detailed as possible about the unknown parts of the world state (true/false)_____

4. When we know the relevant manifest variables defining the world state, then computing the answers to queries about the world state is a_____problem (standard algorithm design/range assignment)

5. The standard algorithm design problem needs to be modified in the sensor network context because

a: the values of the relevant manifest variables are not known but have to be sensed

b: the cost of sensing different variables or relations of the same type can be vastly different

c: frequently the value of a variable or a relationship between variables, may be impossible to determine using the resources available in the sensor network

6. The online nature of sensing requires the use of methods such as_____to account for the fact that the value of sensor readings cannot be known before they are made (competitive analysis/value of information/either)

7. The main idea of information-based sensor tasking is to base sensor selection decisions on information content as well as constraints on resource consumption, latency and other costs (true/false)_____

8. _____formulates the sensor tasking problem as a general distributed constrained optimization that maximizes information gain of sensors while minimizing communication and resource usage (IDSQ/IBST)

9. _____refers to the knowledge about the target state such as position and velocity (belief state/true state)

10. Following approaches can be used for localizing a stationary source and tracking a moving source

a: a leader node might act as a relay station to the user, in which case the belief resides at this node for an extended time interval, and all information has to travel to this leader

b: the belief itself travels through the network, and nodes are dynamically assigned as leaders

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Topic: Sensor Network Databases

1. From a data storage point of view ,one may think of a sensor network as a distributed database that

a; collects physical measurements about the environment

b; indexes them

c; serves queries from users and other applications external to or from within the network

2. The advantage of the database approach is that it provides a separation between the logical view of the data held by the sensor network and the actual implementation of these operations on the physical network (true/false)_____

3. In a classical DBMS, data is stored in a_____location (centralized/distributed)

4. The structure and constraints of the data format are called database_____(table/schema) 5. The database scheme is typically defined or modified by a database administrator using _____(DML/DDL)

6. DDL stands for_____

7. Today most databases employ relational schemas and their variants, organizing data into tables whose are record tuples and whose _ are labeled by data attributes rows/columns)

8. _____compiler translates the definitions into metadata which is stored in permanent storage along with the actual data (DML/DDL)

9. _____is a data structure describing the structure of the database data and the constraints they must satisfy (metadata/temporal data)

10. In a typical database system ,the_____directly controls storage devices such as disks and the flow of data between them and main memory (storage & buffer manager/transaction manager)

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Topic: Applications and Future Directions

1. The main problem with wired sensor networks is_____in deployment

2. A_____network is more time consuming to construct and deploy, precluding applications where immediate data collection is needed (wired/wireless)

3. The size of wireless sensor system is limited mostly by a: the cost of maintaining communication links

b: the cost of sensor hardware

4. Following are application areas of wireless sensor network a: asset and warehouse management

b: automotive c: building monitoring and control d: environmental monitoring

5. Following are application areas of wireless sensor networks a: health care

b: industrial process control

c: military battlefield awareness d: security and surveillance

6. DSRC stands for_____

7. NHTSA stands for_____

8. Sensors may be used

a: to monitor and track assets such as trucks or other equipment

b: to manage assets for industries such as oil and gas, utility, and aerospace

9. Sensors can be used

a: to monitor conditions and movements of wild animals or plants in wildlife habitats

b: to monitor air quality and track environmental pollutants, wildfires or other natural or man-made disasters c: to monitor biological or chemical hazards to provide early warnings

d: to monitor earthquake

10. _____sensors instrumented in a building can detect the direction and magnitude of a quake and provide an assessment of the building safety (acoustic/seismic)

11. C3I Stands for_____

12. Ensuring security and privacy is one of the highest priorities for sensor network systems (true/false) ____

13. PKI stands for_____

14. EmSoft Stands for_____

15. _____ framework allows an application developer to write code for a sensor network signal processing and tracking application using a state-centric model of programming (TOSSIM/PIECES)

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- **SWOT ANALYSIS:**
  - It promotes student-centered learning and collaboration
  - Lessons and Contents are more accessible
  - It can more efficient
  - It relies on preparation and trust
  - There is significant work on the front end.
  - This is more about proper planning and includes any iteration required for the purpose of highly building highly scalable software.
- **BUDGET & ACTUALS: N/A**

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COLLEGE OF ENGINEERING

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

A Report on 5-days Faculty Development Program

TITLE AND DURATION: "Hands-on Practice on 3D Printing Technology" (August 27-31, 2019)

SPONSORS: TEQIP-III, Rajasthan Technical University Kota.

SUPPORTERS: Rajasthan Technical University Kota.

ORGANIZERS: Rajasthan Technical University, Kota and Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES: The event aims to provide an online platform to an in-depth discussion & networking on the various challenges and their possible remedies in the evolution of additive manufacturing and 3D printing which will benefit participants from academics, R&D institutions, & Industries.

EXPECTED OUTCOMES:

- To provide research-oriented discussion along with theoretical concepts, which shall facilitate the understanding of process through practical implementation in area of additive manufacturing.
- Bringing together the experts of alternative fuels, technologists, enthusiasts, and faculty to discuss the Latest issues and possible solutions in area of additive manufacturing.
- Identifying Industry challenges and sensitize about latest trends and technologies in area of additive manufacturing.

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BROCHURE / POSTER / LEAFLET / FLYER:



INAUGURAL:

TEQIP-III RTU (ATU), KOTA SPONSORED 5-DAY's FACULTY DEVELOPMENT PROGRAMME
On
"Hands on Practice on 3D printing Technology"
(27th to 31th August, 2019)
Organized by
Rajasthan Technical University, Kota
&
Poornima College of Engineering
INAUGURAL SESSION
(AUGUST 27, 2019)

Q-Sheet

Time: 9:30 AM to 10.45 AM **Venue**: **CG-05, Seminar Hall, Central Block, PCE Campus, Jaipur**

Time	Activity	Name
09:30 AM–10:00 AM	Arrival of Guest, Participants at Venue	---
10:00 AM-10:05 AM	**Lighting of Lamp:** • **Chief Guest Dr. Santosh Kumar**, IIT BHU • **Dr. Mahesh Bundele**, Director, PCE • **Ar. Rahul Singhi**, Director, PG • **Mr. Pankaj Dhemla**, Vice Principal, PCE • **Mr. Anshul Bansal**, FDP coordinator, RTU • **Dr. Narayan Lal Jain**, HOD, ME, PCE	All Eminent Dignitaries
10:05 AM-10:10 AM	**Felicitation Ceremony :** • **Chief guest, Dr. Santosh Kumar**, IIT BHU by **Dr. Mahesh Bundele**, Director, PCE, Jaipur	
10:10 AM–10:20 AM	Address by **Dr. Mahesh Bundele**, (Principal & Director, PCE)	**Dr. Mahesh Bundele**
10:20 AM–10:35 AM	Inaugural address By Chief Guest **Dr. Santosh Kumar**, IIT BHU	**Dr. Santosh Kumar**
10:35 AM–10:40 AM	Vote of Thanks by **Mr. Ashwani Kapoor**, Coordinator FDP	**Mr. Ashwani Kapoor**
10:40 AM–10:45 AM	Group Photograph (Front of Administration Block)	

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TEQIP-III RTU (ATU), KOTA SPONSORED 5-DAY's FACULTY DEVELOPMENT PROGRAMME

"Hands on Practice on 3D printing Technology"
(27th to 31th August, 2019)
Organized by
Rajasthan Technical University, Kota
&
Poornima College of Engineering, Jaipur
Venue: CG-05 (Seminar Hall)
Program Schedule

Date			TEA BREAK	11:00 AM - 12:45 PM	LUNCH	1:30 PM - 3:15 PM	TEA BREAK
27/08/19	9:30-10:00 AM Registration	10:00- 10:45 AM Inaugural Session		Session-1 Introduction of Additive Manufacturing, Need Importance ,Methodology, History, Applications & Growth in industry Dr. Santosh Kumar, IIT BHU		Session-2 Types and Techniques of Additive Manufacturing Systems Dr. Santosh Kumar, IIT BHU	

Date	08:30 AM- 10:00 AM	TEA BREAK	10.15-11.30 AM	11.30-12.45 PM	LUNCH	1:30 PM - 3:15 PM	TEA BREAK
28/08/19	Session- 3 Hands on Designing for Additive Manufacturing Software (Simplify 3D) Industrial Expert		Session- 4 Hands on Designing for Additive Manufacturing Software (Simplify 3D) Industrial Expert	Session- 5 Hands on Designing for Additive Manufacturing Software (Onshape) Industrial Expert		Session- 6 Hands on Model Validation - Convert 3D file to STL file Industrial Expert	
29/08/19	Session- 7 Overview of Materials -Choosing Materials for Manufacturing -Multiple Materials -Metal AM Processes & Materials -Composite Materials Dr. Sunil Tiwari		Session- 8 Overview of Materials -Biomaterials, Heirarchical Materials & Biomimetics Ceramics & Bio-ceramics Dr. Sunil Tiwari	Session- 9 Hands on FDM machine Live Printing of Created STL file Industrial Expert		Session- 10 Hands on FDM machine Live Printing of Created STL file Industrial Expert	
30/08/19	Session- 11 Additive Manufacturing - How it works? and Materials for Additive Manufacturing Dr. Sarang Pande		Session- 12 Compliant Mechanisms and its Use with Additive Manufacturing Mr. Saurabh Srivastava	Session- 13 Hands on FDM machine Live Printing of Created STL file Industrial Expert		Session- 14 Hands on FDM machine Live Printing of Created STL file Industrial Expert	
31/08/19	Session- 15 Case study on Additive Manufacturing- 1 Dr. Amit Kumar Singh		Session- 16 Case study on Additive Manufacturing- 1 Dr. Amit Kumar Singh	Session- 17 Hands on FDM machine Live Printing of Created STL file Industrial Expert		Valedictory Program Closing ceremony, Feed Back certification distribution	

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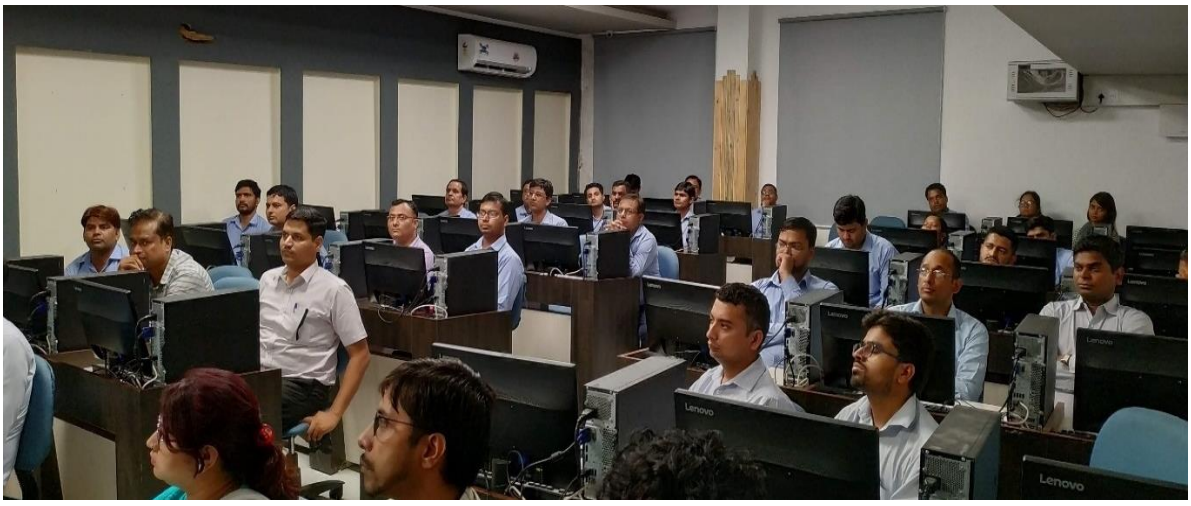
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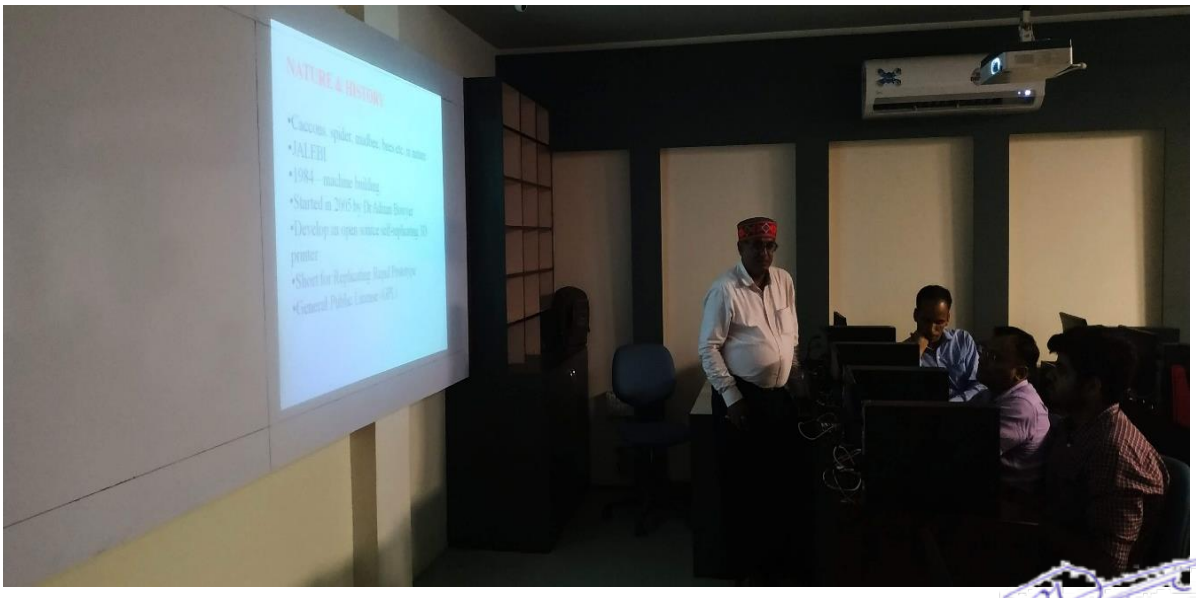
Session-1 (11:00 AM - 12:45 PM)

Topic: Introduction of Additive Manufacturing, Need Importance, Methodology, History, Applications & Growth in industry

Speaker: Dr. Santosh Kumar, IIT BHU







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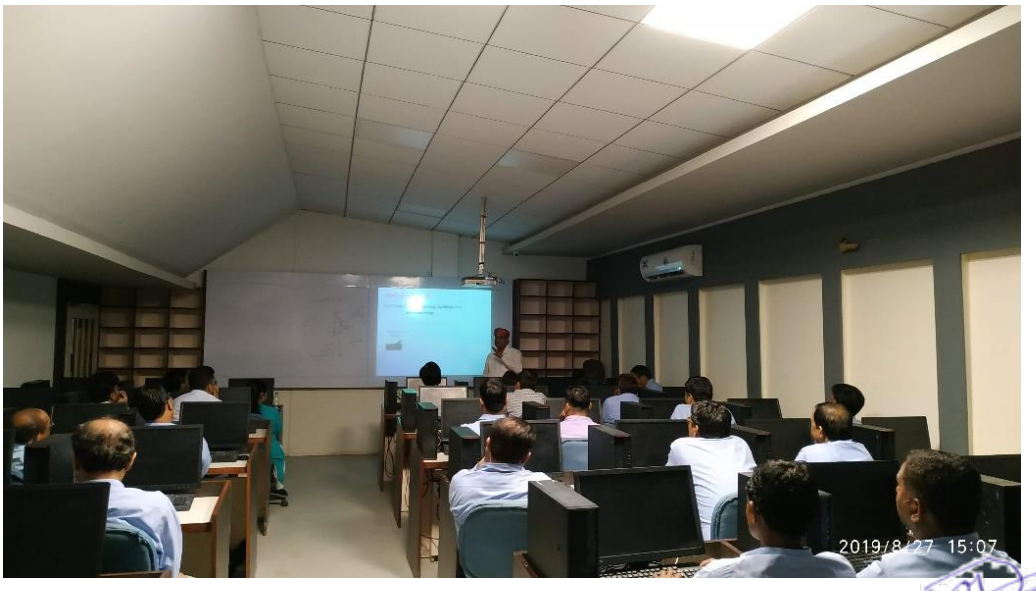
Session-2 (1:30 PM - 3:15 PM)

Topic: Types and Techniques of Additive Manufacturing Systems

Speaker: Dr. Santosh Kumar, IIT BHU







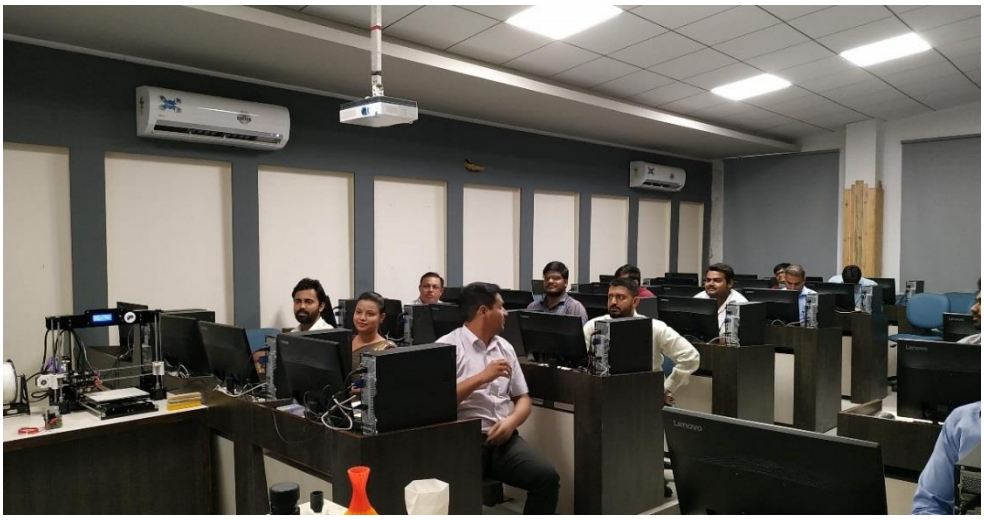
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Day-2

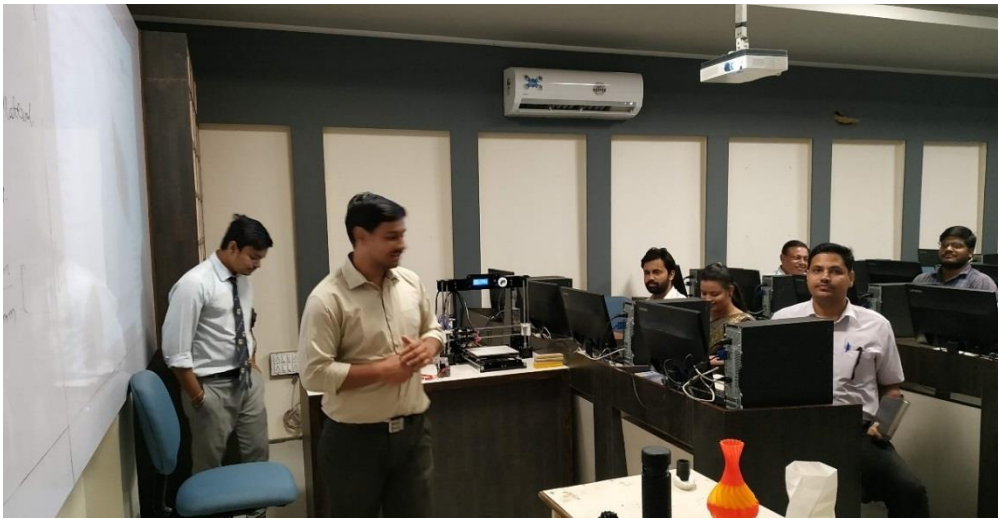
Session-3 (08:30 AM- 10:00 AM)

Topic: Hands on Designing for Additive Manufacturing Software (Simplify 3D)

Speaker: Mr. Ashish Varshney, Industrial Expert





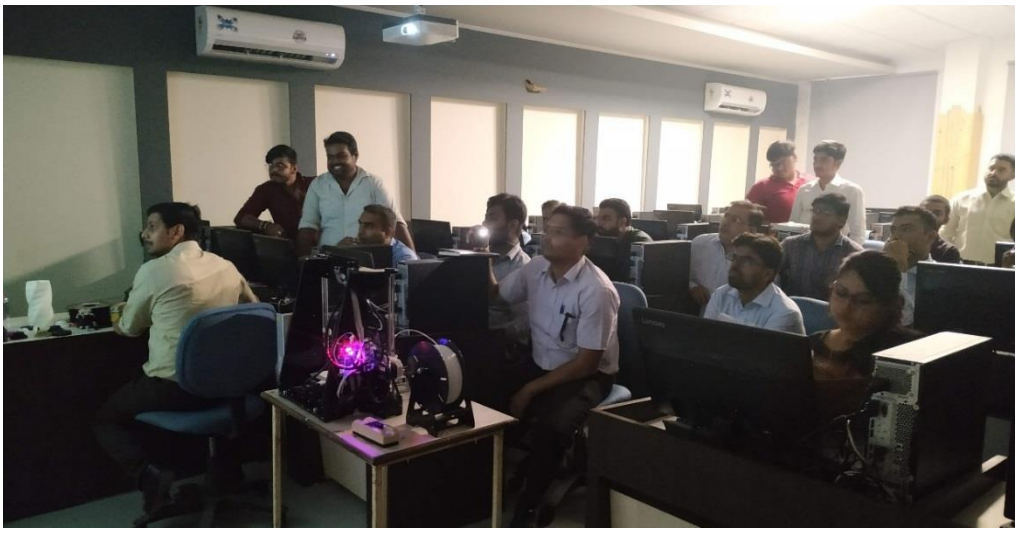


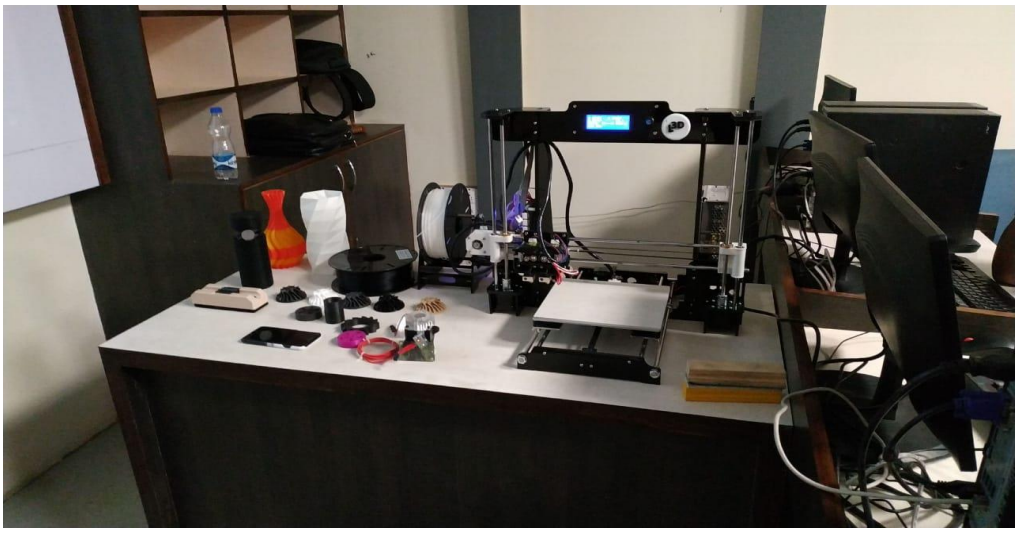
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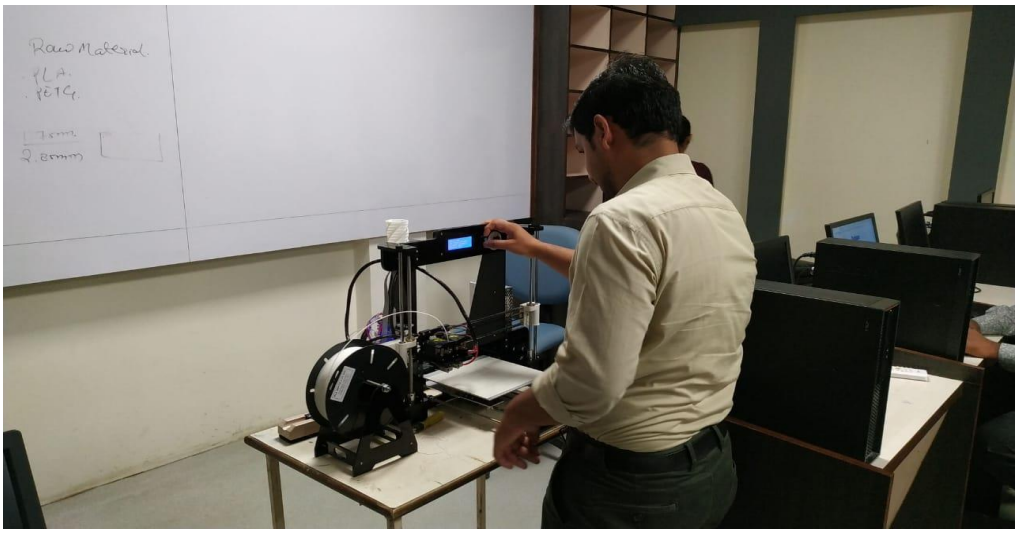
Session-4 (10:15 AM - 11:30 PM)

Topic: Hands on Designing for Additive Manufacturing Software (Simplify 3D)

Speaker: Mr. Ashish Varshney, Industrial Expert





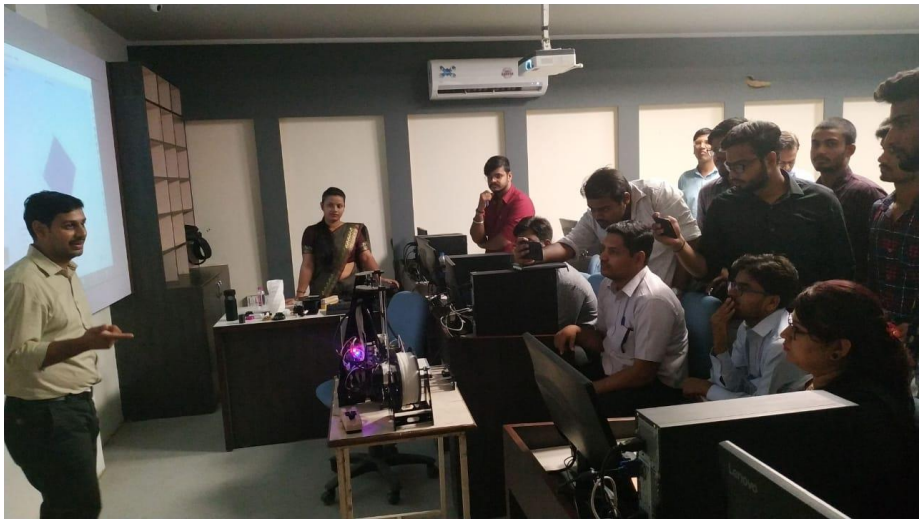


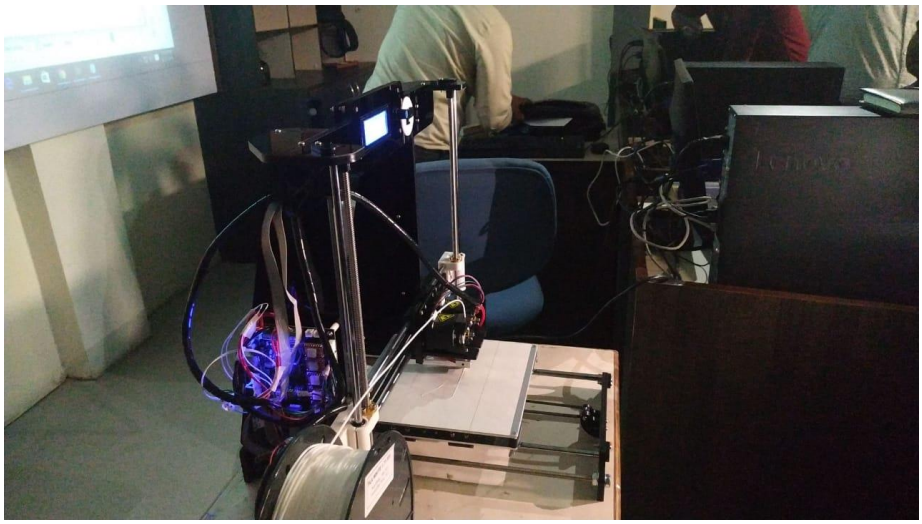
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Session-5 (11:30 AM - 12:45 PM)

Topic: Hands on Designing for Additive Manufacturing Software (Onshape)

Speaker: Mr. Ashish Varshney, Industrial Expert





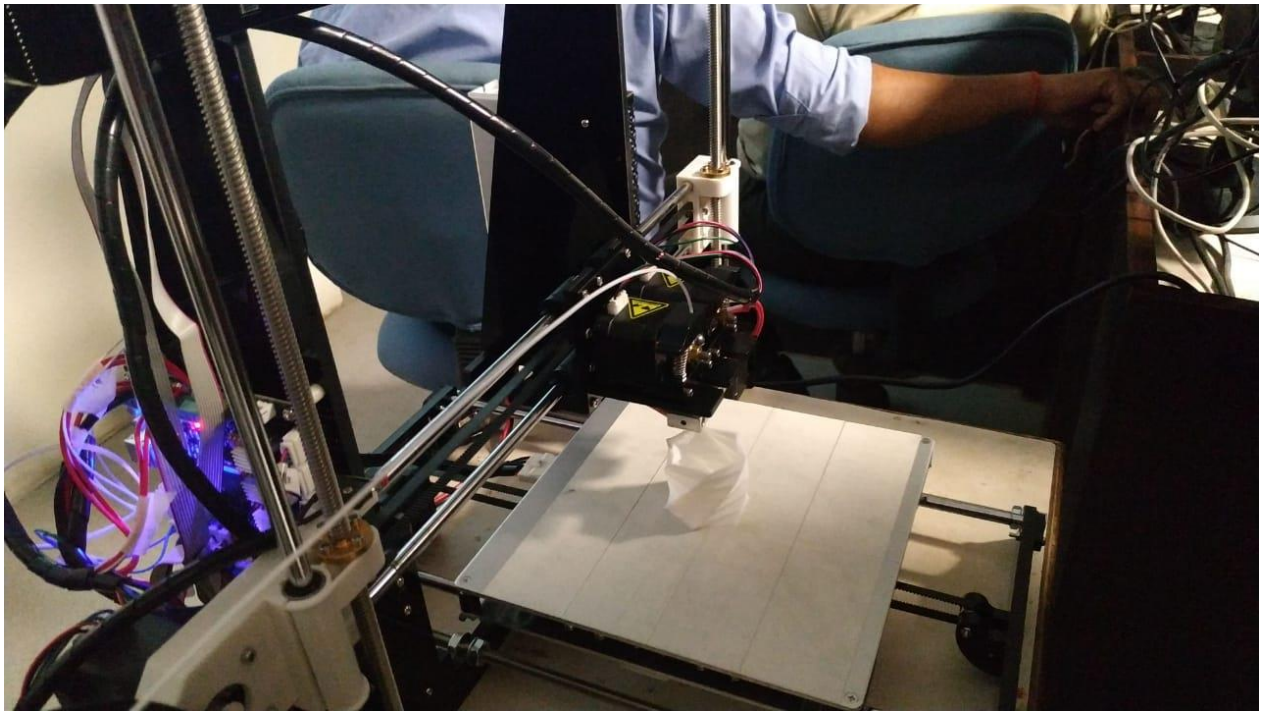


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Session-6 (1:30 PM - 3:15 PM)

Topic: Hands on Model Validation - Convert 3D file to STL file

Speaker: Mr. Ashish Varshney, Industrial Expert



Day 3

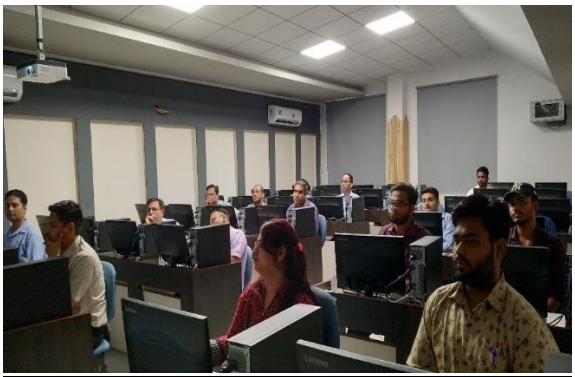
Session-7 (08:30 AM- 10:00 AM)

Topic: Overview of Materials

-Choosing Materials for Manufacturing

-Metal AM Processes & Materials

Speaker: Dr. Sunil Tiwari, Dept. Mechanical Engineering Lakshmi Narain College of Technology, Bhopal



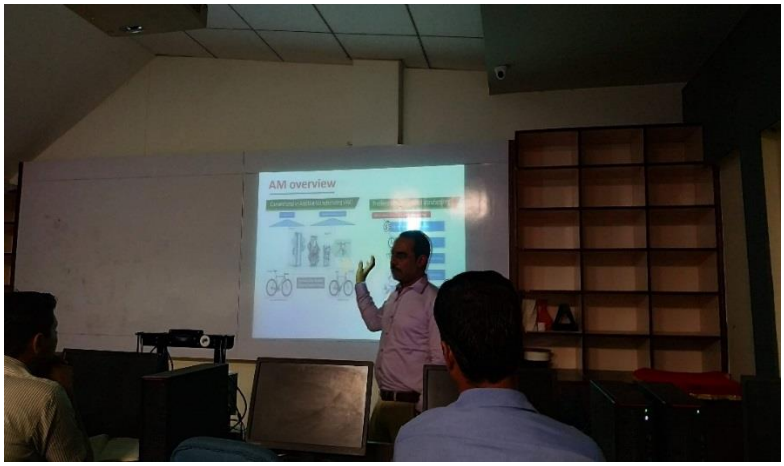


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Session-8 (10:15 AM - 11:30 PM)

Topic: Biomaterials, Heirarchical Materials & Biomimetics, Ceramics & Bio-ceramics

Speaker: Dr. Sunil Tiwari, Dept. Mechanical Engineering Lakshmi Narain College of Technology, Bhopal



Session-9 (11:30 AM - 12:45 PM)

Topic: Hands on FDM machine Live Printing of Created STL file

Speaker: Mr. Ashish Varshney, Industrial Expert



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Session-10 (1:30 PM - 3:15 PM)

Topic:

Hands on Model Validation - Live Printing of Created STL file

Speaker:

Mr. Ashish Varshney, Industrial Expert



Day 4

Session-11 (08:30 AM- 10:00 AM)

Topic: Additive Manufacturing - How it works? and Materials for Additive Manufacturing

Speaker:

Dr. Sarang Pande, Professor & HOD, Marwadi Education Foundation, Rajkot

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Session-12 (10:15 AM - 11:30 PM)

Topic: Additive Manufacturing - How it works? and Materials for Additive Manufacturing

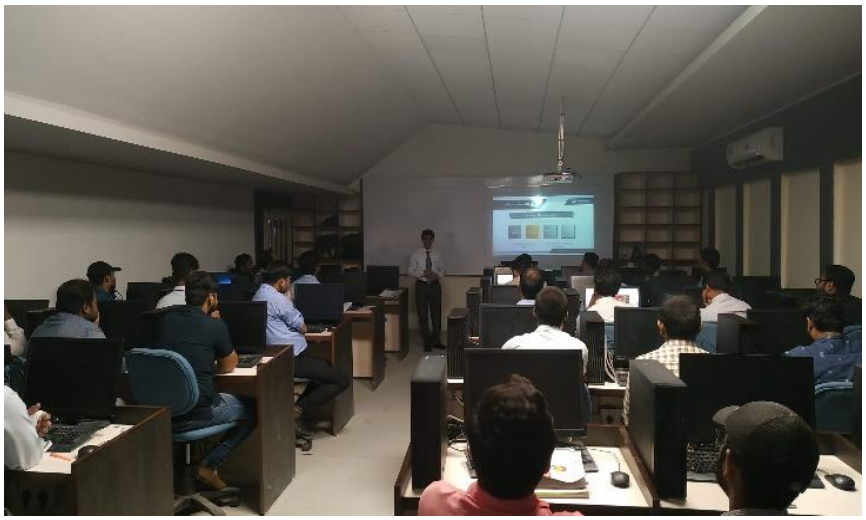
Speaker:

Dr. Sarang Pande, Professor & HOD, Marwadi Education Foundation, Rajkot



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Session-13 (11:30 AM - 12:45 PM)

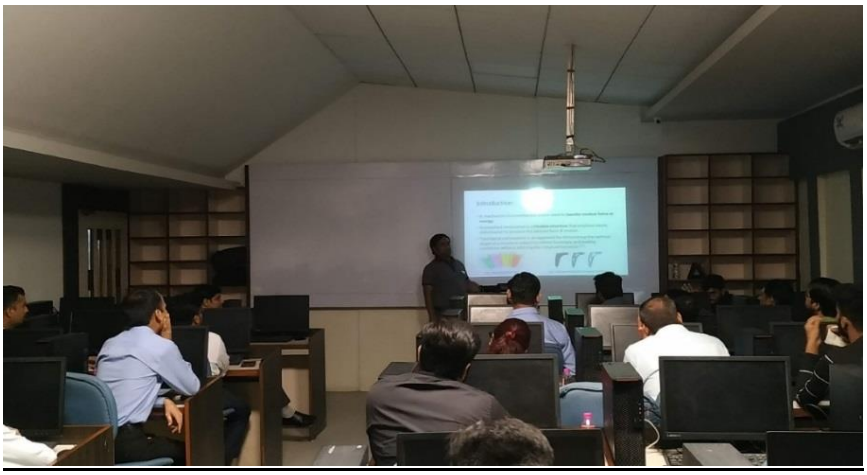
Topic: Compliant Mechanisms and its Use with Additive Manufacturing

Speaker: **Mr. Saurabh Srivastava,** Asst. Professor, Marwadi Education Foundation, Rajkot





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VALEDICTORY :

TEQIP-III RTU (ATU), KOTA SPONSORED 5-DAY's FACULTY DEVELOPMENT PROGRAMME

On

"Hands on Practice on 3D printing Technology"

(27th to 31th August, 2019)

Organized by

Poornima College of Engineering

VALEDICTORY SESSION (AUGUST 31st, 2019)

Q-Sheet

Time: 2:00 PM to 3:05 PM Venue: CG-05, Seminar Hall, Central Block, PCE Campus, Jaipur

Time	Activity	Name
02:00 PM–2:05 PM	Arrival of Guest • Chief Guest Mr. Manoj Kumar Mandal, Director & Head, CIPET, Jaipur • Dr. Mahesh Bundele, Director, PCE • Mr. Pankaj Dhemla, Vice Principal, PCE • Dr. Narayan Lal Jain, HOD, ME, PCE • Mr. Ashwani Kapoor, Coordinator FDP, PCE • Ms. Asha Kumawat, Coordinator FDP, PCE	All Eminent Dignitaries
02:05 PM – 02:15 PM	**Felicitation Ceremony :** • Chief guest Mr. Manoj Kumar Mandal, Director & Head CIPET, Jaipur by Dr. Mahesh Bundele, Director PCE, Jaipur	
02:15 PM – 02:20 PM	Address By Dr. Mahesh Bundele, Director, PCE, Jaipur	Dr. Mahesh Bundele
02:20 PM – 02:25 PM	Report on FDP by Mr. Ashwani Kapoor, Coordinator FDP, PCE	Mr. Ashwani Kapoor
02:25 PM – 02:35 PM	Address By Chief Guest Mr. Manoj Kumar Mandal, Director & Head, CIPET, Jaipur	Mr. Manoj Kumar Mandal
02:35 PM – 02:45 PM	Feedback by Participants	
02:45 PM – 02:55 PM	**Certificate Distribution by Dignitaries** • Chief Guest Mr. Manoj Kumar Mandal, Director & Head, CIPET, Jaipur • Dr. Mahesh Bundele, Director PCE, • Mr. Pankaj Dhemla, Vice Principal PCE, • Dr. Narayan Lal Jain, HOD, ME, PCE	All Eminent Dignitaries
02:55 PM – 03:00 PM	Vote of Thanks	Ms. Asha Kumawat
03:00 PM – 03:05 PM	Group Photograph (Front of Administration Block)	

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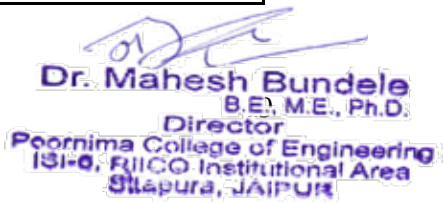




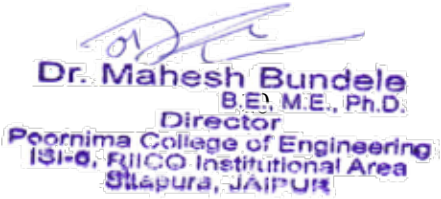
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POORNIMA
COLLEGE OF ENGINEERING

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RESEARCH METHODOLOGY & DATA ANALYSIS

2019-20

A

Post Detail Report of

TEQIP-III RTU SPONSORED

Three Days FDP

On

"RESEARCH METHODOLOGY & DATA ANALYSIS"

Date: 08 August to **10 August 2019**

Coordinated by

Dr. K.B RANA

Mr. Balwan Sheshma

Organized by

Department of Civil Engineering

Poornima College of Engineering

Jaipur, Rajasthan- (India)

Contents

1. **WORKSHOP BROCHURE ……. … 3**
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ABOUT WORKSHOP



Poornima College of Engineering has organized a three days Faculty development Programme on Research Methodology and Data Analysis. This programme was innograted by chief guest Dr. Sandeep Choudhary, Professor IIT Indore, Prof. K.B. Rana, RTU FDP Coordinator, Prof. Mahesh Bundele, Director, PCE Mr. PankajDemla and Mr. Balwan.

Programme was started with lamp lighting and SarasvatiPooja by our Chief Guest Dr. Sandeep Choudhary. Session was preceded with welcome note by our Director Prof. Mahesh Bundele. He welcomed and felicitates our chief guest Prof. Sandeep Choudhary. He also briefed the importance of Research Methodology and Data analysis for faculty members, researchers, and students.

EXPERT INTRODUCTION

Chief Guest Prof. Sandeep choudhry also highlight the importance of such Faculty development Programme. Also Mr. BalwanSeshma, programme coordinator, welcomed to all the participants and told about the FDP program. There are 50 participants were registered from various renowned institutes of Rajasthan and India.

This programme was conducted in 8 modules included various important aspect of above-mentioned topic. Module third, titled "Methods and Designof Data Collection" was delivered by Dr. Tapan Kumar Gandhi, Associate Professor, IIT Delhi. In this module, Prof. Gandhi explained about sample design, methods for design, sources of data collection and their Components. Prof. Gandhi also highlighted the methodology for Data Collection by Designing Questionnaires.

SUMMARY & FEEDBACK

Three days Faculty development programme on topic "Research methodology and Data Analysis" successfully completed on 10 august, 2019. Prof (Dr.) Arvind Kumar Dewedi, Controller of Examination, RTU Kota was chief guest of valedictory session. In FDP, many speakers from renowned IITs and NITs shared his knowledge about research methodology, formation of Questioner, sampling, data collection and data analysis etc. Prof. (Dr.) Mahesh Bundele, Director, Poornima College of Engineering, Jaipur concluded the programme and motivate to faculty members for research work. 50 participants from various institutes and universities of Rajasthan attended the faculty development programme.









पूर्णिमा कॉलेज में तीन दिवसीय फैकल्टी डवलपमेंट प्रोग्राम आयोजित



जयपुर (का.सं.)। पूर्णिमा कॉलेज ऑफ इंजीनियरिंग में रिसर्च मैथडलॉजी एंड डेटा एनालिसिस विषय पर फैकल्टी डवलपमेंट प्रोग्राम आयोजित किया गया। तीन दिवसीय प्रोग्राम में विभिन्न कॉलेजों व यूनिवर्सिटीज के करीब 50 फैकल्टी मेम्बर शामिल हुए। आईआईटी, इंदौर के प्रोफेसर संदीप चौधरी मुख्य अतिथि थे। प्रशिक्षण के लिए आईआईटी व एनआईटी से विशेषज्ञ आमंत्रित किए गए थे। समापन समारोह के मुख्य अतिथि आरटीयू कोटा के सीओई डॉ. ए.के. द्विवेदी ने टेक्सुप प्रोजेक्ट के फायदों के बारे में बताया गया तथा प्रतिभागियों को फैकल्टी डवलपमेंट प्रोग्राम के सर्टिफिकेट भी दिए। पूर्णिमा कॉलेज ऑफ इंजीनियरिंग के डायरेक्टर डॉ. महेश बुंदेले ने प्रतिभागियों को नया सीखने के लिए प्रेरित किया। आरटीयू, कोटा के डॉ. के.वी. राणा व बलवान शेषमा ने प्रोग्राम का समन्वय किया गया।

नया सीखने के लिए किया प्रेरित

जयपुर ◆ पूर्णिमा कॉलेज ऑफ इंजीनियरिंग में रिसर्च मैथडलॉजी एंड डेटा एनालिसिस विषय पर फैकल्टी डवलपमेंट प्रोग्राम आयोजित किया गया। तीन दिवसीय इस प्रोग्राम में विभिन्न कॉलेजों व यूनिवर्सिटीज के करीब 50 फैकल्टी मेम्बर शामिल हुए। मुख्य अतिथि के रूप में आईआईटी इंदौर के प्रोफेसर संदीप चौधरी उपस्थित थे। प्रशिक्षण के लिए आईआईटी व एनआईटी से विशेषज्ञ आमंत्रित किए गए थे। एफटीपी के तीनों दिनों फैकल्टी मेम्बर्स को एसपीएसएस टूल पर हैंड्स ऑन प्रेक्टिस कराई गई। समापन समारोह के मुख्य अतिथि आरटीयू, कोटा के सीओई डॉ. ए. के. द्विवेदी थे। इनके द्वारा सभी प्रतिभागियों को फैकल्टी डवलपमेंट प्रोग्राम के सर्टिफिकेट भी वितरित किए गए। पूर्णिमा कॉलेज ऑफ इंजीनियरिंग के डायरेक्टर डॉ. महेश बुंदेले ने इस प्रोग्राम में प्रतिभागियों को नया सीखने के लिए प्रेरित किया।

(RAJASTHAN TECHNICAL UNIVERSITY, KOTA)
FACULTY DEVLOPMENT PROGRAMME PROPOSAL PERFORMA
RTU (ATU) TEQIP-III PROJECT
(Kindly send through institute official email (@rtu.ac.in). The hardcopy is required at the time of bill reimbursement with the original bills)

Name of Host Institute: **Poornima College of Engineering, Jaipur**

Name of Department: **Department of Civil Engineering**

Title of the FDP: **Research Methodology and Data Analysis**

Name and Contact No. of host Institute Coordinator: Balwan Sheshma (+91-9079245861))

Name and Contact No. of host Institute Principal/Director Dr. Mahesh Bundele (Mob.9828999440)

Institute official (@rtu.ac.in) email ID: pceiaipur@rtu.ac.in

Maximum Number of Participants: 50

Date and Duration of the FDP: June 24 to June 28, 2019 (5 Days, Monday -Friday)

Details of the required estimated expenditure

Head of expenditure	**Details of expenditure**	**Total amount**
Honorarium to the expert (Max 02 experts/day)	Rs. 5000/- per trainer/ day 5000*2*5day	Rs. 50,000/-
TA/DA & stay arrangements of the expert (As per TEQIP-III Norms)	TA = 6,000 * 2 * 2 DA 14200*5 day	Rs.90,000/-
Hospitality to participants (faculty) only from the Non-TEQIP funded RTU affiliated Engineering Colleges (Foods & Stay) (Rs. 400/-per participant/day for food)	Food – 50*400*5 day Stay-20*500 * 5 day	Rs.1,50,000/-
Course Material , Certificate and stationary only for the faculty members from the Non-TEQIP funded RTU affiliated Engineering Colleges (Rs. 100/- per participant per day) **Note: No single item expenditure incurred to exceed Rs. 10000/-**	50*100*5	Rs. 25,000/-
Total Amount	Rs. 3,15,000/-	

The proposal is submitted for administrative and financial approval from RTU (ATU) TEQIP-III

Head of the Institution.
(Signature with seal)

RTU (ATU) TEQIP-III Workshop Coordinator (via email workshop.teqip@rtu.ac.in)

Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, Jaipur (Raj.)-302022

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2	DR. SHUCHI DAVE ASSOCIATE PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
3	SHALINI PURI ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
4	MANISH SHARMA ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
5	MANISHA KUMAWAT ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
6	DR SAGAR KUMAR ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
7	NAVEEN JAIN ASSISTANT PROFESSOR SKIT, JAIPUR												
8	DR. VAIBHAV BHATNAGAR ASSISTANT PROFESSOR S.S. JAIN SUBODH PG COLLEGE												
9	SHEFALI P.HD SCHOLAR, BANASTHALI UNIVERSITY												
10	DR.DEEPIKA CHAUHAN ASSOCIATE PROFESSOR POORNIMA												

	COLLEGE OF ENGINEERING												
11	DEEPAK MATHUR ASSISTANT PROFESSOR KAUTILYA INSTITUTE OF TECHNOLOGY & ENGINEERING												
12	RAMANUJ JALDHARI ASSISTANT PROFESSOR KAUTILYA INSTITUTE OF TECHNOLOGY & ENGINEERING, JAIPUR												
13	DR. SHEETAL AGARWAL PROFESSOR KAUTILYA INSTITUTE OF TECHNOLOGY & ENGINEERING												
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15	RIDDHI SHRIVASTAVA ASSISTANT PROFESSOR POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY												
16	SONA SEN RESEARCH SCHOLOR												
17	HARSHWARDHAN SINGH CHOUHAN ASSOCIATE PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
18	DR. AMIT SHRIVASTAVA PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
19	AMIT KUMAR JHA ASSISTANT PROFESSOR POORNIMA												

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20	LAL BABU PURBEY ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
21	DR SHILPI JAIN ASSOCIATE PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
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24	JITENDRA KUMAR ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
25	PUNIT SHUKLA REGISTRAR POORNIMA COLLEGE OF ENGINEERING												
26	SAURABH SINGH ASSISTANT PROFESSOR SKIT, JAIPUR												
27	Dr. ANILA DHINGRA ASSOCIATE PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
28	SOURABH ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
29	BHAVESH DEVRA ASSOCIATE PROFESSOR POORNIMA												

	COLLEGE OF ENGINEERING												
30	HITESH SANT ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
31	DIVYA VISHNOI ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
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34	RAVINDRA MAHAWAR ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
35	SUMIT KUMAR ASSISTANT PROFESSOR POORNIMA GROUP OF INSTITUTE												
36	AMIT MANDAL ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												
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38	TARUN MISHRA ASSISTANT PROFESSOR POORNIMA COLLEGE OF ENGINEERING												

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40	DR GARIMA MATHUR PROFESSOR POORNIMA COLLEGE OF ENGINEERING												

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COLLEGE OF ENGINEERING

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

DEPARTMENT OF CIVIL ENGINEERING
'FACULTY TRAINING PROGRAM ON'
On
'Introduction about Subject Geotechnical Engineering-II'
Session_2018-19

A

Post Detail Report of

One Day Training

On

"FACULTY TRAINING PROGRAM ON Introduction about Subject Geotechnical Engineering-II"

February 15, 2019

Coordinated by

Ms. SHIVANSHI

Mr. SHANKER PRASAD MISHRA

Organized by

Department of Civil Engineering

Poornima College of Engineering

Jaipur, Rajasthan- (India)

Objectives

This session was conducted to discuss the subject Geotechnical engineering and its importance. It was headed over to recite the difficult topics of the subject. The session was conducted for the faculty members of all PGC campuses Civil engineering faculties organized at PCE seminar hall.

The objectives were:

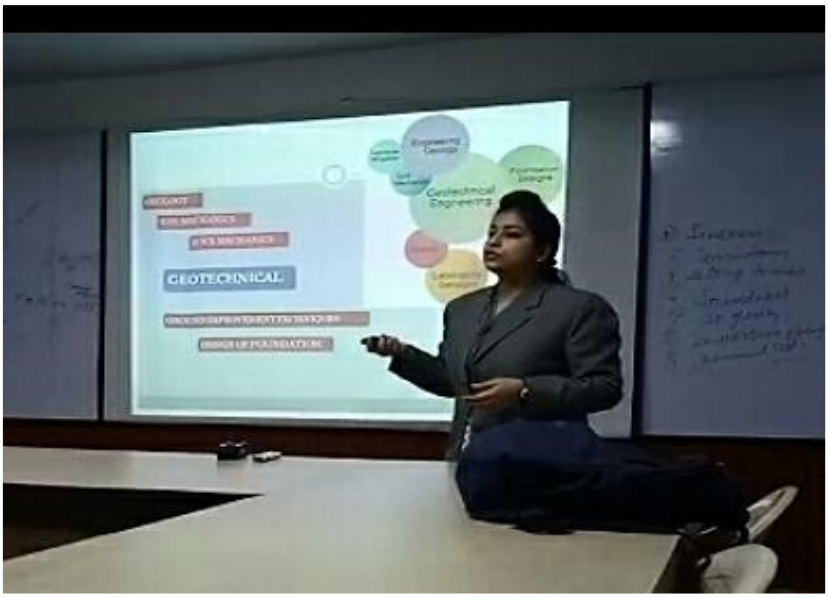
- To discuss the subject content and preparation for the semester
- To recite the difficult topics among faculty members
- To had a two way interaction for better understanding the subject applications
- To remove the misconceptions regarding applicability of some topics.

ABOUT THE SESSION

Session was conducted as a part of a Faculty training Program conducted to improve the efficiency of the faculty members and to cure the lacking of the subjects. The session began with the general introduction of geotechnical engineering and its relation with geology. Then it included the unit wise description of the topic and its application in practical learning.

- The session followed the PMEPI philosophy
- The mode of session used the Power Point Presentation
- It covered all the unit wise topics and previous year subject discussion as well.





List of Participants

S.No.	Name of the Faculty	Designation
1.	Mr. Pankaj Dhemla	Associate Professor
2.	Mr. Alok Kumar	Assistant Professor
3.	Mr. Divya Vishnoi	Assistant Professor
4.	Mr. Shanker Prasad Mishra	Assistant Professor
5.	Ms. Shruti Bhargava	Assistant Professor
6.	Mr. Mohammed Tarique	Assistant Professor
7.	Mr. Jitendra Kumar	Assistant Professor
8.	Mr. Balwan	Assistant Professor
9.	Mr. Vishal Chaurasia	Assistant Professor
10.	Mr. Arpit Singh Bhadoriya	Assistant Professor
11.	Ms. Jigisha Vanjani	Assistant Professor
12.	Mr. Prateek Sharma	Assistant Professor



OUTCOMES

- It helped faculty members to enhance the subject lacking
- It made a clear vision regarding the basic relation of this subject with the other civil engineering subjects
- It was a wonderful session to improve the efficiency of subject teaching.



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

A REPORT ON FDP on 'Universal Human Values and Professional Ethics' 2018-19

- **NAME OF ACTIVITY:** FDP on 'Universal Human Values and Professional Ethics'
- **DATE&DURATION:** 12th July, 2018 – 19th July, 2018
- **TYPE OF ACTIVITY:** FDP
- **ORGANIZED BY:** Department of I Year



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LEARNING OUTCOMES

1. Participants got to learn the significance and importance of values in life
2. They learnt how to deal with life, which includes examining one's goals, identifying and sorting out conflicts, dealing with relationships in family and friends, understanding society and a mutually enriching relationship with nature
3. They learnt to create feelings of happiness, satisfaction and fulfillment, and to develop healthy patterns of behavior
4. They got to know their responsibility towards society and ensure harmony in society by helping others

ASSESSMENT TOOLS

POORNIMA COLLEGE OF ENGINEERING
FEEDBACK FORM

Tick for the level of rating (1 to 5) to be given 1-Lowest and 5 Highest					
Questions	**1**	**2**	**3**	**4**	**5**
Did the session meet its objectives?	-	-	-	-	-
Did you find the contents useful?	-	-	-	-	-
Did it help students to enhance their skills or learning's?	-	-	-	-	-
Was the Audio Video Quality satisfactory in case of online sessions?	-	-	-	-	-
Did you receive uninterrupted Connectivity in case of online sessions?	-	-	-	-	-
How do you rate this session overall?	-	-	-	-	-
What can we do to improve in future?					
Remarks/Suggestions:					

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DETAILS OF ACTIVITY

About the Event:

To provide a platform to academicians to discuss and elaborate on human values as the essential need of the society under the leadership of RTU Kota, Poornima College of Engineering is organizing TEQIP-III Rajasthan Technical University, ATU sponsored Faculty Development Program on "Universal Human Values and Professional Ethics" from 12-19 July, 2018.

Description of the Event:

Day 1: 12 July, 2018

The first day of the FDP initiated with the registration and reporting of the participants followed with refreshment served to them. The session started with display of audio-video tracks received from Mr. Suresh Patel to make the participants familiar with conduction of FDP. This activity remained continued till 12.30 P.M. Then lunch was served at the mess of college campus.

The inauguration of the FDP was held at 1.30 P.M. with the gracious presence of Mr. Suresh Patel (Prabhodak, HVE), Prof. Anshul Bansal and Prof. S.D. Purohit Coordinators TEQIP- III, M.K.M Shah Director Admin and Finance, Dr. Om Prakash Sharma, Director, PCE, Dr. Rekha Nair, Dean I year along with the Head of the departments and senior faculty members of PCE. The felicitation of the Chief Guest and guests of Honor was done with the offering of shawl and sapling to them. Dr. Om Prakash Sharma gave the opening remarks and welcomed the dignitaries and the participants sharing details of PCE. Dr. Rekha Nairintroduced the FDP emphasizing its importance and at last, Mr. Prince Dawar (Asstt. Prof, PCE) conveyed the vote of thanks to the respective guests and participants from various institutes followed with a group photograph. The process and proceedings of the FDP were then initiated by Mr. Suresh Patel (Prabodhak, HVE) who enlightened the session till 5 P.M.He emphasized on the knowing of the things and goal rather than accepting them blindly, which has a direct relationship with human psychology. He further delivered his lecture in a proposal mode and wanted participants to follow and practice his views in their lives which will lead young generation to imbibe human values in every act they do.The first day of the session ended with zeal and zest in 43participants (16 from other institutes and 27 from Poornima) giving new heights to expectations and their fulfillment.

DAY2: 13 July, 2018 the FDP organized at Poornima College of Engineering completed its first day with session of Mr. Suresh Patel (Prabodhak, HVE). The session on II day started with the recap of the previous sessions wherein some aspects related to Human Values were discussed with the participants. Mr. Suresh Patel conducted the session with display of movie “Mahatma Gandhi” who donated his life for the nation following the Human Values. A discussion also took place regarding the same. After a lunch break, the display of same movie on Mahatma Gandhi was carried forward in another session including interaction and queries of participants which made them enlightened with knowledge. A session on discussion was also conducted to highlight the significance of human values. The participants shared their views and it build a rapport among them. The participants enjoyed the session based on the display of the movie and [illegible]

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from beginning to the end of the day ended with highlights on universal human values. The second day of session also remained fruitful for all 45 participants (Poornima-26, other colleges-19) widening the horizons of their knowledge.

Day 3: 14 July, 2018 the statement "Understanding means living" drew the attention of the participants at FDP organized at Poornima College of Engineering and made them know of human values. Mr. Suresh Patel (Prabodhak, HVE) had a session on implementation of information in reality. As, the knowledge of something is not enough for the universal happiness. He stated that there is a gap between the information and implementation of the same in real life. He cited certain examples to make the gathering understand this. As per his thoughts, it is our belief and acceptance of worldly things that we behave in a particular way without judging. It is needed to come out of narrow mindedness for being a better individual. But it is also true that what we accept may not be accepted to others. Thus, Mr. Suresh Patel highlighted many objectives in his sessions, which he took on July 14, 2018. The example of the President of Bhutan and his concern for environment and other examples made the participants understand the value of environment and made the session interesting. He further enlightened the horizons of the participants with his views on universal attitude and universal acceptance which is not evident due to the ignorance of actual meaning in human life. The significance of happiness, family, environment etc. was the core of the session organized on third day of the FDP with the conclusion that life of comforts does not give happiness; it is the relationship with one another which keeps us happy. The FDP included discussion and interaction among the participants and ended with understanding of universal human values.

Day 4: 16 July, 2018 the fourth day of the FDP organized at PCE had been interesting and interactive for participants who got to know that the ruling over others is not the arrangement and if there is ruling, there is no arrangement. The session taken by Mr. Suresh Patel began with the recap of previous session. He stated that human love ensures the arrangement and it is needed to stop ruling others for strong relations with others. Later, the participants were served with refreshment at 10.30 A.M. Thereafter, an understanding of happiness and the means to get the same was made by Prabodhak, HVE. He emphasized on implementation of information in real sense. He illustrated through various examples related to great personalities. Then, there occurred a lunch break followed by a fruitful discussion on views discussed in the earlier session. The discussion included the essential points of human values and the participants started realising a positive sign of change in them. The fourth day of FDP ended with knowledge of objective of life, its need for human survival and understanding of universal human values.

Day 5: 17 July, 2018 The fifth day of the FDP organized at PCE enlightened the horizons of knowledge of the participants who witnessed the presence of Mr. Suresh Patel in session.

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Universal Human Values. The Prabodhak, HVE stated his views with examples from daily life wherein we don't pay heed to small and significant things. The session emphasized the nature and its four phases which have a direct connection with human life. Human beings keep taking from nature but do not give anything in return. This taking means exploitation and excess of the resources. This results into an inevitable loss to human life for which no remedy is enough once it is too late. It is needed that one should go beyond the limitations of physicality in order to enjoy the happiness. The human beings have no bound of place and time as the other creatures have. Therefore, there are more opportunities to them. Later, the session was followed by a lunch break and a fruitful discussion among participants. The discussion at FDP had essential points of human values which made participants know of the universal human values and ended with a focus on the

infinity of hope, desire and willingness. Thus, the fourth day highlighted the relevance of nature and importance of its objects for human beings.

Day 6: 18 July, 2018 the sixth day of the FDP organized at PCE included the session on human values which is needed for human survival. One cannot deny that happiness is must for all of us. Mr. Suresh Patel delivered his views through the help of audio- video displays e.g. short movies and videos for the same. The session focused on human nature and tendency which needs to be changed for a better life. The importance of environment was also at the core of his deliberations. The Prabodhak, HVE emphasized that the implementation of information in practical way should be followed by human beings, so that life on earth may be easy going with full of humanity. Later, the session was followed by a lunch break and a result-oriented discussion among participants. The discussion comprised of essential points on human values. The more, the FDP is coming close to end, the more, the understanding of participants is getting clear, giving them a chance to explore themselves. The session ended with opening of new arenas of knowledge for every participant.

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GLIMPSES





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LIST OF THE PARTICIPANTS:

RAJASTHAN TECHNICAL UNIVERSITY, KOTA				
and				
POORNIMA COLLEGE OF ENGINEERING, JAIPUR				
TEQIP-III RTU, ATU SPONSORED				
(Faculty Development Program on "Universal Human Values and Professional Ethics")				
Attendance Sheet				
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