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

Short Term Training Programs (2017-18 to 2021-22)

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

Poornima College of Engineering, Jaipur

Report of Short Term Training Programs

S.N.	Name of Activity	No. of Days	Session	Date	Page No.
1	Report of STTP on Data Analytics using Artificial Intelligence	5 Days	2021-22	11-15/04/2022	4-19
2	Report of STTP on Artificial Intelligence & Cooperative Noma (5G) Network	7 Days	2021-22	21-27/12/2021	20-52
3	Report of STTP on Cloud Infra and Blockchain	5 Days	2021-22	15-19/11/2021	53-72
4	Report of STTP on Artificial Intelligence & 5G Communication	6 Days	2020-2021	26/04/2021 to 01/05/2021	73-130
5	Report of STTP on Eclectic Research Trends in Manufacturing	6 Days	2020-2021	15-20/03/2021	131-181
6	Report of STTP on Developing R&D Culture in Educational Institutes through Project Based Learning	6 Days	2020-2021	01-06/03/2021	182-195
7	Report of STTP on Eclectic Research Trends in Manufacturing	6 Days	2020-2021	21-26/12/2020	196-217
8	Report of STTP on Developing R&D Culture in Educational	6 Days	2020-2021	14-19/12/2020	218-237
9	Report of STTP on Artificial Intelligence & 5G Communication Technology	6 Days	2020-2021	07-12/12/2020	238-298
10	Report of STTP on Artificial Intelligence & 5G Communication Technology	6 Days	2020-2021	26-31/10/2020	299-318
11	Report of STTP on Developing R&D Culture in Educational Institutes through Project Based	6 Days	2020-2021	19-24/10/2020	319-332

12	Report of STTP on Artificial Intelligence & 5G Communication Technology	6 Days	2020-2021	05-10/10/2020	333-353
13	Report of STTP on Eclectic Research Trends in Manufacturing	6 Days	2020-2021	05-10/10/2020	354-368
14	Report of STTP on Big Data Analytics	5 Days	2019-2020	03-07/02/2020	369-380
15	Report of STTP on Advancement in Power system & Power Electronics	5 Days	2017-2018	30/04/2018 to 04/05/2018	381-385
16	Report of STTP on Electric Power System	Two Week	2017-2018	10-23/07/2017	386-397

Report on 5-days STTP Program

- **TITLE AND DURATION:** Five Days Online Short Term Training Program On "Data Analytics using Artificial Intelligence" April 11-15, 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:**

1. To learn how to organize the information in a logical manner.
2. To learn how to use Artificial Intelligence in the field of Data Analytics.
3. Its goal is to simplify things to the full extent of big data and come up with a specific goal and solution.
4. To gain Hands-on experience of Excel/Python of Data Analytics.
5. To learn use of statistic, analysis, prediction, modeling and Visualization of data using Excel/Python.

Target Audience:

1. Faculty
2. Students
3. Research Scholers
4. Industry Persons
5. Management Students
6. Alumni of Poornima fraternity

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:



RTU recognized

Centre of Excellence in AI and Big Data

is organizing

Five Days Short Term Training Programme (STTP)

on

Data Analytics Using Artificial Intelligence

April 11-15, 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

Data is plays a crucial role in studying and predicting user behaviour & patterns. It affects managerial decisions as well as acts as a game changer by determining the competitiveness of a product or offering by any company and is used in various sectors/industries in various form and act as a benchmark for future purpose and research. In this Short term Programme our objective is to analyze data using Python. You will learn how to prepare algorithms for data analytics with Python, delivered through lecture, hands-on labs, and group presentations along with learning to write research papers in AI

Salient features of the Training Programe are:

- Import data sets
- Hands-on experience of Data Extraction
- Data Processing, Modelling & visualization
- Importance of AI in Data analytics
- Learning to write reports/case study of Data Analytics

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 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

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:

Registrations are open till **April 09, 5:00 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

Dr. Narayan Lal Jain
Vice-Principal,
Poornima College of Engineering

PROGRAM CHAIR

Dr. Surendra Kumar Yadav
Head of Department, CSE

PROGRAM CO-CHAIR

Mrs. Snehal Moghe
Assistant Professor, CSE, PCE

COORDINATOR

Ms. Neha Shrotriya
Assistant Professor, CSE, PCE

CO-COORDINATOR

Mr. Suresh Vyas
Assistant Professor, CSE, PCE

RESOURCE PERSONS

Hema Lakkaraju is an entrepreneur, mentor, speaker and author of the book " Strategic Data Management for Successful Healthcare Outcomes". She is a contributor to ForHumanity and Data Steward for Data Health Collaborative. She is an expert in health AI and data governance, risk, and compliance. She is on several advisory boards for health startups."

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 2014) and research interests are Machine Learning, Expert System. Also supervises Software Development initiatives of Engineering Students.

Sameer Gupta
Associate Data Scientist
Celebal Technologies

Vinayak Mathur
Associate Bigdata & EDW
Celebal Technologies

Aayushi Singhal
Associate Bigdata & EDW
Celebal Technologies

Kalpit Dhakad
Consultant Bigdata & EDW
Celebal Technologies

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

Mr. Suresh Vyas
✉ : suresh.vyas@poornima.org
✆ : +91-9636612668

Ms. Neha Shrotriya
✉ : neha.shrotriya@poornima.org
✆ : +91-7357733397

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

Five Days Online Short Term Training Programme

On
"Data Analytics Using Artificial Intelligence"
April 11-15, 2022

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

To start with the Series of Training Programme for Academic Year 2021-22, the Center of Excellence Artificial Intelligence and Big Data, Department of Computer Engineering, Poornima College of Engineering, Jaipur, organized a Five Days Online Short Term Training Program on "Data Analytics using Artificial Intelligence" from April 11th, 2022 to 15th February 2022.

The main objective of this Five Days Online Short Term 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 Excel on important terminologies of AI were also taught.
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 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.

Training Program Content

- 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.

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 basicterminologies. Clustering and Data Visualization.
- Understand how to do Hands on exercise using Python (Mini project understanding)
- Understand K Means clustering using Python with examples, Project – Data Science,
- Case Studies in AI and General Management, HR Analytics, etc: discussion and group activity

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

Five Days Online Short Term Training Programme

On

"Data Analytics Using Artificial Intelligence"

April 11-15, 2022

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

Q-Sheet Inaugural Session

Date: 11th April 2022 Time: 10:00 A.M. TO 10:20 A.M Platform: MS Teams: https://rb.gy/apwj3t

S. No.	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Five Days Online Training Program by **Mrs. Neha Shrotriya**, Co- Coordinator & Assistant Professor, Poornima College of Engineering • **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering • **Ms. Hema Lakkaraju,** Author, Healthcare Analytics book, Entrepreneur, mentor, speaker, knowledge enthusiast, Founder, Hayag Corp, USA • **Dr. Niharika Singh,** Assistant Professor CSE Department (Senior Scale), UPES, Dehradun • **Mr. Kalpit Dhaked**, Consultant Big Data and Enterprise Data Warehouse, Celebal Technologies • **Ms. Aayushi Singhal:** Associate Big Data and Enterprise Data Warehouse Celebal Technologies • **Mr. Sameer Gupta:** Associate Data Scientist, Celebal Technologies Machine Learning, DeepLearning and NLP • **Mr.Vinayak Mathur** Associate Big Data and Enterprise Data Warehouse Celebal Technologies	03 min	10.00 am-10.03 am

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
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	• **Mr. Shashank Gupta**, Celebal Technologies • **Mrs. Snehal Moghe**, Assistant Professor Computer Engineering Department, Poornima College of Engineering • **Dr. Narayan Lal Jain**, 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		
2	Welcome Address by **Dr. Mahesh Bundele,** Director & Principal, PoornimaCollege of Engineering, Jaipur	05 min	10.03 am to 10.08am
3	Felicitation of Resource Persons	5 min	10.08am to 10.13 am
4	Vote of Thanks by Mrs. Snehal Moghe, Chief Coordinator, COE Artificial Intelligence & Big Data	5 min	10.13 am to 10.18am
5	Digital Photograph	2 min	10.18 am to 10.20am
		Total: 20 min (approx.)	

Details:

On April 11 to 15, 2022, Centre of Excellence in AI and Big Data, Poornima College of Engineering, Jaipur, Computer Engineering Department, conducted a Five days Online Short Term Training Program on "Data Analytics using Artificial Intelligence" for undergraduate and post graduate students of Maths, Science, Sociology, Engineering 1st year onwards, Management Students and Alumni of Poornima fraternity. This Programme was well received by different Private Universities like.

Also, as a skill enhancement Program for Faculties, in school or college, Management, Industry personnel also attended this and got benefited. At the start of the session, The Director, PCE, Dr. (Prof.) Mahesh Bundele welcomed the speakers with a memento followed by a welcome address of Prof. (Dr). Mahesh Bundele.

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Our esteemed speakers consisted of Ms. **Hema Lakkaraju** who is the Founder of Hayag Corp. USA, **Dr. Niharika Singh** who is assistant professor from University of Petroleum and Energy Studies, Mr. **Sameer Gupta** Associate Data Scientist, Mr. **Vinayak Mathur** Associate Bigdata & EDW, Ms. **Aayushi Singhal** Associate Bigdata & EDW, Mr. **Kalpit Dhaked** Consultant Bigdata & EDW Celebal Technologies, Mr. Shashank Gupta, Celebal Technologies and Mrs. Snehal Moghe, Assistant Professor Computer Science Department at PCE.

During the FDP, the speakers mentioned about how Artificial Intelligence (AI) is gaining grounds not only in technical arena but managerial aspects in industry and academia. In this program knowledge was discerned of theoretical Artificial Intelligence as well as in real world applications with demonstration using Python.

Salient features of the Training Program were:

• Import data sets

• Hands-on experience of Data Extraction

• Data Processing, Modelling & visualization

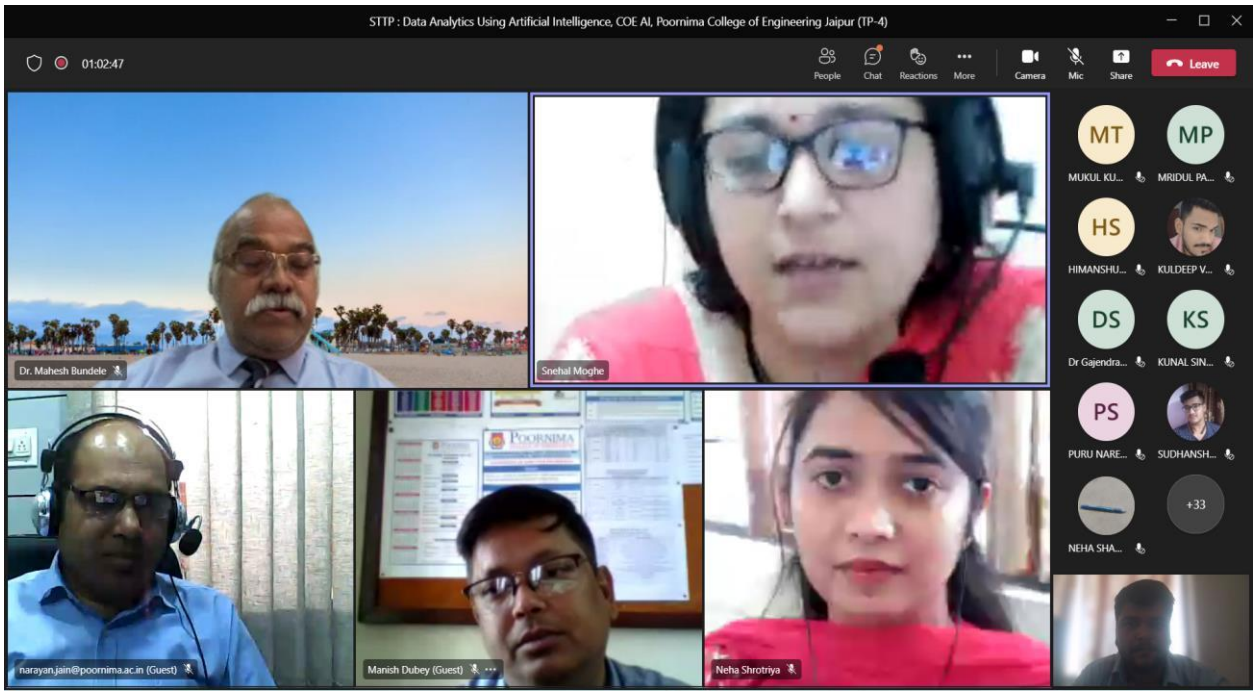
• Importance of AI in Data analytics

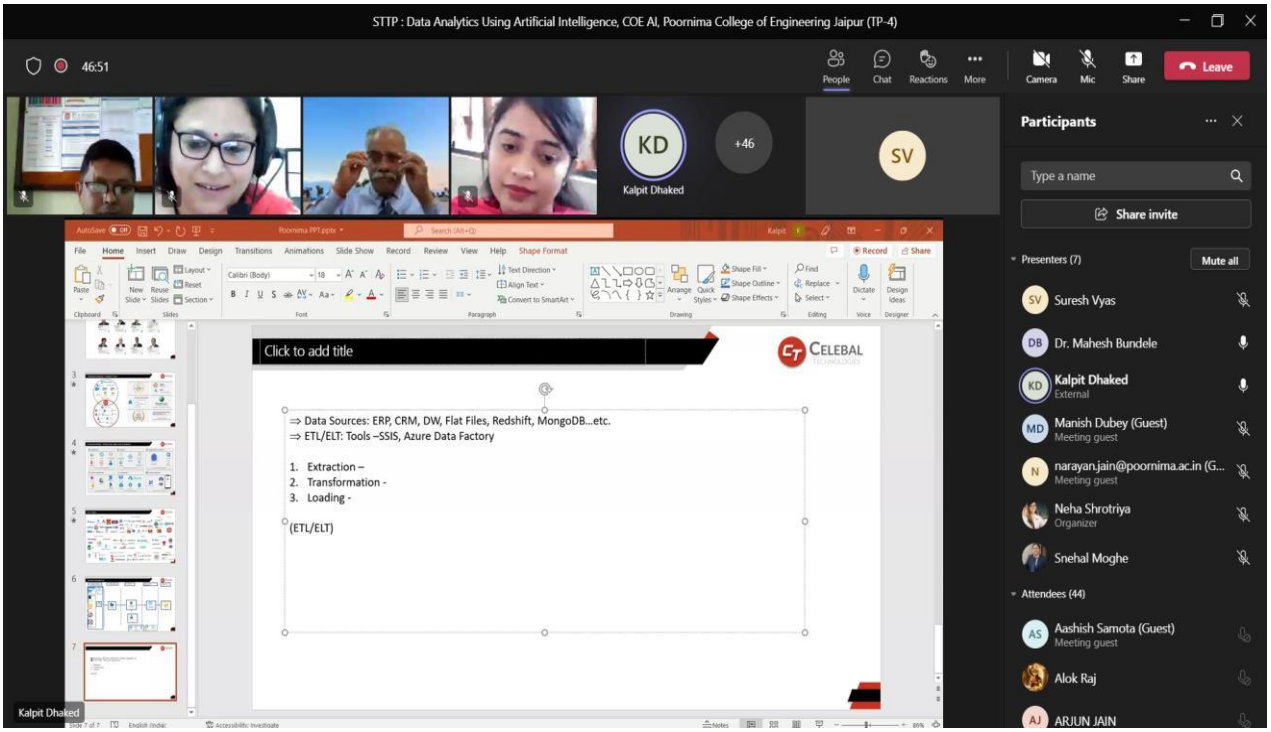
• Learning to write reports/case study of Data Analytics

During the program many students asked various questions and query and all were addressed well by the speakers after each session. Arificial 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.

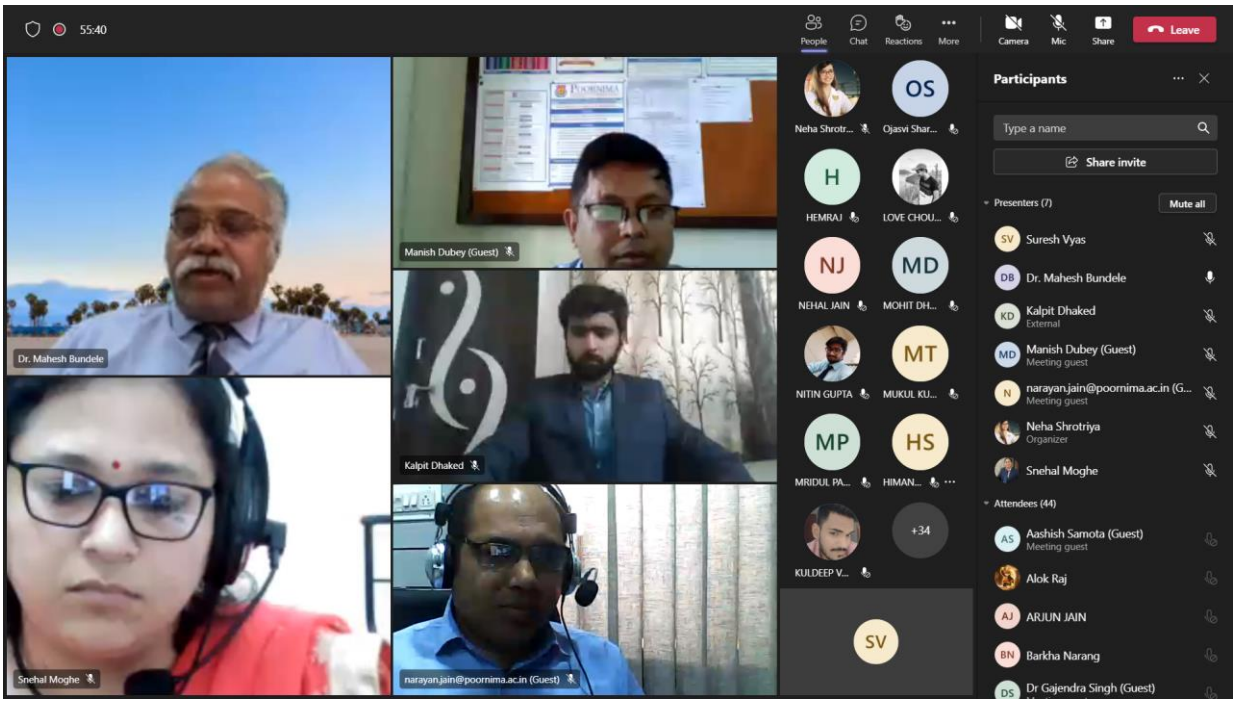
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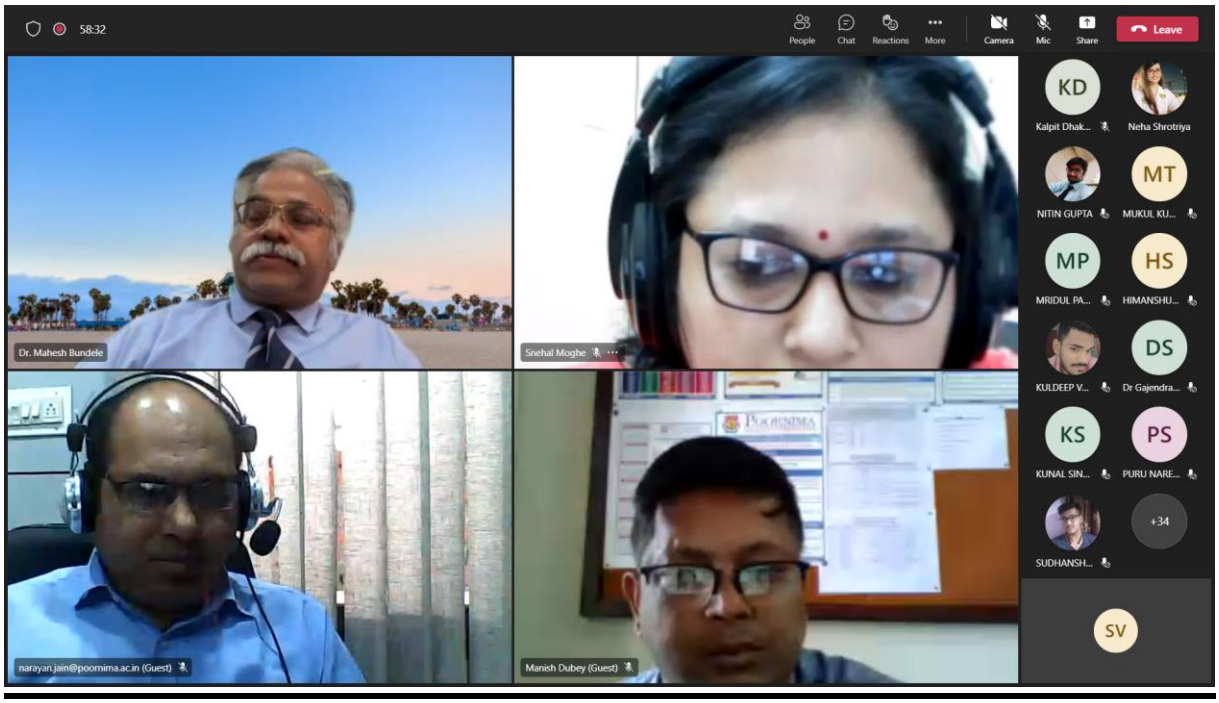
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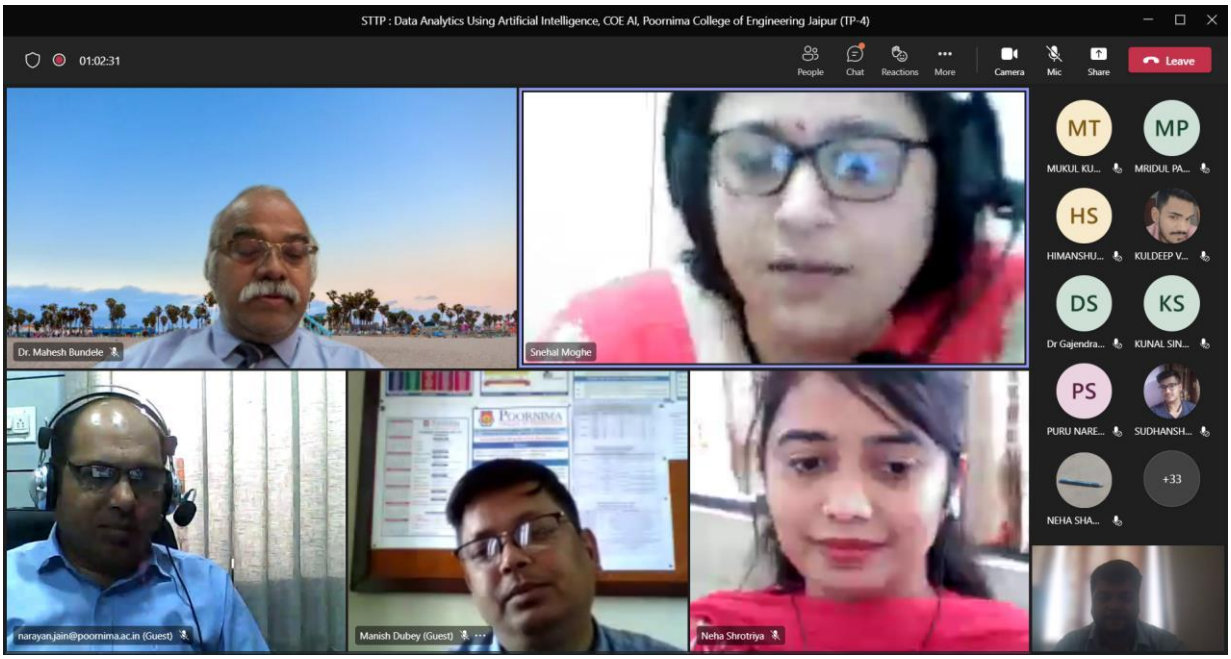


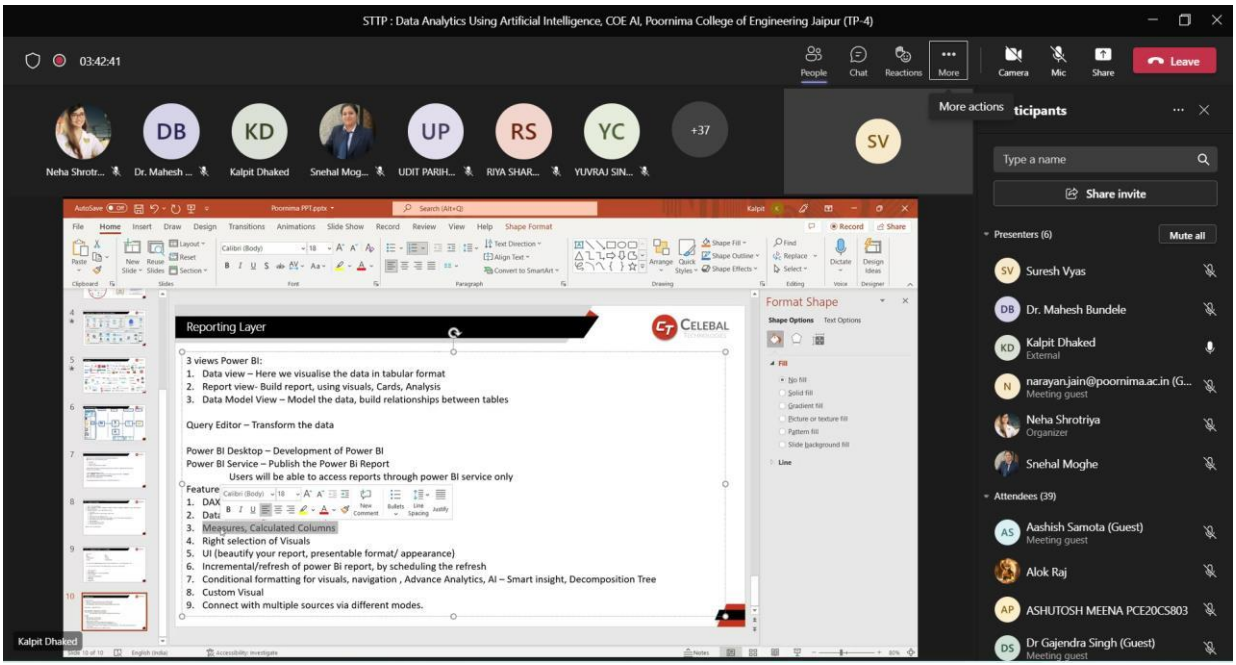
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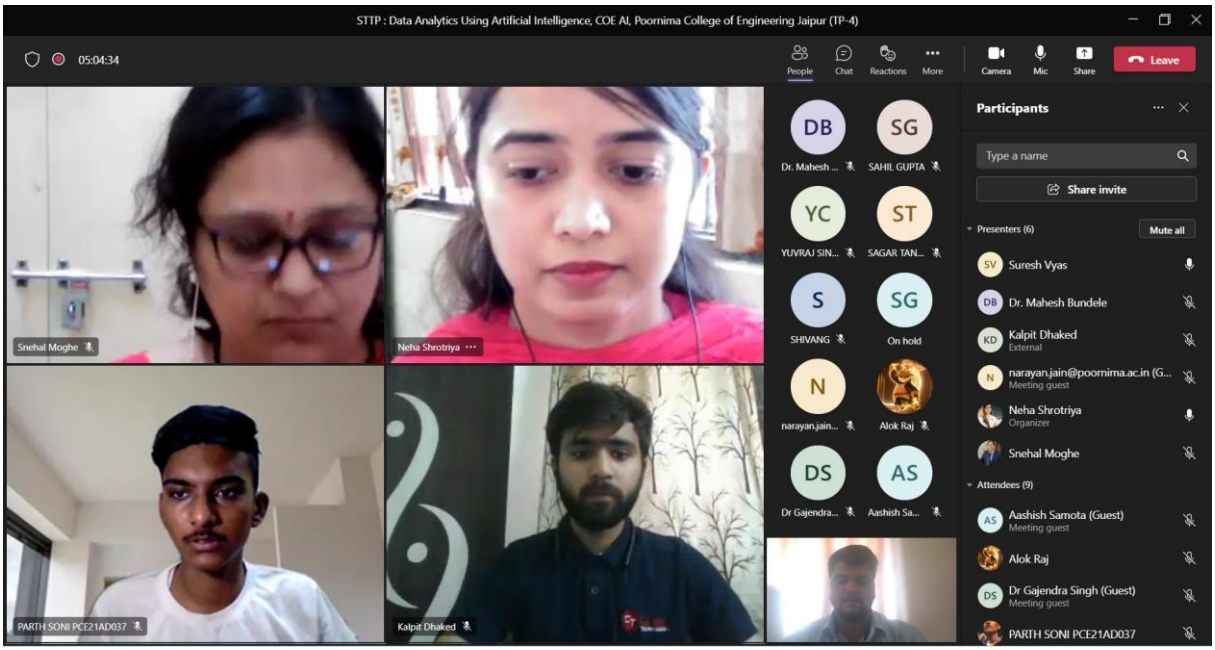


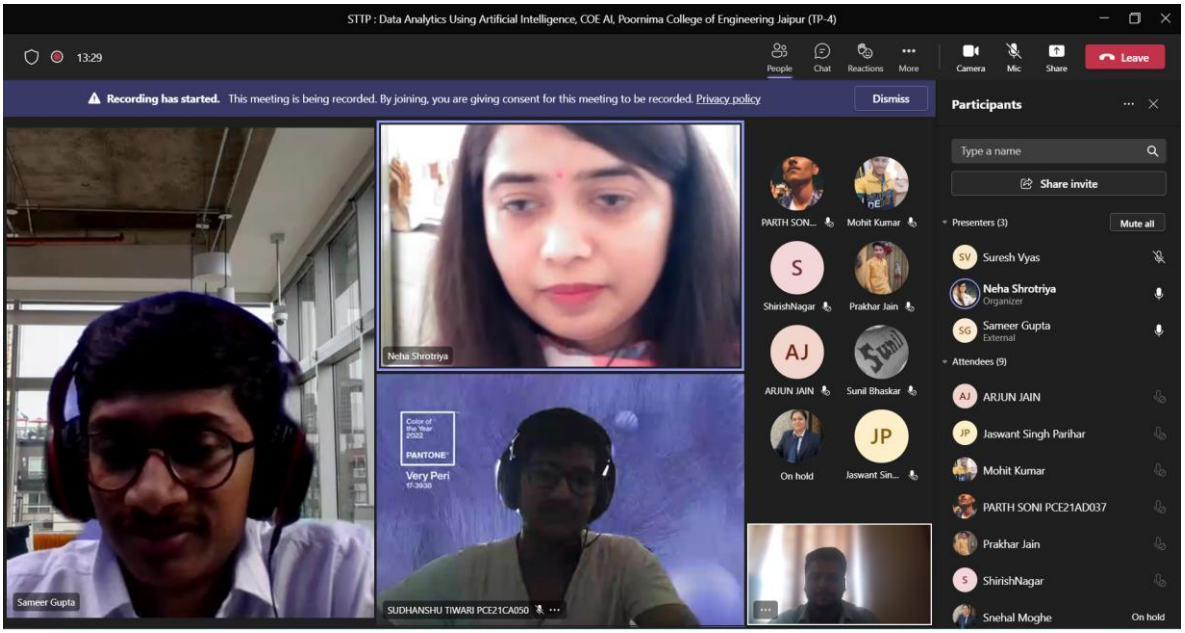
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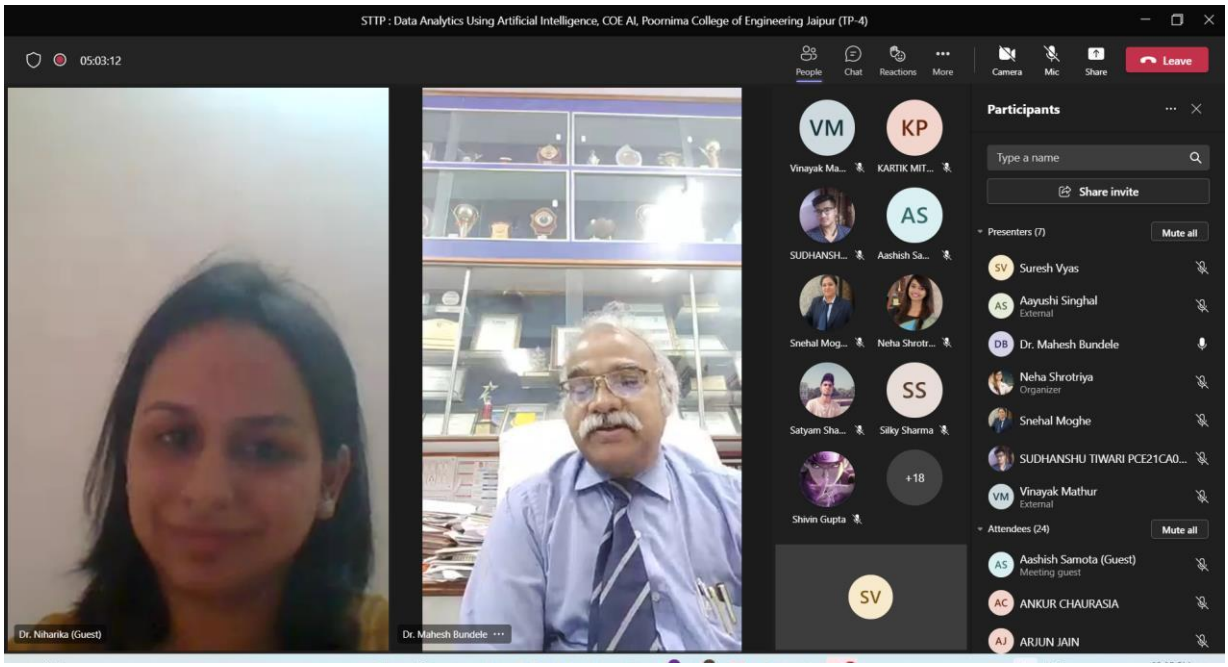


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B.E., M.E., Ph.D.
Director
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Sitapura, JAIPUR



LIST OF PARTICIPANTS:

S.No.	Name	Mobile No	email id	Orgainization	Designation
1	Gagan Manocha	918950166916	gaganchhachhrauli@gmail.com	Government College Chhachhrauli	Student
2	Raman Tank	9649870669	raman tank pgi20cs065	Poornima College Of Engineering	Student
3	Ravi Agarwal	9314486492	ravi agarwal pce21ca044	Poornima College Of Engineering	Student
4	Sejal Jain	9460883931	sejal jain pce20cs171	Poornima College Of Engineering	Student
5	Dr. Budesh Kanwer	9460503316	budesh82@gmail.com	Poornima Institute Of Engineering And Technology	Faculty
6	Dr.Megha Gupta	9413264338	megha gupta	Poornima Institute Of Engineering And Technology	Faculty
7	Kaushlendra Pratap Singh	8303241321	kaushalendraranu@gmail.com	Computer Science	Student
8	Abhishek Patwa	7378255638	abhishekpatwa821@gmail.com	Poornima College Of Engineering	Student
9	Satyam Kumar	7014014523	satyam kumar pce19cs155	Poornima College Of Engineering	Student
10	Tanya Arora	9460591271	monyarora30@gmail.com	Poornima College Of Engineering	Student

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

11	Mantu Raj	7091039431	mantu raj pce20cs105	Poornima College Of Engineering Jaipur Rajasthan	Student
12	Ayush Sharma	6378692823	ayush sharma pce19cs035	Poornima College Of Engineering	Student
13	SHREY Somani	7412886586	shrey somani pce19cs166	Poornima College Of Engineering	Student
14	Banti Saini	9460096974	sainibantiggc@gmail.com	College	Student
15	Hariom Suthar	8441051431	hariom suthar pgi20ad004	Pgi	Student
16	Mukul Bandhiwal	9983448943	mukul bandhiwal piet19cs101	Poornima Institute Of Engineering And Technology	Student
17	Praveen Kumar Yadav	8696934596	praveen yadav	Poornima College Of Engineering	Faculty
18	Shubham Kudeshiya	7220914672	shubham kudeshiya kudeshiya	Pinnacle Infotech Solution	Industry Professional
19	Sourav Saini	9799064420	sourav saini pgi20ca036	Poornima College Of Engineering	Student
20	Jai Mathur	6350287141	pcecyjai024@poornima.org	Poornima College Of Engineering	Student
21	Pranjal Rastogi	98329225965	pranjalrastogi0408@gmail.com	Poornima College Of Engineering	Student
22	Shirish Nagar	8003514249	shirish nagar(pce)	Poornima College Of Engineering Jaipur	Research Scholar
23	Ashutosh Upadhyay	7891209777	ashutosh upadhyay pce20cs033	Poornima College Of Engineering	Student
24	Rahul Khandelwal	8079035103	rahul khandelwal pce20cs152	Poornima College Of Engineering	Student
25	Vipin Pandey	7309043734	vipinpandey7065@gmail.com	Siet Institute Of Technology	Student
26	Bhumika Gautam	7023348902	bhumika.gautam11@gmail.com	Govt Of Rajasthan	Industry Professional
27	Yash Vardhan Singh Solanki	8690692297	yash vardhan singh solanki pce21ec022	Poornima College Of Engineering	Student
28	Arun Joseph	7568100851	arunsjoseph5@gmail.com	Poornima College Of Engineering	Student
29	Prakhar Jain	8875959932	prakhar jain piet20ad035	Poornima Institute Of Engineering And Technology	Student
30	Alok Raj	7209772069	alok raj pgi20ca005	Poornima Group Of Institutions	Student
31	Kapil Vinayak	6376010152	kapilvinayakkv8@gmail.com	Poornima Institute Of Engineering And Technology	Student

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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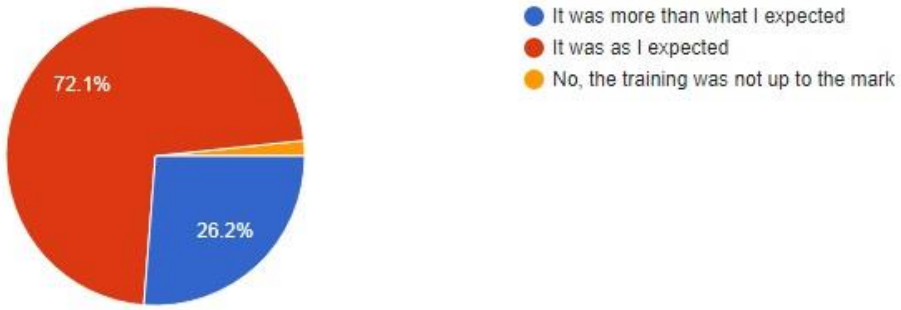
32	Prakshal Rohatgi	8278609980	prakshal rohatgi pce20cs146	Poornima College Of Engineering	Student
33	Rishabh Jain	9549489661	rishabh jain	Poornima College Of Engineering	Student
34	Abhishek Singh Rajawat	6375831578	abhishek singh rajawat pce21ec002	Poornima College Of Engineering	Student
35	Nikhil Garg	8273726681	2021btechaidsnikhil9889@poornima.edu.in	Poornima University	Student
36	Kaustubh S Nair	9799326440	kaustubh s. nair piet20ad024	Poornima Institute Of Engineering And Technology	Student
37	Mohit Kumar	7427032627	2021btechaidsmohit9984@poornima.edu.in	Poornima University	Student
38	Jaswant Singh Parihar	6232476658	2021btechaidsjaswant9432@poornima.edu.in	Poornima University	Student
39	Sunil Bhaskar	8503927787	2021btechaids9926@poornima.edu.in	Poornima University	Student
40	Himanshu Goyal	9782800791	goyalh989@gmail.com	Poornima Alumini	Industry Professional
41	Abhilasha Khandelwal	7357020388	abhilasha.khandelwal@poornima.edu.in	Poornima University	Faculty
42	Ojasvi Sharma	9983745350	ojasvi sharma piet20ad033	Poornima College Of Engineering	Student
43	Hemrajkumawat	8114406515	hemraj kumawat piet20ad019	Poornima Group	Student
44	Aashish Samota	9680547851	samota aashish	Education	Student
45	Pratichi Gaur	9887336884	2021mcapratichi10339@poornima.edu.in	Spoornima Institute Of Engineering And Technology	Student
46	Suryansh Chaudhary	8941873342	suryansh choudhary pgi20ca037	Poornima Group Of Institutions	Student
47	Amit Gupta	9001893265	amit gupta	Poornima College Of Engineering	Faculty
48	Dr Gajendra Singh Rajawat	9414719108	gajendra rajawat	Poornima College Of Engineering	Faculty
49	Dr. Neeraj	9812055564	dr. neeraj bhardwaj	Poornima Institute Of Engineering & Technology	Faculty
50	Hemanshi Kothari	9660056208	helene.evigan@gmail.com	Isim	Student
51	Megha Garg	8233095306	meghagarg.1990@gmail.com	Poornima University	Faculty
52	Sunil Bhaskar	8503927787	2021btechaids9926@poornima.edu.in	Poornima University	Student
53	Ankit Khatri	9460857473	ankitkhatri0312@gmail.com	Poornima College of Engineering	Student

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

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. More than 70% respondents felt that the training Program solved their quries related to data analytics and it was an overall learning experience.

Q. Did the training content meet your expectations?



Q. Do you have any suggestions that can help us improve the training program?

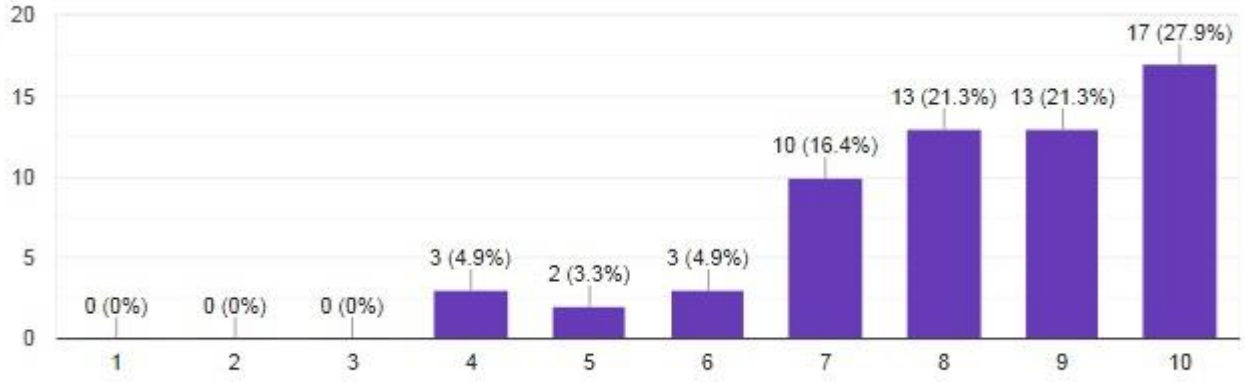
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B.E., M.E., Ph.D.
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Do you have any suggestions that can help us improve the training program?

23 responses

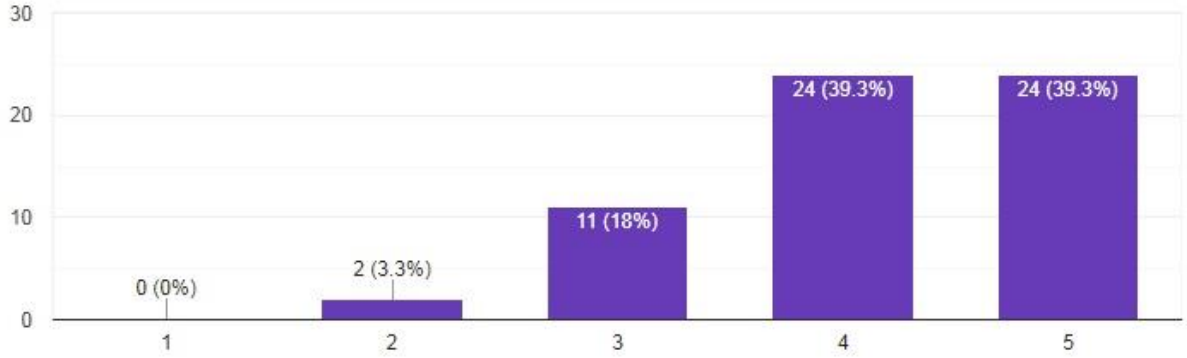
No it was good
I think practical experience is also introduced in training.
No suggestion
Nothing
It is a good initiative
-
No everything was good.
It was wonderful.
Analytics relies on existing information to find patterns that ultimately shape decisions.

Q. Would you recommend these trainings conducted by COE to your friends and colleges?



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Poornima College of Engineering
ISI-6, RIICO Institutional Area
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Q. How would you rate the quality of the training out of 5?



Dr. Mahesh Bundele
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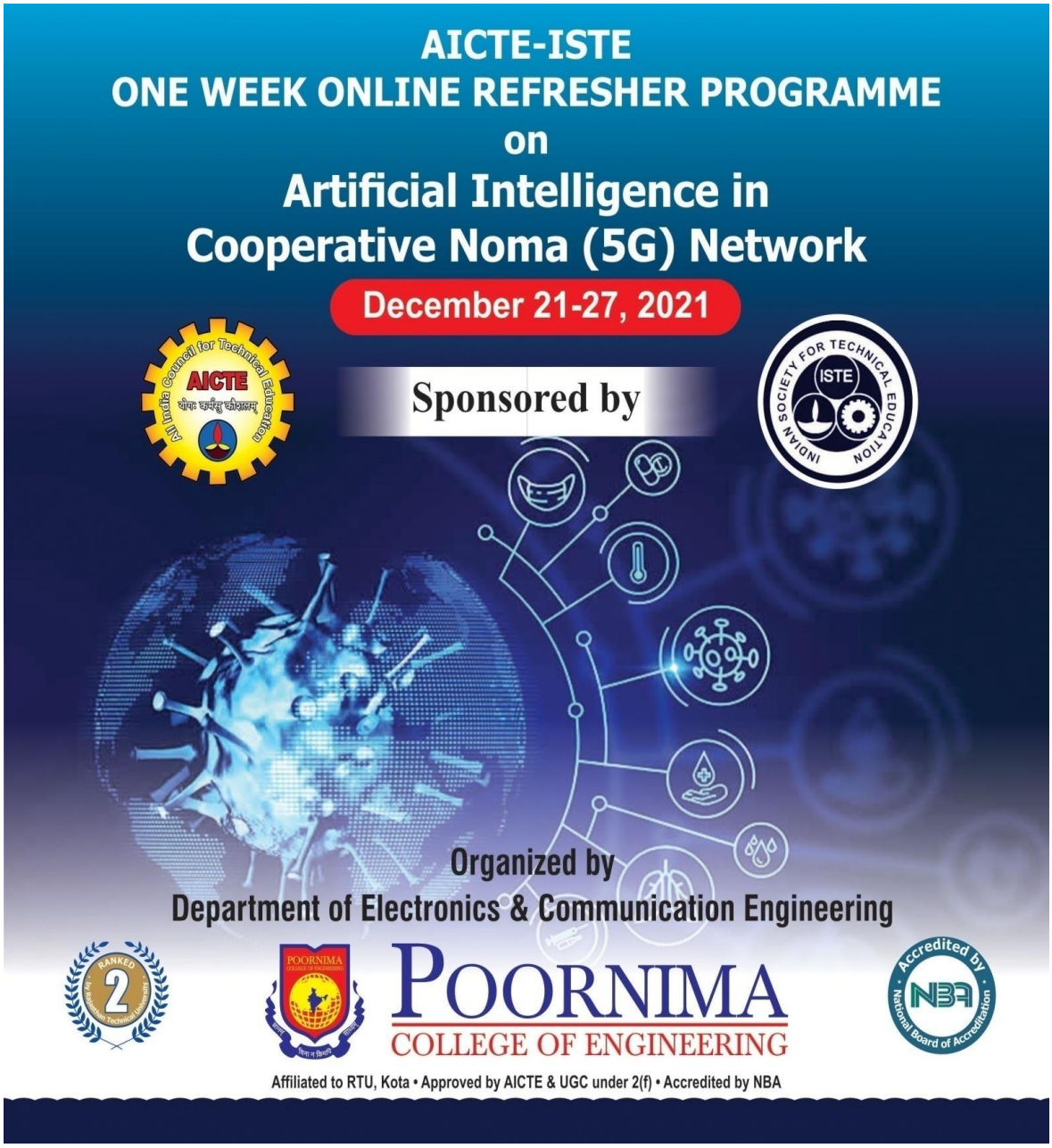
Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

Report on 7-days Short Term Training Program

- **TITLE AND DURATION:** "Artificial Intelligence & Cooperative Noma (5G) Network" from December 21-27, 2021.
- **SPONSORS:** AICTE -ISTE
- **SUPPORTERS:** Nil.
- **ORGANIZERS:** Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.
- **OBJECTIVES:** The objective of general AI is to design a system capable of thinking for itself just like humans do. Currently, general AI is still under research, and efforts are being made to develop machines that have enhanced cognitive capabilities.
- **EXPECTED OUTCOMES:**
  1. Evaluate the advantages, disadvantages, challenges, and ramifications of human–AI augmentation.
  2. Design and develop symbiotic human–AI systems that balance the information processing power of computational systems with human intelligence and decision making.
  3. Explain the benefits, limitations, and tradeoffs of designing engaging and ethical conversational user interactions, including those supported by chatbots, smart speakers, and other AI-driven, voice-based technologies.
  4. Design and evaluate conversational interfaces for different users and contexts of use.

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:**



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

AICTE-ISTE SPONSORED ONE WEEK ONLINE REFRESHER PROGRAMME
ON

ARTIFICIAL INTELLIGENCE IN COOPERATIVE NOMA (5G) NETWORK

December 21-27, 2021

Department of Electronics & Communication Engineering, Poornima College of Engineering

Cordially invite you to Inaugural Session



Dr. Pratapsinh Kakasaheb Desai
Chief Guest
Indian Society of for Technical (ISTE)
New Delhi



Prof. R. P. Yadav
Guest of Honor
Professor-HAG, MNIT, Jaipur



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



Ar. Rahul Singhi
Director
Poornima Group, Jaipur



Mr. Pankaj Dhemla
Vice Principal
PCE, Jaipur

Resource Persons



Prof. Rajeevan Chandel
Professor
NIT, Hammirpur



Dr. Vimal Bhatia
Professor
IIT Indore



Dr. Mithilesh Kumar
Professor
RTU, Kota (Raj.)



Prof. Nidhi Goel
Professor & Head
IGDTUW, New Delhi



Dr. Priti Srinivas Sajja
Professor, Sardar Patel University
Vallabh Vidyanagar, Gujarat



Dr. M Lakshmi
Professor, SRM Institute of Science
and Technology, Tamil Nadu



Dr. Preetam Kumar
Associate Professor
IIT, Patna



Dr. Sandeep Kumar
Associate Professor
IIT Roorkee



Dr. Aniruddha Chandra
Associate Professor
NIT Durgapur



Prof. Prashant K. Jamwal
Associate Professor, Nazarbayev University
(NU), Astana, Kazakhstan



Dr. Neelakandan Rajamohan
Assistant Professor
IIT Goa



Dr. Himanshu B. Mishra
Assistant Professor
IIT Dhanbad



Dr. Rahul Pandya
Assistant Professor
IIT Dharwad



Dr Amit Kumar Garg
Assistant Professor
IIIT Kota



Divya Mathur
AmazeHeads, Mumbai



Mukesh Kulothia
Director
Muskurado, New Delhi

Organized by **Department of Elect. & Comm. Engineering**

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Dr. Garima Mathur
Program Coordinator



Dr. Anila Dhingra
Program Co-Coordinator



Mr. Tarun Mishra
Assistant Prof. ECE,PCE

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

SPEAKERS

Prof. R. P. Yadav
Professor-HAG, MNIT, Jaipur

Prof. Rajeevan Chandel
Professor, NIT, Hammirpur

Dr. Vimal Bhatia
Professor, IIT Indore

Dr. Mithilesh Kumar
Professor, RTU, Kota (Raj.)

Dr. M Lakshmi
Professor, SRM Institute of Science and Technology, Tamil Nadu

Dr. Priti Srinivas Sajja
Professor, Sardar Patel University, Vallabh Vidyanagar, Gujarat

Dr. Sandeep Kumar
Associate Professor, IIT Roorkee

Dr. Preetam Kumar
Associate Professor, IIT, Patna

Dr. Aniruddha Chandra
Associate Professor, NIT Durgapur

Dr. Himanshu B. Mishra
Assistant Professor, IIT Dhanbad

Dr. Rahul Pandya
Assistant Professor, IIT Dharwad

Dr. Neelakandan Rajamohan
Assistant Professor, IIT Goa

Dr Amit Kumar Garg
Assistant Professor, IIIT Kota



PATRON

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

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

PROGRAM COORDINATOR

Dr. Garima Mathur
Head of Department ECE, Poornima College of Engineering

CO-COORDINATOR

Dr. Anila Dhingra
Associate Professor,
ECE, PCE

Mr. Tarun Mishra
Assistant Professor
ECE, PCE

PCE ORGANIZING COMMITTEE

Dr. Payal Bansal	Associate Professor, ECE
Mr. Amit Kumar Jain	Assistant Professor, ECE
Mr. Durgesh Kumar	Assistant Professor, ECE
Mr. Manish Sharma	Assistant Professor, ECE
Ms. Manisha Kumawat	Assistant Professor, ECE

CONTACT FOR FURTHER INFORMATION

Dr. Garima Mathur
Head, Department Electronics & Communication Engineering,
Poornima College of Engineering, Jaipur
✆ : +91-9829393517
✉ : drg.mathur@poornima.org



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ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan 302022

AICTE-ISTE ONE WEEK ONLINE REFRESHER PROGRAMME on Artificial Intelligence in Cooperative Noma (5G) Network

December 21-27, 2021

Sponsored by



Organized by
Department of Electronics & Communication Engineering

POORNIMA
COLLEGE OF ENGINEERING

THE INSTITUTION

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

THE DEPARTMENT

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 & 2018 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 CENTRE OF EXCELLENCE AI & BIG DATA

The creation of Centre of Excellence aims at building the workforce where 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 Training 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, Training for external students and faculty members in AI & Big Data.

AICTE

AICTE All India Council for Technical Education (AICTE) was setup in November 1945 as a national level Apex Advisory Body to conduct survey on the facilities on technical education and to promote development in the country in a coordinated and integrated manner. And to ensure the same, as stipulated in the National Policy of Education (1986), AICTE be vested with statutory authority for planning, formulation and maintenance of standards and norms, quality assurance through accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification and awards and ensuring coordinated and integrated development and management of technical education in the country.

ISTE

The Indian Society for Technical Education (ISTE) is the leading National Professional Non-Profit. making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. The major objective of the ISTE are:

- Providing quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity.
- To assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations.
- Providing guidance and training to students to develop better learning skills and personality.

ABOUT THE PROGRAM

This multidisciplinary online faculty development program is being organized as an effort to inculcate scientific temper and to popularize the benefits of scientific knowledge and its practical appropriation among the faculty members, general public and scientific institutions.

COURSE OBJECTIVE

Nowadays, large amount of data is available everywhere. Therefore, it is very important to analyze this data in order to extract some useful information and to develop an algorithm based on this analysis. This can be achieved through AI in NOMA 5G Networks. Mobile Communication is an integral part of artificial intelligence, which is used to design algorithms based on the data trends and historical relationships between data. AI is used in various fields such as bioinformatics, intrusion detection, information retrieval, game playing, marketing, malware detection, image deconvolution and so on.

REGISTRATION FEE

There is no registration fee for the program. **Preference will be given to ISTE members.**

RESOURCE PERSONS

Resource Persons are experts from IITs/ NITs/ Industries /Universities and Institutes of repute.

ELIGIBILITY

The program is open to all members of AICTE/UGC affiliated institutes/Universities i.e. Faculty Members, Research Scholars.

SELECTION AND CERTIFICATION CRITERIA

Selection will be done based on first-cum-first-serve basis and the confirmed candidate will be notified on receipt of registration form latest by 15th December 2021. Attendance of 80% and score of minimum 60% marks in the test is compulsory for certification.
Important Date: Last date for submission of application- **Dec. 10, 2021**

HOW TO APPLY

The course is free of cost for eligible candidates. The participants have to submit duly filled registration form which is available on the link provided below on or before 10th December 2021. **https://tinyurl.com/3jmjzux9**

GUIDELINES

Coordinator decision will be final regarding the selection of participants. The certificates shall be issued to those participants who are registered on **https://tinyurl.com/3jmjzux9** and attend the program with minimum 80% attendance and score minimum 60% marks in the test.

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
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Sitapura, JAIPUR

	10:00 AM-10:30 AM	Session I- 10:30 AM – 12:00 Noon	Session II- 12:30 PM - 02:00 PM	Session III- 02:30 PM 04:00 PM	4:00 PM-4:15 PM
Tuesday (21.12.21)	**Inaugural Session** **Chief Guest**: Dr. Pratapsinh Kakaso Desai, President, ISTE, New Delhi **Guest of Honour**: Prof. R. P. Yadav, Professor-HAG, MNIT Jaipur	**5G Technology and Cooperative Relay in NOMA System** Prof. R. P. Yadav, Professor-HAG, MNIT Jaipur	**Advanced Optical Networks for 5G & Beyond** Dr. Amit Kumar Garg, Assistant Professor, IIIT Kota	**Data in AI Networks: Applications & Algorithms** Prof. Nidhi Goel, Professor & Head, IGDTUW, New Delhi	**EXAM**
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Wednesday (22.12.21)		**Introduction to NOMA in Beyond 5G Networks** Dr. Vimal Bhatia, Professor, IIT Indore	**Role of AI in Cooperative 5G Network** Dr. M. Lakshmi, Professor, SRM Institute of Science and Technology, Tamil Nadu	**Hybrid Beamforming & NOMA for mmWave Communication in 5G** Dr. Neelakandan Rajamohan, Assistant Professor, IIT Goa	**EXAM**
Thursday (23.12.21)		**Cache-Aided NOMA Networks** Dr. Aniruddha Chandra, Associate Professor, NIT Durgapur	**Enabling Technologies for 5G** Dr. Preetam Kumar, Associate Professor, IIT, Patna	**National Education Policy-2020** Prof. Rajeevan Chandel, Professor, NIT, Hammirpur	**EXAM**
Friday (24.12.21)		**Spectral Efficient Channel Estimation Schemes for OTFS Based 6G Wireless Communication Systems** Dr. Himanshu B. Mishra, Assistant Professor, IIT Dhanbad	**Artificial Intelligence and Machine Learning** Dr. Priti Srinivas Sajja, Professor, Sardar Patel University, Vallabh Vidyanagar, Gujarat	**Stress Management** Mukesh Kulothia, Founder & Director, Muskarado.com	**EXAM**
Saturday (25.12.21)		**5G Antennas Design** Dr. Mithilesh Kumar, Professor, RTU, Kota	**Role of Artificial Intelligence & Network Communication in Digitization: Digital India Perspective** Dr. Sandeep Kumar, Associate Professor, IIT Roorkee	**Power BI A-Z: Hands-On Power BI Training For Data Science!** Divya Mathur, Faculty Trainer, Amazeheads, Mumbai	**EXAM**
Monday (27.12.21)		**Artificial Intelligence in Health Care** Prof. Prashant K. Jamwal, Associate Professor, Nazarbayev University (NU), Astana, Kazakhstan.	**6G Vision, Potential Technologies, & Challenges** Dr. Rahul Pandya, Assistant Professor, IIT Dharwad	**Valedictory (Followed by Exam)**	

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- **INAUGURAL SESSION:**

AICTE-ISTE
One week Online Refresher Program
On
Artificial Intelligence in Cooperative Noma (5G) Network
December 21 - 27, 2021

Date: December 21, 2021 **Time: 10:00 AM- 10:30 AM**
Venue: Online- Program URL: **https://tinyurl.com/2y9wzkty**

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Refresher Program by **Dr. Anila Dhingra,** Associate Professor ECE,PCE • **Dr. Pratapsinh Kakaso Desai,** President, ISTE, NewDelhi **(Chief Guest)** • **Prof. R. P. Yadav,** Professor-HAG, MNIT Jaipur **(Guest of Honor)** • **Ar. Rahul Singhi**, Director, Poornima Group • **Dr. Mahesh Bundele,** Director & Principal, PCE • **Mr. Pankaj Dhemla,** Vice Principal, PCE	02 Min	10:00 AM-10:02 AM
2.	e-Felicitation of **Chief Guest & Guest of Honor with** Welcome Address by **Dr. Mahesh Bundele**, Director &Principal, PCE	05 Min	10:02 AM-10:06 AM
3.	Motivational Words by **Ar. Rahul Singhi,** Director, Poornima Group	05 Min	10:06 AM-10:11 AM
4.	Address by **Guest of Honor Prof. R. P. Yadav, Professor-HAG, MNIT Jaipur**	06 Min	10:11 AM-10:17 AM
5.	Inaugural Address by **Chief Guest Dr. Pratapsinh Kakaso Desai, President, ISTE, New Delhi**	10 Min	10:17 AM-10:27 AM
6.	Vote of Thanks by **Dr. Garima Mathur**, Head & Professor, ECE, PCE	02 Min	10:27 AM-10:29 AM
7.	Group Photograph of Dignitaries -Virtual	01 Min	10:29 AM-10:30 AM

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
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- **DETAILS OF RESOURCE PERSONS:**

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Inaugural Ceremony

Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur organized one week AICTE- ISTE Online Refresher program on "Artificial Intelligence in Cooperative Noma (5G) Network" from December 21-27, 2021 in three sessions daily through online mode.

The objective of this refresher program is intended to impart knowledge and training on the fundamentals of AI & wireless Communication, its use in various domains viz medical, agricultural, public sector etc. On 21st December program was inaugurated by Chief Guest Dr. Pratapsinh Kakaso Desai, President, ISTE, New Delhi. Prof. R. P. Yadav, Professor-HAG, MNIT Jaipur was Guest of Honor of the program. Architect, Rahul singhi, Director. Poornima Group, Dr. Mahesh M. Bundele, Director, PCE, Er. Pankaj Dheemla, Vice Principal, PCE and Dr. Garima Mathur, HOD, department of Electronics & Communication Engineering, PCE also graced the program. In this program more than 200 faculties from all over India got registered. 17 Technical Sessions were sched[illegible]

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Eminent speakers from all over India gave their knowledge on the upcoming topics like 5G Technology and Cooperative Relay in NOMA System, Role of AI in Cooperative 5G Network, Enabling Technologies for 5G etc Speakers also shared their thoughts that Artificial Intelligence research is leading to evolve in the area of Machine Learning, Deep Learning applications in Healthcare, Agriculture, Business and Security etc. AI is an emerging technology that shall be used almost all applications / technologies/ systems in one or other form.

Felicitation of Dignitaries



Felicitation of Chief Guest Prof. Dr. Pratapsinh Kaka Sahib Desai by Dr. Mahesh Bundele

Dr. Mahesh Bundele
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Felicitation of Guest of Honour Dr. R.P. Yadav by Dr. Mahesh Bundele

Group Photograph



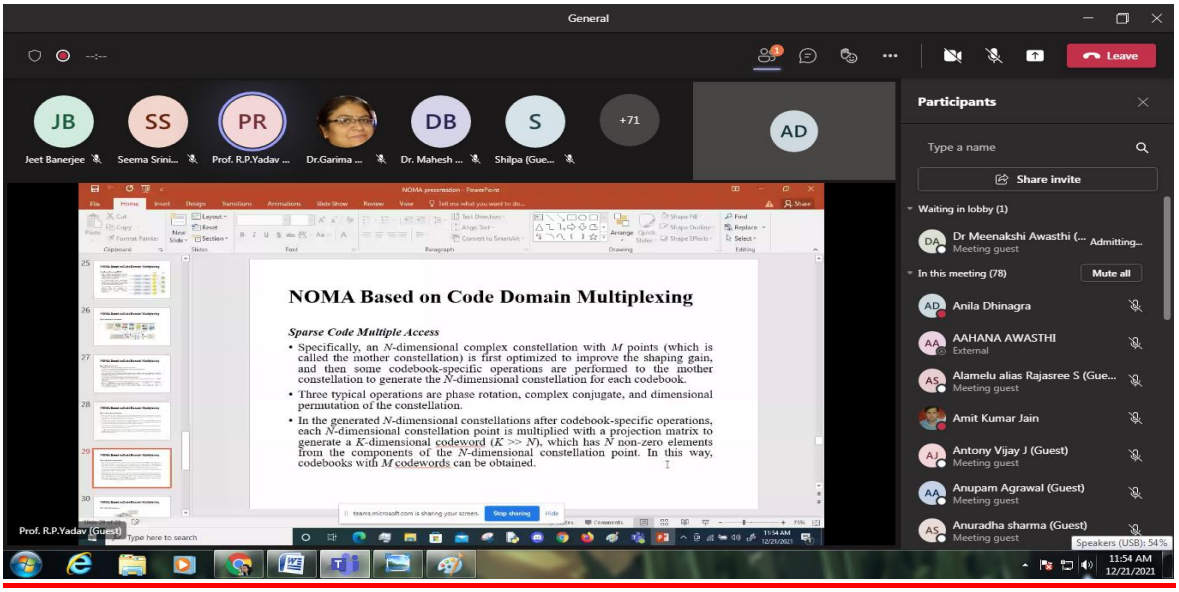
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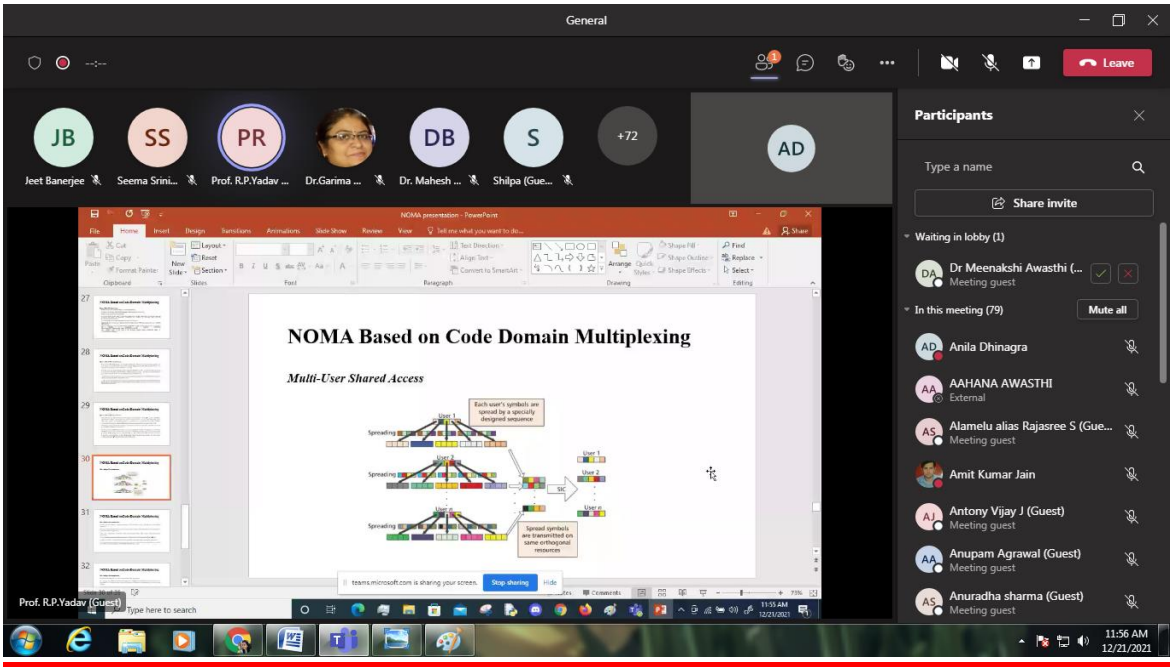
Day-1 21, December, 2021

Session -1

Title: 5G Technology and Cooperative Relay in NOMA System.

Speaker: Dr. R. P. Yadav, Professor-HAG, MNIT Jaipur.





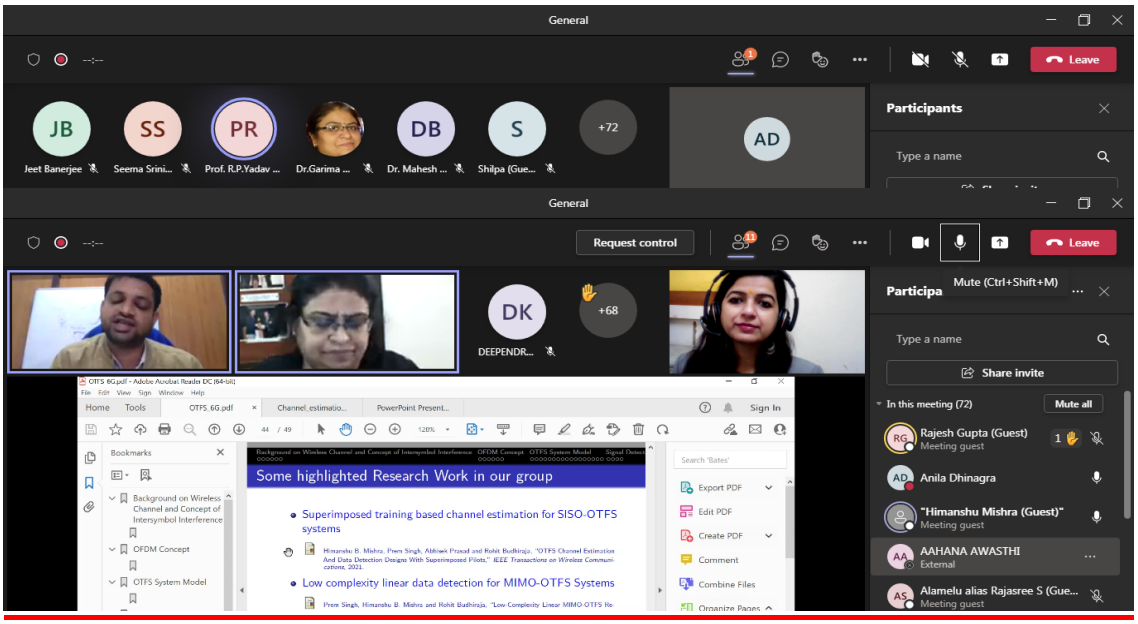
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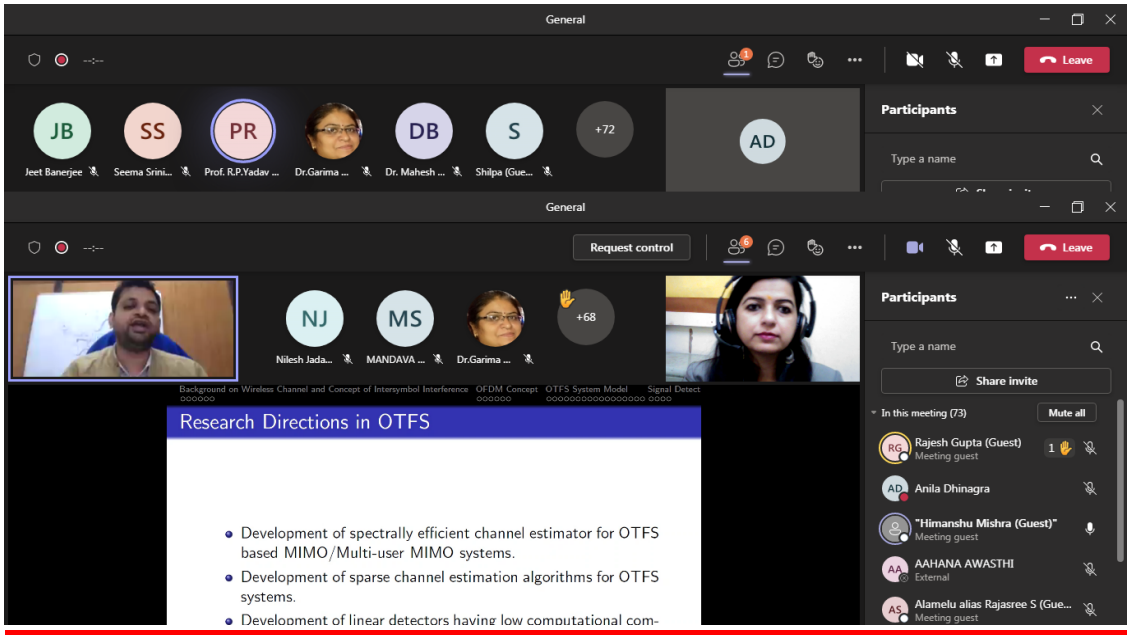
Day-1 21, December, 2021

Session-2

Title: Spectral Efficient Channel Estimation Schemes for OTFS Based 6G Wireless Communication Systems.

Speaker: Dr. Himanshu Bhusan Mishra, Assistant Professor, IIT Dhanbad.





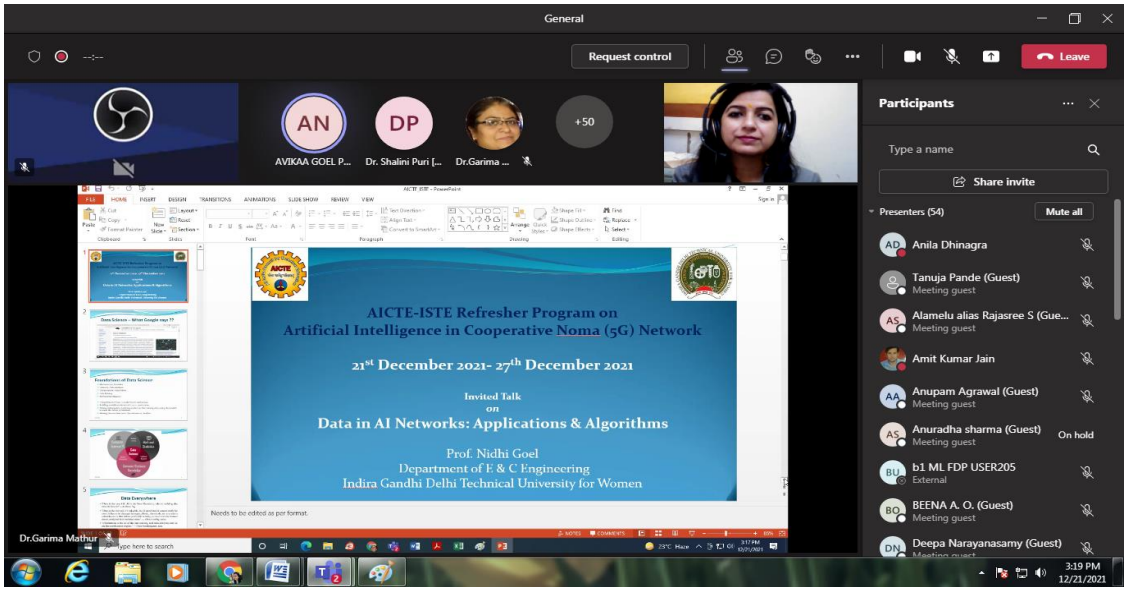
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Sitapura, JAIPUR

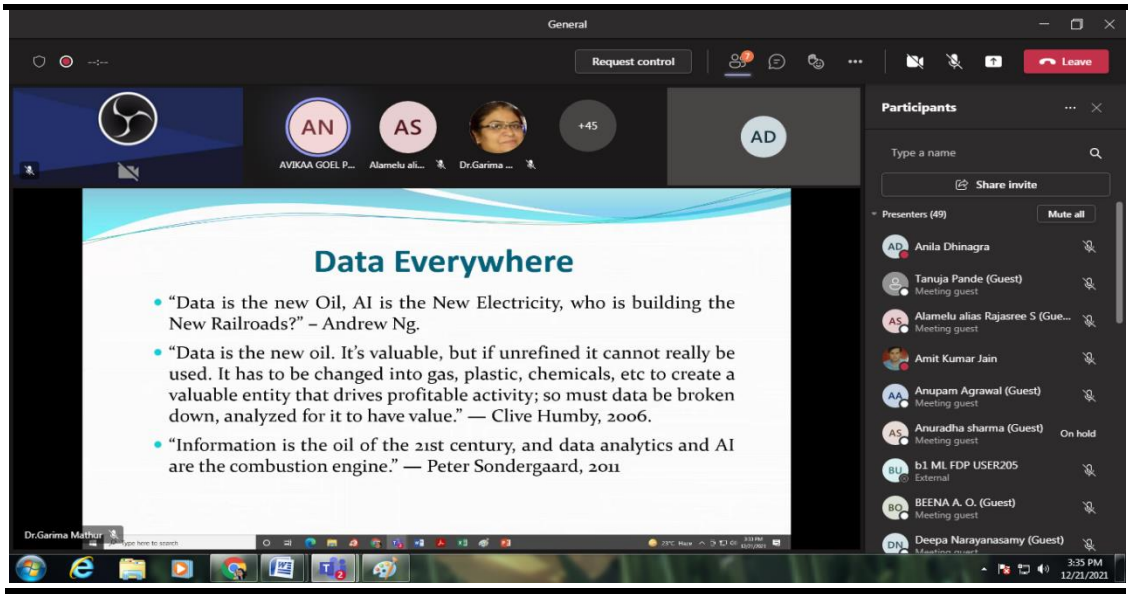
Day-1 21, December, 2021

Session -3

Title: Data in AI Networks: Applications & Algorithms.

Speaker: Prof. Nidhi Goel, Professor and Head, Indira Gandhi Delhi Technical University





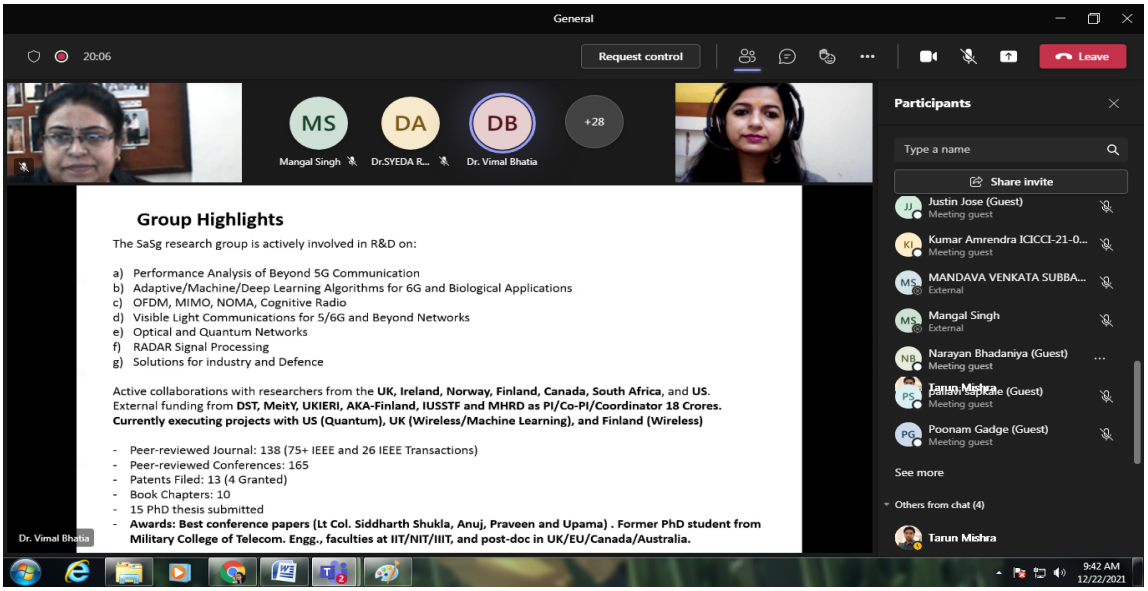
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
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Poornima College of Engineering
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Sitapura, JAIPUR

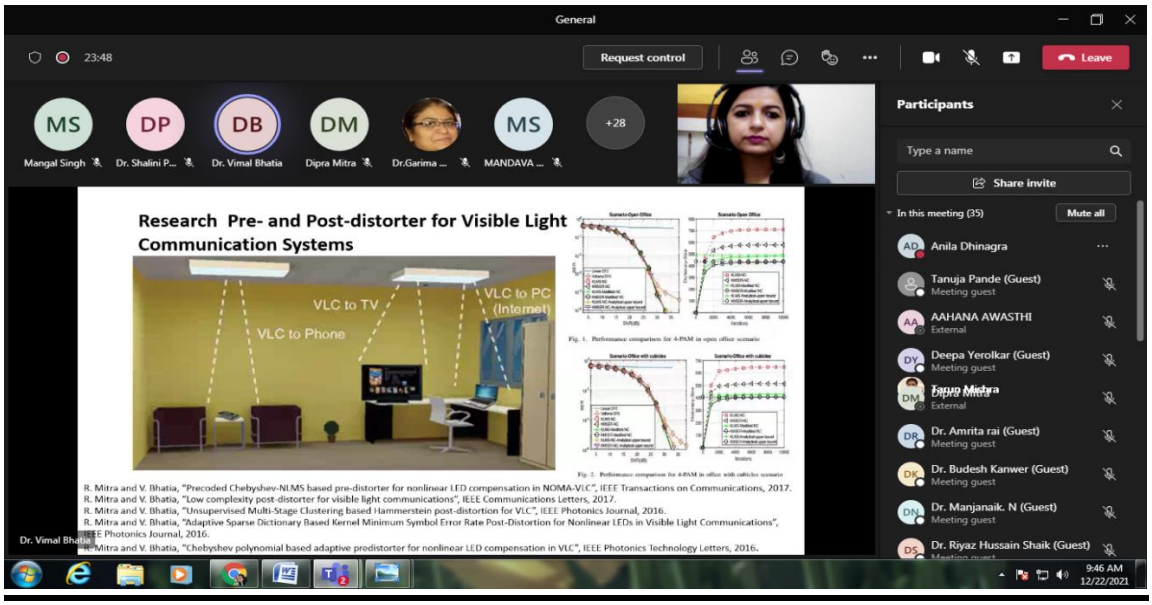
Day-2 22, December, 2021

Session -1

Title: Introduction to NOMA in Beyond 5G Networks.

Speaker: Dr. Vimal Bhatia, Professor, IIT Indore





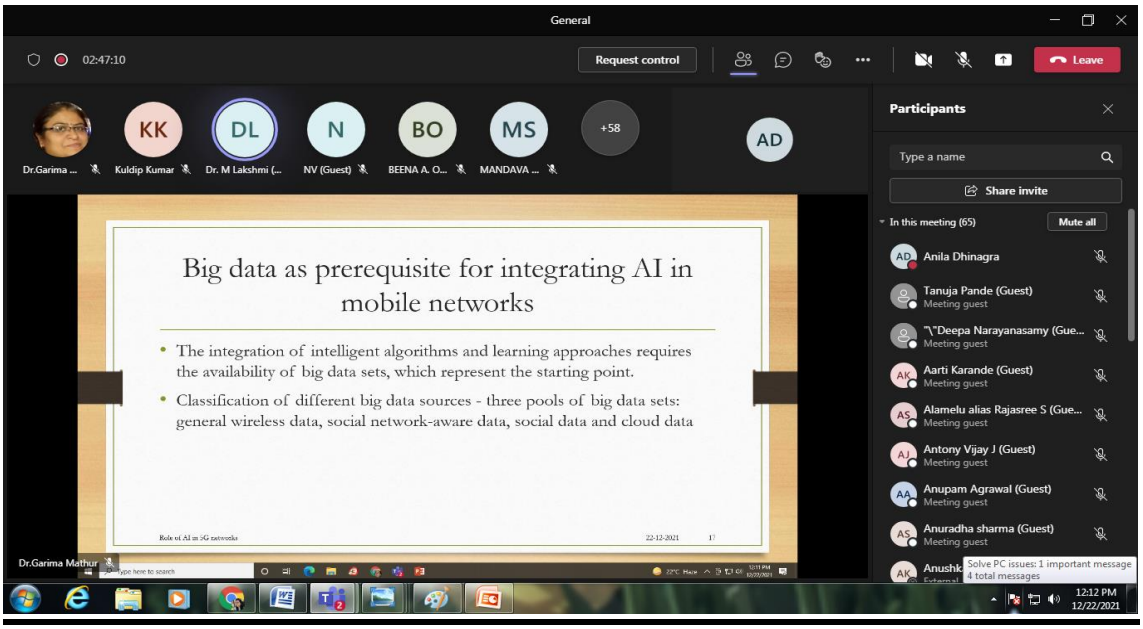
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

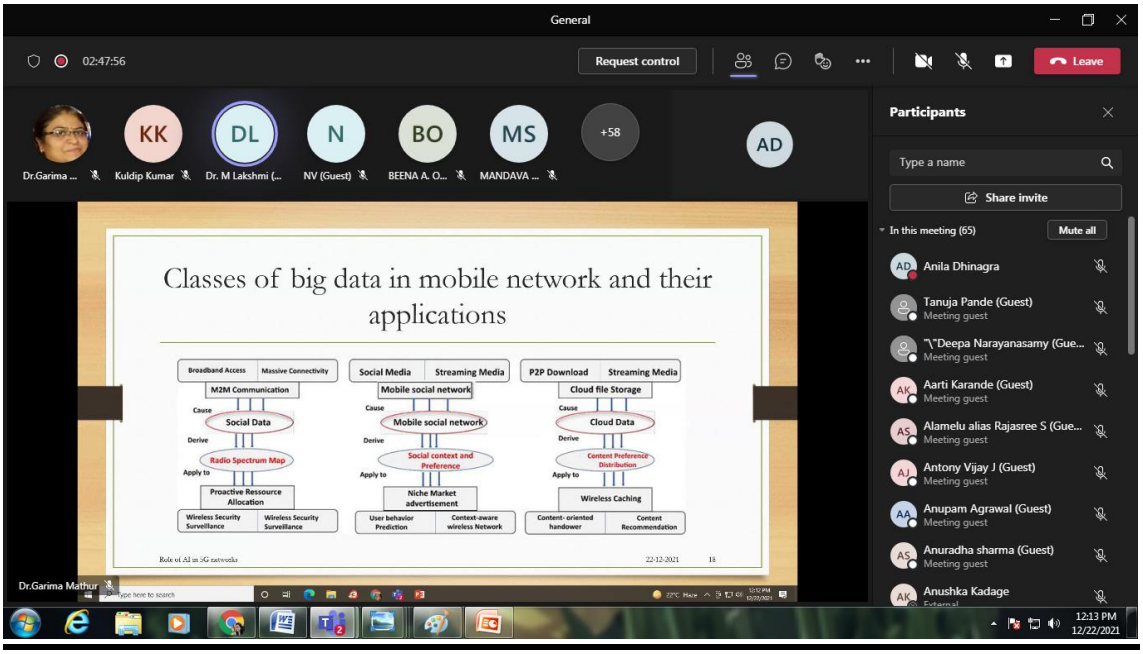
Day-2 22, December, 2021

Session -2

Title: Role of AI in Cooperative 5G Network.

Speaker: Dr. M. Lakshmi, Professor, SRM Institute of Science and Technology





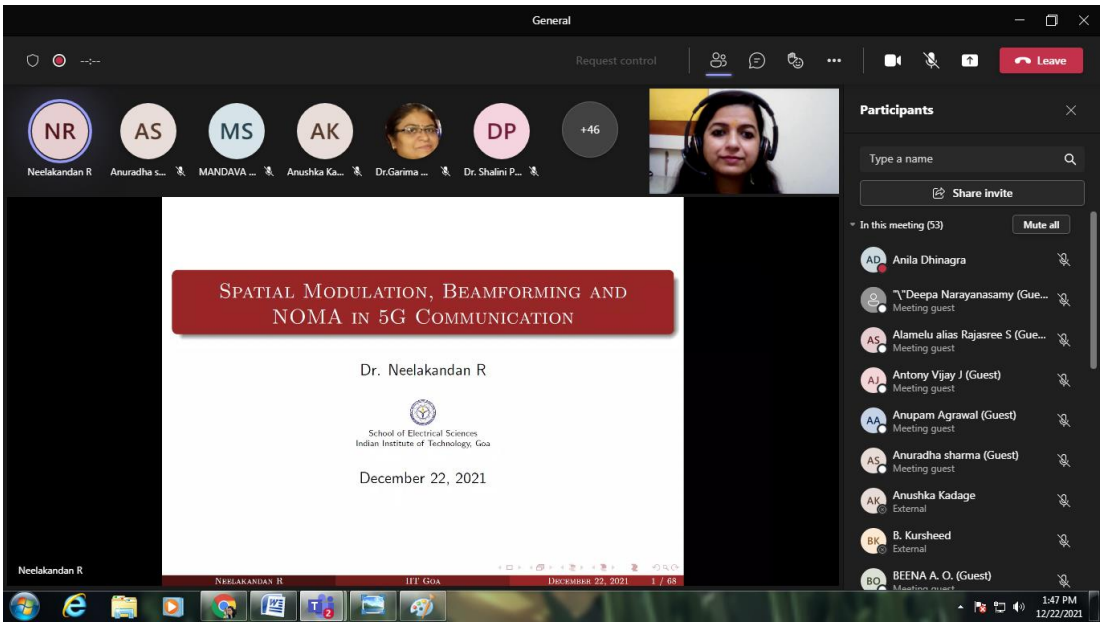
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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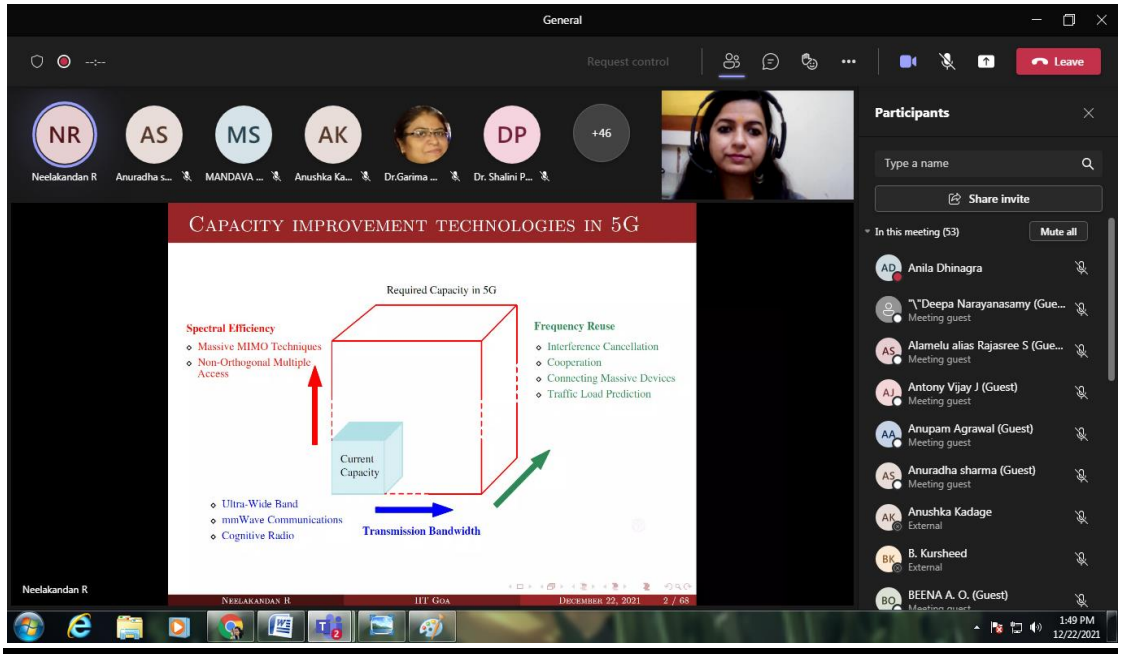
Day-2 22, December, 2021

Session -3

Title: Hybrid Beam forming and NOMA for mm Wave Communication in 5G

Speaker: Dr. Neelakandan Raja Mohan, IIT Goa





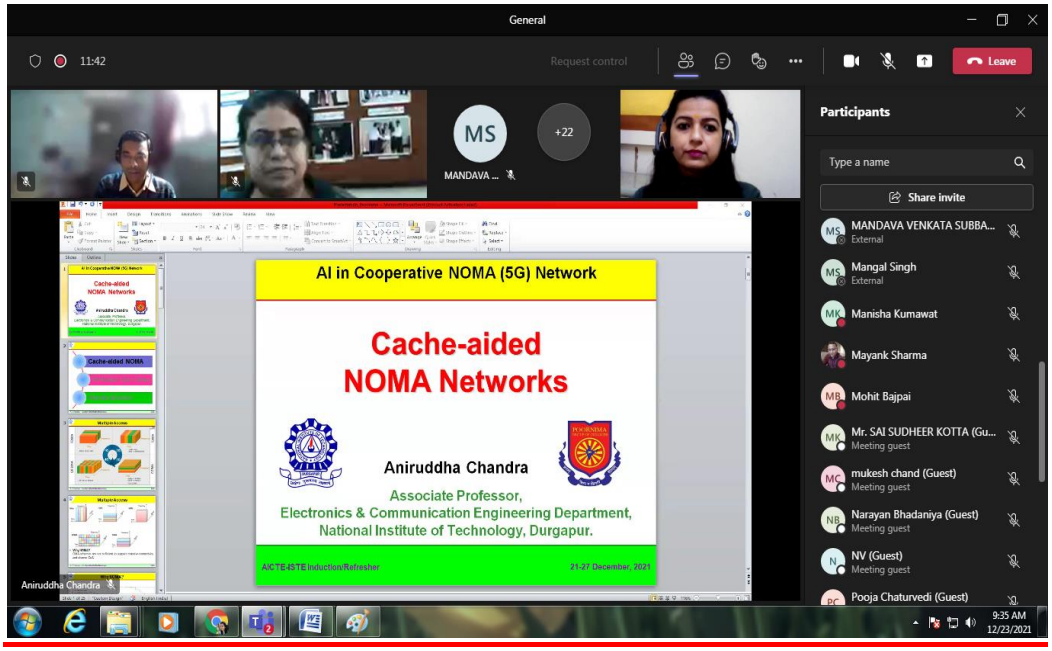
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Director
Poornima College of Engineering
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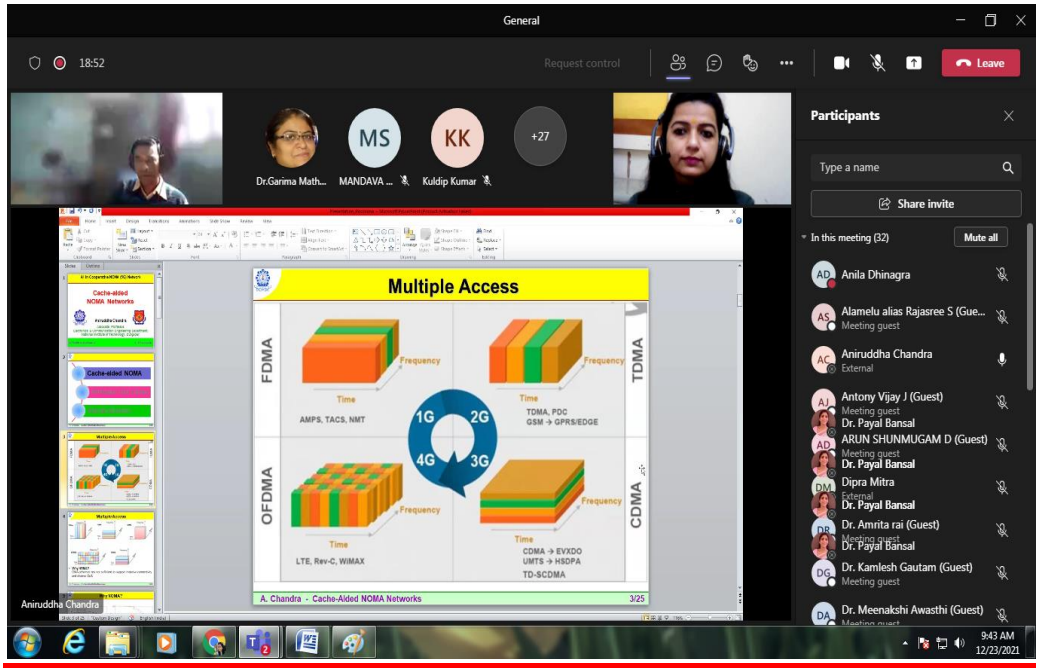
Day-3 23, December, 2021

Session -1

Title: Cache-Aided NOMA Networks

Speaker: Dr. Aniruddha Chandra, Associate Professor, NIT Durgapur





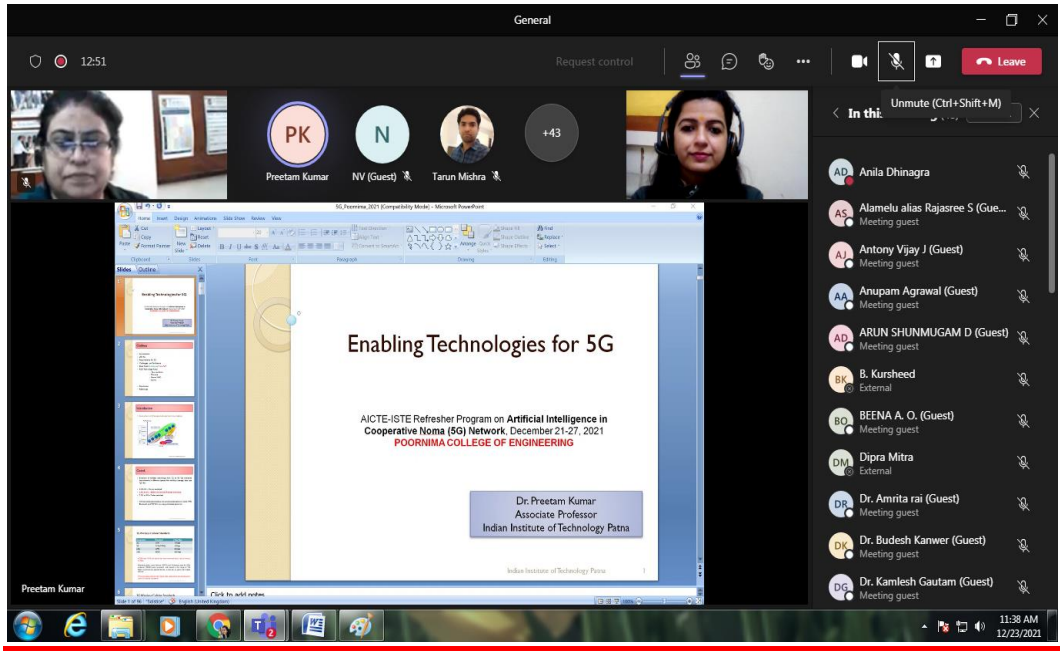
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B.E., M.E., Ph.D.
Director
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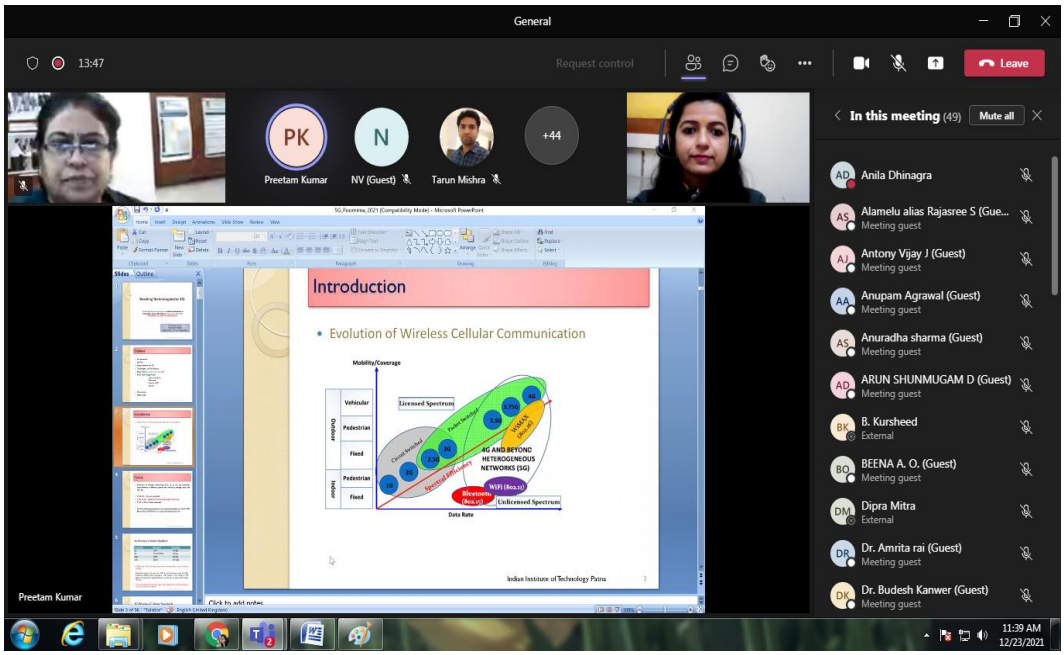
Day-3 23, December, 2021

Session -2

Title: Enabling Technologies for 5G.

Speaker: Dr. Preetam Kumar, Associate Professor, IIT Patna





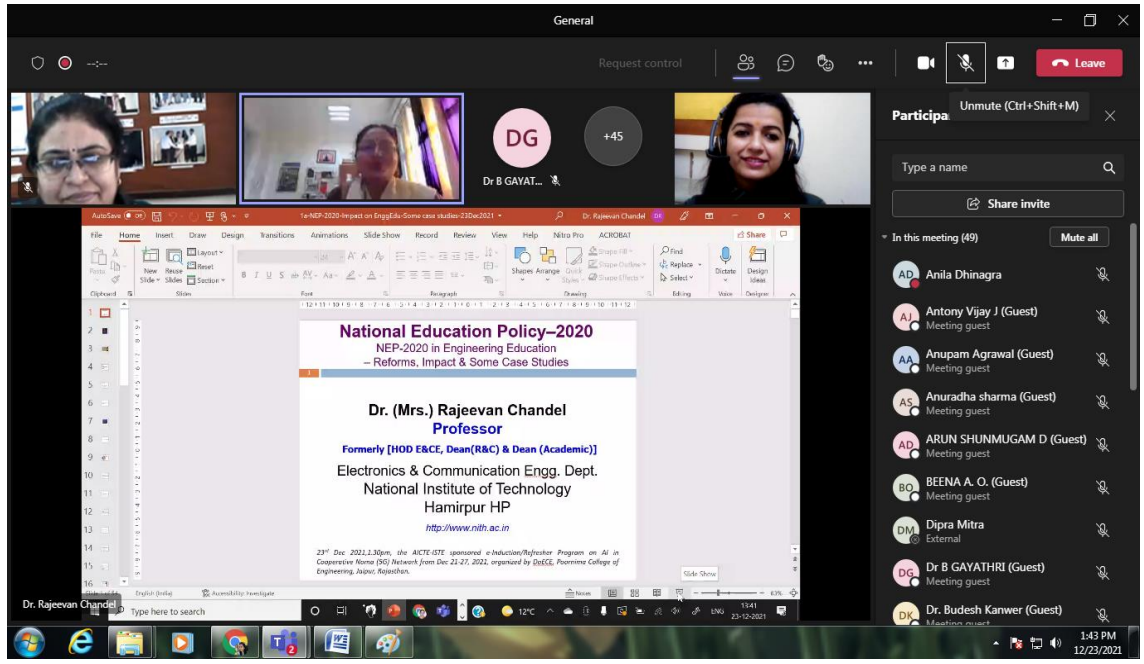
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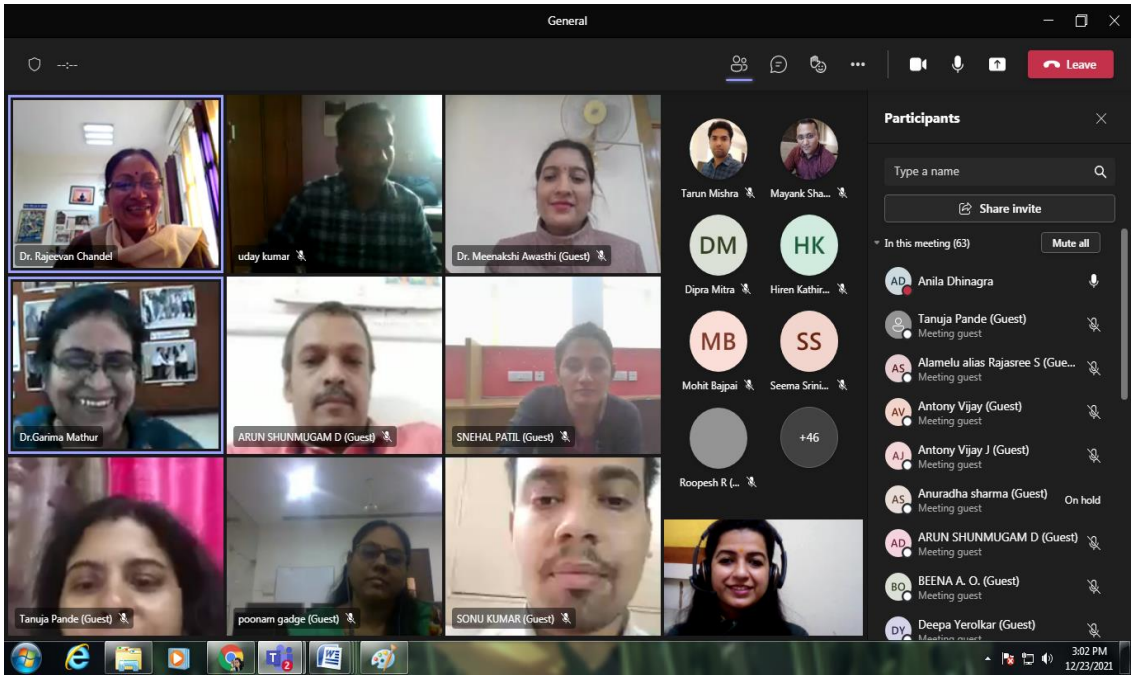
Day-3 23, December, 2021

Session -3

Title: National Education Policy-2020

Speaker: Prof. Rajeev a Chandel, Professor from NIT Hamirpur





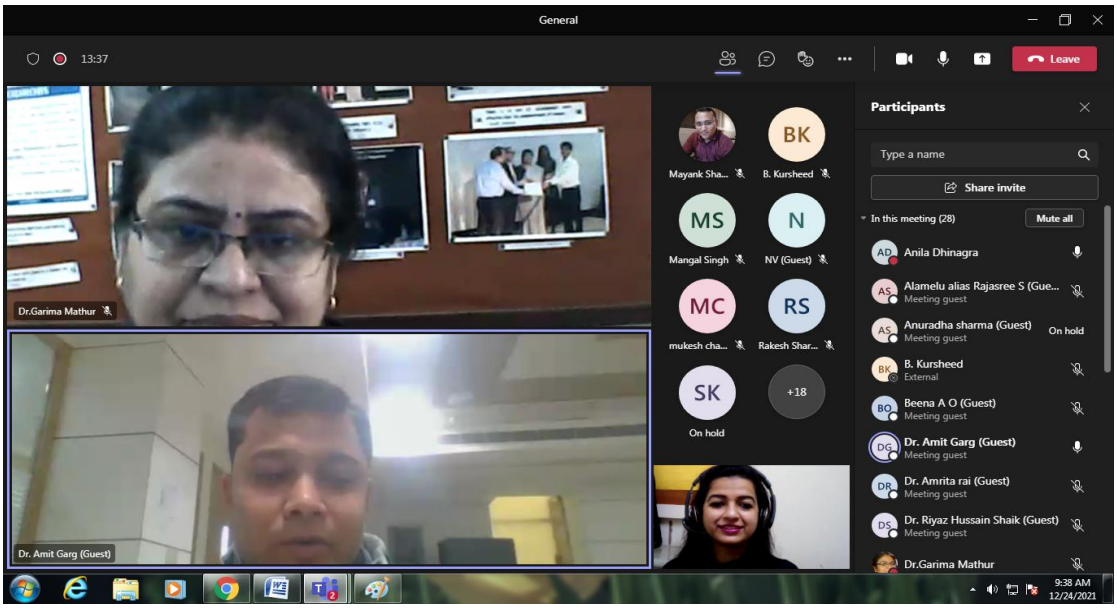
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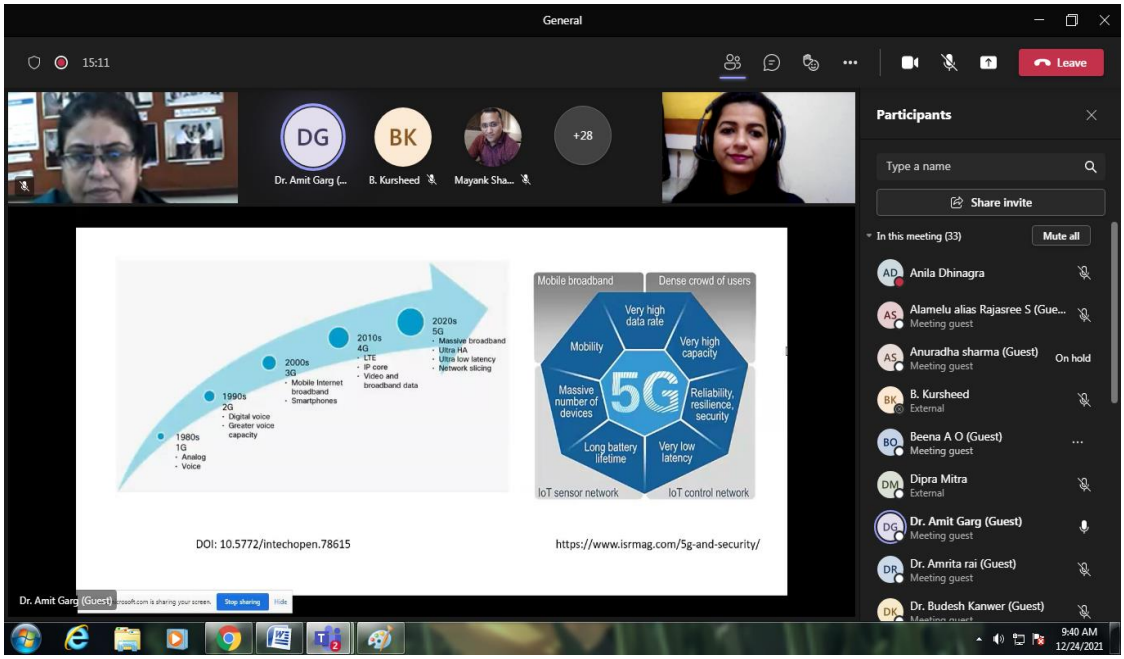
Day-4 24, December, 2021

Session -1

Title: Advanced Optical Networks for 5G and Beyond

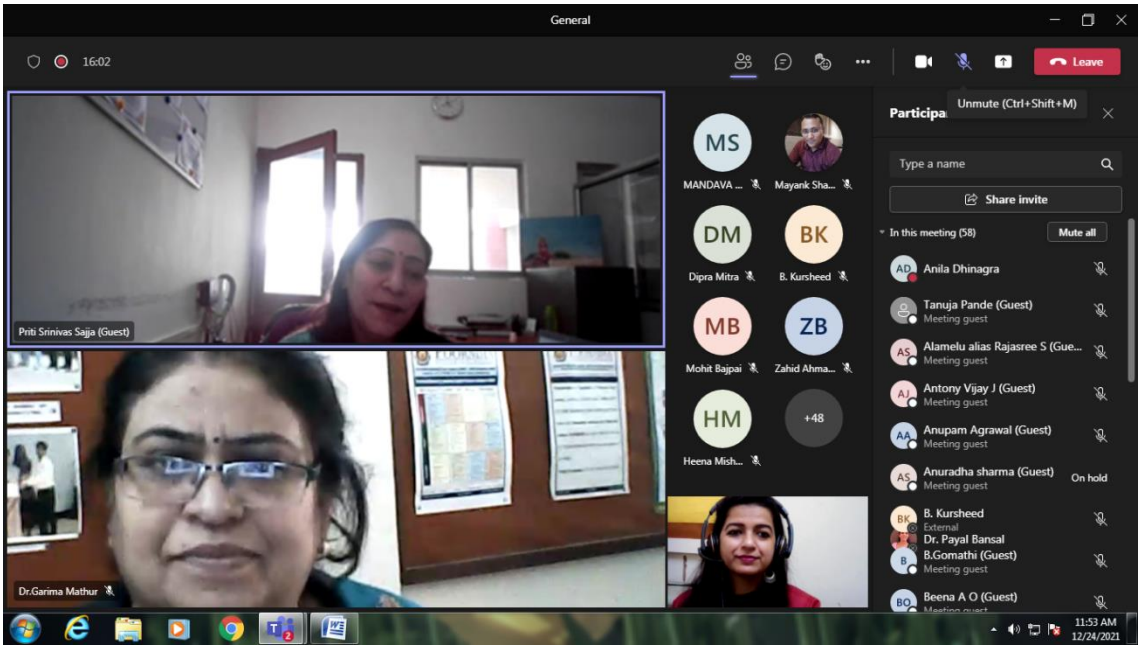
Speaker: Dr. Amit Kumar Garg, Assistant Professor, IIIT Kota

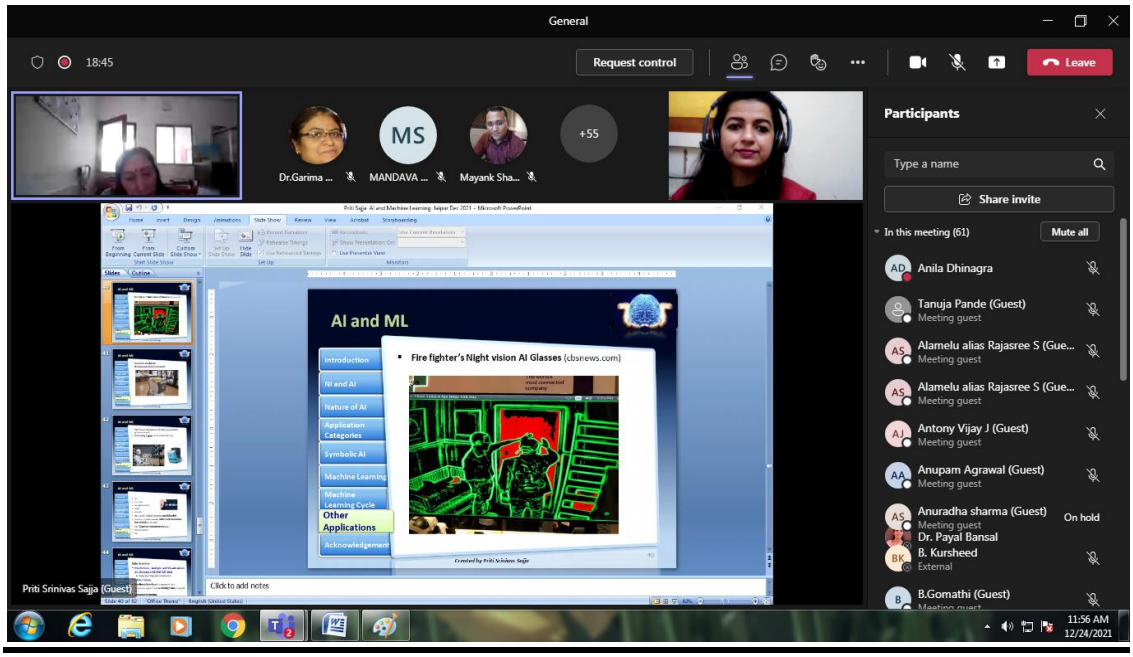




Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Day-4 24, December, 2021
Session -2
Title: Artificial Intelligence and Machine Learning.
Speaker: Dr. Priti Srinivas Sajja, Professor, Sardar Patel University





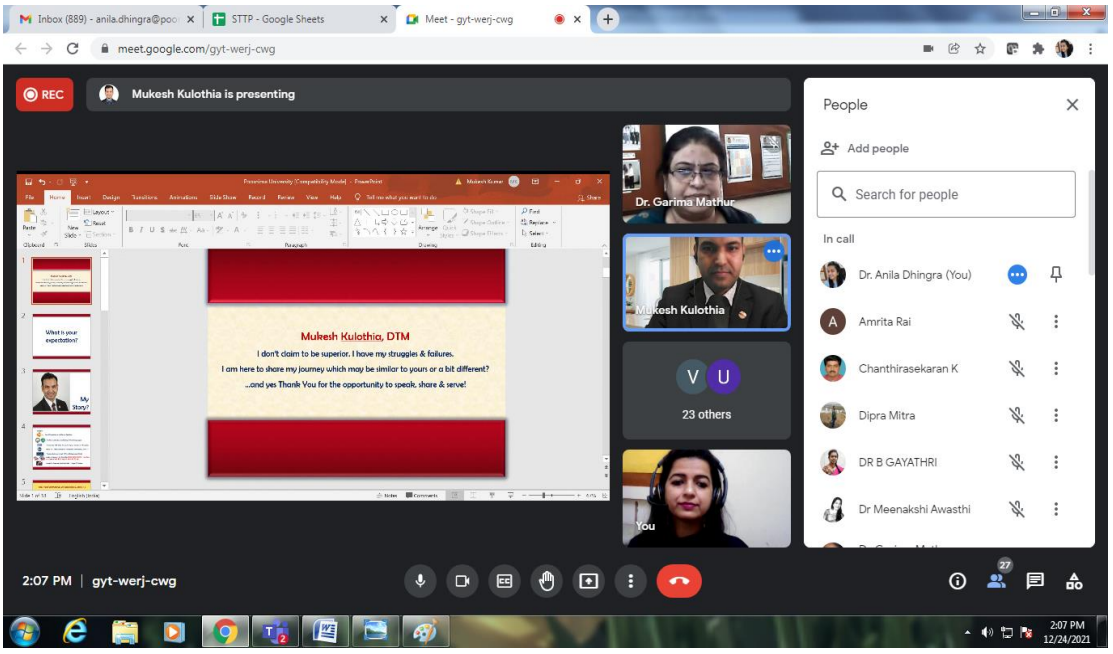
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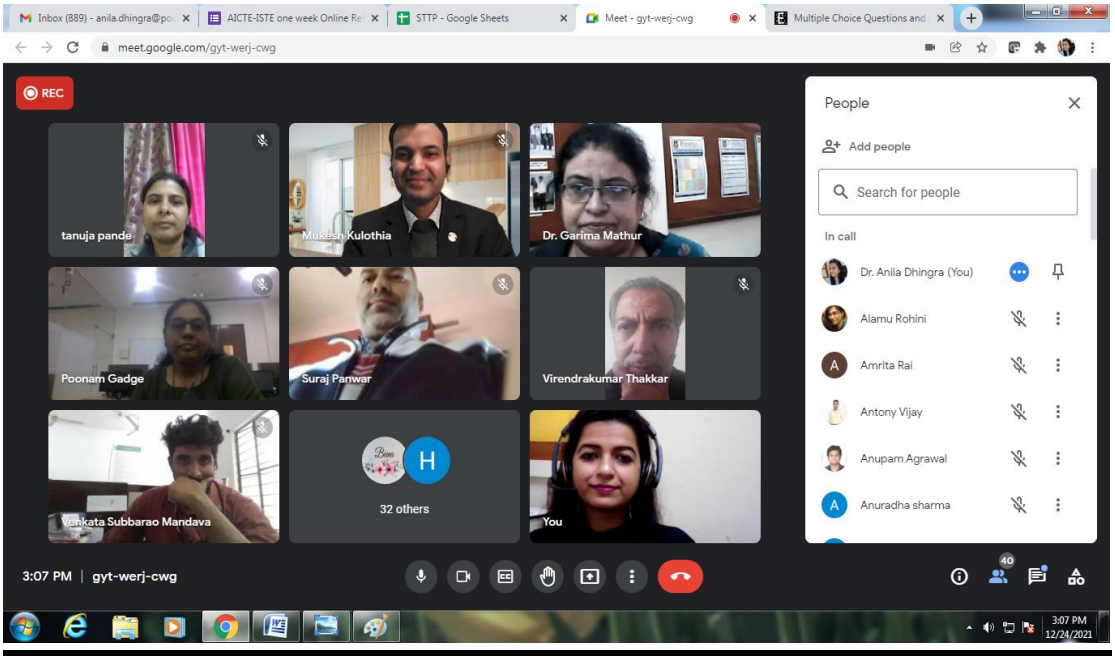
Day-4 24, December, 2021

Session -3

Title: How to Hustle without Hassle.

Speaker: Mr. Mukesh Kulothia, founder and Director from Muskurado.com





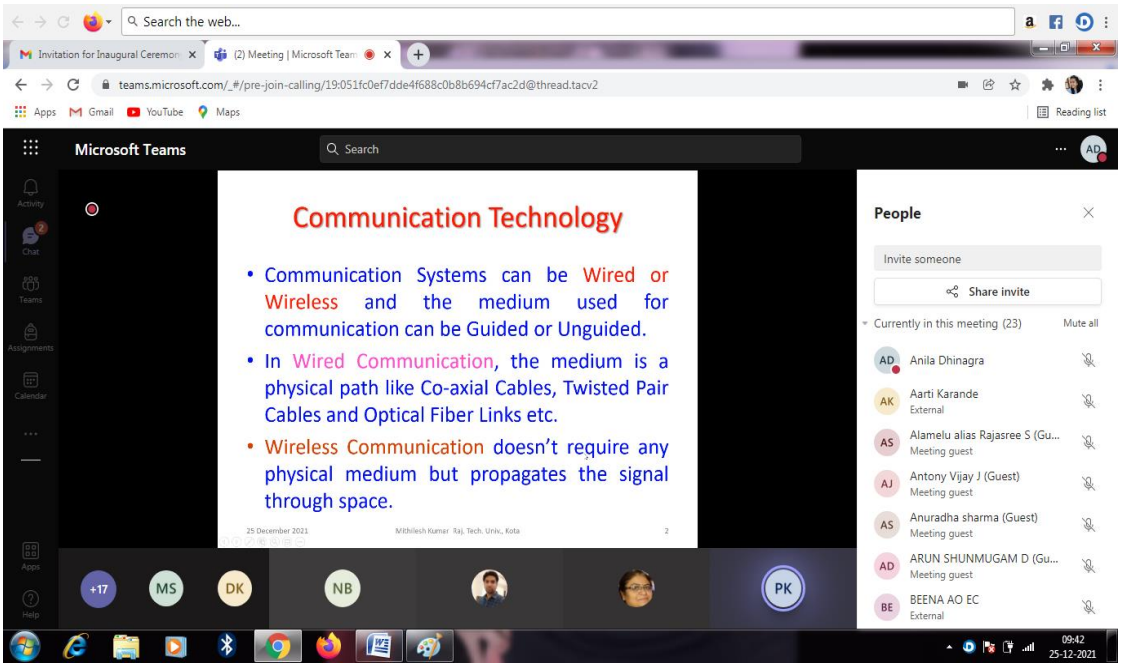
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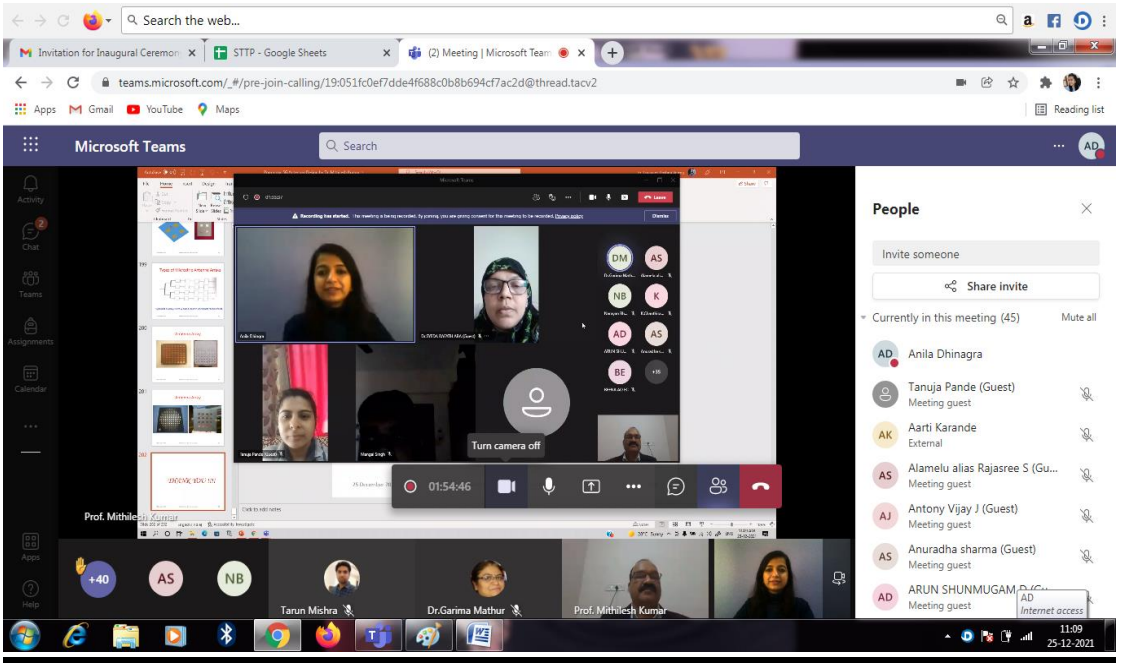
Day-5 25, December, 2021

Session -1

Title: 5G Antenna Design

Speaker: Dr. Mithilesh Kumar, Professor, RTU, Kota

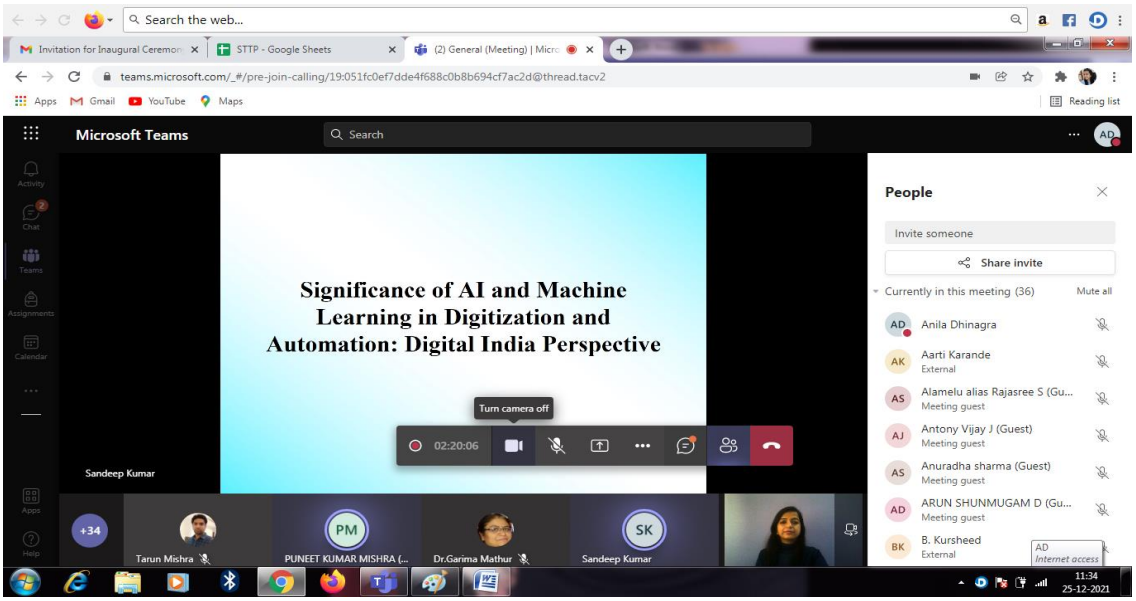


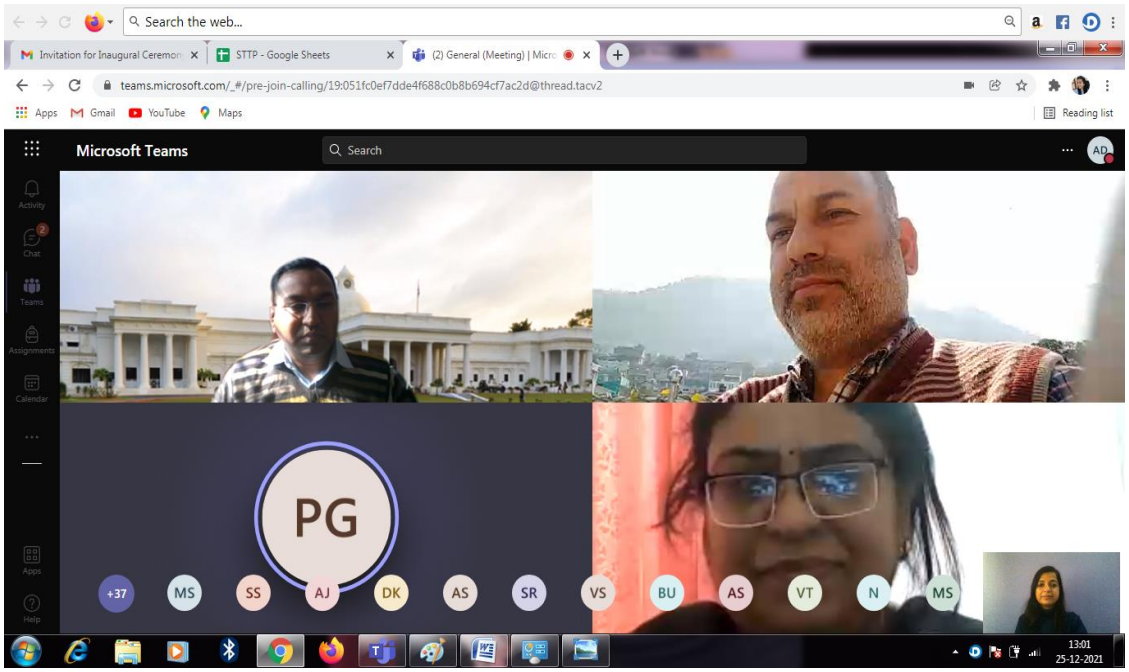


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Day-5 25, December, 2021
Session -2

Title: Role of Artificial Intelligence & Network Communication in Digitization: Digital India Perspective
Speaker: Dr. Sandeep Kumar, Associate Professor, IIT Roorkee





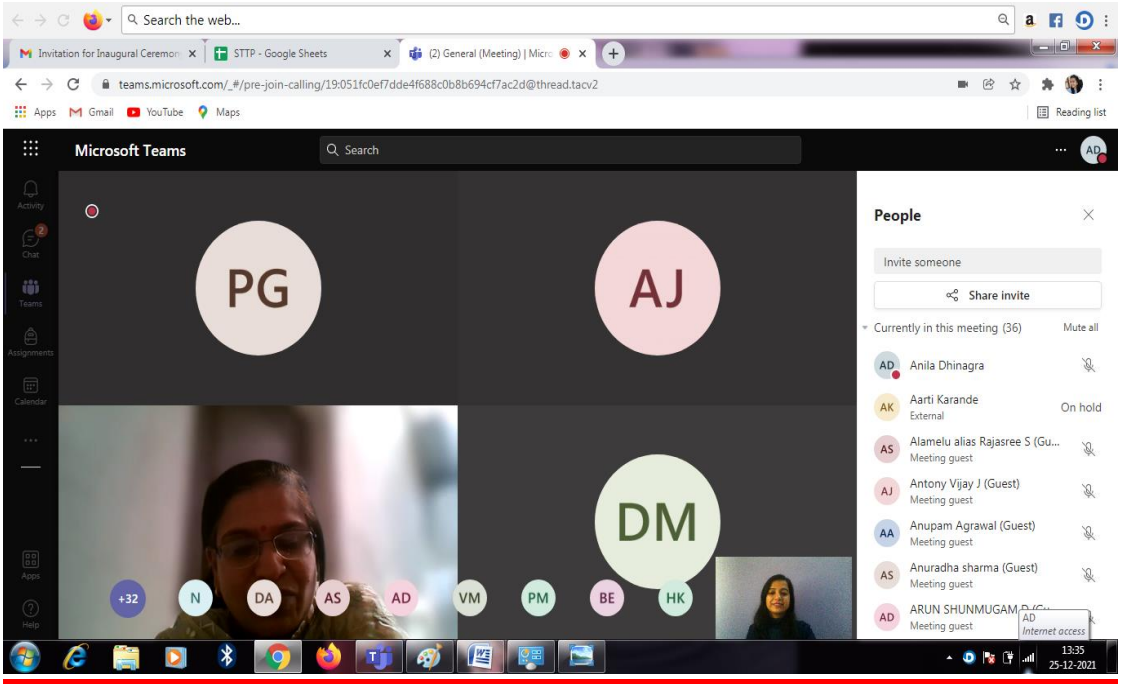
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Director
Poornima College of Engineering
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Sitapura, JAIPUR

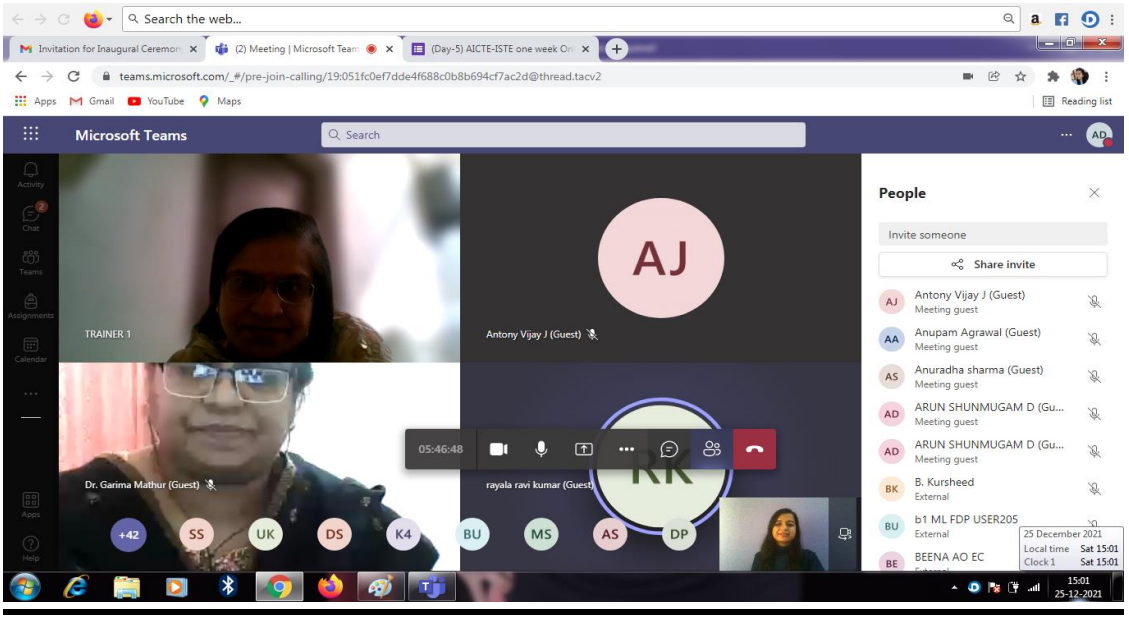
Day-5 25, December, 2021

Session -3

Title: Overview & Hands-On Power BI

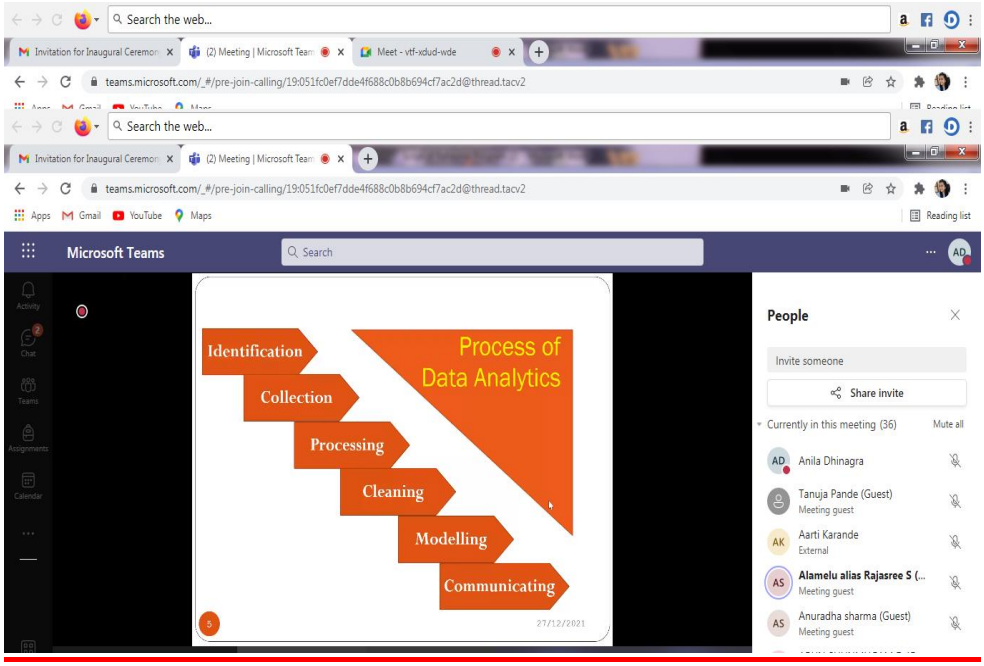
Speaker: Divya Mathur, Faculty Trainer, Amaze Heads, Mumbai





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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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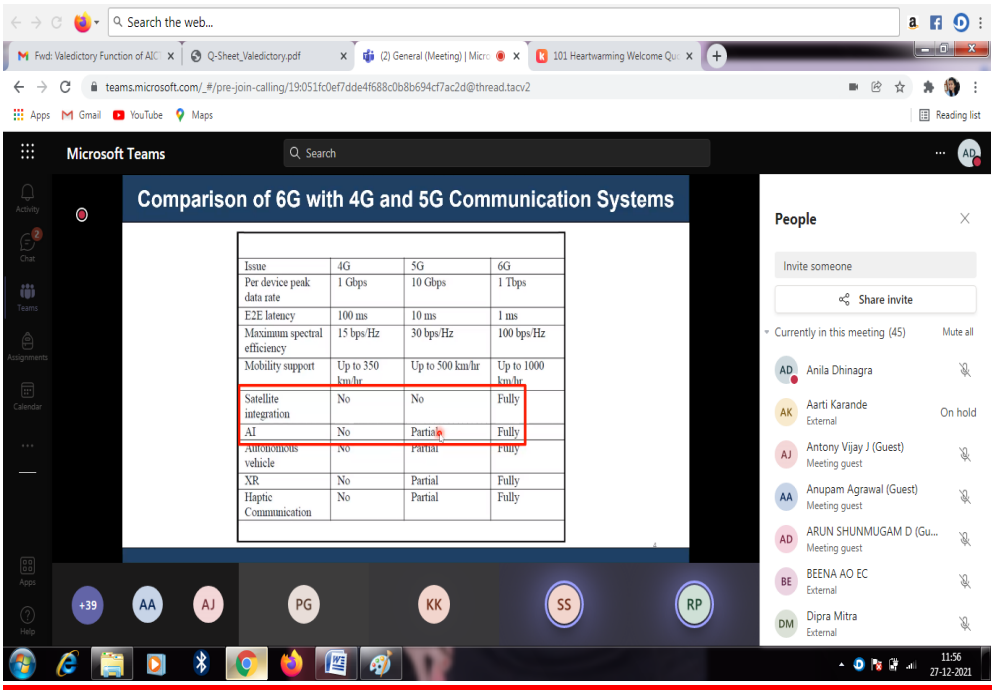
Day-6 27, December, 2021
Session -1
Title: Artificial Intelligence in Health Care
Speaker: Prashant K. Jamwal, Associate Professor, Nazarbayev University (NU), Astana, Kazakhstan.

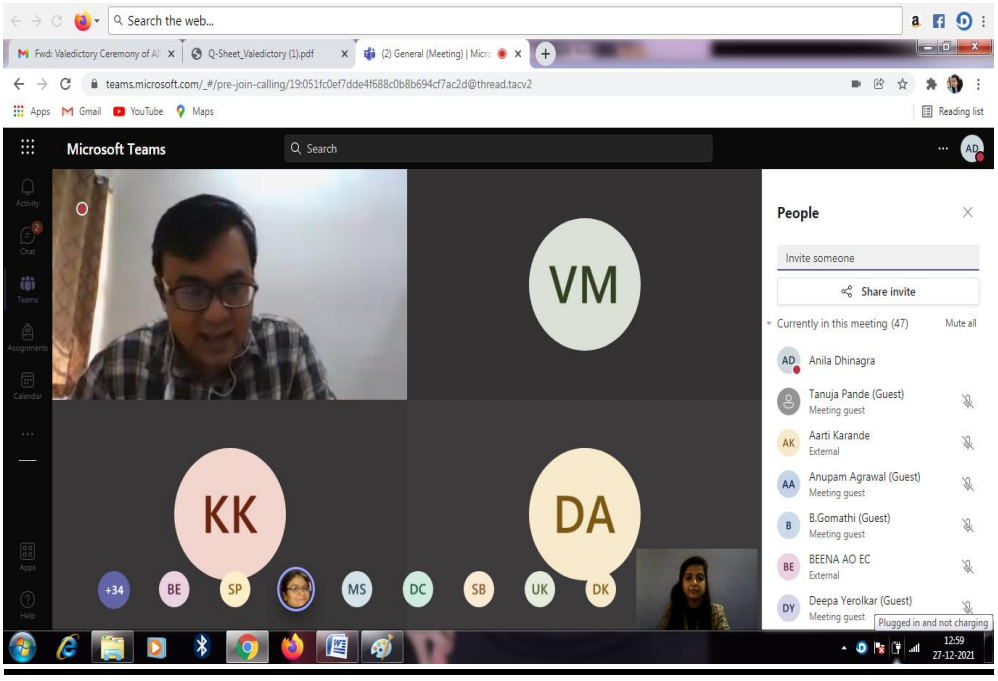




Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Day-6 27, December, 2021
Session -2
Title: 6G Vision, Potential Technologies, & Challenges
Speaker: Dr. Rahul Pandya, Assistant Professor, IIT Dharwad





Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Day-6 27, December, 2021

Valedictory Session

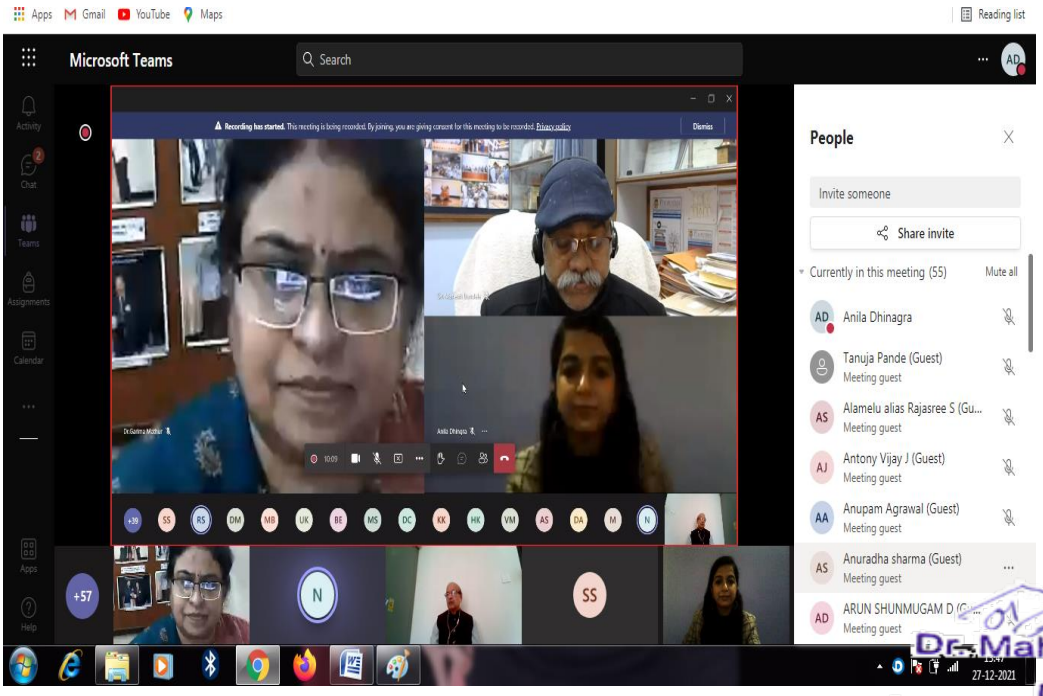
AICTE
Six Days Short Term Training Program
On
Artificial Intelligence & Cooperative Noma (5G) Network
December 21 - 27, 2021

Organized by
Department of Electronics & Communication Engineering,
Poornima College of Engineering, Jaipur

Date: December 27, 2021 Time: 03:30 PM - 04:00 PM
Venue: Online

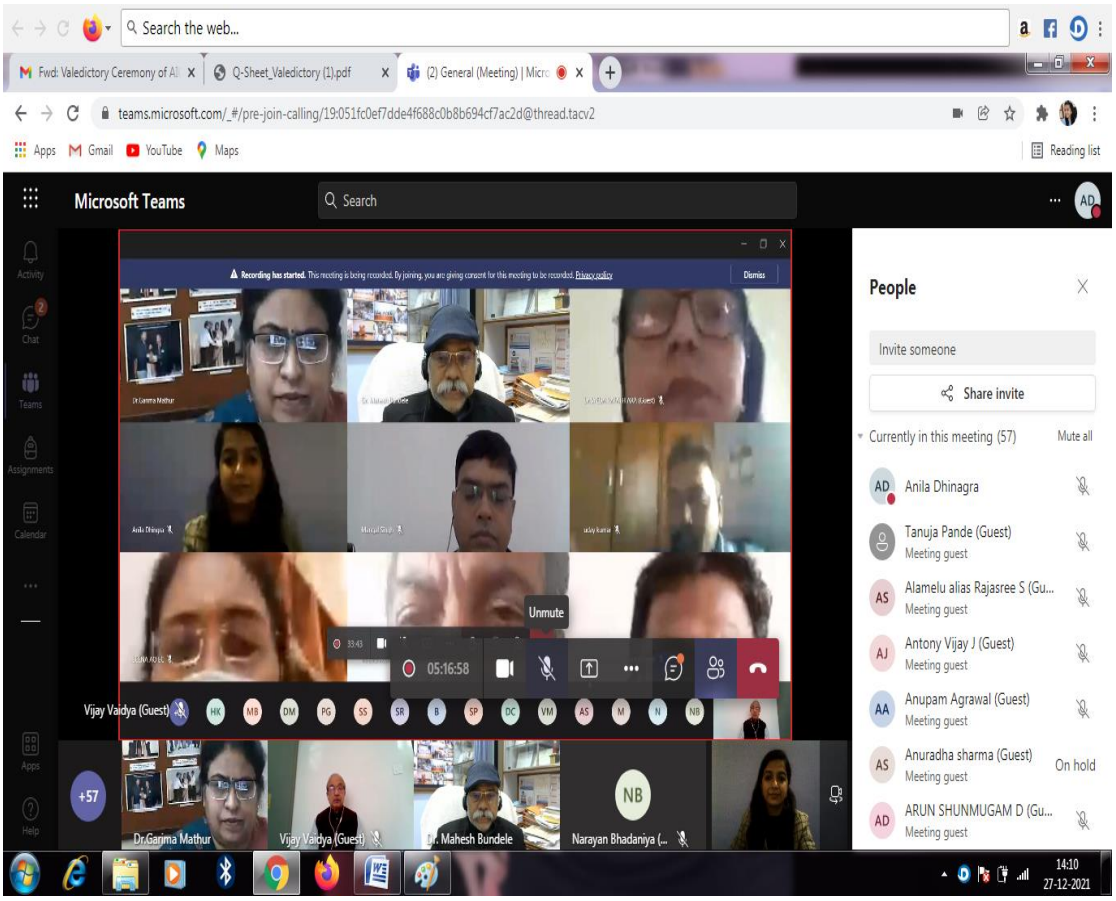
Q- Sheet Valedictory Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Refresher Program by Dr. Garima Mathur, Head & Professor ECE, PCE Dr. Pratapsinh Kakaso Desai, President, ISTE, (Chief Guest) Ar. Rahul Singhi, Director, Poornima Group Dr. Mahesh Bundele, Director & Principal, PCE Mr. Pankaj Dhemla, Vice Principal, PCE	05 Min	03:30 PM - 03:35 PM
2.	Welcome address by Dr. Mahesh Bundele, Director & Principal, PCE	05 Min	03:35 PM - 03:40 PM
3.	Motivational Words by Ar. Rahul Singhi, Director, Poornima Group	05 Min	03:40 PM - 03:45 PM
4.	Inaugural Address by Chief Guest Dr. Pratapsinh Kakaso Desai, President, ISTE.	10 Min	03:45 PM - 03:55 PM
5.	Vote of Thanks by Dr. Anila Dhingra, Associate Prof., ECE, PCE	05 Min	03:55 PM - 04:00 PM



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B.E., M.E., Ph.D.
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Group Photograph



- **List of Participants:**

Analysis of Assessments

S.No	Name	Day-1	Day-2	Day-3	Day-4	Day-5	Day-6	Eligible for certificate
1	Aarti karande	11.00 / 15	11.00 / 15	11.00 / 15	8.00 / 15	12.00 / 15	39.00 / 50	Eligible
2	Alamelu alias Rajasree S	12.00 / 15	12.00 / 15	14.00 / 15	10.00 / 15	12.00 / 15	37.00 / 50	Eligible
3	Amrita Rai	Not Attempted	12.00 / 15	10.00 / 15	11.00 / 15	3.00 / 15	38.00 / 50	Eligible
4	ANTONY VIJAY J	14.00 / 15	13.00 / 15	14.00 / 15	13.00 / 15	14.00 / 15	48.00 / 50	Eligible
5	Anupam Agrawal	12.00 / 15	12.00 / 15	12.00 / 15	10.00 / 15	11.00 / 15	39.00 / 50	Eligible
6	Anuradha Sharma	12.00 / 15	13.00 / 15	13.00 / 15	11.00 / 15	13.00 / 15	44.00 / 50	Eligible
7	ARUN SHUNMUGAM D	11.00 / 15	11.00 / 15	13.00 / 15	10.00 / 15	12.00 / 15	36.00 / 50	Eligible
8	B.Kursheed	11.00 / 15	12.00 / 15	9.00 / 15	10.00 / 15	9.00 / 15	39.00 / 50	Eligible
9	BEENA A O	11.00 / 15	11.00 / 15	12.00 / 15	8.00 / 15	12.00 / 15	49.00 / 50	Eligible
10	Ch Manohar Kumar	Not Attempted	10.00 / 15	8.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Eligible
11	Chandrakala.K	11.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Eligible
12	Dipra Mitra	9.00 / 15	11.00 / 15	7.00 / 15	11.00 / 15	6.00 / 15	39.00 / 50	Eligible
13	Dr B GAYATHRI	5.00 / 15	4.00 / 15	5.00 / 15	6.00 / 15	5.00 / 15	20.00 / 50	Not Eligible
14	Dr Pooja Chaturvedi	7.00 / 15	7.00 / 15	8.00 / 15	6.00 / 15	8.00 / 15	[illegible]	[illegible]
15	Dr Syeda Rafath Ara	7.00 / 15	10.00 / 15	11.00 / 15	11.00 / 15	11.00 / 15	42.00 / 50	Eligible

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16	Dr. Anushka Deepak Kadage	5.00 / 15	12.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Eligible
17	Dr. Budesh Kanwer	12.00 / 15	12.00 / 15	13.00 / 15	11.00 / 15	14.00 / 15	39.00 / 50	Eligible
18	Dr. Kamlesh Gautam	Not Attempted	12.00 / 15	13.00 / 15	8.00 / 15	13.00 / 15	40.00 / 50	Eligible
19	Dr. Kuldip Kumar	7.00 / 15	5.00 / 15	11.00 / 15	13.00 / 15	13.00 / 15	44.00 / 50	Eligible
20	Dr. Manjanaik. N	8.00 / 15	8.00 / 15	12.00 / 15	10.00 / 15	9.00 / 15	25.00 / 50	Not Eligible
21	Dr. Rajesh Bhatt	9.00 / 15	8.00 / 15	14.00 / 15	8.00 / 15	12.00 / 15	38.00 / 50	Eligible
22	Dr. Riyaz Hussain Shaik	15.00 / 15	13.00 / 15	14.00 / 15	13.00 / 15	14.00 / 15	47.00 / 50	Eligible
23	DR. SHALINI PURI	13.00 / 15	12.00 / 15	14.00 / 15	10.00 / 15	11.00 / 15	46.00 / 50	Eligible
24	Dr. Venkata Subbarao Mandava	13.00 / 15	13.00 / 15	11.00 / 15	12.00 / 15	15.00 / 15	50.00 / 50	Eligible
25	DR. VISHAL SHRIVASTAVA	7.00 / 15	8.00 / 15	8.00 / 15	12.00 / 15	11.00 / 15	42.00 / 50	Not Eligible
26	Dr.B.Gomathi	12.00 / 15	Not Attempted	14.00 / 15	10.00 / 15	12.00 / 15	42.00 / 50	Eligible
27	Dr.M.Ayyadurai	10.00 / 15	10.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Eligible
28	GAJULA SRI VENKATA RAMA ABHISHEK	9.00 / 15	5.00 / 15	4.00 / 15	9.00 / 15	2.00 / 15	24.00 / 50	Not Eligible
29	Heena Mishra	12.00 / 15	12.00 / 15	12.00 / 15	10.00 / 15	10.00 / 15	39.00 / 50	Eligible
30	Hg	3.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Eligible
31	Hiren Kathiriya	15.00 / 15	12.00 / 15	14.00 / 15	11.00 / 15	13.00 / 15	44.00 / 50	Eligible
32	Jaya Dipti lal	12.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Eligible
33	K.Chanthirasekaran	13.00 / 15	13.00 / 15	14.00 / 15	9.00 / 15	12.00 / 15	38.00 / 50	Eligible
34	KALIYAPPAN R	13.00 / 15	13.00 / 15	8.00 / 15	9.00 / 15	10.00 / 15	40.00 / 50	Eligible
35	Kaustubh Ranjan Singh	Not Attempted	7.00 / 15	7.00 / 15	11.00 / 15	Not Attempted	26.00 / 50	Not Eligible
36	KUMAR AMRENDRA	12.00 / 15	12.00 / 15	13.00 / 15	11.00 / 15	13.00 / 15	27.00 / 50	Not Eligible
37	Mangal Singh	7.00 / 15	7.00 / 15	8.00 / 15	10.00 / 15	7.00 / 15	37.00 / 50	Not Eligible
38	Manisha Kumawat	Not Attempted	9.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Eligible
39	Maria Christina Blessy A	12.00 / 15	14.00 / 15	14.00 / 15	10.00 / 15	15.00 / 15	45.00 / 50	Eligible
40	Meenakshi Awasthi	6.00 / 15	11.00 / 15	12.00 / 15	11.00 / 15	5.00 / 15	20.00 / 50	Not Eligible
41	Mohit Bajpai	8.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	47.00 / 50	Not Eligible
42	Mr. SAI SUDHEER KOTTA	14.00 / 15	11.00 / 15	14.00 / 15	12.00 / 15	13.00 / 15	49.00 / 50	Eligible
43	Mr.DHUPAM ARUN KUMAR	9.00 / 15	6.00 / 15	Not Attempted	7.00 / 15	12.00 / 15	44.00 / 50	Not Eligible
44	Mrs Poonam Gadge	Not Attempted	12.00 / 15	13.00 / 15	11.00 / 15	13.00 / 15	41.00 / 50	Eligible
45	Mrs.Deepa Manoj Patki	12.00 / 15	Not Attempted	14.00 / 15	10.00 / 15	Not Attempted	44.00 / 50	Eligible
46	Ms.Deepa Jivanrao Yerolkar	Not Attempted	12.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Eligible
47	Munish Vijay	15.00 / 15	13.00 / 15	13.00 / 15	10.00 / 15	13.00 / 15	42.00 / 50	Eligible
48	Nandhini varadharajan	12.00 / 15	12.00 / 15	13.00 / 15	12.00 / 15	13.00 / 15	47.00 / 50	Eligible
49	Narayan Bhadaniya	12.00 / 15	10.00 / 15	10.00 / 15	12.00 / 15	12.00 / 15	47.00 / 50	Eligible
50	NARESH SURABU	11.00 / 15	10.00 / 15	10.00 / 15	12.00 / 15	11.00 / 15	42.00 / 50	Eligible
51	Pallavi Sapkale	8.00 / 15	6.00 / 15	8.00 / 15	Not Attempted	Not Attempted	36.00 / 50	Not Eligible
52	Partha Sarathi Padhy	7.00 / 15	Not Attempted	6.00 / 15	Not Attempted	Not Attempted	25.00 / 50	Not Eligible
53	Prasuna Kantamaneni	13.00 / 15	13.00 / 15	13.00 / 15	9.00 / 15	14.00 / 15	43.00 / 50	Eligible
54	Puneet Kumar Mishra	Not Attempted	12.00 / 15	10.00 / 15	11.00 / 15	Not Attempted	Not Attempted	Not Eligible
55	Rajesh Gupta	12.00 / 15	9.00 / 15	13.00 / 15	10.00 / 15	Not Attempted	41.00 / 50	Eligible
56	Rakesh Sharma	11.00 / 15	13.00 / 15	12.00 / 15	12.00 / 15	12.00 / 15	[illegible]	[illegible]

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

57	RAYALA RAVI KUMAR	11.00 / 15	9.00 / 15	14.00 / 15	12.00 / 15	9.00 / 15	39.00 / 50	Eligible
58	Reena Sharma	11.00 / 15	12.00 / 15	13.00 / 15	10.00 / 15	10.00 / 15	36.00 / 50	Eligible
59	RUCHI VARSHNEY	12.00 / 15	13.00 / 15	15.00 / 15	13.00 / 15	14.00 / 15	46.00 / 50	Eligible
60	S J Sreeram Pullakavi	14.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Attempted	Not Eligible
61	seema srinivas	13.00 / 15	12.00 / 15	14.00 / 15	12.00 / 15	14.00 / 15	45.00 / 50	Eligible
62	Sheetal Ashokrao Wadhai	11.00 / 15	Not Attempted	9.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Eligible
63	Shivani Vora	7.00 / 15	Not Attempted	14.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Eligible
64	sneha	6.00 / 15	9.00 / 15	6.00 / 15	8.00 / 15	9.00 / 15	32.00 / 50	Not Eligible
65	SNEHAL PATIL	10.00 / 15	13.00 / 15	14.00 / 15	13.00 / 15	14.00 / 15	42.00 / 50	Eligible
66	SONU KUMAR	12.00 / 15	10.00 / 15	5.00 / 15	10.00 / 15	8.00 / 15	36.00 / 50	Eligible
67	Srinivas Ramacharya	11.00 / 15	13.00 / 15	9.00 / 15	13.00 / 15	10.00 / 15	37.00 / 50	Eligible
68	Srinivasa Yeshwanth G	7.00 / 15	13.00 / 15	Not Attempted	Not Attempted	Not Attempted	22.00 / 50	Not Eligible
69	Suganthi Santhanam	12.00 / 15	Not Attempted	Not Attempted	9.00 / 15	12.00 / 15	41.00 / 50	Eligible
70	Suman Kumar Biswas	12.00 / 15	11.00 / 15	13.00 / 15	10.00 / 15	9.00 / 15	34.00 / 50	Eligible
71	Suraj Singh Panwar	7.00 / 15	13.00 / 15	14.00 / 15	9.00 / 15	13.00 / 15	45.00 / 50	Eligible
72	Tanuja Pande	9.00 / 15	12.00 / 15	11.00 / 15	11.00 / 15	13.00 / 15	35.00 / 50	Eligible
73	UDAYA KUMAR AMBATI	13.00 / 15	13.00 / 15	14.00 / 15	13.00 / 15	14.00 / 15	47.00 / 50	Eligible
74	Vigneshwar Manoharan	12.00 / 15	12.00 / 15	13.00 / 15	12.00 / 15	13.00 / 15	48.00 / 50	Eligible
75	VIRENDRAKUMAR M. THAKKAR	13.00 / 15	13.00 / 15	12.00 / 15	9.00 / 15	12.00 / 15	44.00 / 50	Eligible
76	Vishakha Gaikwad	Not Attempted	12.00 / 15	13.00 / 15	11.00 / 15	Not Attempted	Not Attempted	Not Eligible
77	Zahid Ahmad Bhat	14.00 / 15	12.00 / 15	14.00 / 15	12.00 / 15	13.00 / 15	46.00 / 50	Eligible
78	Nagaraj M. Lutimath	Not Attempted	Not Attempted	14.00 / 15	Not Attempted	Not Attempted	Not Attempted	Not Eligible
79	Dr. Sasikumar Gurumoorthy	Not Attempted	Not Attempted	Not Attempted	4.00 / 15	2.00 / 15	16.00 / 50	Not Eligible

List of Eligible Candidates

S. NO	NAME	CERTIFICATE CRITERIA
1	AARTI KARANDE	ELIGIBLE
2	ALAMELU ALIAS RAJASREE S	ELIGIBLE
3	AMRITA RAI	ELIGIBLE
4	ANTONY VIJAY J	ELIGIBLE
5	ANUPAM AGRAWAL	ELIGIBLE
6	ANURADHA SHARMA	ELIGIBLE
7	ARUN SHUNMUGAM D	ELIGIBLE
8	B.KURSHEED	ELIGIBLE
9	BEENA A O	ELIGIBLE
10	DIPRA MITRA	ELIGIBLE
11	DR SYEDA RAFATH ARA	ELIGIBLE
12	DR. BUDESH KANWER	ELIGIBLE
13	DR. KAMLESH GAUTAM	ELIGIBLE
14	DR. KULDIP KUMAR	ELIGIBLE
15	DR. RAJESH BHATT	ELIGIBLE
16	DR. RIYAZ HUSSAIN SHAIK	ELIGIBLE
17	DR. SHALINI PURI	ELIGIBLE
18	DR. VENKATA SUBBARAO MANDAVA	ELIGIBLE

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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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19	DR.B.GOMATHI	ELIGIBLE
20	HEENA MISHRA	ELIGIBLE
21	HIREN KATHIRIYA	ELIGIBLE
22	K.CHANTHIRASEKARAN	ELIGIBLE
23	KALIYAPPAN R	ELIGIBLE
24	MARIA CHRISTINA BLESSY A	ELIGIBLE
25	MR. SAI SUDHEER KOTTA	ELIGIBLE
26	MRS POONAM GADGE	ELIGIBLE
27	MRS.DEEPA MANOJ PATKI	ELIGIBLE
28	MUNISH VIJAY	ELIGIBLE
29	NANDHINI VARADHARAJAN	ELIGIBLE
30	NARAYAN BHADANIYA	ELIGIBLE
31	NARESH SURABU	ELIGIBLE
32	PRASUNA KANTAMANENI	ELIGIBLE
33	RAJESH GUPTA	ELIGIBLE
34	RAKESH SHARMA	ELIGIBLE
35	RAYALA RAVI KUMAR	ELIGIBLE
36	REENA SHARMA	ELIGIBLE
37	RUCHI VARSHNEY	ELIGIBLE
38	SEEMA SRINIVAS	ELIGIBLE
39	SNEHAL PATIL	ELIGIBLE
40	SONU KUMAR	ELIGIBLE
41	SRINIVAS RAMACHARYA	ELIGIBLE
42	SUGANTHI SANTHANAM	ELIGIBLE
43	SUMAN KUMAR BISWAS	ELIGIBLE
44	SURAJ SINGH PANWAR	ELIGIBLE
45	TANUJA PANDE	ELIGIBLE
46	UDAYA KUMAR AMBATI	ELIGIBLE
47	VIGNESHWAR MANOHARAN	ELIGIBLE
48	VIRENDRAKUMAR M. THAKKAR	ELIGIBLE
49	ZAHID AHMAD BHAT	ELIGIBLE

List of Non Eligible Candidates

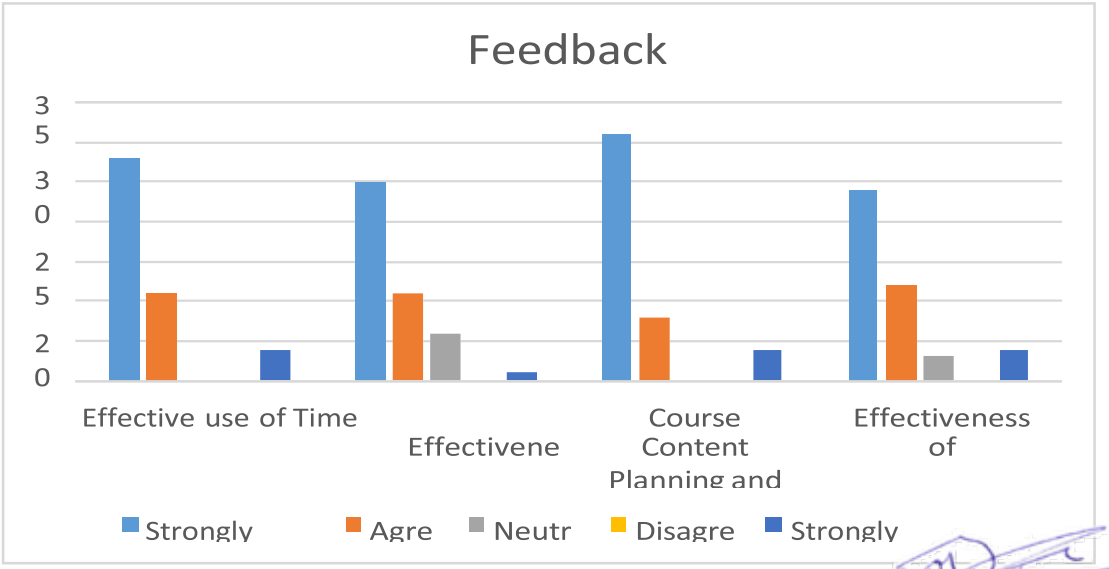
S.NO	NAME	CERTIFICATE CRITERIA
1	CH MANOHAR KUMAR	NOT ELIGIBLE
2	CHANDRAKALA.K	NOT ELIGIBLE
3	DR B GAYATHRI	NOT ELIGIBLE
4	DR POOJA CHATURVEDI	NOT ELIGIBLE
5	DR. ANUSHKA DEEPAK KADAGE	NOT ELIGIBLE
6	DR. MANJANAIK. N	NOT ELIGIBLE
7	DR. VISHAL SHRIVASTAVA	NOT ELIGIBLE
8	DR.M.AYYADURAI	NOT ELIGIBLE
9	GAJULA SRI VENKATA RAMA ABHISHEK	NOT ELIGIBLE
10	HG	NOT ELIGIBLE
11	JAYA DIPTI LAL	NOT ELIGIBLE
12	KAUSTUBH RANJAN SINGH	NOT ELIGIBLE

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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13	KUMAR AMRENDRA	NOT ELIGIBLE
14	MANGAL SINGH	NOT ELIGIBLE
15	MANISHA KUMAWAT	NOT ELIGIBLE
16	MEENAKSHI AWASTHI	NOT ELIGIBLE
17	MOHIT BAJPAI	NOT ELIGIBLE
18	MR.DHUPAM ARUN KUMAR	NOT ELIGIBLE
19	MS.DEEPA JIVANRAO YEROLKAR	NOT ELIGIBLE
20	PALLAVI SAPKALE	NOT ELIGIBLE
21	PARTHA SARATHI PADHY	NOT ELIGIBLE
22	PUNEET KUMAR MISHRA	NOT ELIGIBLE
23	S J SREERAM PULLAKAVI	NOT ELIGIBLE
24	SHEETAL ASHOKRAO WADHAI	NOT ELIGIBLE
25	SHIVANI VORA	NOT ELIGIBLE
26	SNEHA	NOT ELIGIBLE
27	SRINIVASA YESHWANTH G	NOT ELIGIBLE
28	VISHAKHA GAIKWAD	NOT ELIGIBLE
29	NAGARAJ M. LUTIMATH	NOT ELIGIBLE
30	DR. SASIKUMAR GURUMOORTHY	NOT ELIGIBLE

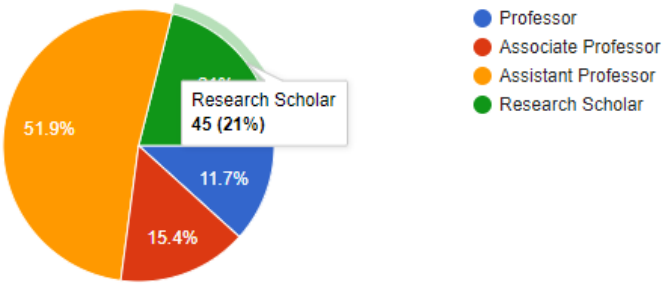
- **FEEDBACK ANALYSIS:**

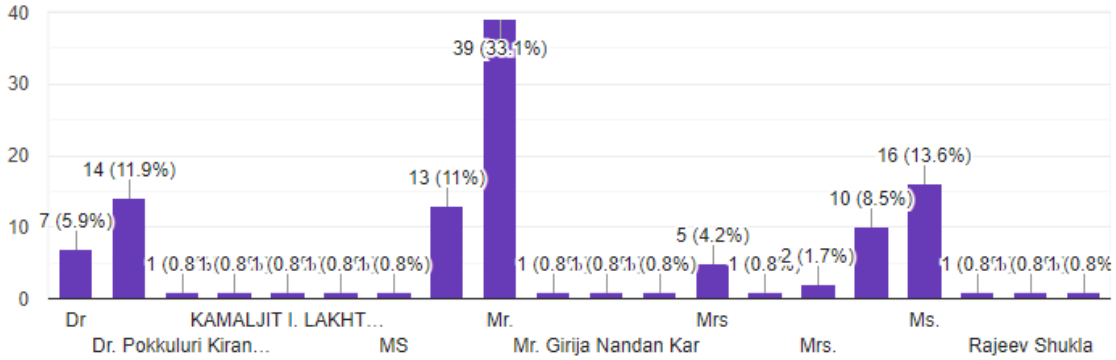
	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands on Sessions
Strongly Agree	28	25	31	24
Agree	11	11	8	12
Neutral	0	6	0	3
Disagree	0	0	0	0
Strongly Disagree	4	1	4	4

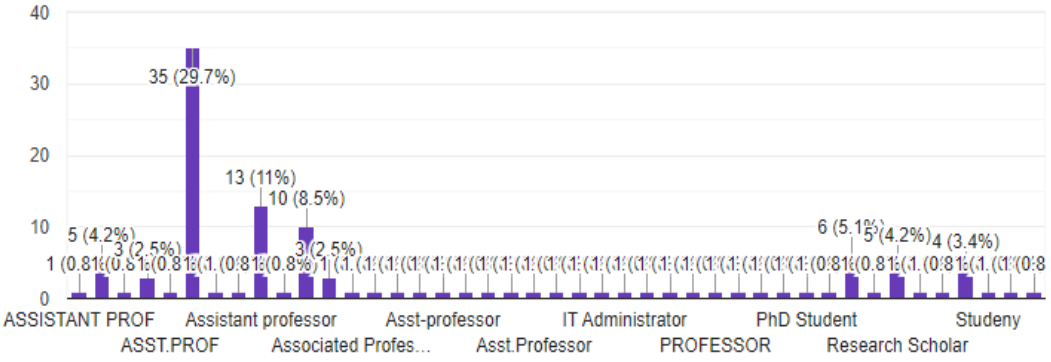


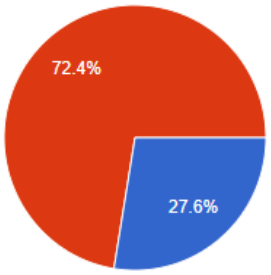
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

- **SWOT ANALYSIS:**











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

POORNIMA
COLLEGE OF ENGINEERING

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

A Report on 5-days Short Term Training 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

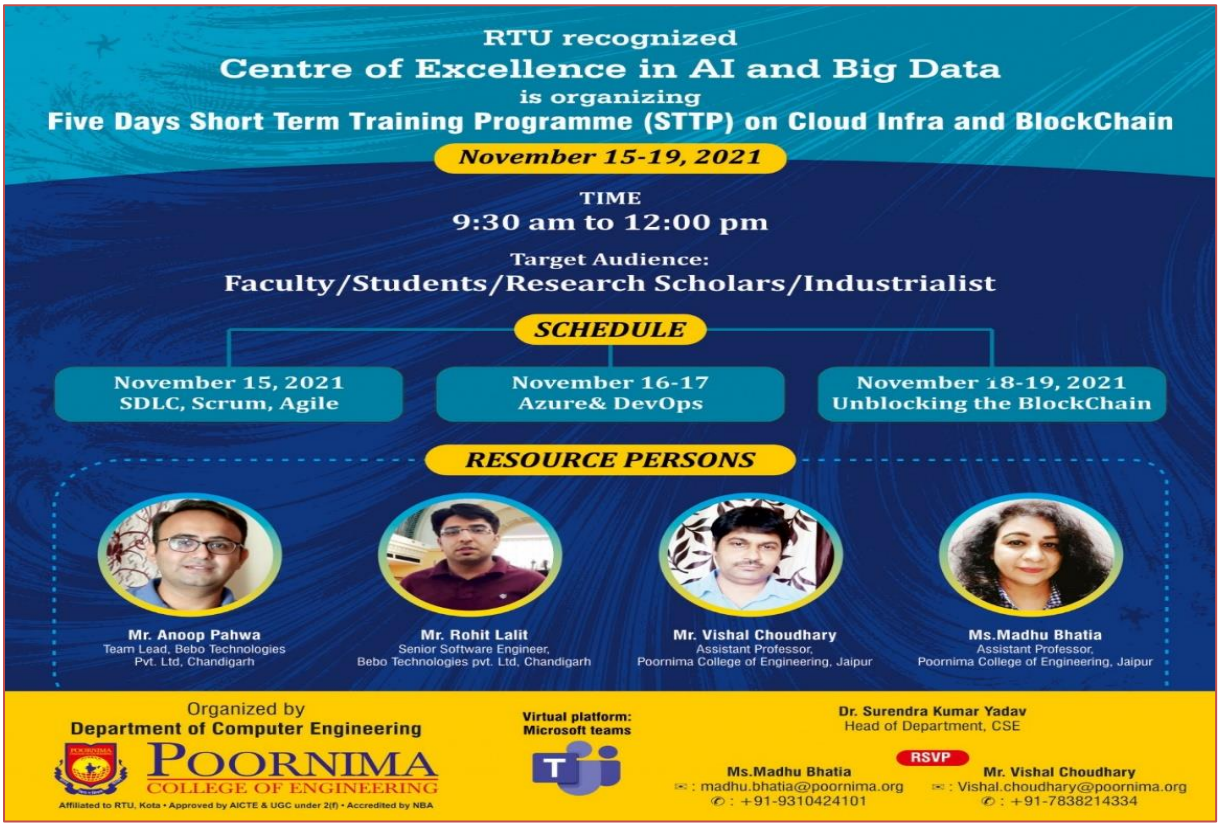
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

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.

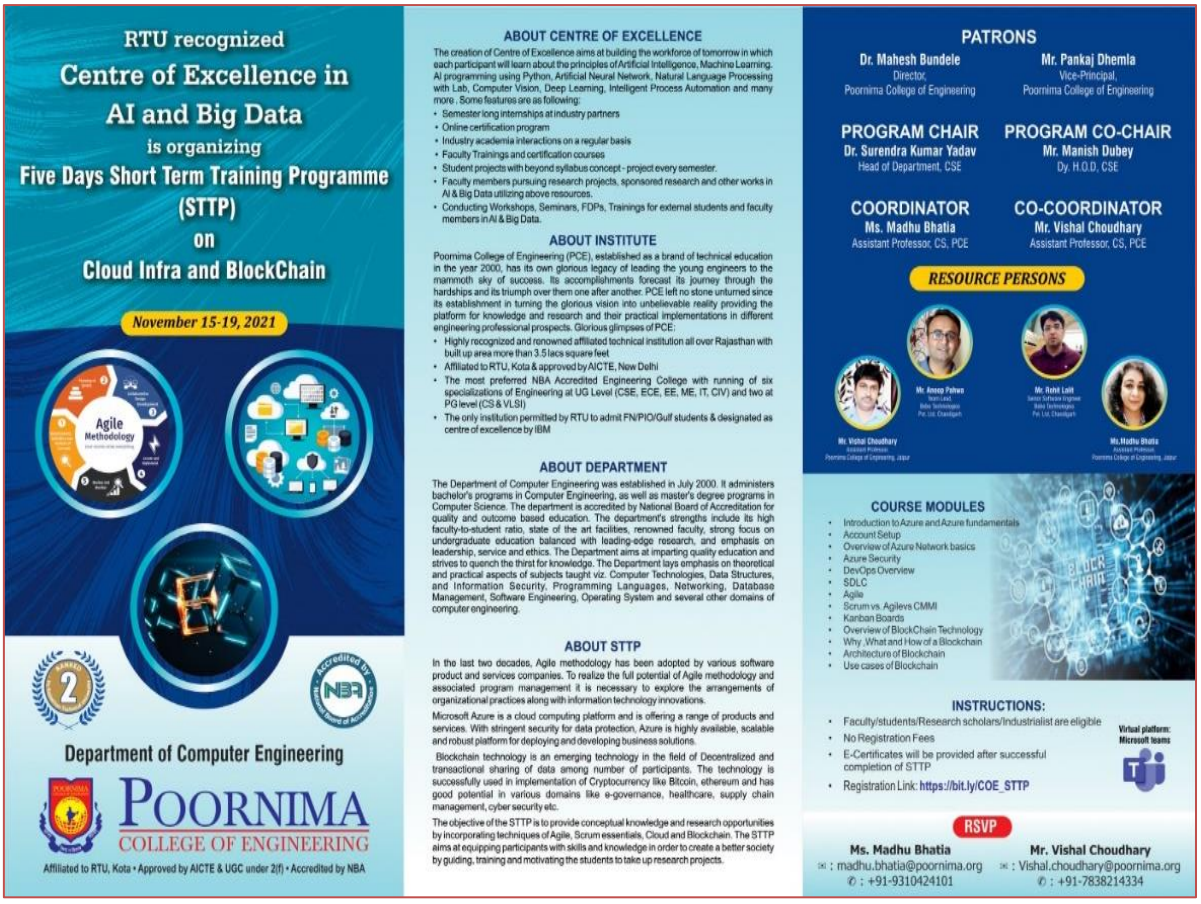
EXPECTED OUTCOMES:

- 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.



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:**



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

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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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**	

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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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.

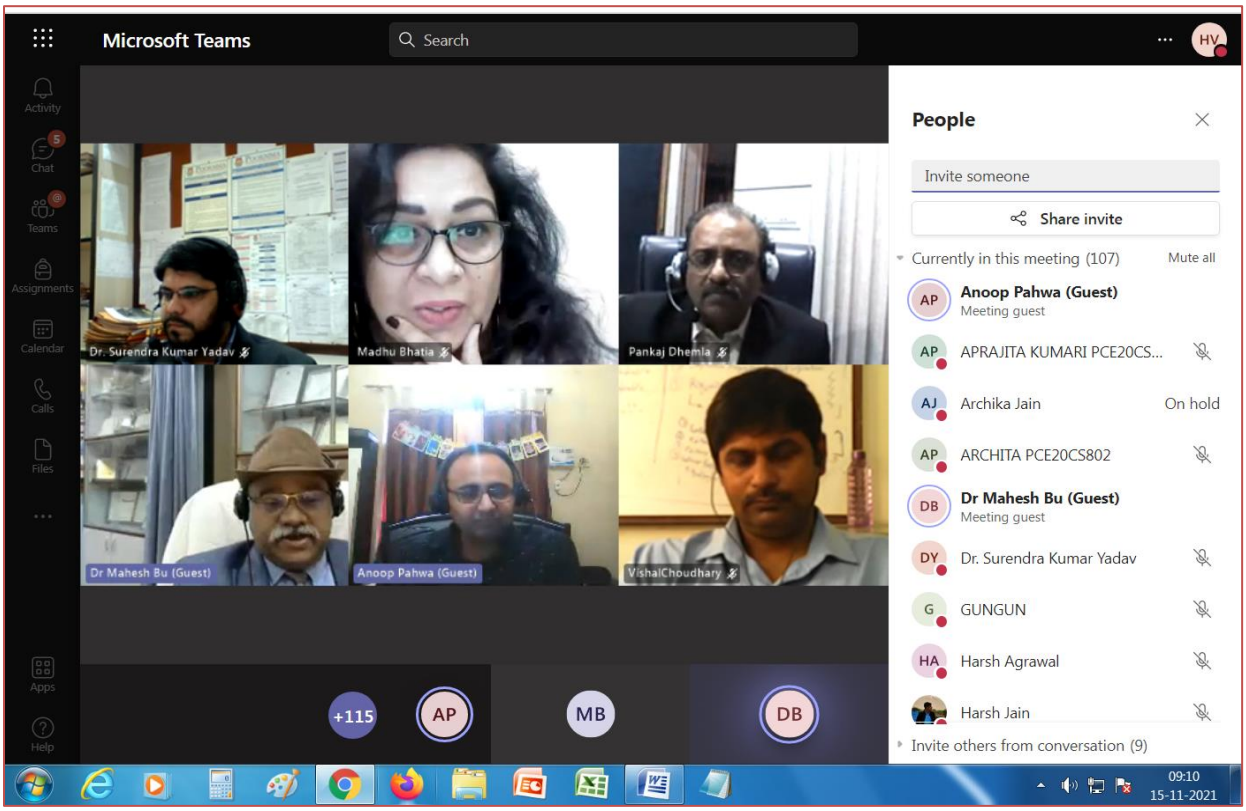
Dr. Surendra Yadav, H.O.D CSE dept. PCE introduced the resource person Mr. Anoop Pahwa and Mr. Rohit Lalit and also present vote of thanks to all the dignitaries and participants

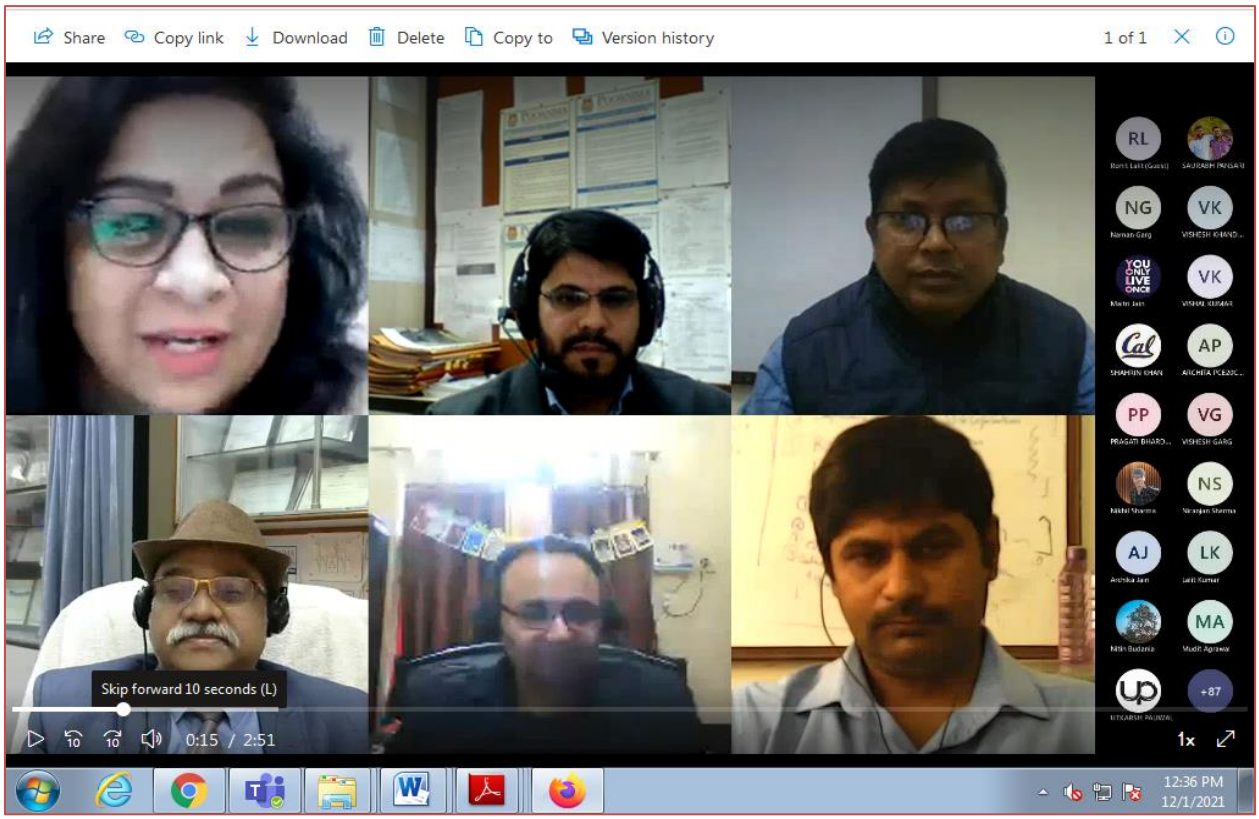
DETAILS OF RESOURCE PERSONS:

- 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.

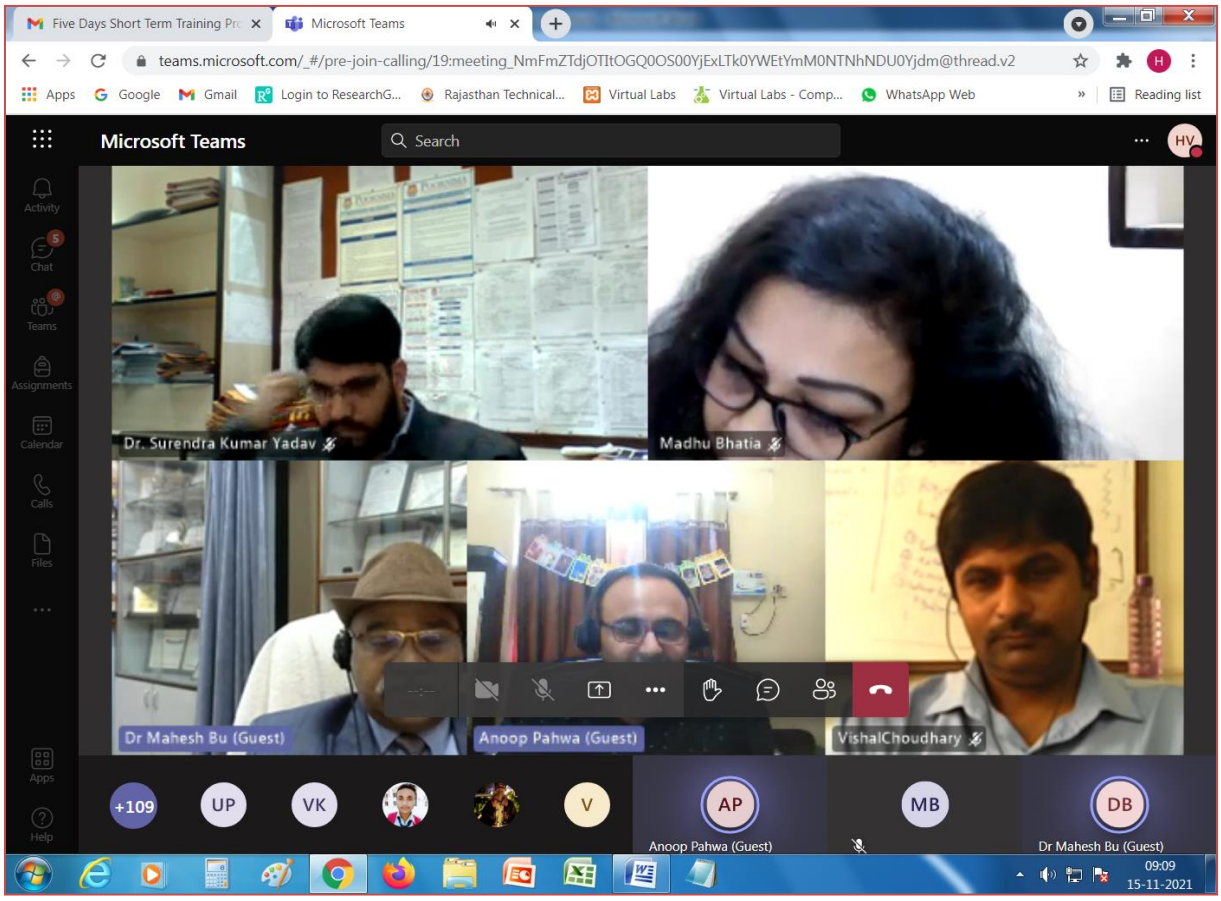
GLIPMSES OF CONDUCTION:

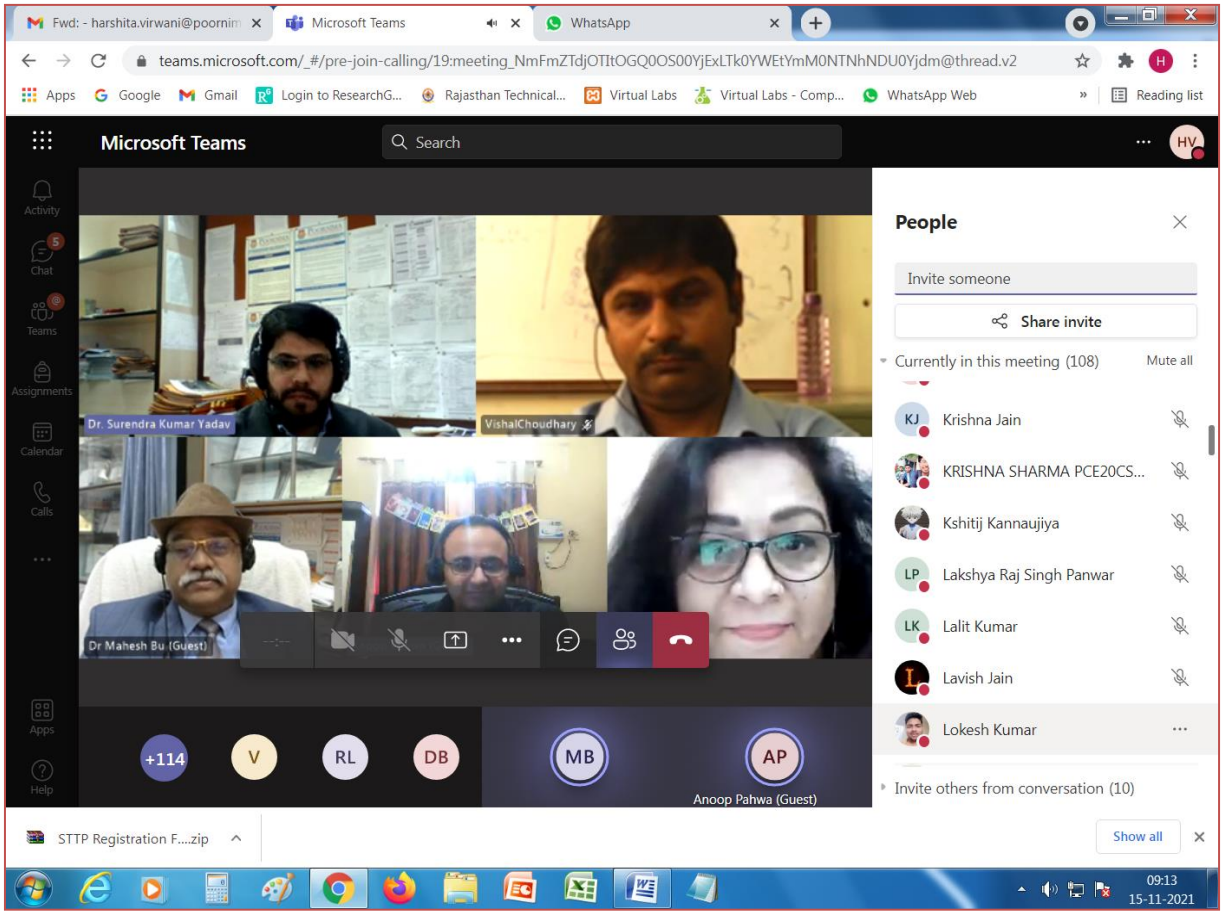
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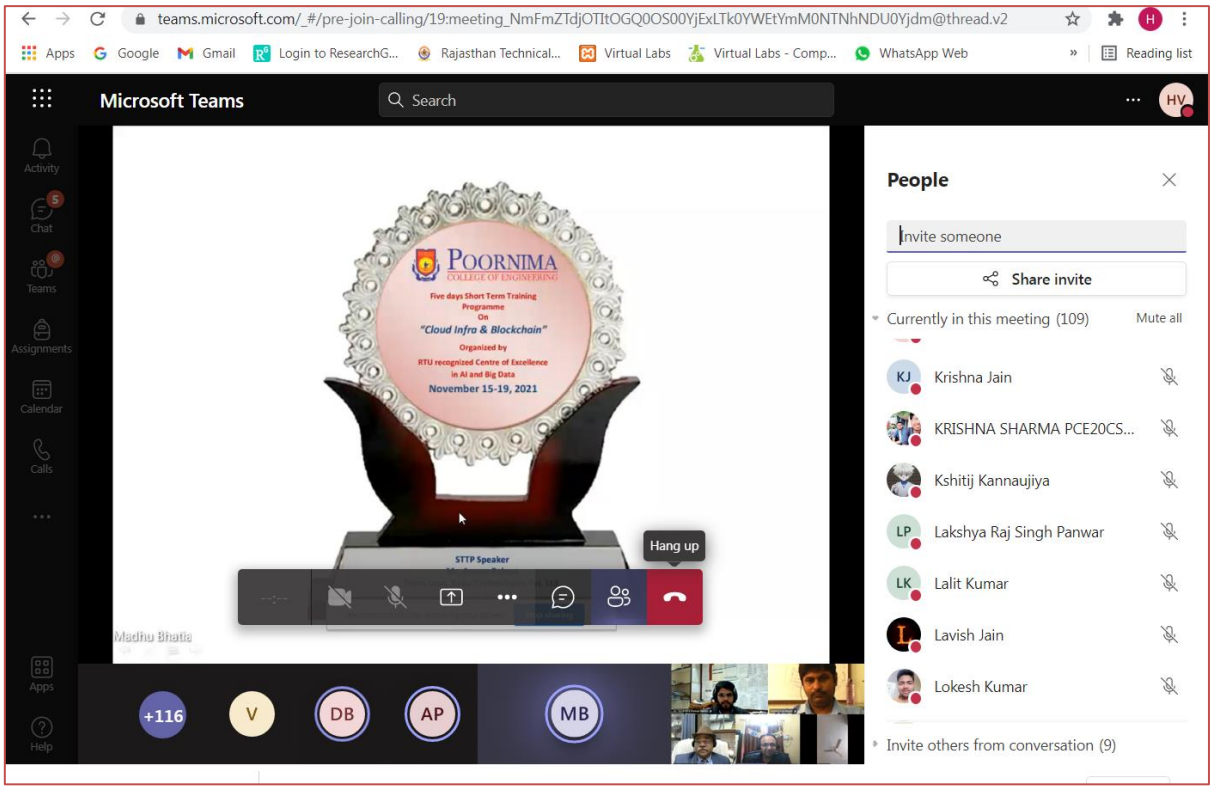


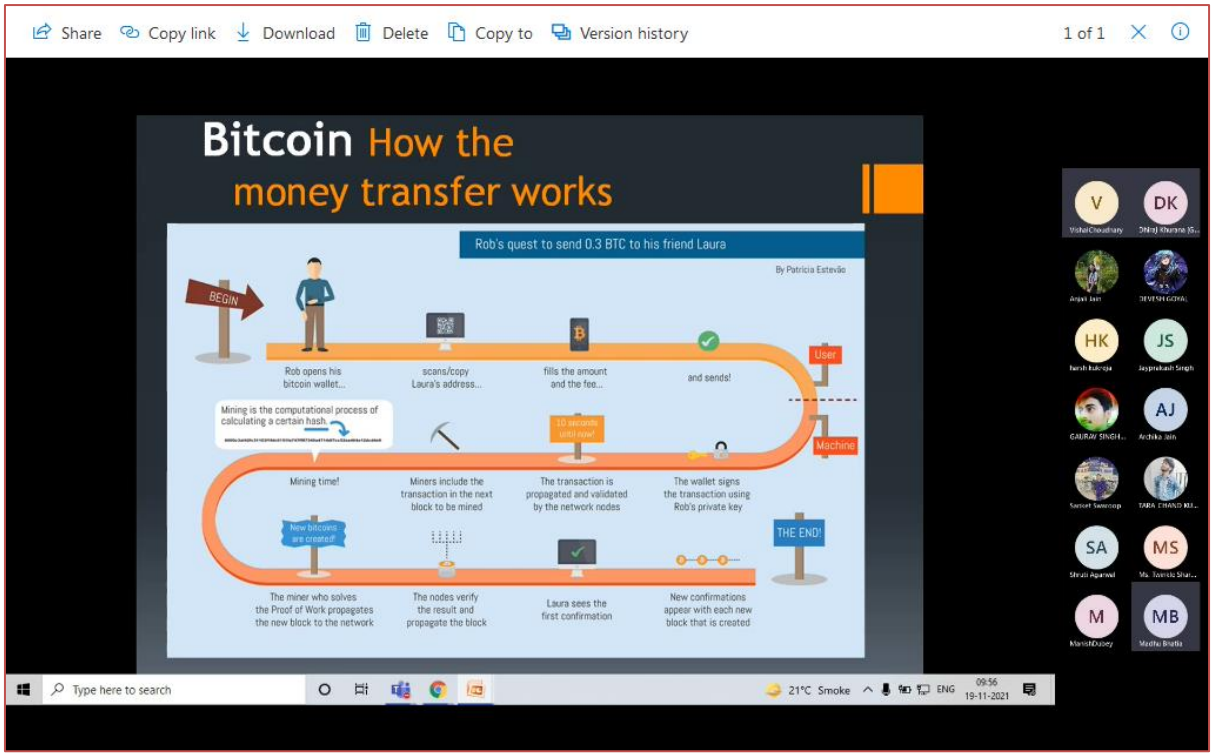
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR



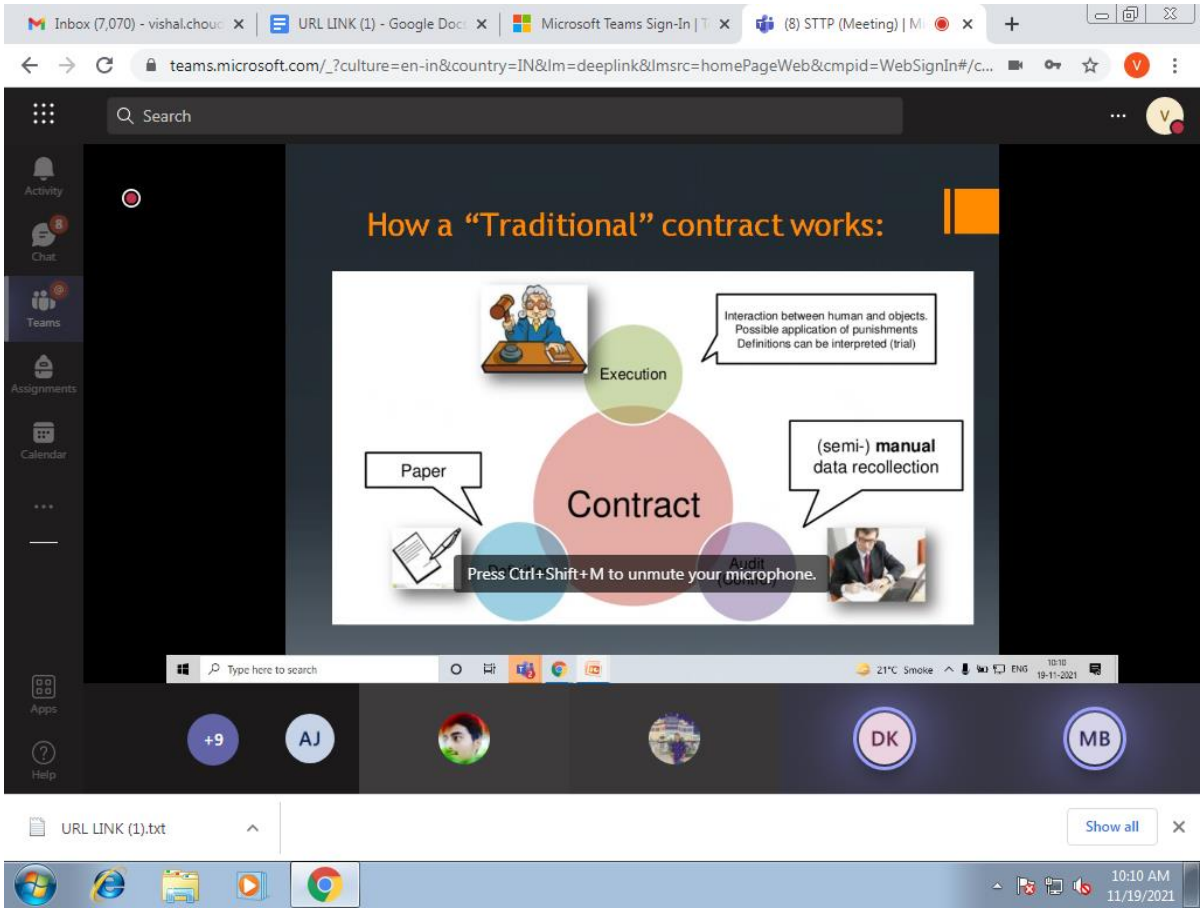


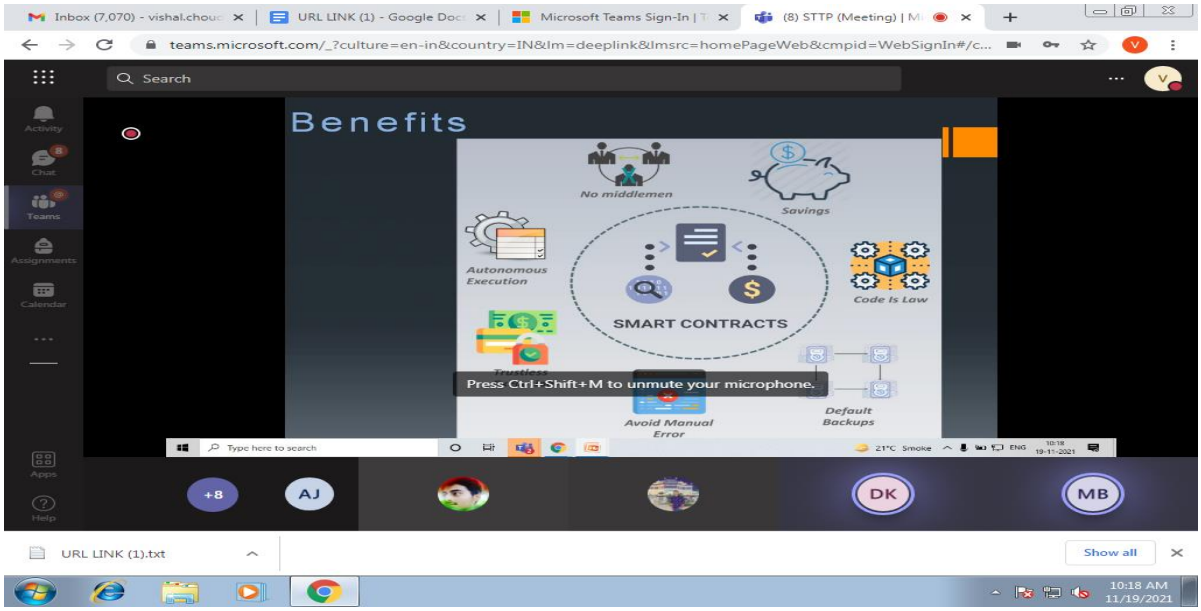
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





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

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.

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



- **LIST OF PARTICIPANTS:**

Username	Title	Full Name	College/ Organization Name	Designations
sonam.gour@poornima.org	Ms.	Sonam Gour	Poornima College of Engineering	Assistant Professor
2019pcecsyukti206@poornima.org	Ms.	Yukti Choudhary	Poornima college of engineering	Student
2019pcecssaurabh160@poornima.org	Mr.	Saurabh Pansari	Poornima college of engineering	Student
2019pcecsvaibhav189@poornima.org	Mr.	Vaibhav Khushalani	Poornima college of engineering	Student
2019pcecsnikhil114@poornima.org	Mr.	Nikhil Sharma	Poornima college of engineering	Student
2019pcecsgagan55@poornima.org	Mr.	Gagan Tyagi	Poornima college of engineering jaipur	Student
2019pcecstarun182@poornima.org	Mr.	Tarun Upadhayay	Poornima College of Engineering	Student
2019pcecsshrey166@poornima.org	Mr.	SHREY somani	Poornima college of engineering	Student
2019pcecsumang186@poornima.org	Mr.	Umang Dakh	Poornima college of engineering	Student
2020pcecsaprajita801@poornima.org	Ms.	Aprajita kumari	Poornima college of engineering jaipur	Student
2020pcecsarchita802@poornima.org	Ms.	Archita	Poornima college of engineering	Student
2019pcecstanisha180@poornima.org	Ms.	tanisha khunteta	poornima college of engineering	Student
2020pcecspragati807@poornima.org	Ms.	Pragati bhardwaj	Poornima college of engineering	Student

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

2018pceecapoorva14@poornima.org	Ms.	Apoorva Meena	poornima college of engineering	Student
2019pceecashish12@poornima.org	Mr.	Ashish Raj	Poornima college of engineering	Student
2021csanusha10394@poornima.edu.in	Ms.	Anusha Sagar	Poornima University	Student
2019pcemeafroz06@poornima.org	Mr.	Afroz Alam	Poornima college of engineering	Student
2021cscloudriyansh10008@poornima.edu.in	Mr.	Riyansh Jain	Poornima University	Student
2020pgicsshubham73@poornima.org	Mr.	Shubham Kumawat p	Poornima group of colleges	Student
madhu.bhatia@poornima.org	Ms.	Madhu Bhatia	Poornima College of Engineering	Assistant Professor
2018pietceshlok33@poornima.org	Mr.	Shlok Pareek	Poornima Institute of Engineering and Technology	Student
2021btechcsbdhairya10214@poornima.edu.in	Mr.	Dhairya Wadhwaney	Poornima University	Student
2021csdhananjay10549@poornima.edu.in	Mr.	Dhananjay Soni	Poornima University	Student
2019pceecyash72@poornima.org	Mr.	Yash soni	Poornima college of engineering	Student
2019pietcsprashant126@poornima.org	Mr.	Prashant Kumar Chaudhary	Poornima Institute of Engineering and Technology	Student
2020pietcsshruti169@poornima.org	Ms.	Shruti Agarwal	Poornima group of colleges	Student
shyamkedia9664060817@gmail.com	Mr.	Shyam Sunder	Poornima university	Student
2021bcacsbananya9442@poornima.edu.in	Mr.	Ananya Choudhary	Poornima University	Student
2020pietcsrajeev150@gmail.com	Mr.	Rajeev Ranjan	Poornima institute of engineering and technology	Student
2021cskinal10516@poornima.edu.in	Mr.	Kunal Singh Ranawat	Poornima University	Student
manish.choubisa@Poornima.org	Mr.	Manish Choubisa	Poornima College of Engineering, Jaipur	Assistant Professor
2018pcecstarun187@poornima.org	Mr.	Tarun Mittal	Poornima college of Engineering	Student
2020pgicsayush14@poornima.org	Mr.	Ayush Bohra	PGI	Student
2021cscloudmohut10105@poornima.edu.in	Mr.	Mohit	Poornima university	Student
2020pgicsakash06@poornima.org	Mr.	Akash jindal	PGI	Student

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

2019pceeesatyam47@poornima.org	Mr.	Satyam Kumar Shukla	Pce19ee047	Student
2020pietcsrohit156@poornima.org	Mr.	Rohit Tyagi	Poornima institute of engineering and technology	Student
2020pceitishant11@poornima.org	Mr.	Ishant Kushwah	Poornima	Student
archika.jain@poornima.org	Ms.	Archika Jain	Poornima College of Engineering	Assistant Professor
2019pcecsvishali505@poornima.org	Ms.	Vishali Gupta	Poornima College of Engineering	Student
2019pcecsyash203@poornima.org	Mr.	Yash Sharma	Poornima College Of Engineering	Student
2020pcecsadesh07@poornima.org	Mr.	ADESH KUMAR SHRIVASTVA	POORNIMA COLLEGE OF ENGINEERING	Student
2020pgicajatin16@poornima.org	Ms.	Jatin Jain	Poornima group of institutions	Student
2021btechaidsnaresh10347@poornima.edu.in	Mr.	Naresh Kumar	Poornima University	Student
2020pgicsraman65@poornima.org	Mr.	Raman Tank	Poornima Group of Institutions	Student
2020pcecssachin161@poornima.ac.in	Mr.	Sachin Yadav	Poornima collage of engineering	Student
2020pceitdevesh52@poornima.org	Mr.	Devesh Goyal	Poornima College Of Engineering	Student
2020pgicsyash88@poornima.org	Mr.	Yash Vijayvargiya	Poornima group of institution	Student
2018pceecsaksham57@poornima.org	Mr.	SAKSHAM SONI	Poornima College of Engineering	Student
2021csjaspal10155@poornima.edu.in	Mr.	Jaspal Singh	Poornima University	Student
rahul.saini.109082@gmail.com	Mr.	Rahul Saini	Poornima University	Student
2020pietcsamay24@poornima.org	Mr.	Amay Garg	Poornima institute of engineering and technology	Student
2019pietcsyakshika188@poornima.org	Ms.	Yakshika sharma	Poornima institute of engineering and technology	Student
2019pcecsgaurav704@poornima.org	Mr.	Gaurav Kumar	Poornima college of engineering	Student
tarunmishra@poornima.org	Mr.	Tarun Mishra	Poornima College of Engineering	Assistant Professor
2018pcecssuyog161@poornima.org	Mr.	Suyog Kumawat	Poornima College of Engineering	Student
mkaushik@jpr.amity.edu	Dr.	Dr. Manju Kaushik	Amity University Rajasthan, Jaipur	Associate Professor

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

2019pcecsneha111@gmail.com	Ms.	Neha Sharma	Poornima College Of Engineering	Student
2020pgicsgarvit22@poornima.org	Mr.	Garvit Ghiya	Poornima Group of Institutions	Student
2020pietcssachin157@poornima.org	Mr.	Sachin Sharma	Poornima institute of engineering and technology	Student
2020pgicschetan99@poornima.org	Mr.	Chetan jangir	Poornima group of institutions	Student
2020pietcsishu80@poornima.org	Mr.	Ishu kumar	Poornima	Student
2020pietadchetan10@poornima.org	Mr.	Chetan sharma	Poornima Institute of engineering and technology	Student
2020pgicssudhanshu90@poornima.org	Mr.	Sudhanshu Agrawal	Poornima Group of Institutions	Student
2017pietectarun022@poornima.org	Mr.	Tarun Jangir	PIET	Student
2020pietcsjayant84@poornima.org	Mr.	Jayant Kumar	Piet	Student
2018pcecegovind13@poornima.org	Mr.	GOVIND MEENA	Poornima college of engineering	Student
2020pgicsbharat16@poornima.org	Mr.	Bharat Patel	Poornima group of institutions	Student
2020pgicsmohit46@poornima.org	Mr.	Mohit sain	Poornima group of institutions	Student
2020csmanvi8753@poornima.edu.in	Ms.	Manvi yogi	Poornima University	Student
2021cscloudsiddhesh10342@poornima.edu.in	Mr.	Siddhesh Sharma	Poornima university	Student
2018pcecsharsh62@poornima.org	Mr.	HARSH AGARWAL	POORNIMA COLLEGE OF ENGINEERING	Student
2020pceittushar55@poornima.org	Mr.	Tushar mathur	Poornima college of engineering	Student
110sangeetasharma@gmail.com	Ms.	Sangeeta sharma	Poornima University	Student
2020pgicaprabhupad28@poornima.org	Mr.	PRABHUPAD VYAS	POORNIMA GROUP OF INSTITUTION	Student
2020pgicsharendra27@poornima.org	Mr.	Harendra Kumawat	Poornima group of institutions	Student
poojait@poornima.org	Mrs.	Pooja Sharma	Poornima Institute of Engineering & Technology	Assistant Professor
2020pietcsharsh72@poornima.org	Mr.	Harsh Todwal	Poornima Institute of Engineering and Technology	Student
neha.shrotriya@poornima.org	Ms.	Neha Shrotriya	Poornima College of Engineering	Assistant Professor

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

2020pietadpratham36@poornima.org	Mr.	Pratham Sharma	Poornima Institute of Engineering and Technology	Student
2020pietadmanav29@poornima.org	Mr.	Manav kumar	Poornima institute of engineering and technology	Student
2018pcecearvind6@poornima.org	Mr.	ARVIND SINGH RATHORE	POORNIMA college of ENGINEERING	Student
2021cshitesh9553@poornima.edu.in	Mr.	Hitesh parmar	Poornima university	Student
2020pgicsarchit11@poornima.org	Mr.	Archit Sharma	PGU	Student
2021cstwinkle9839@poornima.edu.in	Ms.	Twinkle Sharma	Poornima University	Student
2020pgicskeshav38@poornima.org	Mr.	Keshav Soni	Poornima Group Of Institutions	Student
binanjaydwibedee5555@gmail.com	Mr.	Binanjay Dwibedee	Poornima university	Student
2021btechcsbbinanjay9485@poornima.edu.in	Mr.	Binanjay Dwibedee	Poornima university	Student
2021btechcsbmritunjay9486@poornima.edu.in	Mr.	Mritunjay Dwibedee	Poornima university	Student
2021mcashiv10057@poornima.edu.in	Mr.	shiv kumar sharma	poornima university	Student
phogatyogita1706@gmail.com	Ms.	Yogita	Poornima University	Student
anjalijadu502@gmail.com	Ms.	Anjali	Poornima University	Student
2020pcecsharshit75@poornima.org	Mr.	Harshit	Poornima college of engineering	Student
2020pietcssneha173@poornima.org	Ms.	Sneha Prajapati	Poornima Institute Of Engineering And Technology	Student
2020pcecsshivam174@poornima.org	Mr.	Shivam khandelwal	Poornima collage of engineering, jaipur	Student
2021csshreya9863@poornima.edu.in	Ms.	Shreya Chouhan	Poornima university	Student
pranavompratap@gmail.com	Mr.	Pranav Pratap	Poornima College of Engineering	Professional
nayanaa967@gmail.com	Ms.	Nayana Agarwal	Poornima University	Student
2020pgicagurjot45@poornima.org	Mr.	Gurjot Singh	poornima group of institute	Student
2020pgicaravi31@poornima.org	Dr.	Ravi saini	Poornima group of institutions	Student
2020pietadankit05@poornima.org	Mr.	Ankit Khemani	Poornima institute of engineering and technology	Student

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

2018pgicsanirudh7@poornima.org	Mr.	Anirudh Sharma	Poornima group of institutions	Student
2020pietadpragati34@poornima.org	Ms.	Pragati Porwal	Poornima institute of engineering and technology	Student
adityasinghchouhan724@gmail.com	Mr.	Aditya singh chouhan	PIET	Student
2020pceitmohammed20@poornima.org	Mr.	Mohammed Umar Tanwar	Poornima College of Engineering	Student
2020pgicaharsh44@poornima.org	Mr.	Harsh Vardhan	Poornima group of institutions	Student
2020pgiadabhishek02@poornima.org	Mr.	Abhishek Anjana	Poornima group of institutions	Student
kanhataak97@gmail.com	Mr.	Kanhaiya	iNeuron Technology	Data Science
2019pcecspallavi121@poornima.org	Ms.	Pallavi Singh	Pce	Student
dhirajkhurana@mduroohtak.ac.in	Mr.	Dhiraj Khurana	UIET MDU	Assistant Professor
jigyasarajwani2@gmail.com	Ms.	Jigyasa Rajwani	Poornima University	Student
sita.gupta@poornima.org	Ms.	SEETA GUPTA	Poornima College of Engineering, Jaipur	Assistant Professor
2019pietcejayesh8@poornima.org	Mr.	Jayesh Kumar Jain	Poornima institute of engineering and technology	Student
2021btechaidssanket9552@poornima.edu.in	Mr.	Sanket Swaroop	POORNIMA UNIVERSITY	Student
2020pietadgaurav16@poornima.org	Mr.	Gaurav Soni	Poornima Institute of Engineering and Technology	Student
barkha.narang@poornima.org	Mrs.	BARKHA NARANG	POORNIMA COLLEGE OF ENGINEERING	Assistant Professor
p.velumani@poornima.edu.in	Dr.	DR P S VELUMANI	Poornima University	Associate Professor
harshita.virwani@poornima.org	Ms.	Harshita Virwani	Poornima Collage of Engineering, Jaipur, Rajasthan	Assistant Professor
reena.sharma@poornima.org	Ms.	Reena Sharma	Poornima College of Engineering	Assistant Professor
2020pcecstripti188@poornima.org	Ms.	Tripti Somani	PCE	Student
2020pcemefaizan803@poornima.org	Mr.	Mohammed Faizan	Poornima college of engineering	Student
2021btechaidsbanshika9994@poornima.edu.in	Ms.	Banshika Banker	Poornima University	Student
2017pcemeshiv090@poornima.org	Mr.	Shiv Kumar lodwal	PCE	Student

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

2020pcecslokesh98@poornima.org	Mr.	Lokesh Kumar	Poornima college of engineering	Student
kukrejah661@gmail.com	Mr.	Harsh kukreja	Poornima college of engineering	Student
ram.mohan@poornima.org	Mr.	Ram Mohan	Poornima Institute of Engineering and Technology, Jaipur Rajasthan	Assistant Professor
2021cscloudanjali9996@poornima.edu.in	Ms.	Anjali jain	Poornima university	Student
2021btechaidstanuj9788@poornima.edu.in	Mr.	Tanuj sharma	Poornima university	Student
2020pcecsashutosh33@poornima.org	Mr.	ashutosh upadhyay	Poornimma college of engineering	Student
2021btechaidsbhanu9898@poornima.edu.in	Mr.	Bhanu pratap singh gehroli	Poornima University	Student
2021bcacsbnihal9916@poornima.edu.in	Mr.	Nihal Singh Shankala	Poornima University	Student
2020pcecsmegha108@poornima.org	Ms.	Megha Agrawal	Poornima College OF Engineering	Student
2021bcacsbatika9687@poornima.edu.in	Ms.	Atika	Poornima University	Student
reena.nandal@christuniversity.in	Dr.	Reena Devi	Christ (Deemed to be University)	Postdoc Fellow
2019pcecsankur19@poornima.org	Mr.	Ankur chaurasia	Poornima college of engineering	Student
muskan.kumari@poornima.org	Ms.	Muskan Kumari	PIET	Assistant Professor
2020pcecssrishti121@poornima.org	Ms.	Srishti malu	PCE20CS121	Student
2020pcecsnatasha129@poornima.org	Ms.	Natasha goklani	Poornima college of engineering	Student
2020pcecsnikita133@poornima.org	Ms.	Nikita Kumari	Poornima college of engineering	Student
2019pceitshristy55@poornima.org	Ms.	Shristy Khandelwal	Poornima college of engineering	Student
2020pcecsmuskan118@poornima.org	Ms.	Musksn Goyal	Pce	Student
2020pcecskhushi114@poornima.org	Ms.	Khushi Sharma	Pce	Student
2020pcecsgungun112@poornima.org	Ms.	Gungun Narang	Poornima college of engineering	Student
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

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

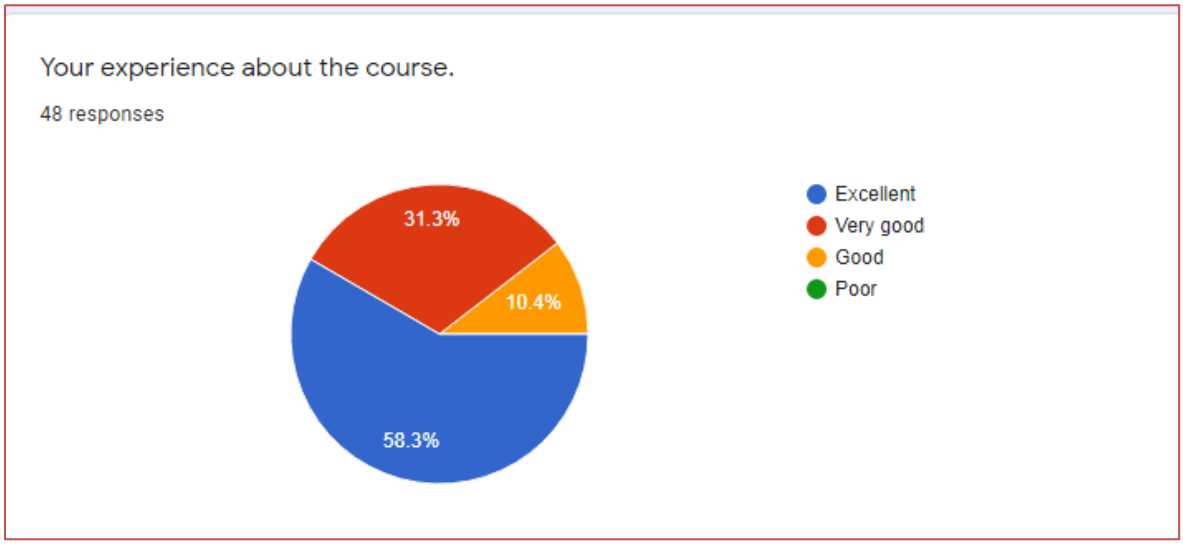
			technology	
2020csabhimanyu9115@poornima.edu.in	Mr.	Abhimanyu	Poornima University	Student
2020pceitgaurav63@poornima.org	Mr.	Gaurav Singh Rathore	Poornima College of Engineering Jaipur	Student
2020pceittara61@poornima.org	Mr.	Tara Chand kumawat	Poornima college of engineering jaipur	Student
2019pcecsanubha102@poornima.org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

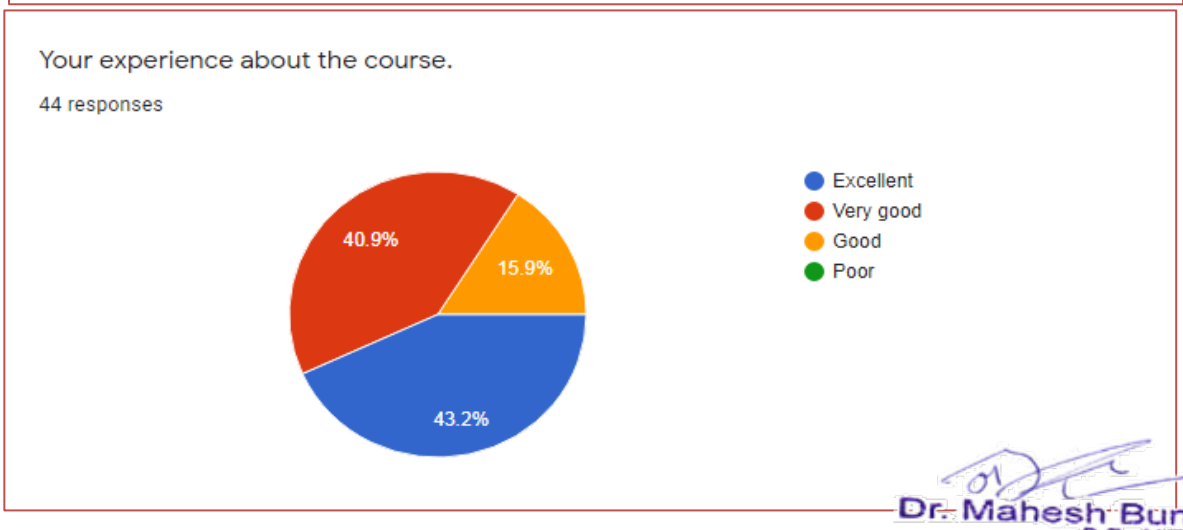
- **FEEDBACK ANALYSIS:**

Oral Feedback

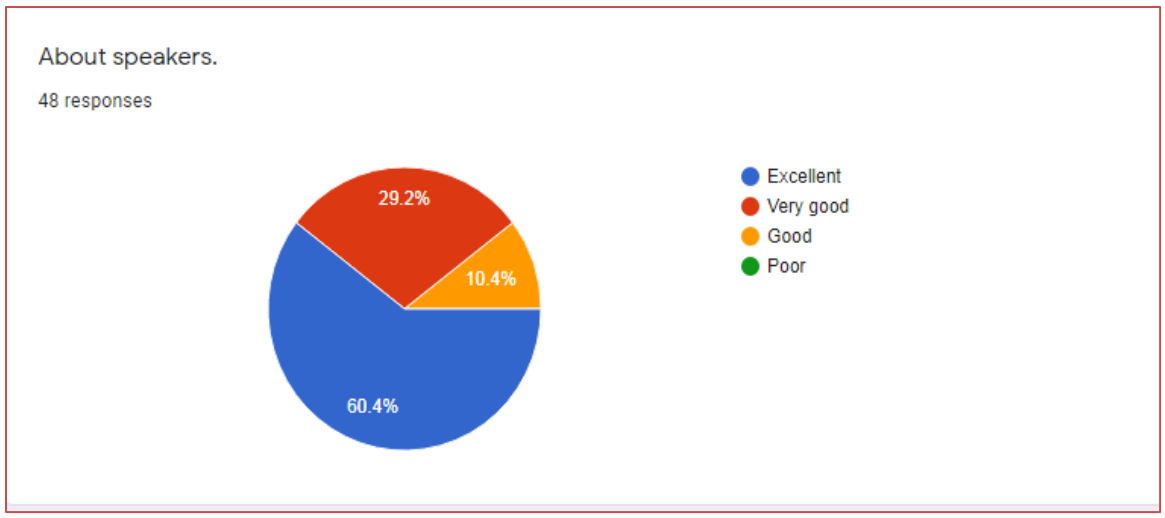
Oral feedback and views shared by the participants revealed that the Group Discussion has successfully fulfilled the objectives of the event. All the participants in their oral feedback has given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.

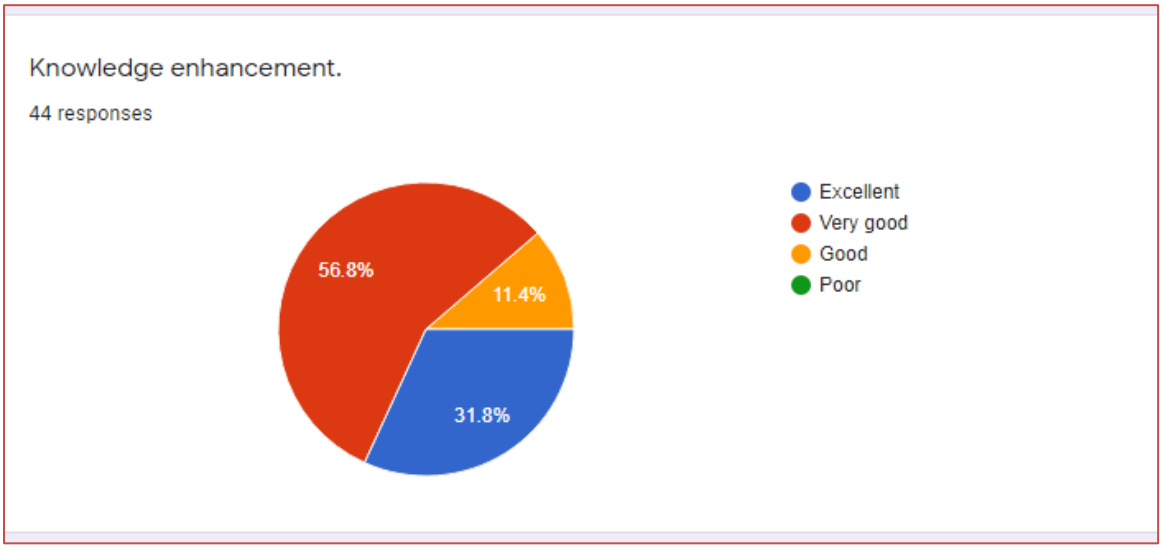
Feedback Online Mode: -





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





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

POORNIMA
COLLEGE OF ENGINEERING

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

Report on 6-days Short Term Training Program

- **TITLE AND DURATION:** "Artificial Intelligence & 5G Communication Technology" from April 26-May 1, 2021.

- **SPONSORS:** AICTE Quality Improvement Scheme (AQIS)

- **SUPPORTERS:** Nil.

- **ORGANIZERS:** Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.

- **OBJECTIVES:** The objective of general AI is to design a system capable of thinking for itself just like humans do. Currently, general AI is still under research, and efforts are being made to develop machines that have enhanced cognitive capabilities.

- **EXPECTED OUTCOMES:**

1. Evaluate the advantages, disadvantages, challenges, and ramifications of human–AI augmentation.
2. Design and develop symbiotic human–AI systems that balance the information processing power of computational systems with human intelligence and decision making.
3. Explain the benefits, limitations, and tradeoffs of designing engaging and ethical conversational user interactions, including those supported by chatbots, smart speakers, and other AI-driven, voice-based technologies.
4. Design and evaluate conversational interfaces for different users and contexts of use.

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:**



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

SPEAKERS

Dr. Nagendra Prasad Pathak
Professor, IIT Roorkee

Dr. Rajveer S. Shekhawat
Provost & Director, Manipal University Jaipur

Dr. Sudan Jha
Professor, Chandigarh University, Punjab

Dr. Abhinav Kumar
Associate Professor, IIT Hyderabad

Dr. Prabhat Kumar Upadhyay
Associate Professor, IIT Indore

Lyla B. Das
Associate Professor, NITC

Dr. Gaurang Patkar
Associate Professor & Head of Department, DBCE, Goa

Dr. Asoke K Talukder
Chief Science & Technology Officer, SRIT Bangalore

Dr. Sanjeev Sharma
Assistant Professor, IIT BHU

Dr. Siba Narayan Swain
Assistant Professor, IIT Dharwad

Dr. Sk. Subidh Ali
Assistant Professor, IIT Bhilai, Chattisgarh

Dr. Udit Satija
Assistant Professor, IIT Patna

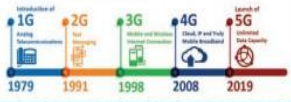
Dr. Rahul Pandya
Assistant Professor, IIT Dharwad

Dr. Sudharsan
Assistant Professor, NIT, Truichirappalli

Dr. Sandeep Joshi
Assistant Professor, BITS Pilani

Dr. Ritesh Kumar Saraswat
Assistant Professor, M.L.V. Govt. College, Bhilwara

The Evolution of **5G**



REGISTRATION AND FEE PARTICULARS

- Faculty/Research Scholars from Universities/ AICTE recognized Institutions are only eligible.
- No Registration Fees
- E-Certificates will be provided after successful completion of STTP
- Registration Link: **https://tinyurl.com/sxrv8dwe**

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of communication such as IITs, NITs, and other premier institutes.

IMPORTANT DATES

Last date for Registration	**April 22, 2021**
Intimation of selection by mail	**April 24, 2021**
STTP Duration	**April 26 to May 01, 2021**

CORRESPONDENCE

Dr. Garima Mathur
Head, Department Electronics & Communication Engineering,
Poornima College of Engineering, Jaipur
✆ : +91-9829393517
✉ : drg.mathur@poornima.org



POORNIMA
COLLEGE OF ENGINEERING
ISI-6, RIICO Institutional Area, Sitapura, Jaipur
www.pce.poornima.org

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Artificial Intelligence and 5G Communication Technology

April 26 to May 01, 2021

Sponsored by



Organized by
Department of
Electronics & Communication Engineering

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

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 DEPARTMENT

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 & 2018 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 STTP

The aim of this STTP is to enhance the AI research also overlaps with tasks such as robotics, control systems, scheduling, data mining, logistics, speech recognition, facial recognition and many others. Upgrading the new era in 5G to handle data from millions more IoT devices and install low-power sensors. 5G is not only important because it has the potential to support millions of devices at ultrafast speeds, but also because it has the potential to transform the lives of people around the world. Improvements in 5G technology can help make life better.

Course Modules

- Multiband and Multifunctional RF integrated circuits & Systems for 5G and beyond
- Reinforcement Learning Application in 5G and Beyond Networks
- 6G Vision, Potential Technologies and Challenges
- WoT and AIoT: Technologies for the Smart Connected World
- The Fundamental Principles of Deep Learning including Back Propagation
- Stochastic geometry analysis of 5G network
- Spectral- and Energy-Efficient Techniques for 5G and Beyond Wireless Networks
- AI Trending - from Local Data to 5G Communications
- Edge Analytics to Address Challenges of Smart Healthcare
- Automated grading of Oil Palm Fruits using Fuzzy Logic and Rough Set Theory
- Machine learning and Security
- IoT Device Localization
- Deep Learning-Based Wireless Communications
- Device-to Device Communication in 5G Cellular Networks
- Antenna Design for Wireless Application with Implementation of Frequency Band Reconfigurability Characteristics
- Cellular Internet of Things

OBJECTIVES OF STTP

- To provide an exposure to the participants regarding current scenario in advanced communication technologies & their applications.
- To provide the knowledge of cutting edge researches and developments carried out/observed by the Eminent Speakers in advance communication domains (from IITs, NIITs, other Esteemed Institutions & Industry), for products having immediate industrial applications for self-reliance of the Country.

PATRON

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

ADVISORS

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

Dr. Rekha Nair
Dean, First Year, Poornima College of Engineering, Jaipur

Mr. Devendra Somwanshi
Registrar, Poornima College of Engineering, Jaipur

PROGRAM CHAIR

Dr. Garima Mathur
Head of Department ECE, Poornima College of Engineering

COORDINATORS

Dr. Payal Bansal Associate Professor, ECE, PCE	**Mr. Tarun Mishra** Assistant Professor ECE, PCE

PCE ORGANIZING COMMITTEE

Dr. Anila Dingra	Associate Professor, ECE
Mr. Amit Kumar Jain	Assistant Professor, ECE
Mr. Durgesh Kumar	Assistant Professor, ECE
Mr. Manish Sharma	Assistant Professor, ECE
Ms. Manisha Kumawat	Assistant Professor, ECE

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B.E., M.E., Ph.D.
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- **PROGRAM SCHEDULE:**

POORNIMA
COLLEGE OF ENGINEERING

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Department of Electronics & Communication Engineering

Fourth AICTE-AQIS Sponsored Short Term Training Program (STTP) on Artificial Intelligence and 5G Communication Technology from April 26 – May 01, 2021

	11:00 AM	11.30AM – 01:00 PM	01:30 PM 03:00 PM	03:15 PM 04:45 PM
Monday (26.04.21)	**Inaugural Session** **Chief Guest**: Col. B. Venkat, Director (Faculty Development), AICTE, New Delhi **Guest of Honour**: Dr. Nagendra Prasad Pathak, Professor, IIT, Roorkee	**Multiband and Multifunctional RF Integrated Circuits & Systems for 5G & Beyond** Dr. Nagendra Prasad Pathak, Professor, IIT, Roorkee	**5G Communication for IoT** Dr. M Lakshmi, Professor, SRM Institute of Science & Technology, Tamil Nadu	**Artificial Intelligence for Physical Layer Wireless Communications** Dr. Upena. D. Dalal, Professor, SVNIT, Surat

	09:30AM -11:00 AM	11.30AM – 01:00 PM	01:30 PM – 3:00 PM
Tuesday (27.04.21)	**6G Vision, Potential Technologies and Challenges** Dr. Rahul Pandya, Assistant Professor, IIT, Dharwad	**WoT and AIoT: Technologies for the Smart Connected World** Dr Asoke K. Talukder, Chief Science & Technology Officer, SRIT, Bangalore	**The Fundamental Principles of Deep Learning including Back Propagation** Lyla B.Das, Associate Professor, NIT, Calicut
Wednesday (28.04.21)	**Stochastic geometry analysis of 5G network** Dr. Sudharsan, Assistant Professor, NIT, Truichirappalli	**Spectral- and Energy-Efficient Techniques for 5G and Beyond Wireless Networks** Dr. Prabhat Kumar Upadhyay, Associate Professor, IIT, Indore	**AI Trending - from Local Data to 5G Communications** Dr. Sudan Jha, Professor, Chandigarh University, Punjab
Thursday (29.04.21)	**Automated Grading of Oil Palm Fruits using Fuzzy Logic and Rough Set Theory** Dr. Gaurang Patkar, Associate Professor & Head, DBCE, Goa	**Edge Analytics to Address Challenges of Smart Healthcare** Dr. Rajveer S. Shekhawat, Provost & Director, Manipal University, Jaipur	**Reinforcement Learning Application in 5G and Beyond Networks** Dr. Siba Narayan Swain, Assistant Professor, IIT, Dharwad
Friday (30.04.21)	**IoT Device Localization** Dr. Udit Satija, Assistant Professor, IIT, Patna	**Deep Learning-Based Wireless Communications** Dr. Sanjeev Sharma, Assistant Professor, IIT, BHU	**Device-to Device Communication in 5G Cellular Networks** Dr. Sandeep Joshi, Assistant Professor, BITS, Pilani
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B.E., M.E., Ph.D.
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- **INAUGURAL SESSION:**

SHORT TERM TRAINING PROGRAM

On

Artificial Intelligence & 5G Communication Technology

April 26 to May 01, 2021

Sponsored by AICTE Quality Improvement Scheme (AQIS)

Organized by Department of Electronics & Communication Engineering,

Poornima College of Engineering, Jaipur

Date: April 26, 2021 **Time: 11:00 – 11:35 AM**

Venue: Online (MS Teams: https://tinyurl.com/2y9wzkty)

Q- Sheet Inaugural Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of STTP by **Dr. Payal Bansal**, Associate Prof., ECE, PCE • **Col. B. Venkat,** Director (Faculty Development), AICTE, New Delhi **(Chief Guest)** • **Dr. Nagendra Prasad Pathak,** Professor, IIT Roorkee **(Guest of Honor)** • **Ar. Rahul Singhi**, Director, Poornima Group • **Dr. Mahesh Bundele,** Director & Principal, PCE • **Mr. Pankaj Dhemla,** Vice Principal, PCE • **Dr. Garima Mathur,** Professor & Head, ECE, PCE	03 Min	11:00 AM-11:03 AM
2.	Welcome address by **Dr. Mahesh Bundele**, Director & Principal, PCE	05 Min	11:03 AM-11:08 AM
3.	Motivational Words by **Ar. Rahul Singhi,** Director, Poornima Group	05 Min	11:08 AM-11:13 AM
4.	Address by **Guest of Honor Dr. Nagendra Prasad Pathak, Professor, IIT Roorkee**	10 Min	11:13 AM-11:23 AM
5.	Inaugural Address by **Chief Guest Col. B. Venkat, Director (Faculty Development), AICTE, New Delhi**	10 Min	11:23 AM-11:33 AM
6.	Vote of Thanks by **Dr. Garima Mathur,** Professor & Head, ECE, PCE	02 Min	11:33 AM-11:35 AM

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- **DETAILS OF RESOURCE PERSONS:**



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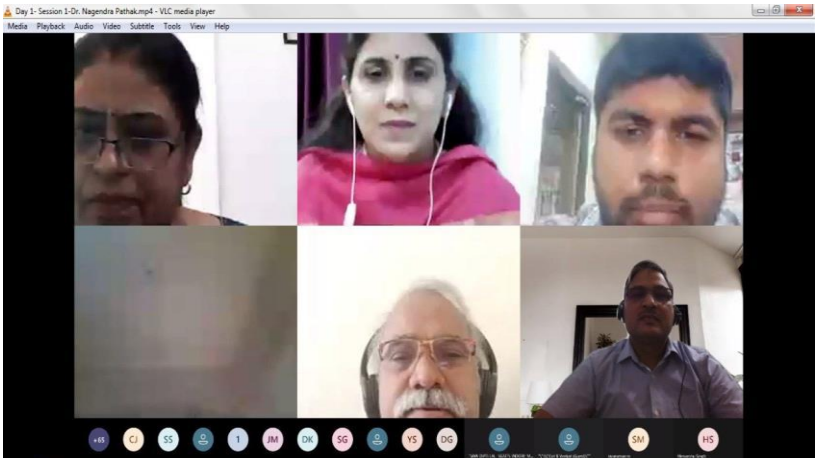
<u>INAUGRAL SESSION ON 26 April 2021:-</u>

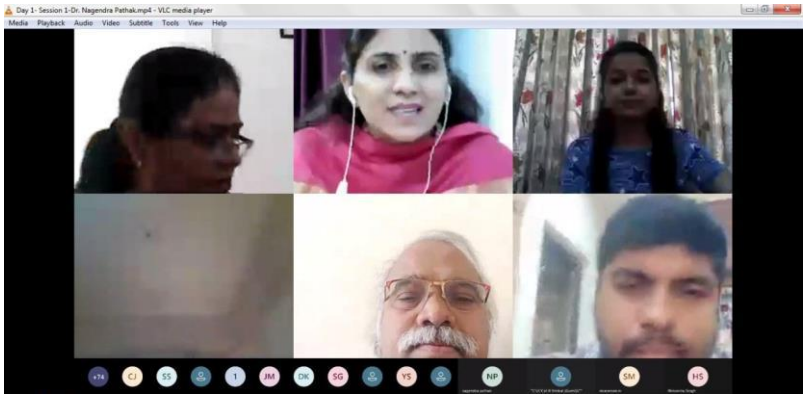
Inaugural session witnessed the presence of Col. B. Venkat, Director (Faculty Development), AICTE, New Delhi (Chief Guest), Dr. Nagendra Prasad Pathak, Professor, IIT Roorkee (Guest of Honor),Dr. Mahesh Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur convenor of STTP & Dr. Payal Bansal Coordinator of STTP, PCE, participants along with the faculty members. The event started with the online inaugural ceremoney in presence of chief guest, Guest of honour & Dr. Mahesh Bundele, Director PCE. Dr Garima Mathur addressed the participants about the STTP & 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 Artificial Intelligence. Dr. Pathak addressed the gathering with his knowledgeable words. &

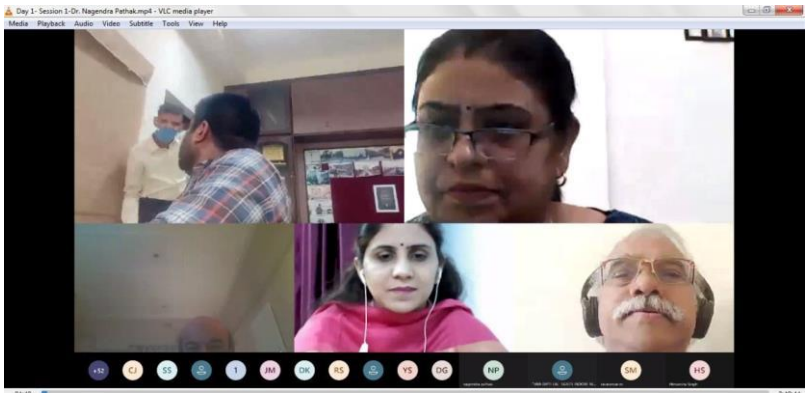
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Sitapura, JAIPUR

then after Col. B. Venkat updated the participants about the new technologies to be on work. In last the inaugural session concluded by vote of thanks delivered by Dr. Payal Bansal (coordinator of STTP).

Glimpses of Inaugural session







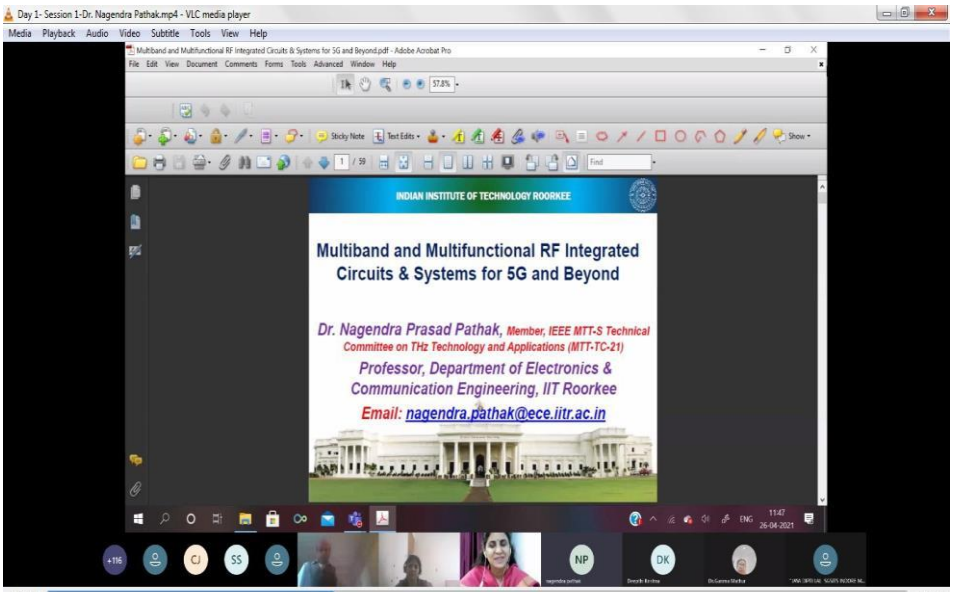
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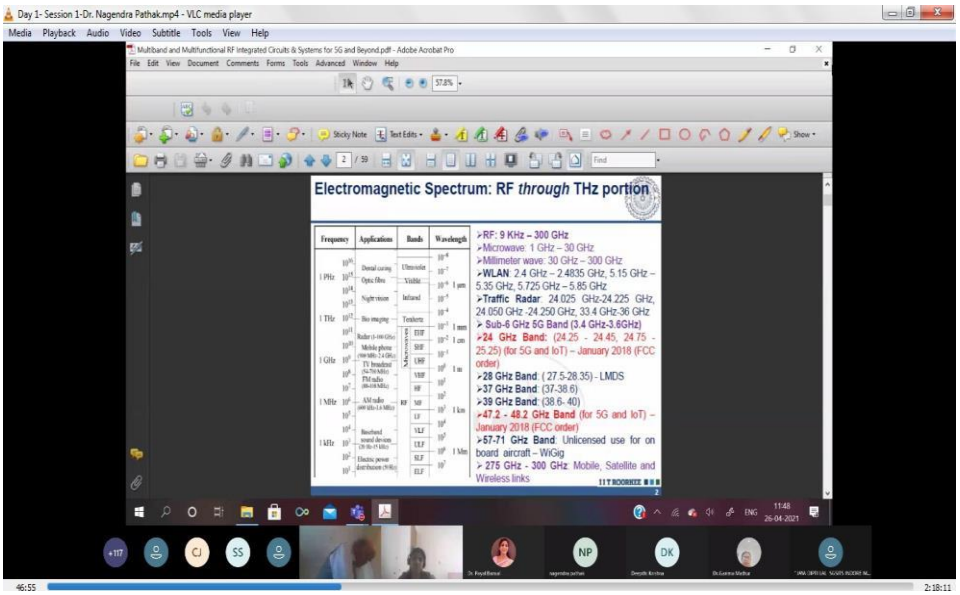
Expert Talk-1

Topic: Multiband and Multifunctional RF Integrated Circuits & Systems for 5G & Beyond

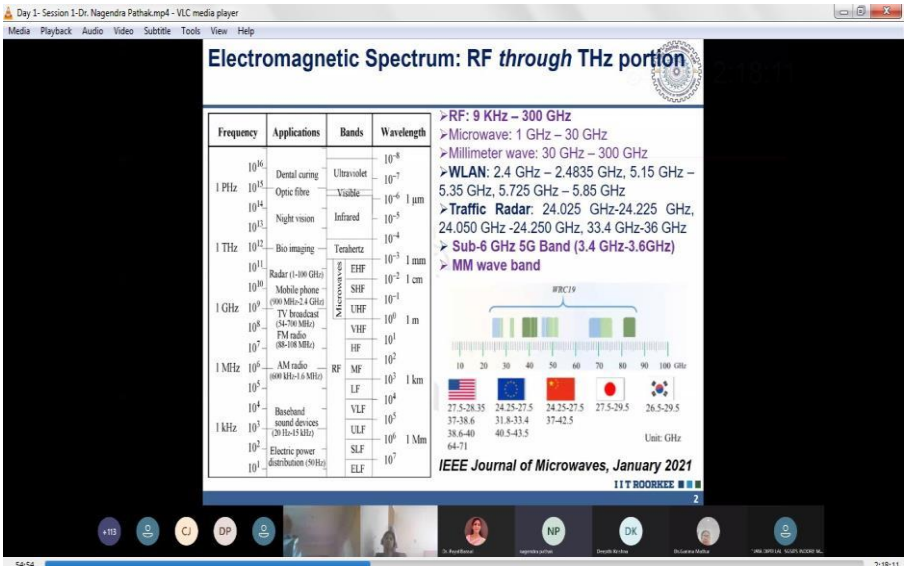
Resource Person: Dr. Nagendra Prasad Pathak, Professor

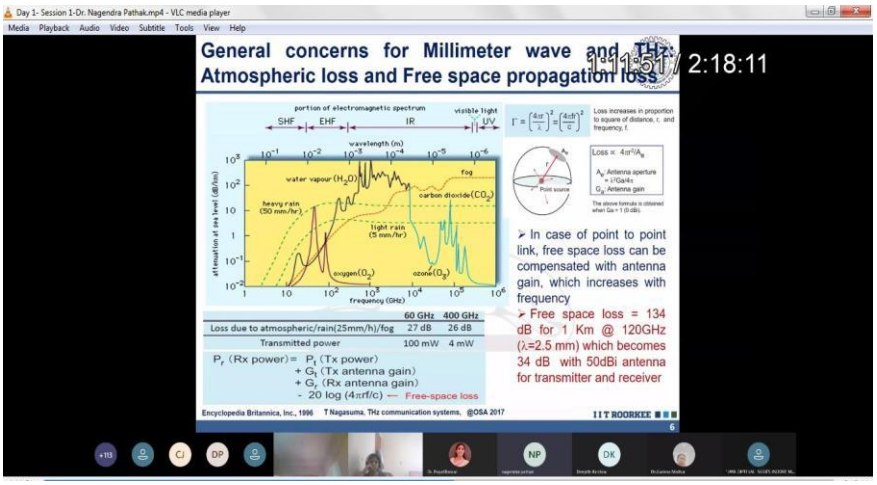
Venue: Ms Teams

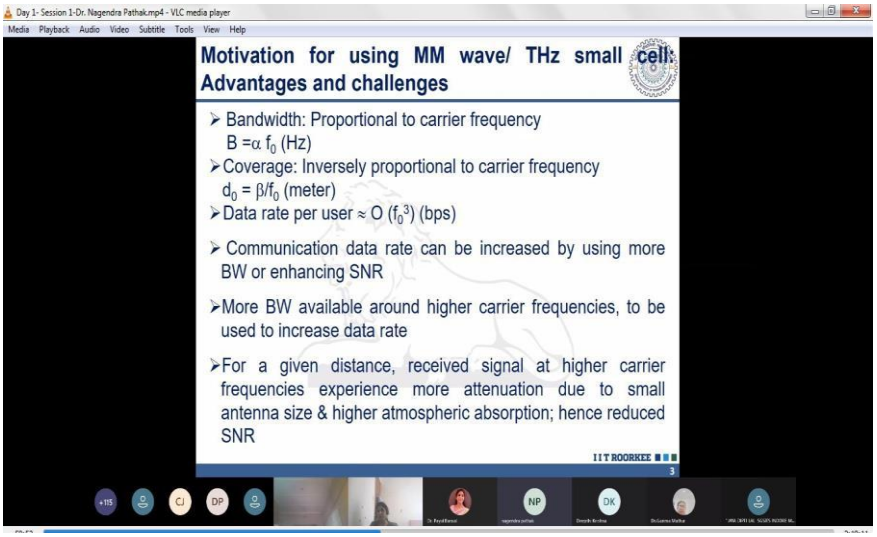




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B.E., M.E., Ph.D.
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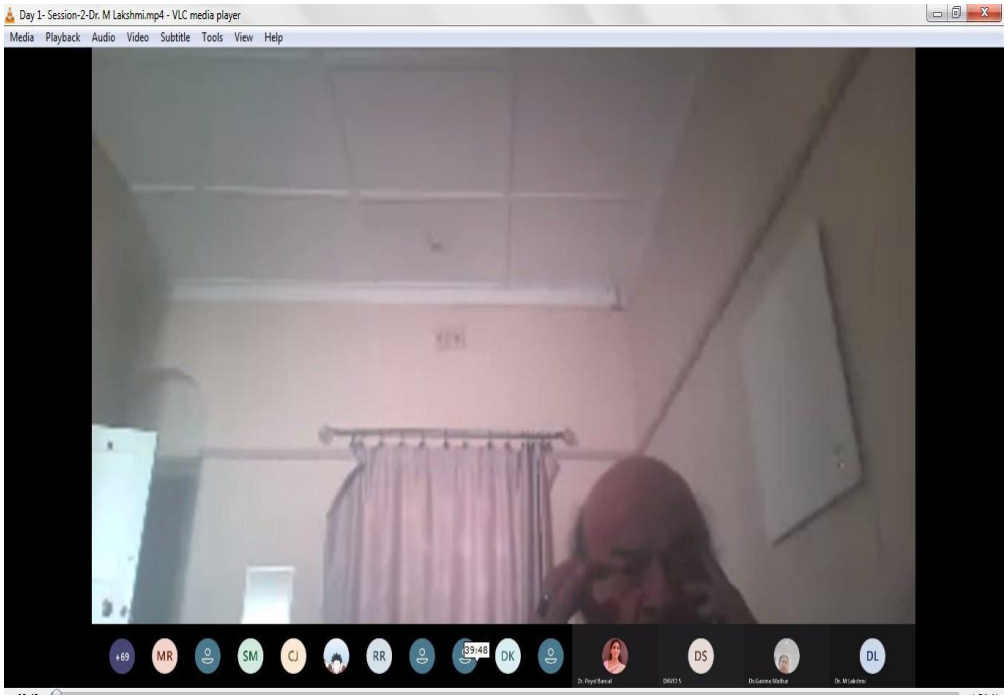
Expert Talk-2

Topic: 5G Communication for IoT

Resource Person: Dr. M Lakshmi, Professor

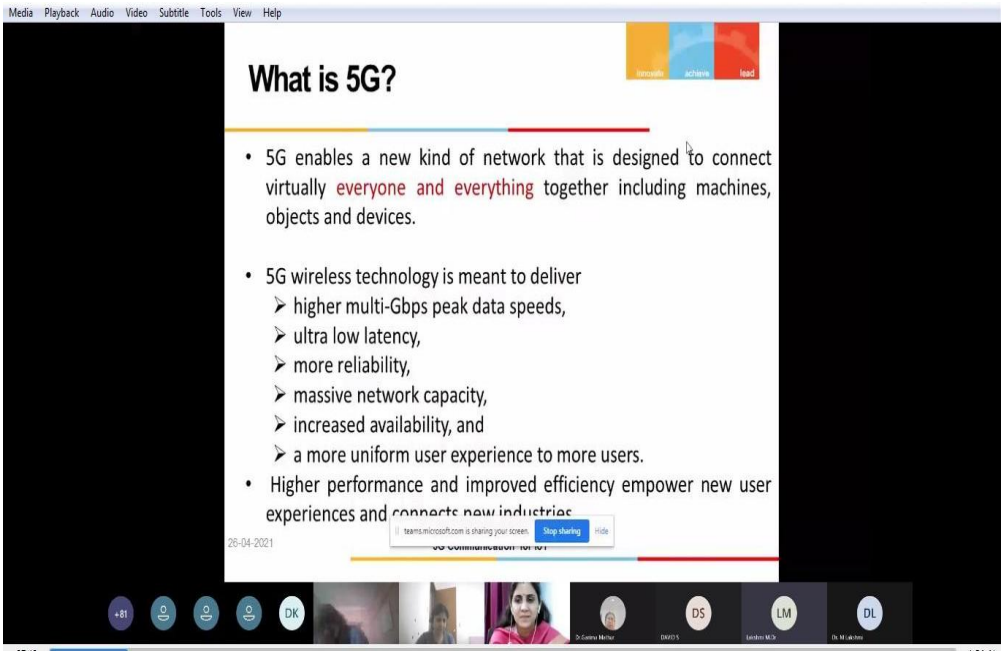
Venue: online

Memories of event

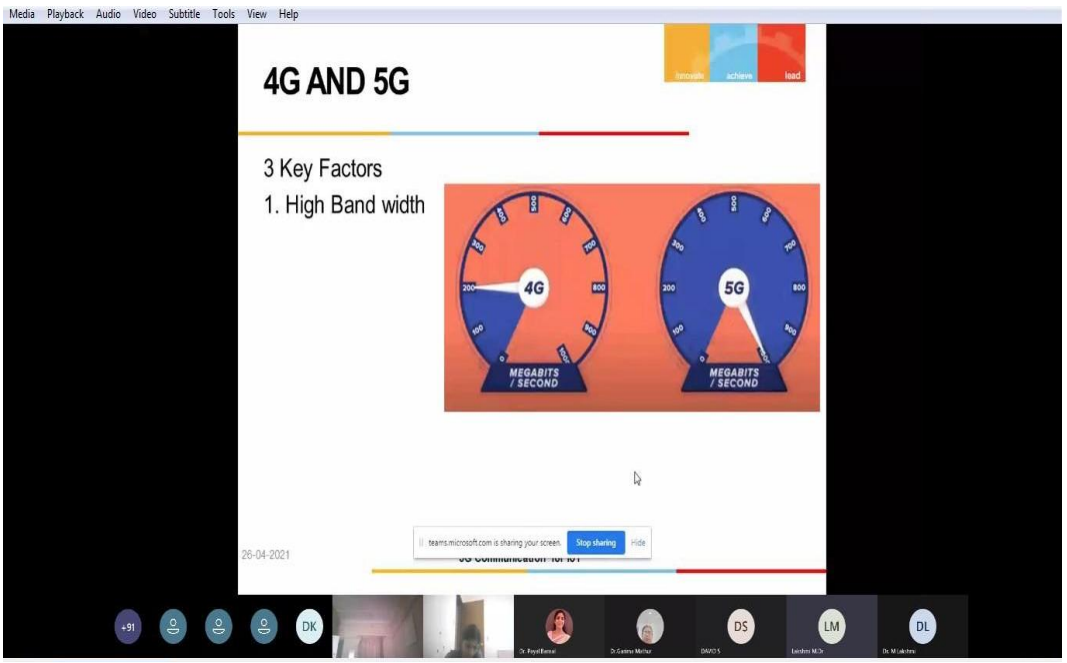


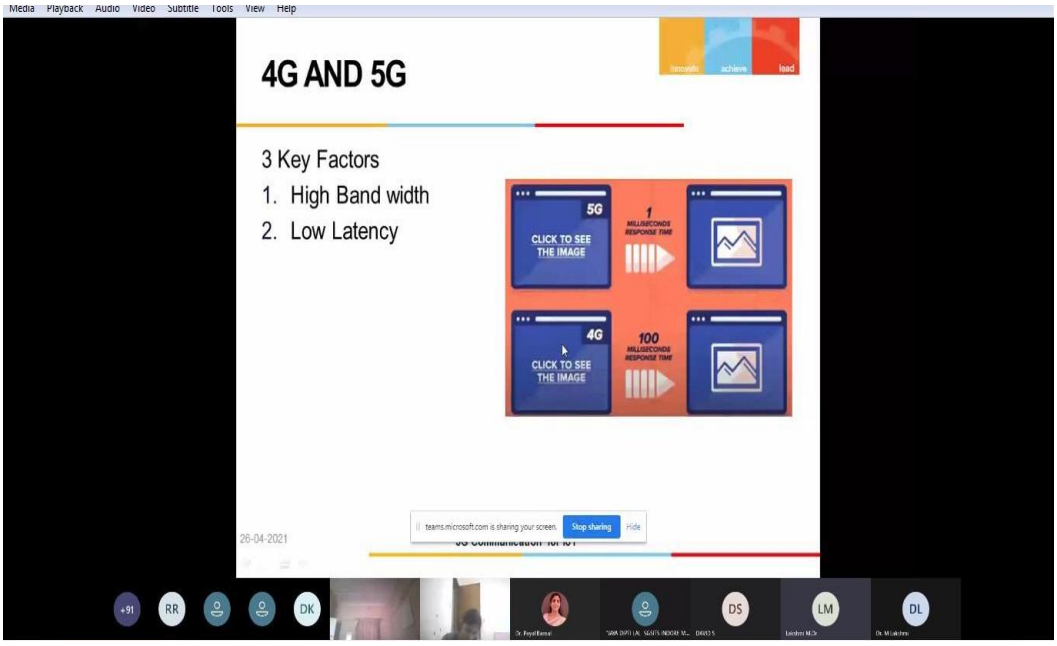
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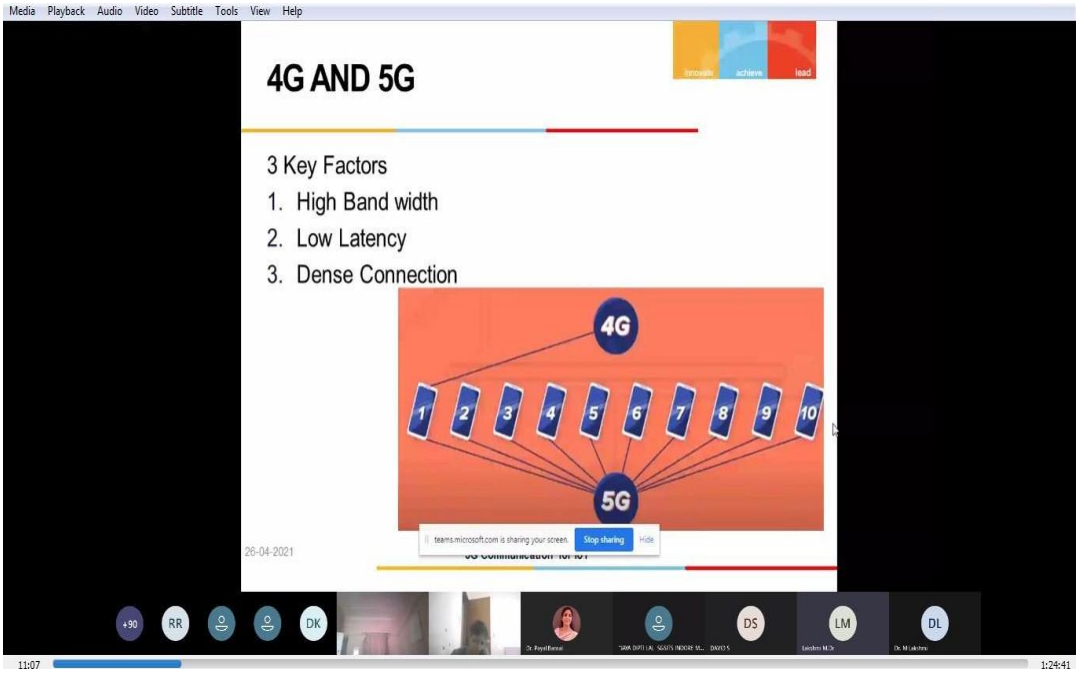


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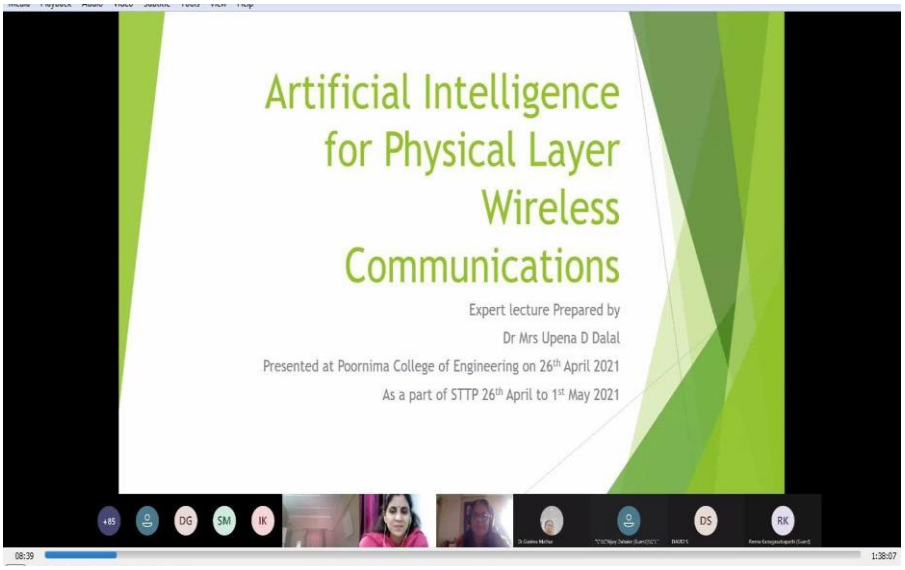


Expert Talk-3

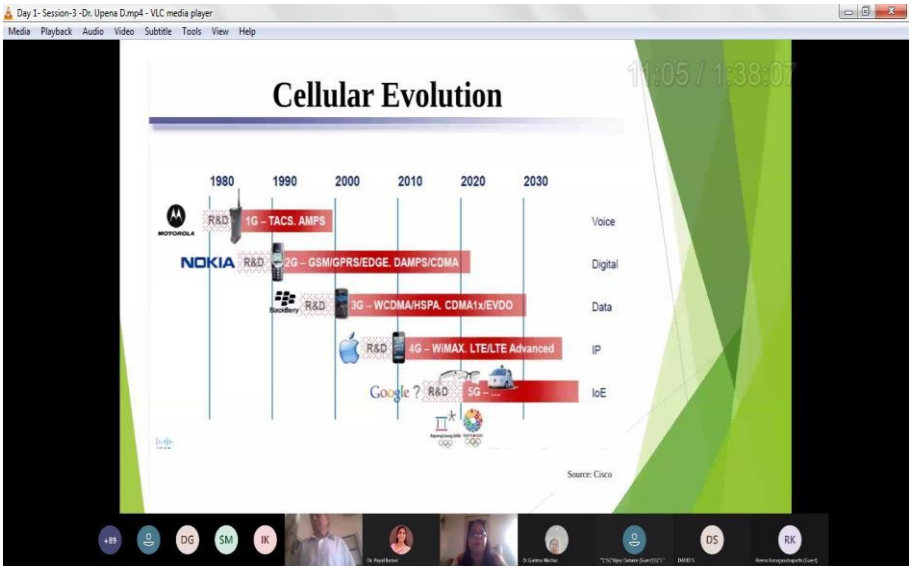
Topic: Artificial Intelligence for Physical Layer Wireless Communications

Resource Person: Dr. Upena. D. Dalal, Professor and Ex-Head

Venue: online

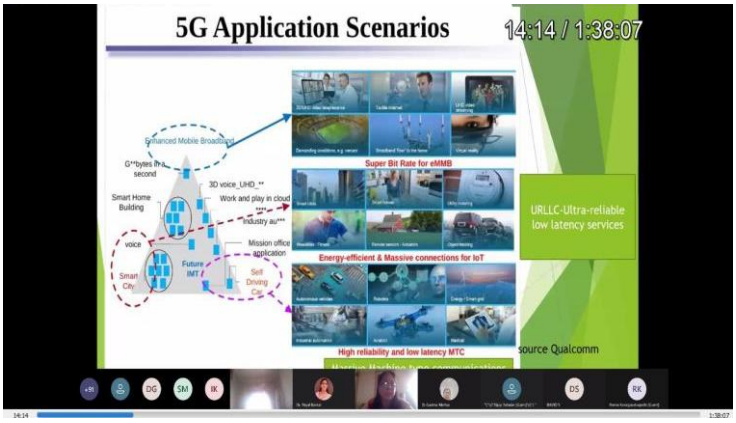


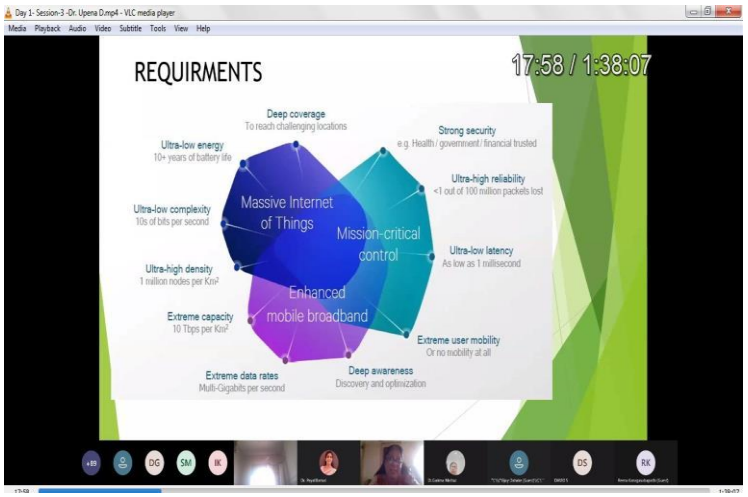
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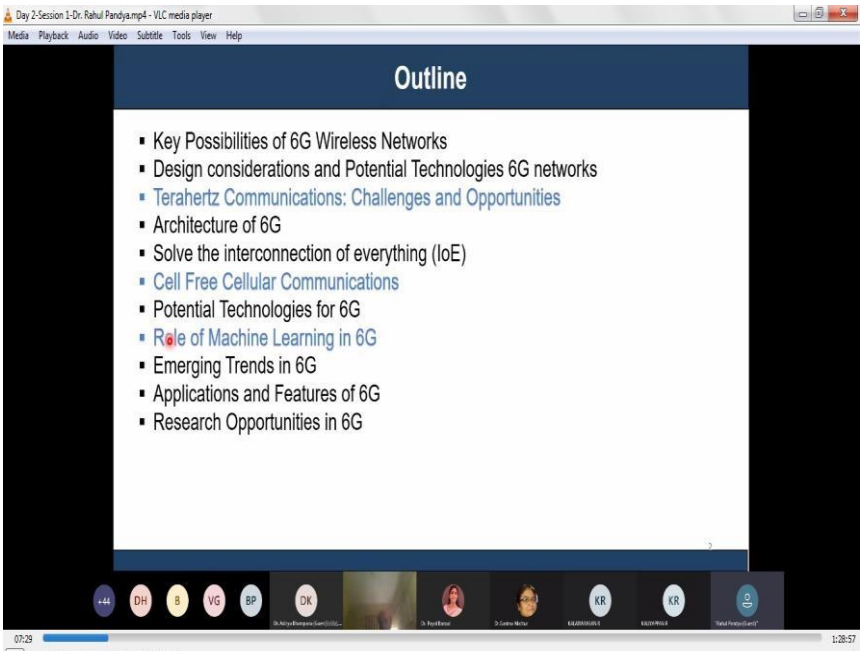
Expert Talk-4

Topic: 6G Vision, Potential Technologies and Challenges

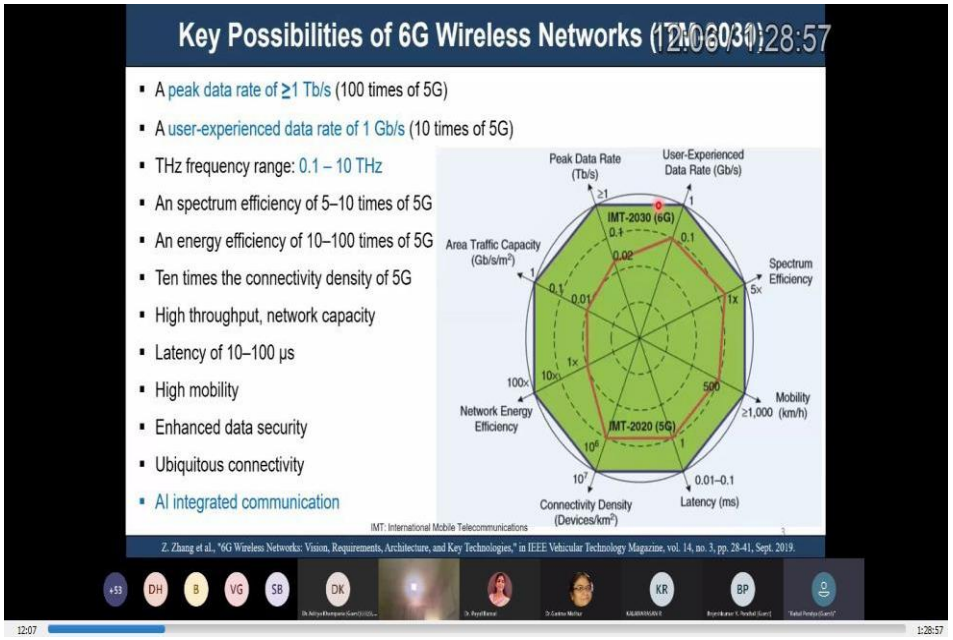
Resource Person: Dr. Rahul Pandya, Assistant Professor

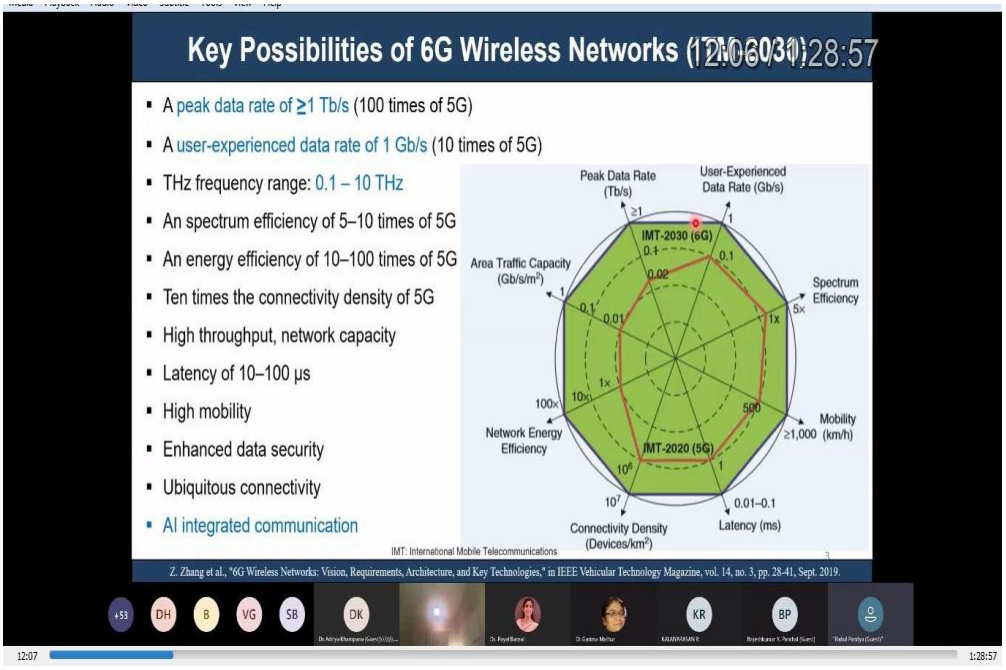
Venue: online



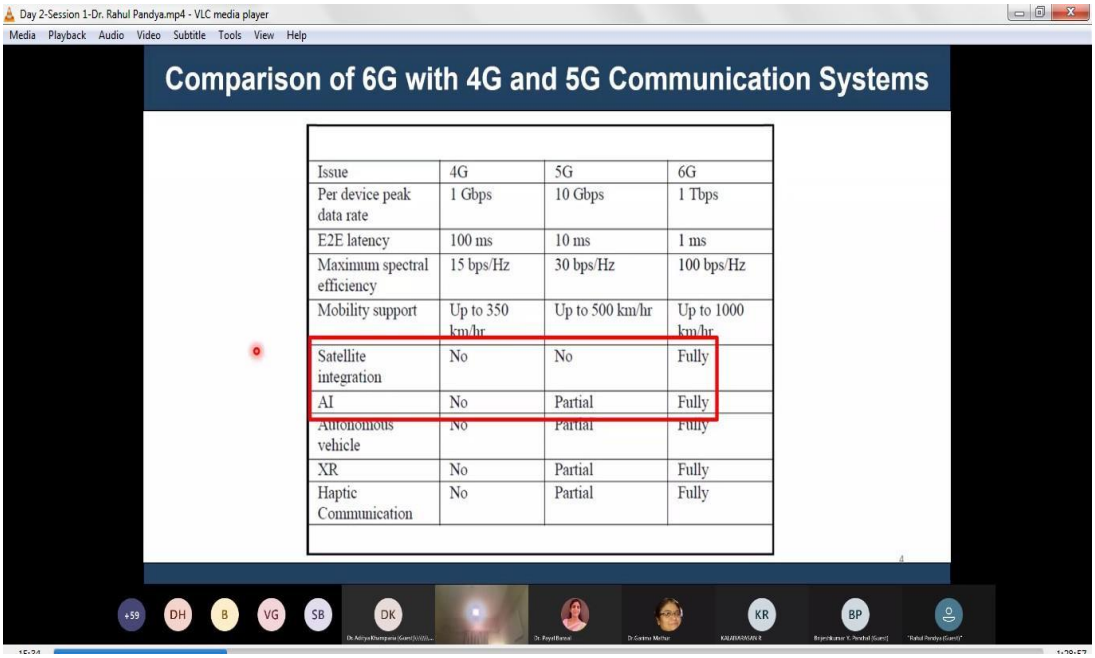


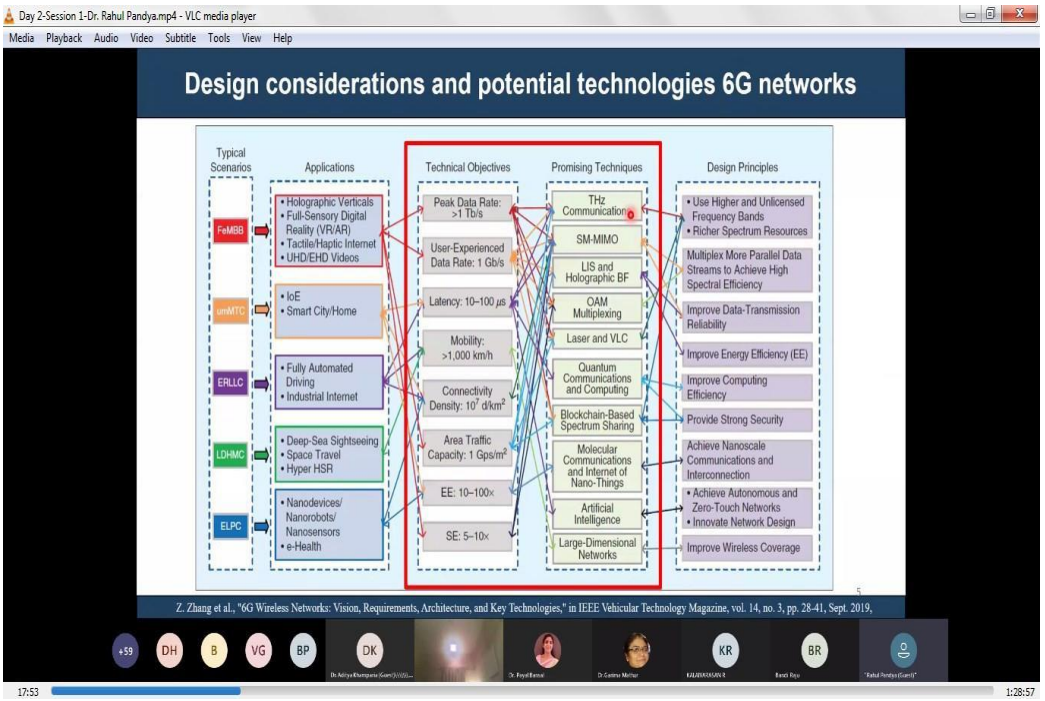
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





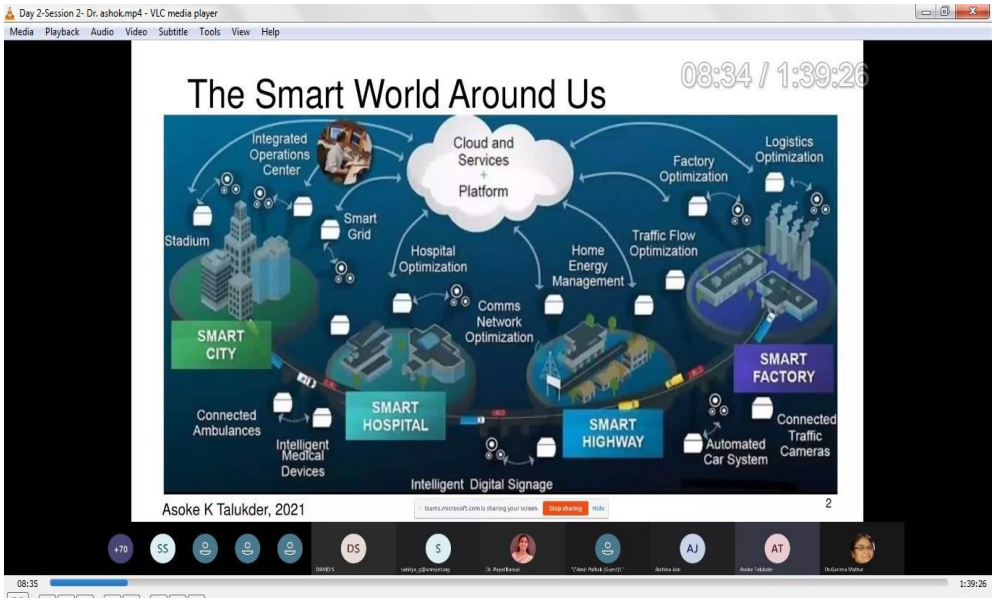
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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Expert Talk-5

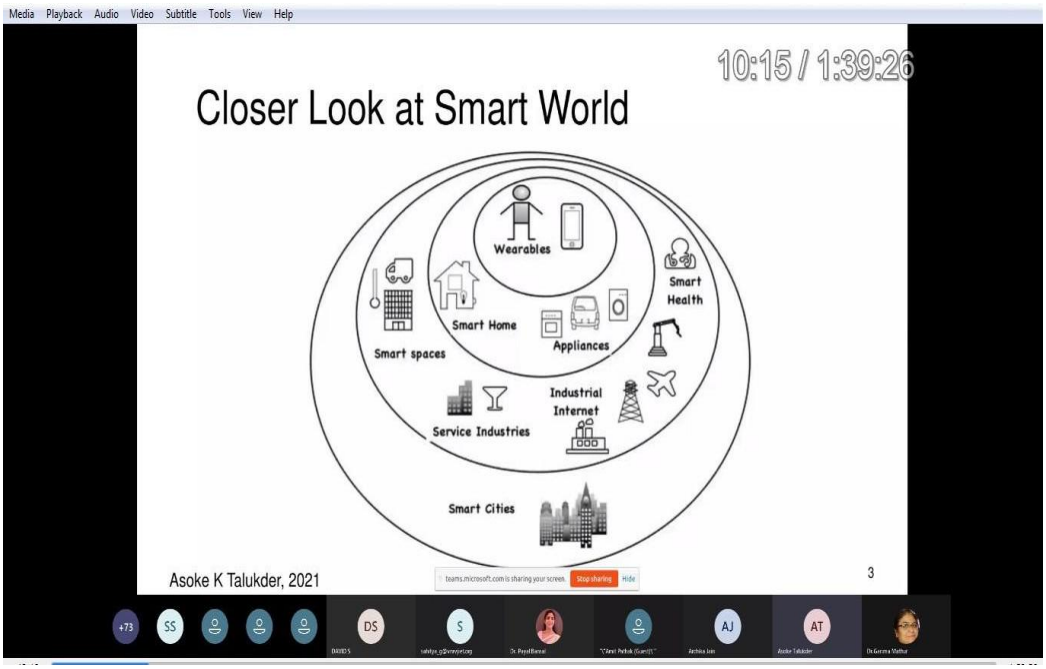
Topic: WoT and AIoT: Technologies for the Smart Connected World Resource Person: Dr Asoke K Talukder, Chief Science & Technology Officer

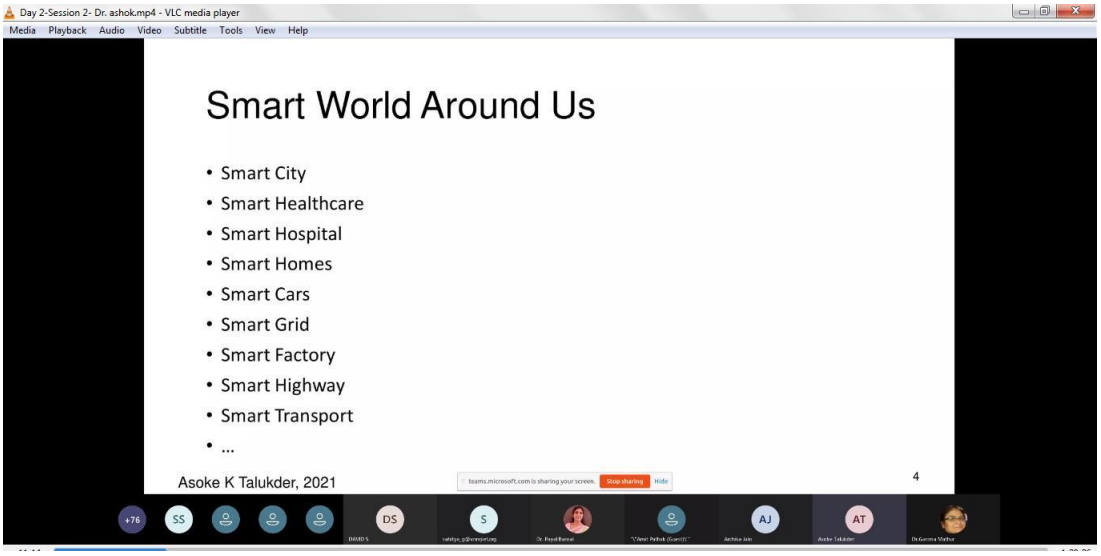
Venue: online



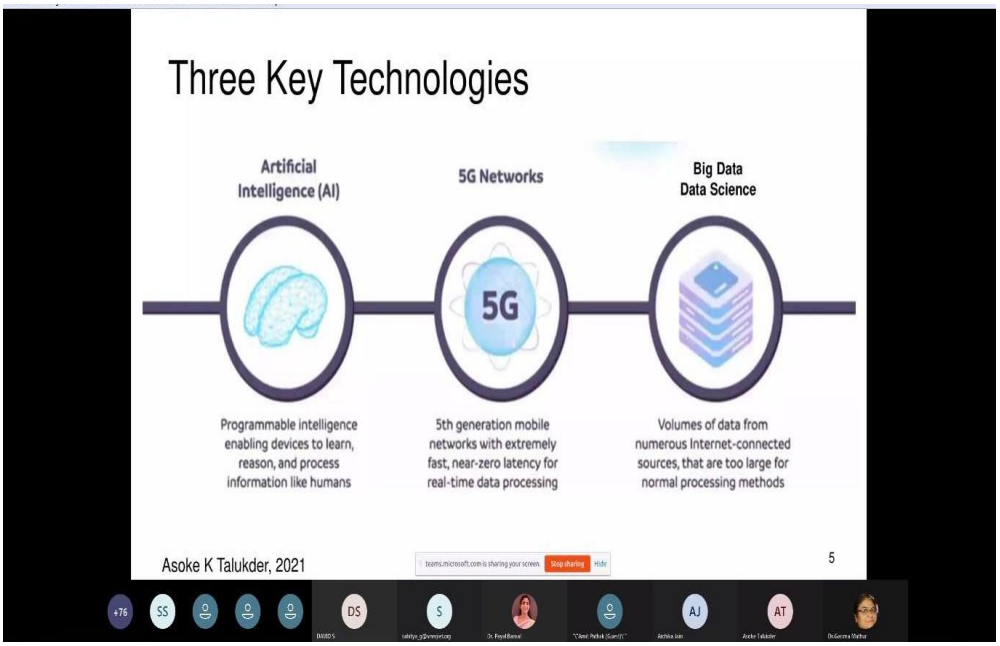


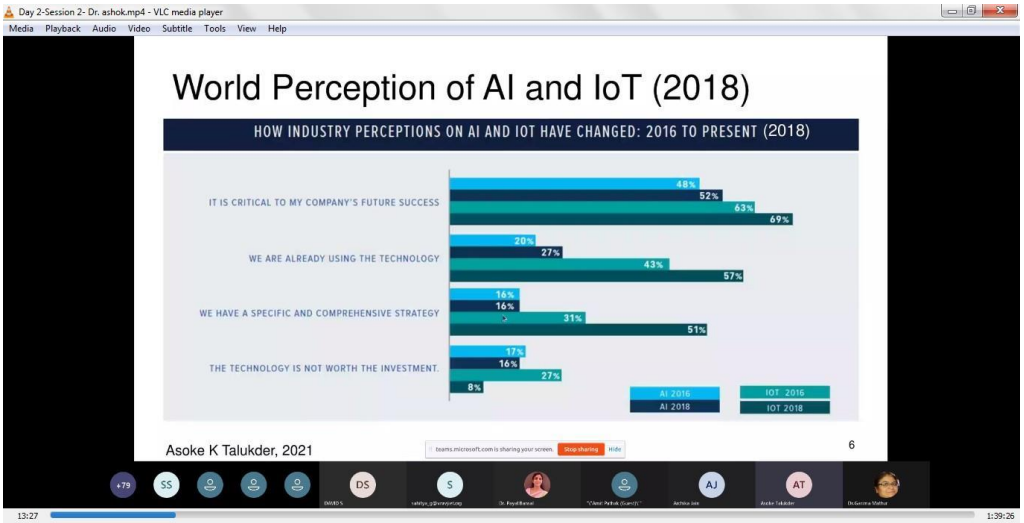
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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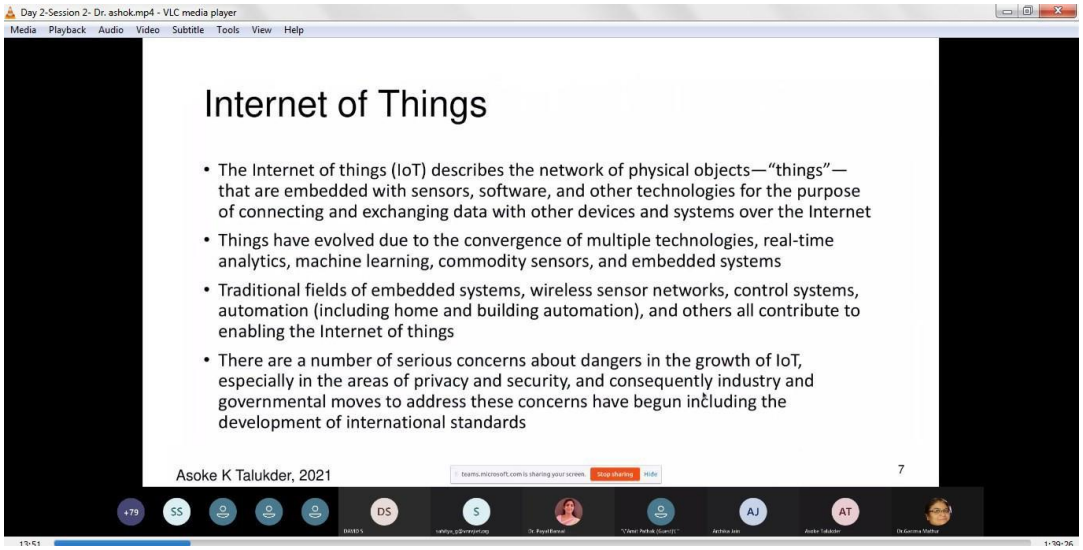


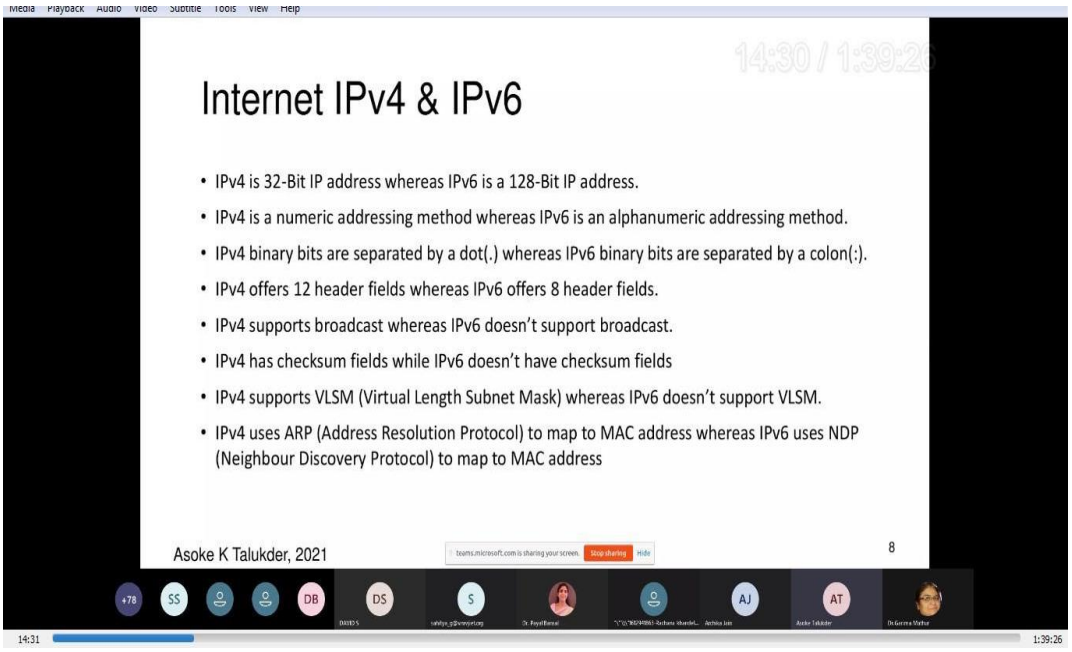


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B.E., M.E., Ph.D.
Director
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Expert Talk-6

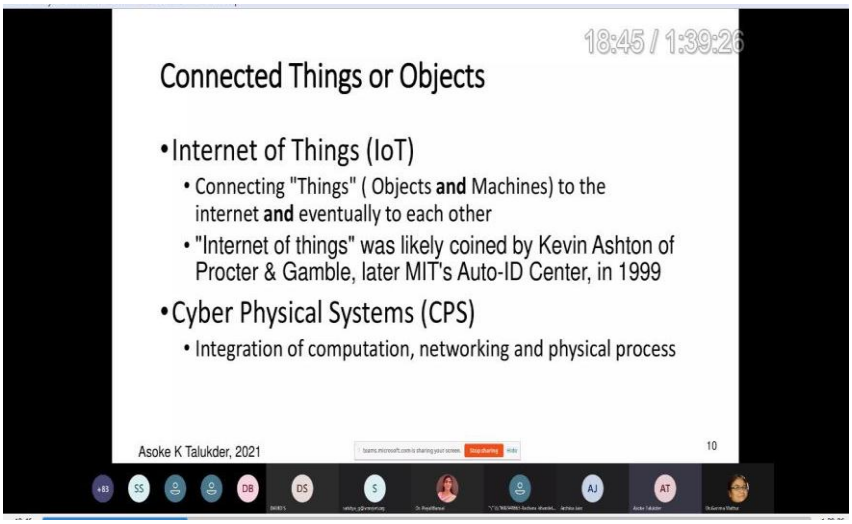
Topic: The Fundamental Principles of Deep Learning including Back Propagation
Resource Person: Lyla B.Das, Associate Professor
Venue: online





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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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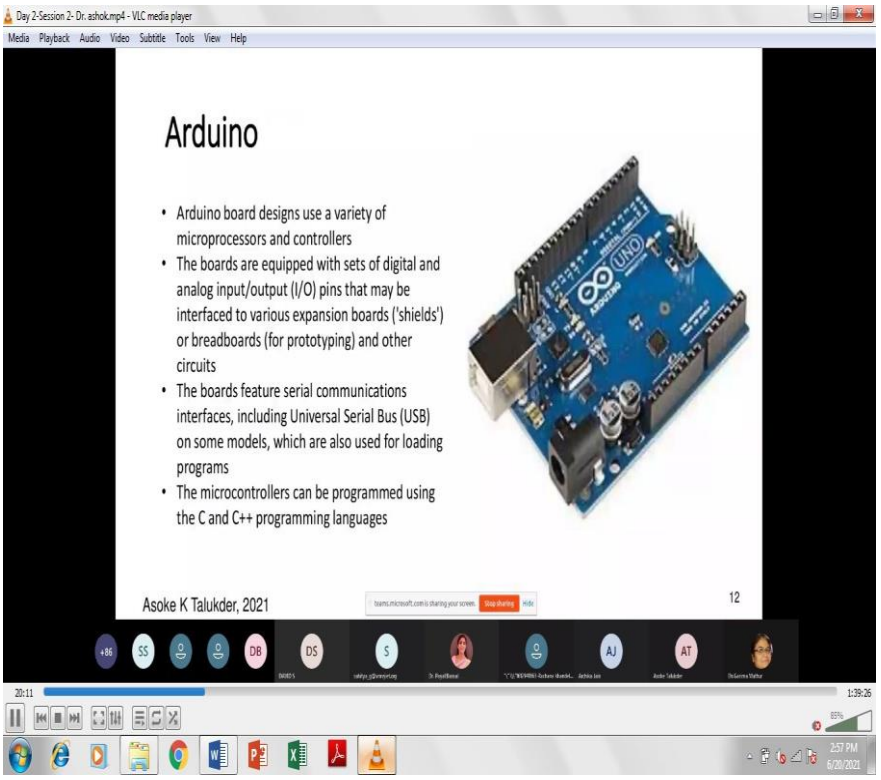


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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Expert Talk-7

Topic: Stochastic geometry analysis of 5G network Resource Person: Dr. Sudharsan, Assistant Professor

Venue: Online



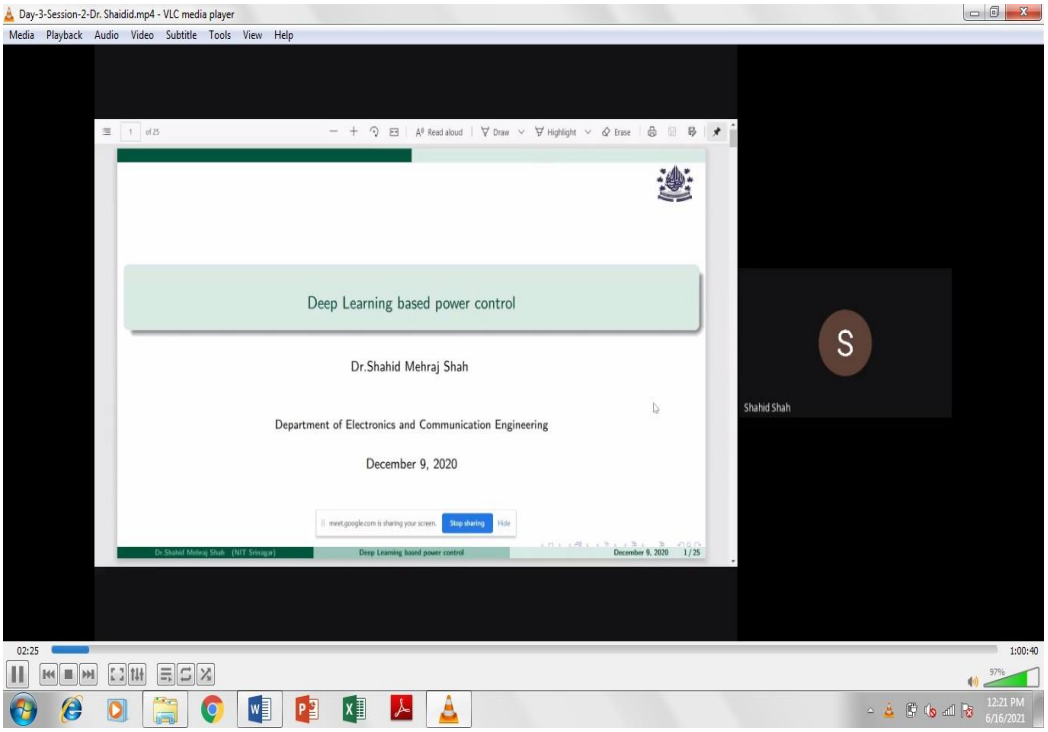
Expert Talk-8

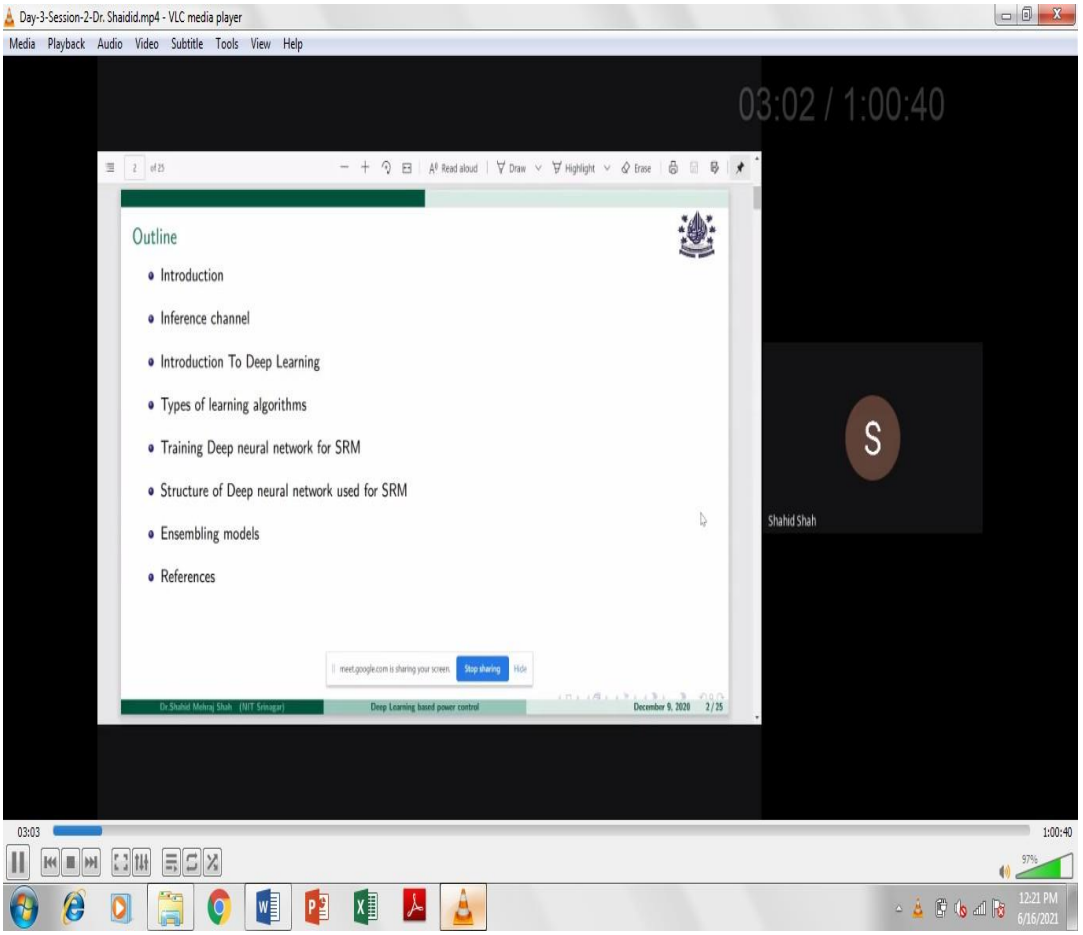
Topic: Spectral- and Energy-Efficient Techniques for 5G and Beyond Wireless Networks

Resource Person: Dr. Prabhat Kumar Upadhyay, Associate Professor

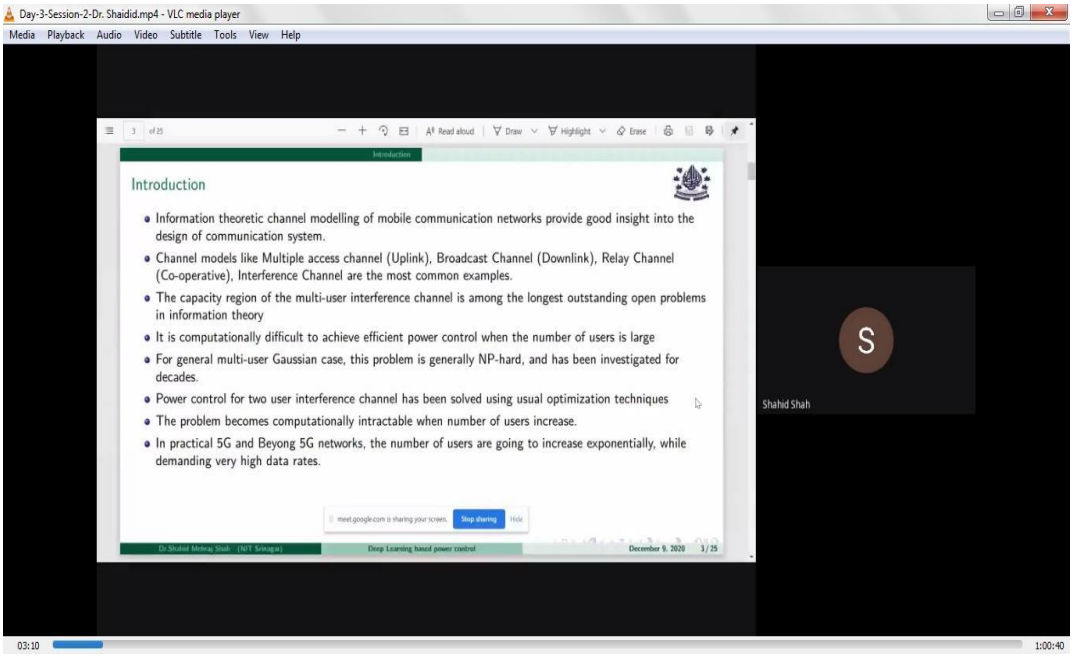
Venue: online

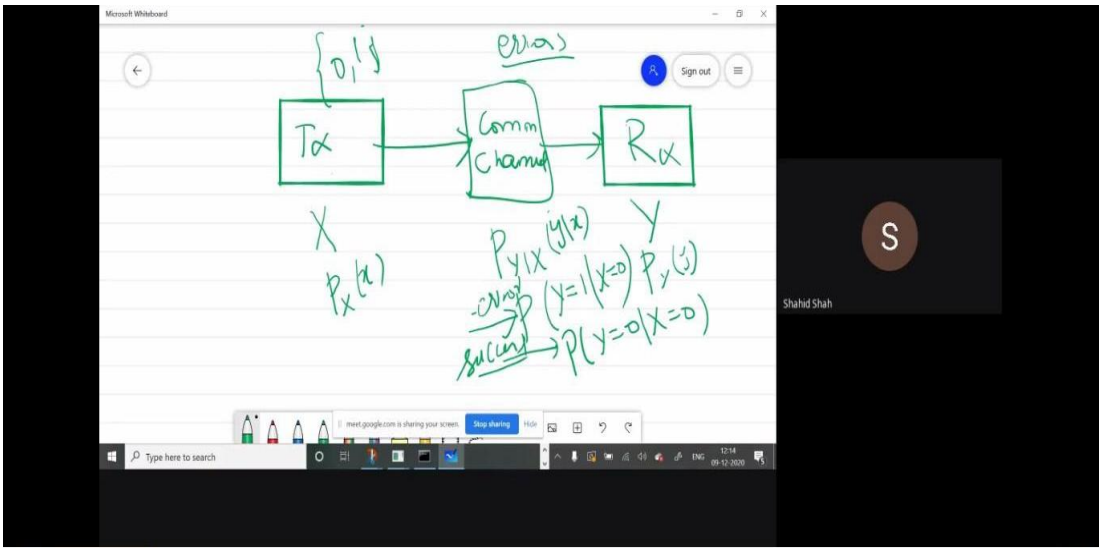
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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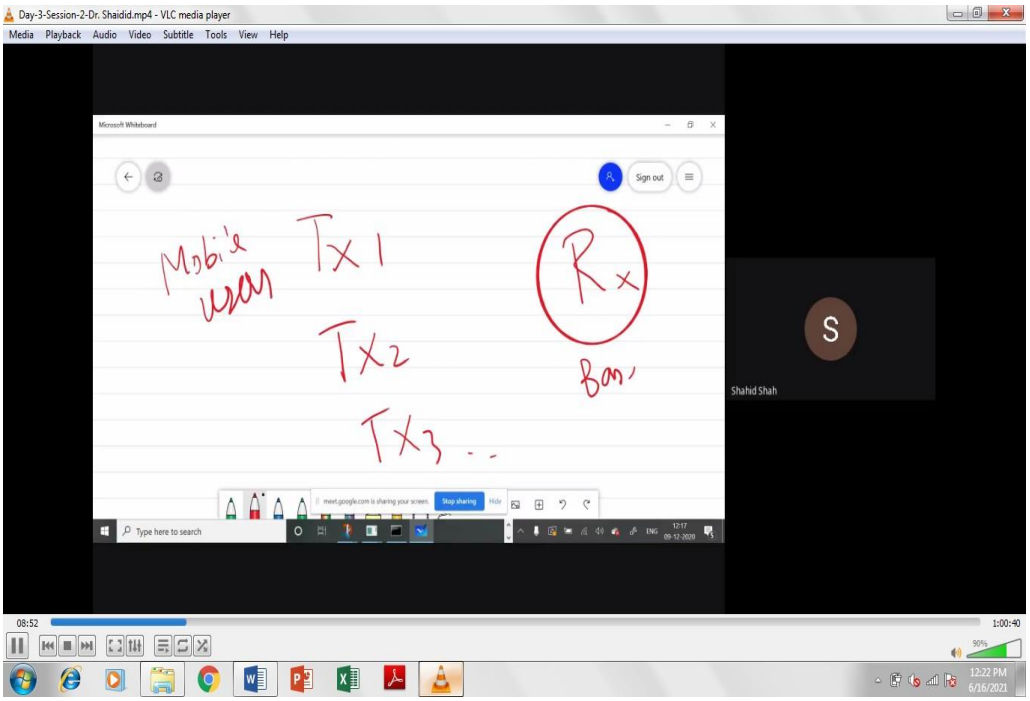


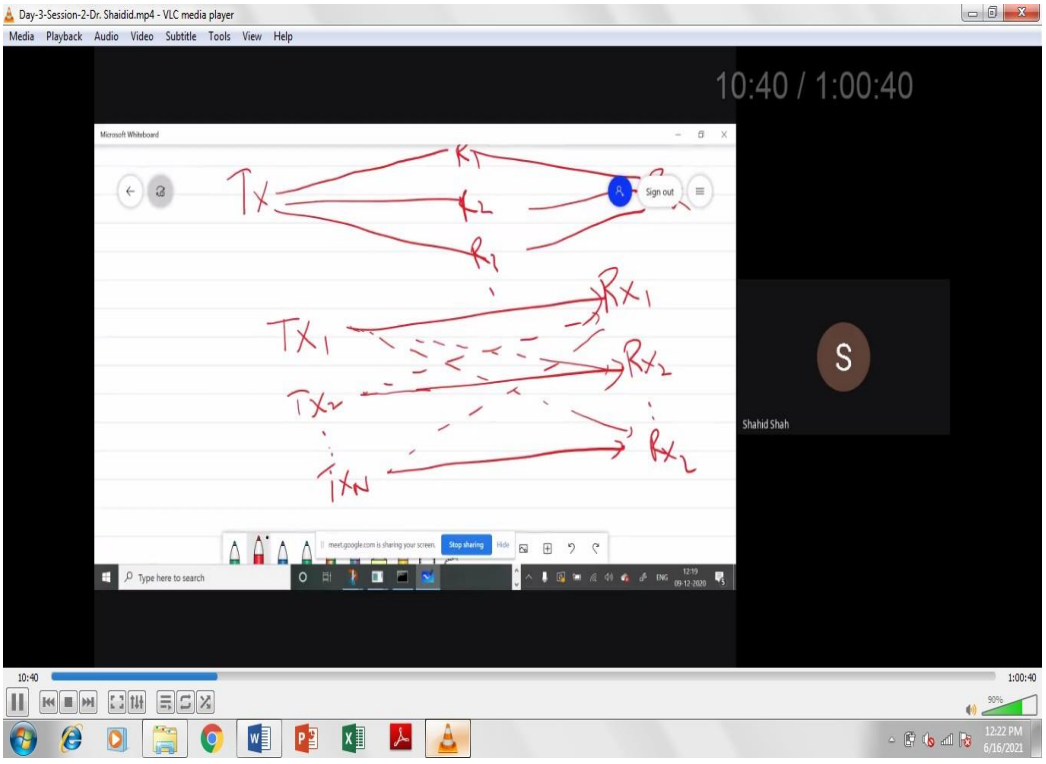
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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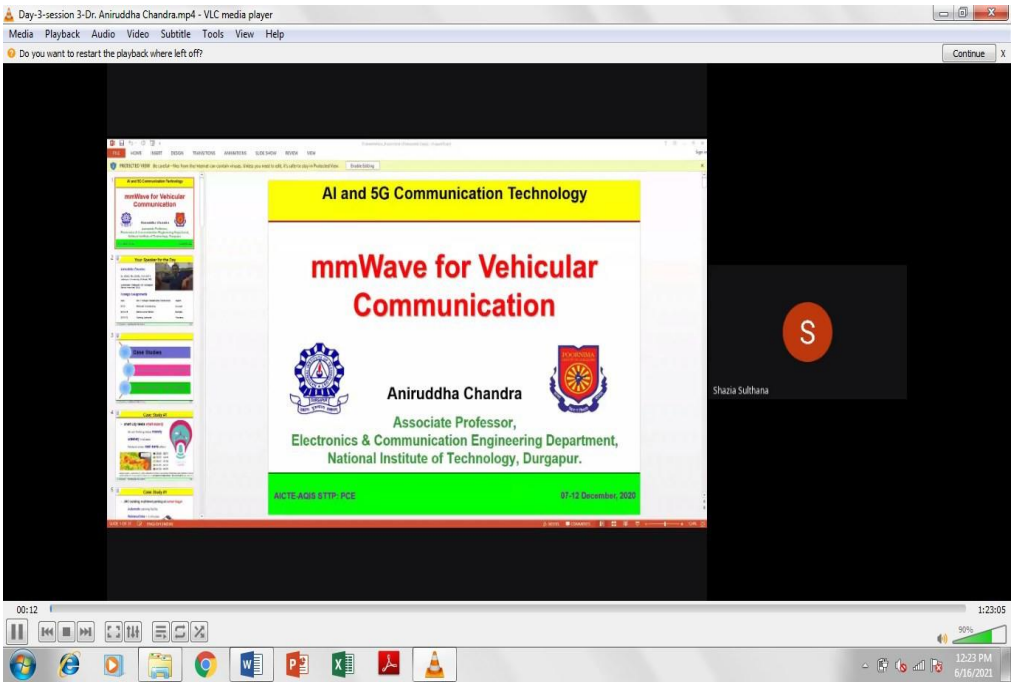
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B.E., M.E., Ph.D.
Director
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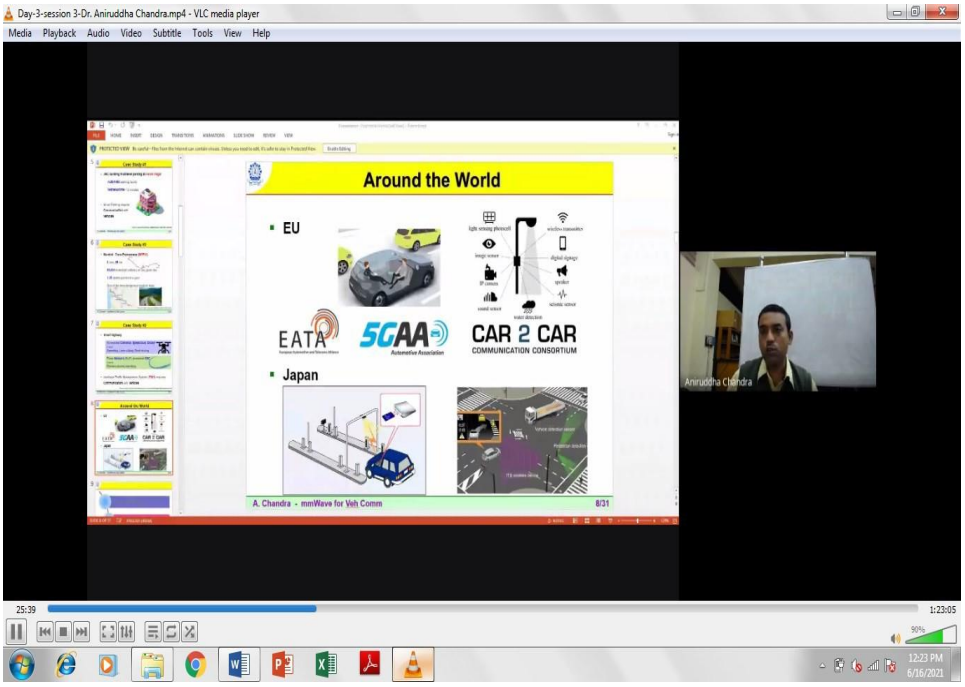
Expert Talk-9

Topic: AI Trending - from Local Data to 5G Communications

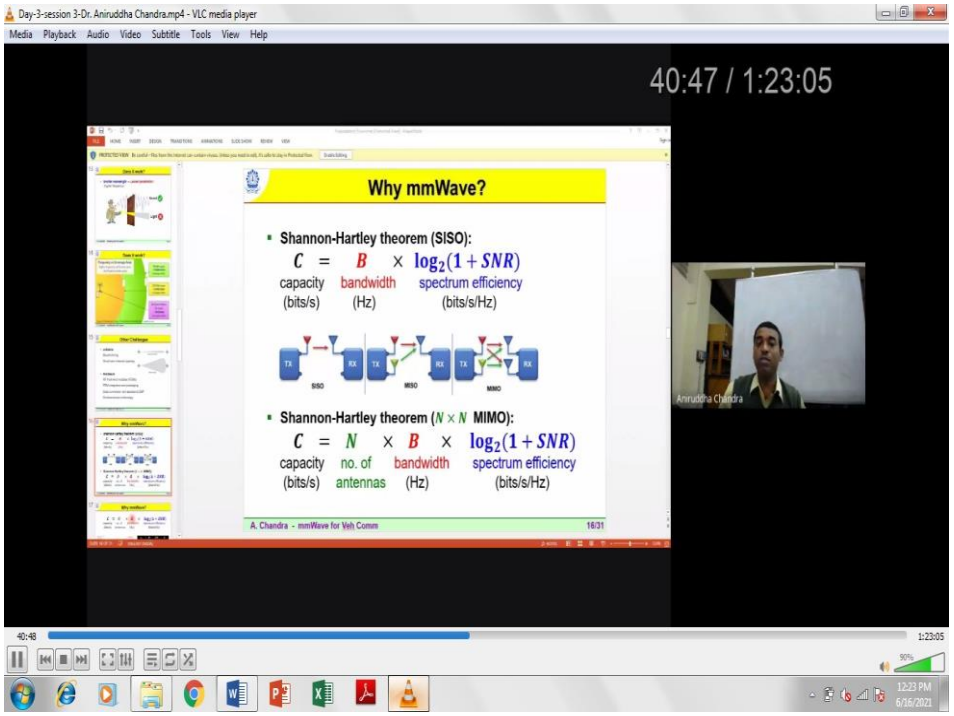
Resource Person: Dr. Sudan Jha, Professor

Venue: online





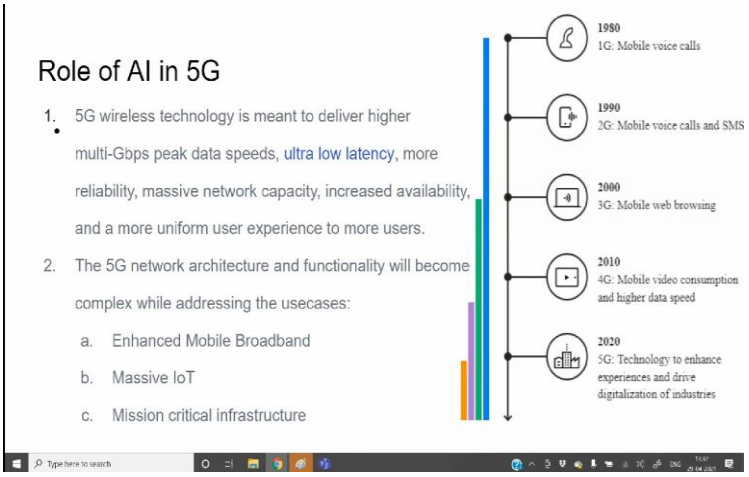
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B.E., M.E., Ph.D.
Director
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Expert Talk-10

Topic: Automated Grading of Oil Palm Fruits using Fuzzy Logic and Rough Set Theory.

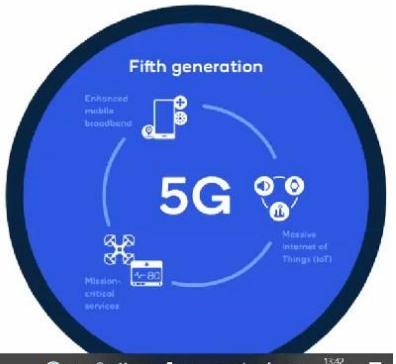
Resource Person: Dr. Gaurang Patkar, Associate Professor – Head of Department Venue: online



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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Role of AI in 5G

- Increased complexity in the management of a vast number of devices and huge data. AI and ML will help to reduce this complexity
- AI assists in making mobile networks more proactive and immediately responsive to the needs of customers.



Reinforcement Learning

- Reinforcement Learning is a feedback-based Machine learning technique in which an agent learns to behave in an environment by performing the actions and seeing the results of actions. For each good action, the agent gets positive feedback, and for each bad action, the agent gets negative feedback or penalty.

- **The agent learns automatically using feedbacks without any labeled data.**The agent interacts with the environment and explores it by itself. The primary goal of an agent in reinforcement learning is to improve the performance by getting the maximum positive rewards.

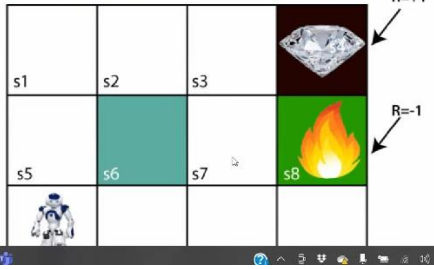
Maze Example

The maze is consisting of an S_6 block, which is a **wall**, S_8 a **fire pit**, and S_4 a **diamond block.**

The agent cannot cross the S_6 block, as it is a solid wall. If the agent reaches the S_4 block, then get the **+1 reward;** if it reaches the fire pit, then gets **-1 reward point**. It can take four actions**: move up, move down, move left, and move right.**

The agent can take any path to reach to the final point, but he needs to make it in possible fewer steps. Suppose the agent considers the path **S9-S5-S1-S2-S3**, so he will get the +1-reward point.

The agent will try to remember the preceding steps that it has taken to reach the final step. To memorize the steps, it assigns 1 value to each previous step.



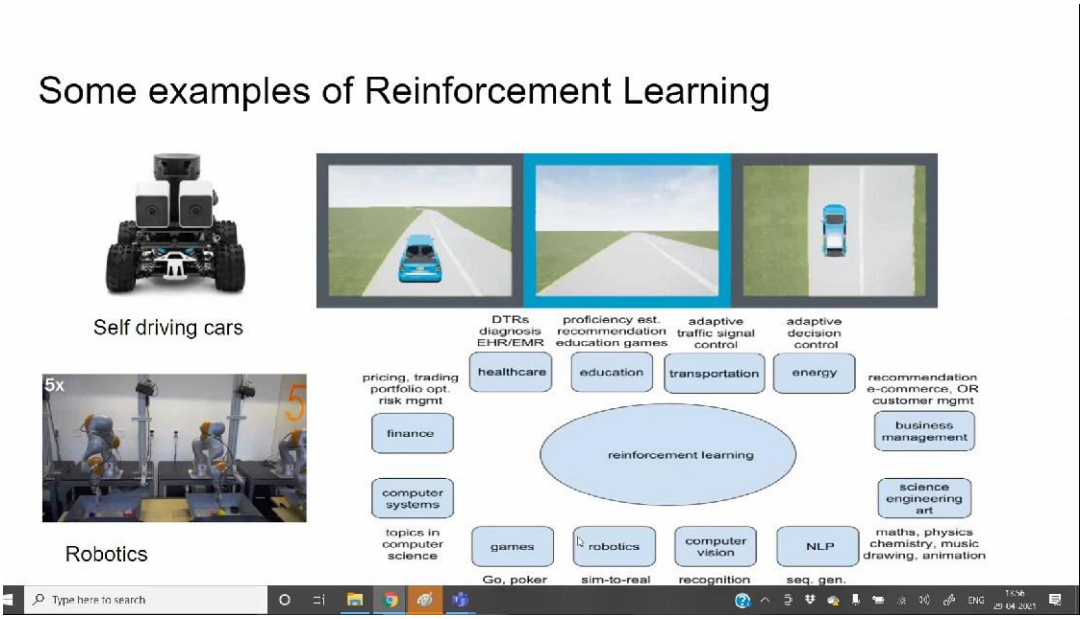
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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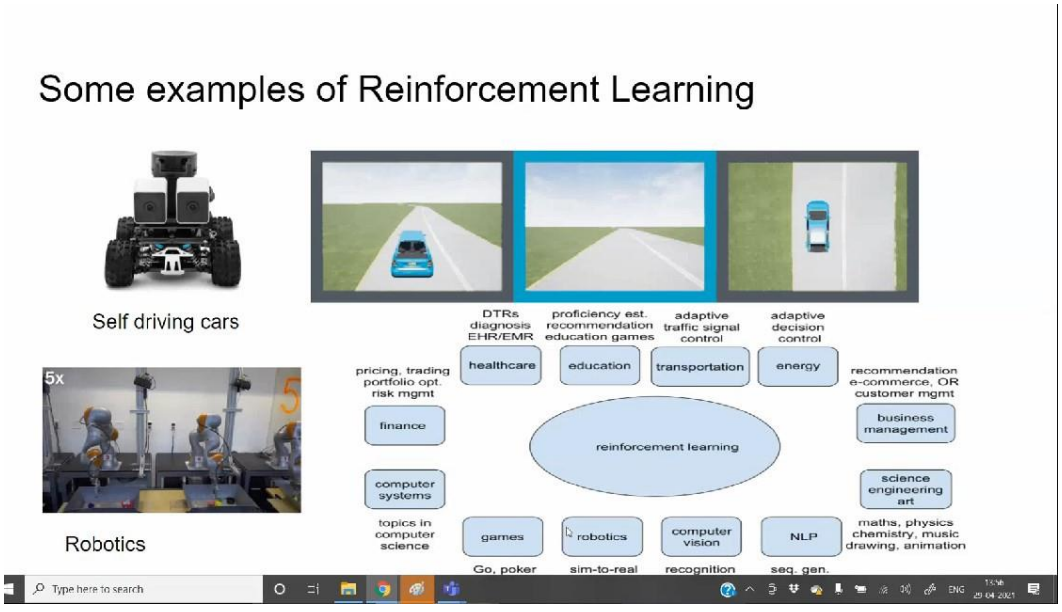
Expert Talk-11

Topic: Edge Analytics to Address Challenges of Smart Healthcare

Resource Person: Dr. Rajveer S. Shekhawat, Provost& Director

Venue: online

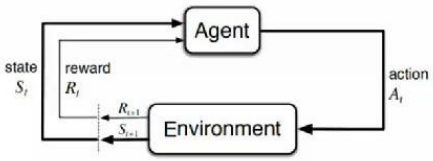




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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Terms used in Reinforcement Learning

- **Agent():** An entity that can perceive/explore the environment and act upon it.
- **Environment():** A situation in which an agent is present or surrounded by. In RL, we assume the stochastic environment, which means it is random in nature.
- **Action():** Actions are the moves taken by an agent within the environment.
- **State():** State is a situation returned by the environment after each action taken by the agent.
- **Reward():** A feedback returned to the agent from the environment to evaluate the action of the agent.
- **Policy():** Policy is a strategy applied by the agent for the next action based on the current state.



Markov Property

Markov Process is a memoryless process with a sequence of random states S_1, S_2, ..., S_t that uses the Markov Property.

Markov Property: *Future is Independent of the past given the present.*

$$P[S_{t+1} \mid S_t] = P[S_{t+1} \mid S_1, \ldots, S_t]$$

If the agent is present in the current state S1, performs an action a1 and move to the state s2, then the state transition from s1 to s2 only depends on the current state and future action and states do not depend on past actions, rewards, or states.

Example: A **Chess game, the players only focus on the current state and do not need to remember past actions or states.**

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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Expert Talk-12

Topic: Reinforcement Learning Application in 5G and Beyond Networks

Resource Person: Dr. Siba Narayan Swain, Assistant Professor

Venue: online

Reward Function: $\mathcal{R}_s^a = \mathbb{E}[R_{t+1} \mid S_t = s, A_t = a]$

State-action value function:

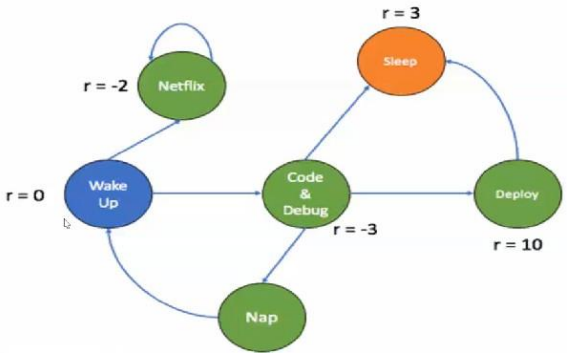
$$q_\pi(s,a) \doteq \mathbb{E}_\pi[G_t \mid S_t = s, A_t = a] = \mathbb{E}_\pi\left[\sum_{k=0}^{\infty} \gamma^k R_{t+k+1} \,\middle|\, S_t = s, A_t = a\right].$$

This function specifies the **how good** it is for the agent to take action (a) in a state (s) with a **policy** π

Basically, it tells us the value of performing a certain action(a) in a state(s) with a policy π

Example of Markov Decision Process

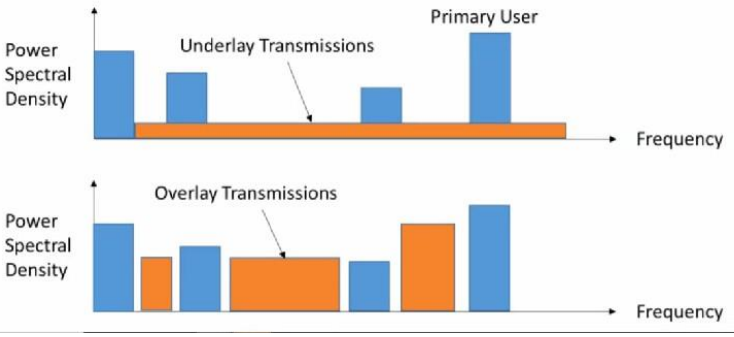
we can see that there are no more probabilities.In fact now our agent has choices to make like after waking up ,we can choose to watch netflix or code and debug.Of course the actions of the agent are defined w.r.t some policy π and will be get the reward accordingly.



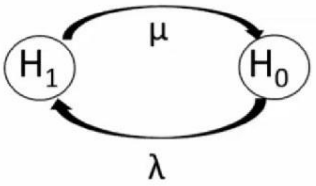
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B.E., M.E., Ph.D.
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Dynamic Spectrum Access- Cognitive Radio

Overlay - SU transmits on PU channels in an opportunistic manner whenever PUs are not transmitting.



Temporal Behavior of Primary Users



- H1 - PU transmits
- H0 - PU does not transmit

The two states or hypotheses are linked by factors such as λ (arrival rate of PU) and μ (termination rate of the PU). The temporal behaviour of the PU transmission which comprises of the arrival and termination rates, is modelled as a random Poisson Exponential Process

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B.E., M.E., Ph.D.
Director
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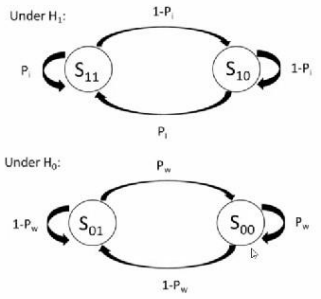
Expert Talk-13

Topic: IoT Device Localization
Resource Person: Dr. Udit

Satija, Assistant Professor

Venue: online

SU modelled as Markov Decision Process (RL)



S00 - SU does not transmit | H0
S01 - SU transmits | H0
S10 - SU does not transmit | H1
S11 - SU transmits | H1

Pi = Probability of interference - simultaneous transmissions of PU and SU

Pw = Wastage Probability - due to false alarm

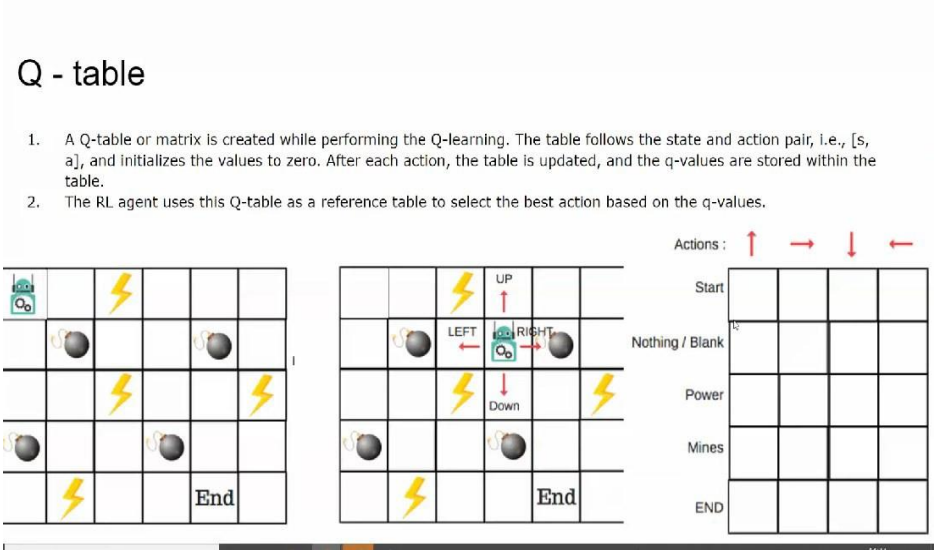
Q-Learning

Q-Learning is a straightforward and model-free reinforcement learning algorithm adopted to define the values of transition probabilities and to find an optimal policy for a MDP.

The main objective of Q-learning is to learn the policy which can inform the agent that what actions should be taken for maximizing the reward under what circumstances.

It also converges to an optimal policy given a finite action-state MDP

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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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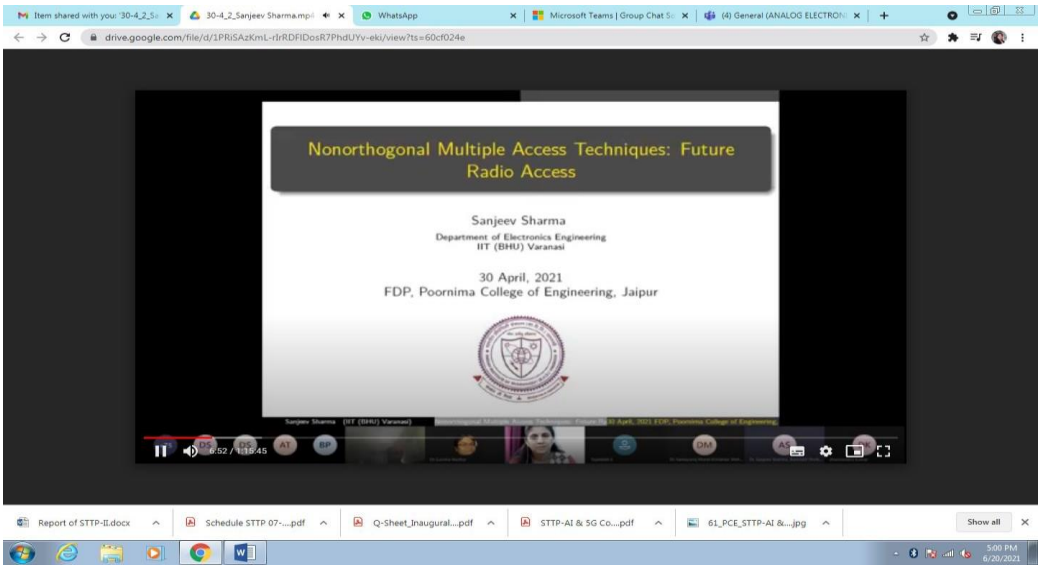


Expert Talk -14

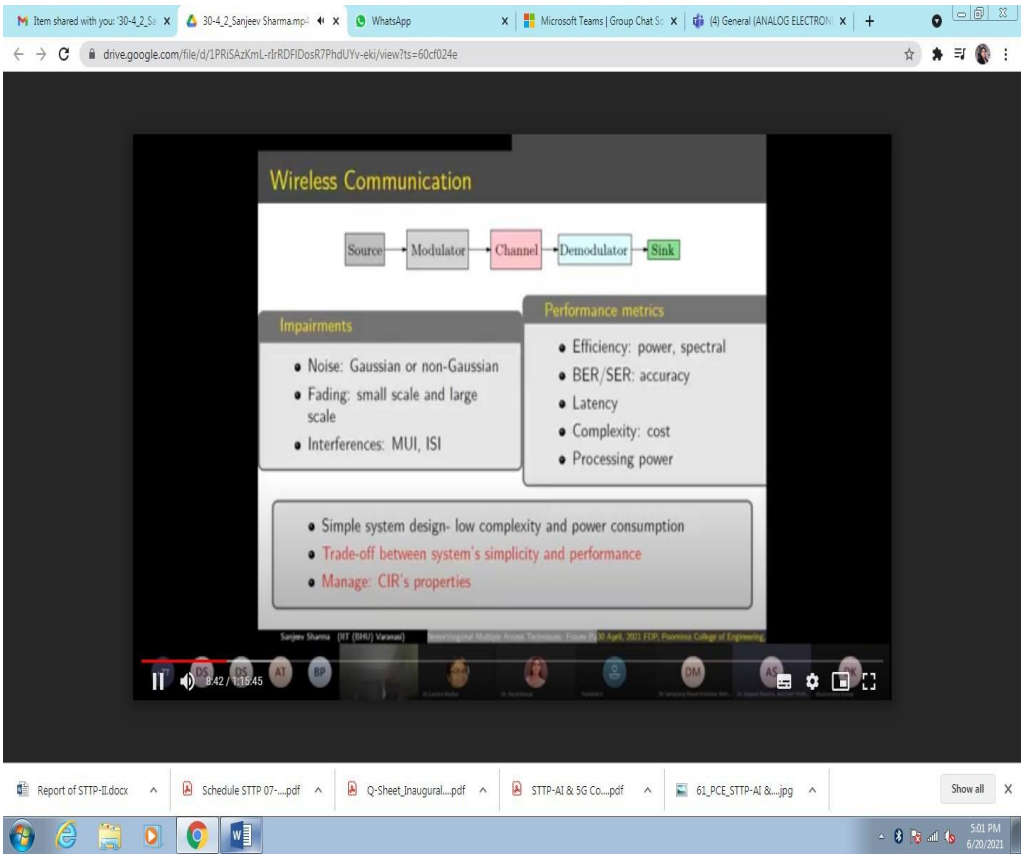
Topic: Deep Learning-Based Wireless Communications

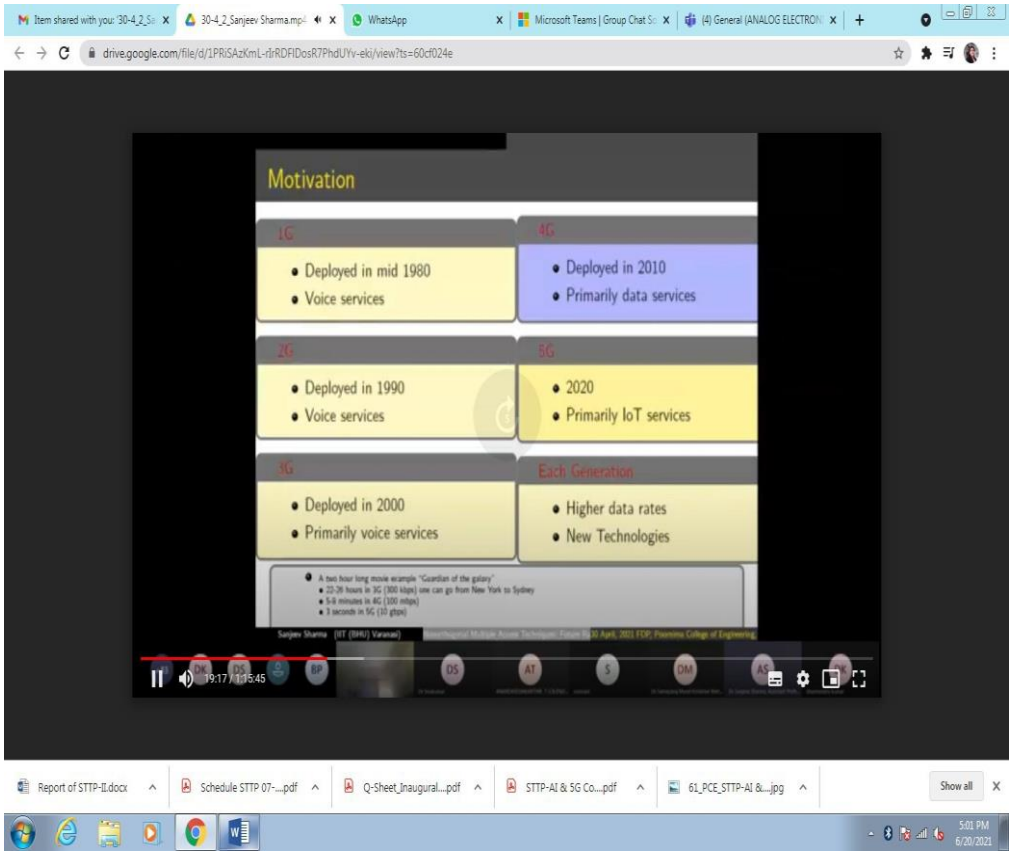
Resource Person: Dr. Sanjeev Sharma, Assistant Professor

Venue: online

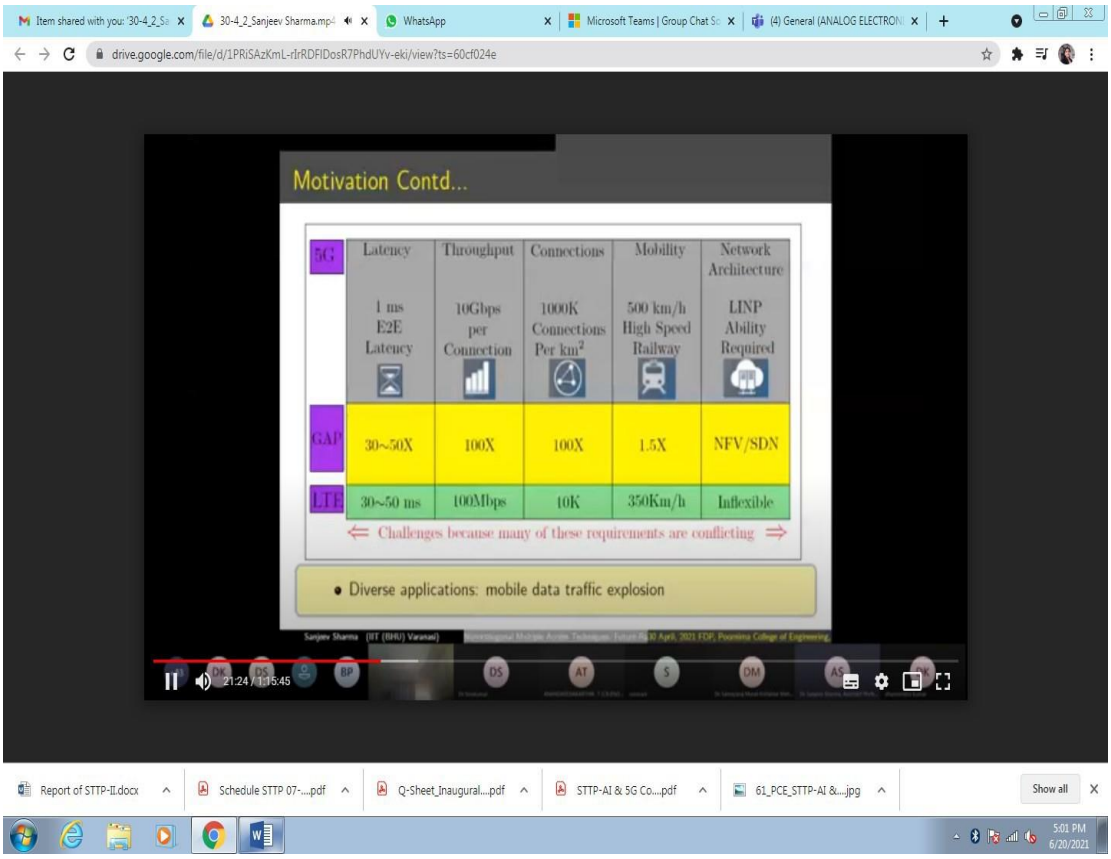


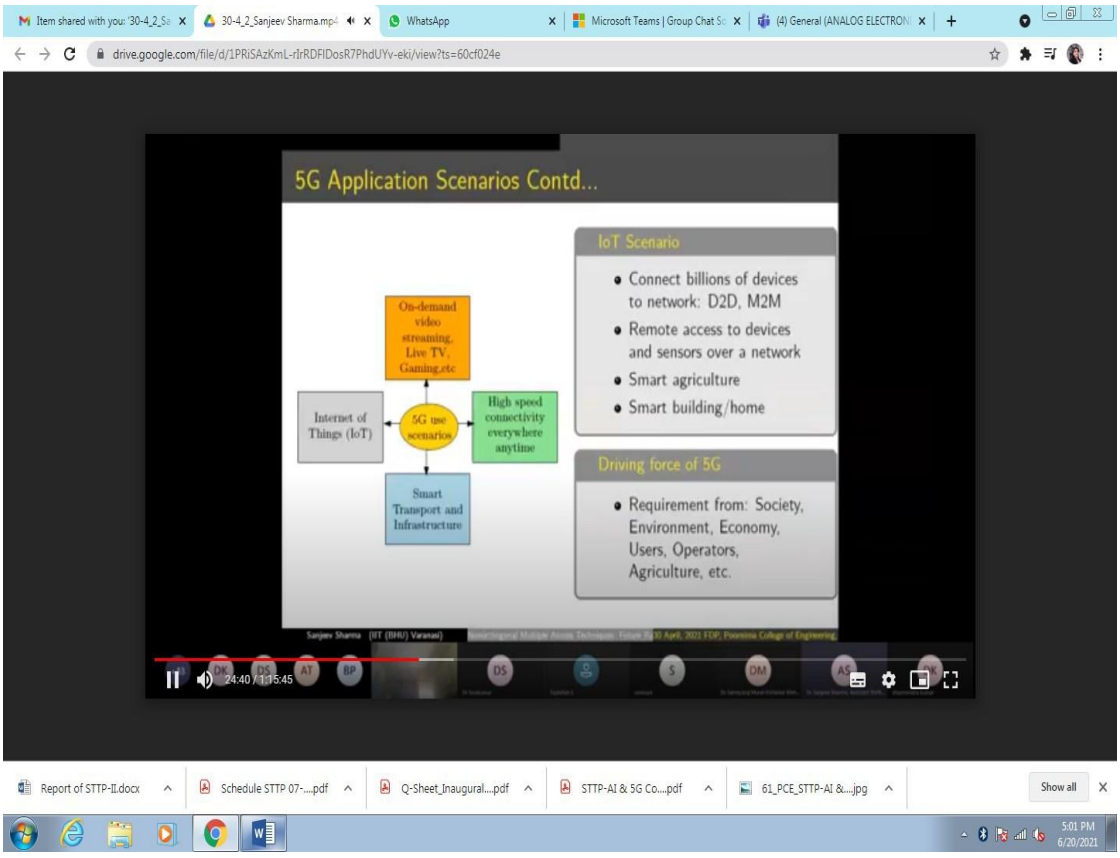
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR



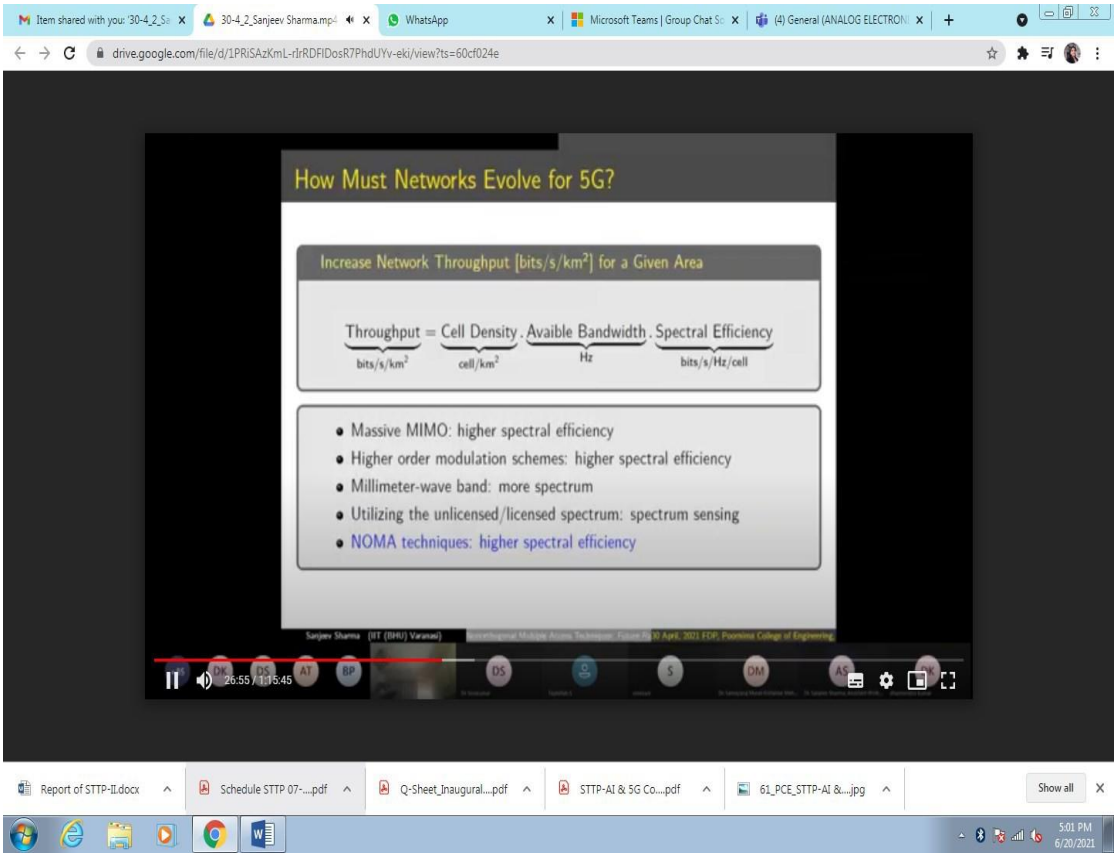


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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

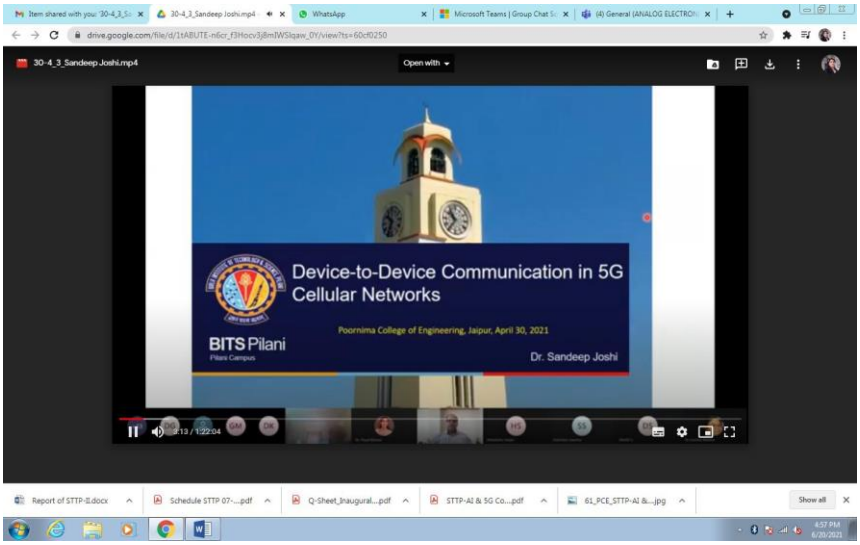


Expert Talk-15

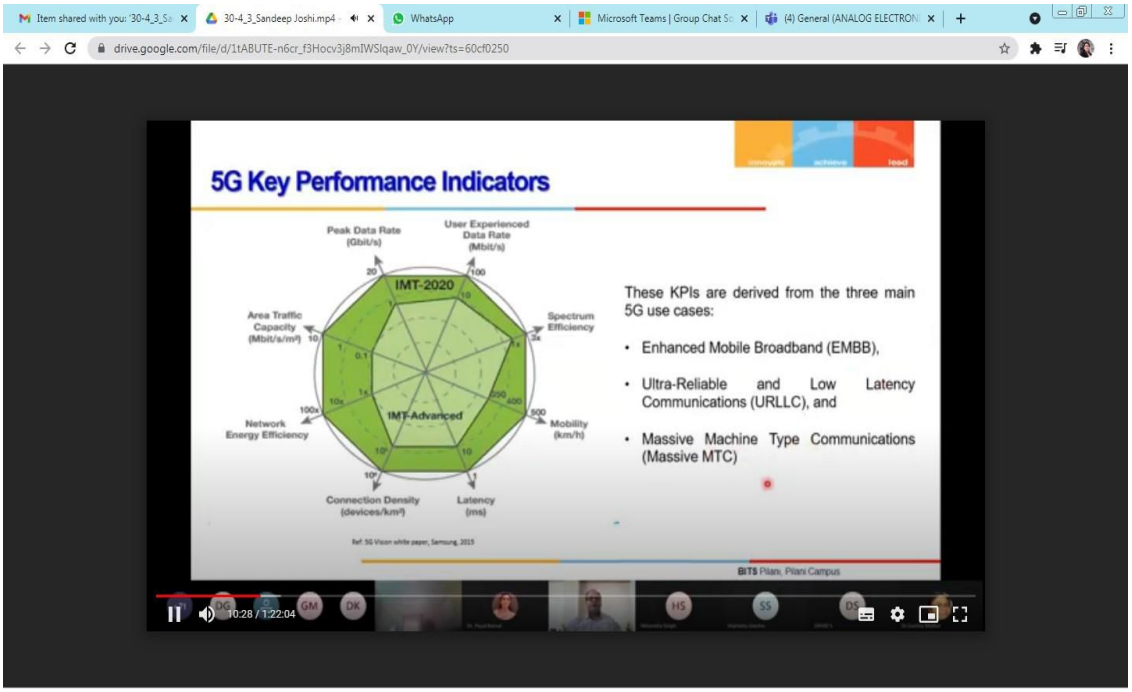
Topic: Device-to Device Communication in 5G Cellular Networks

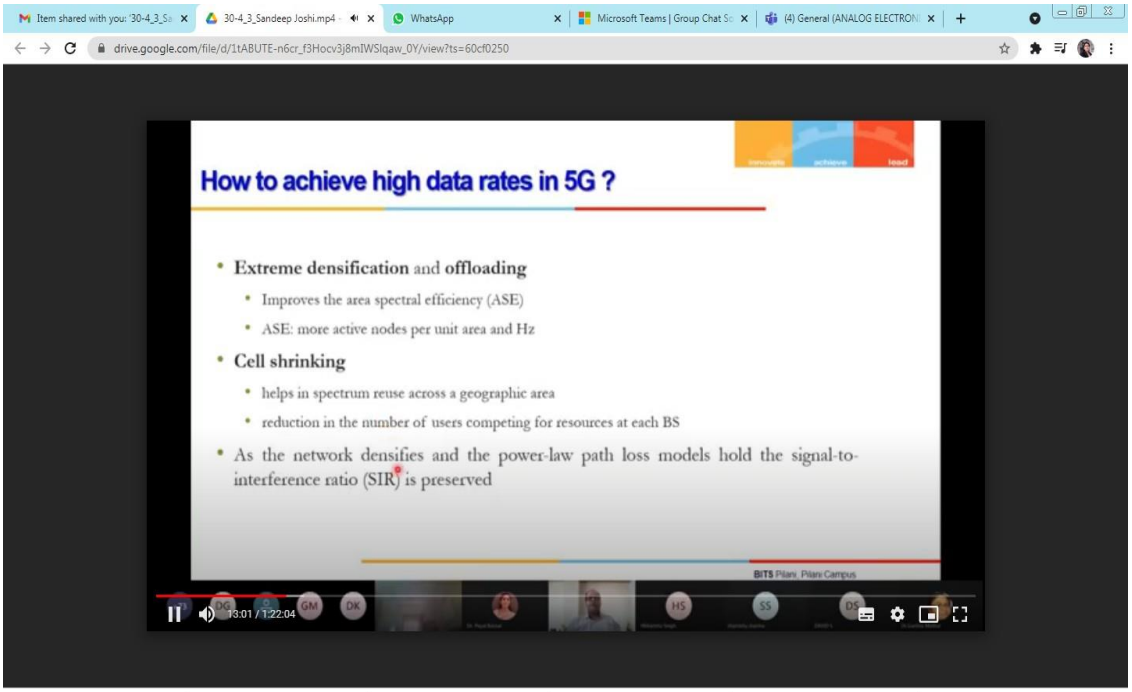
Resource Person: Dr. Sandeep Joshi, Assistant Professor

Venue: online

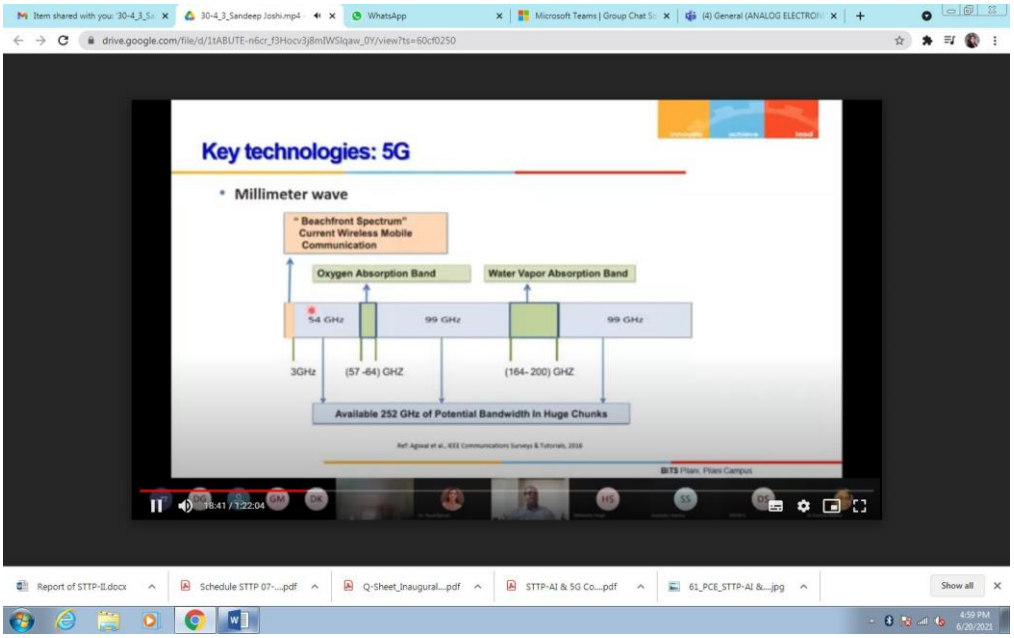


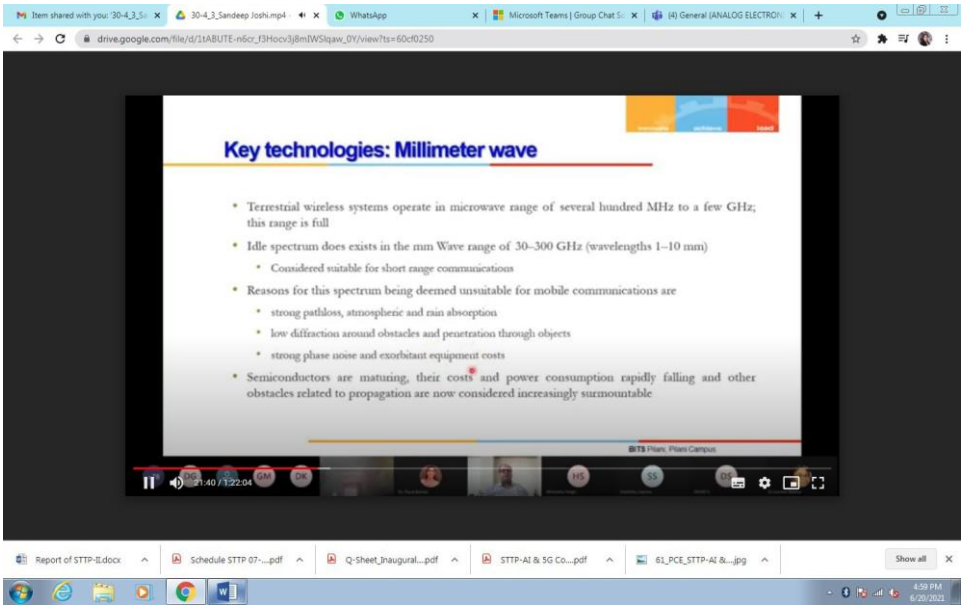
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





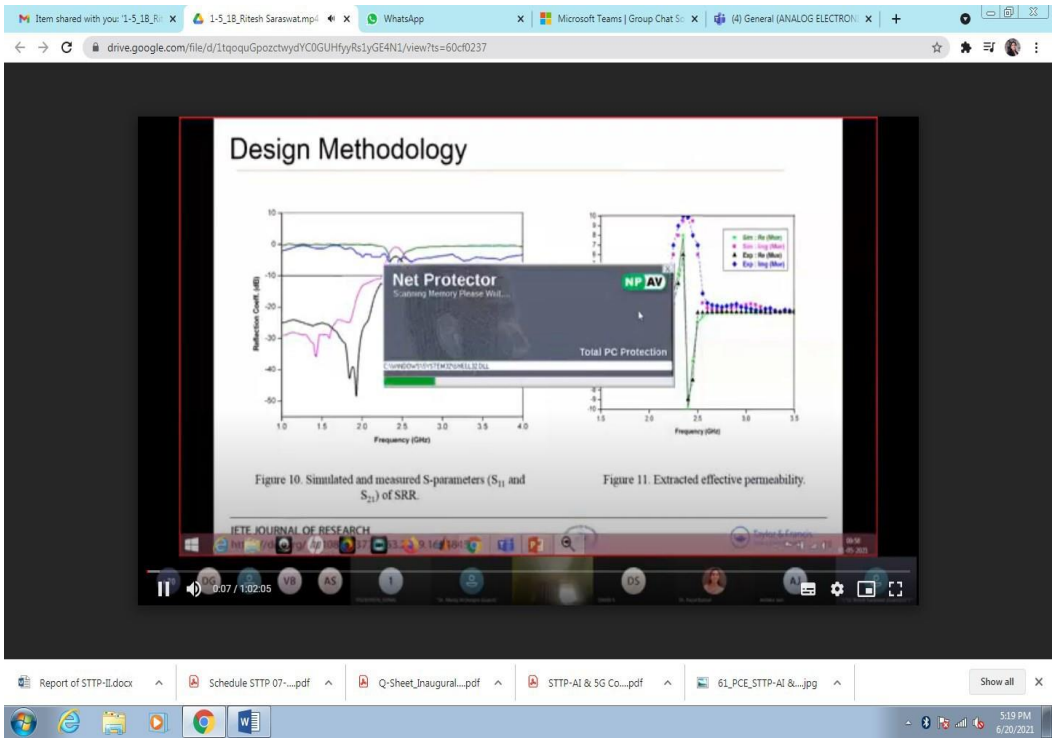
Expert Talk-16

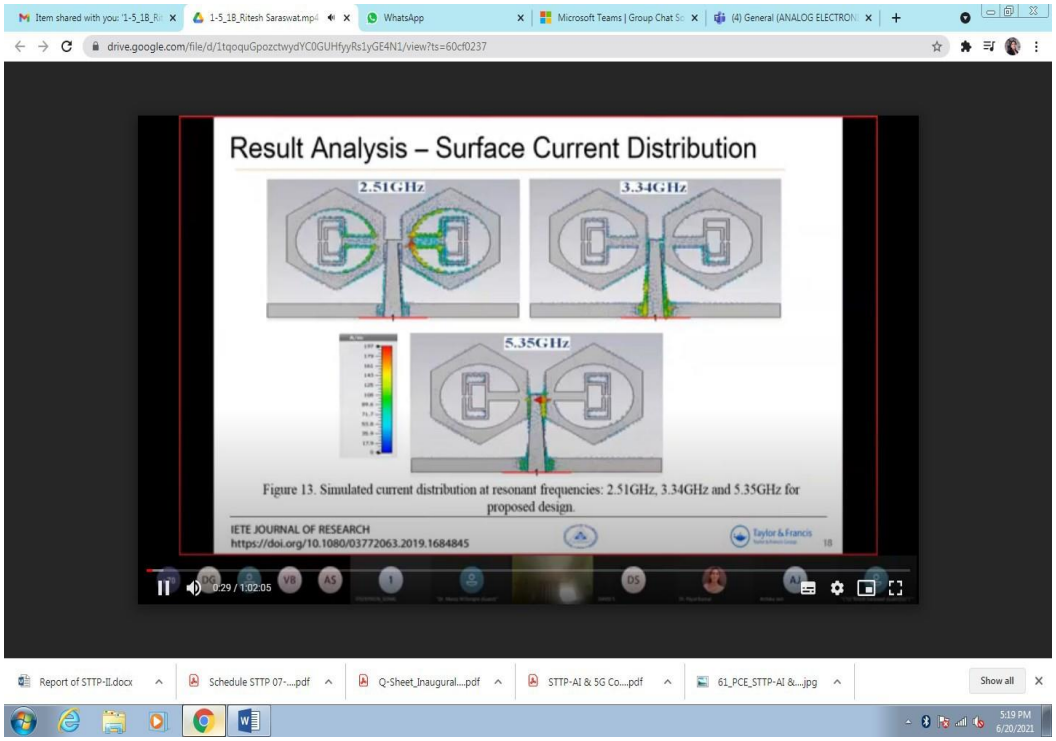
Topic: Antenna Design for Wireless Application with Implementation of Frequency BandReconfigurability Characteristics

Resource Person: Dr. Ritesh Kumar

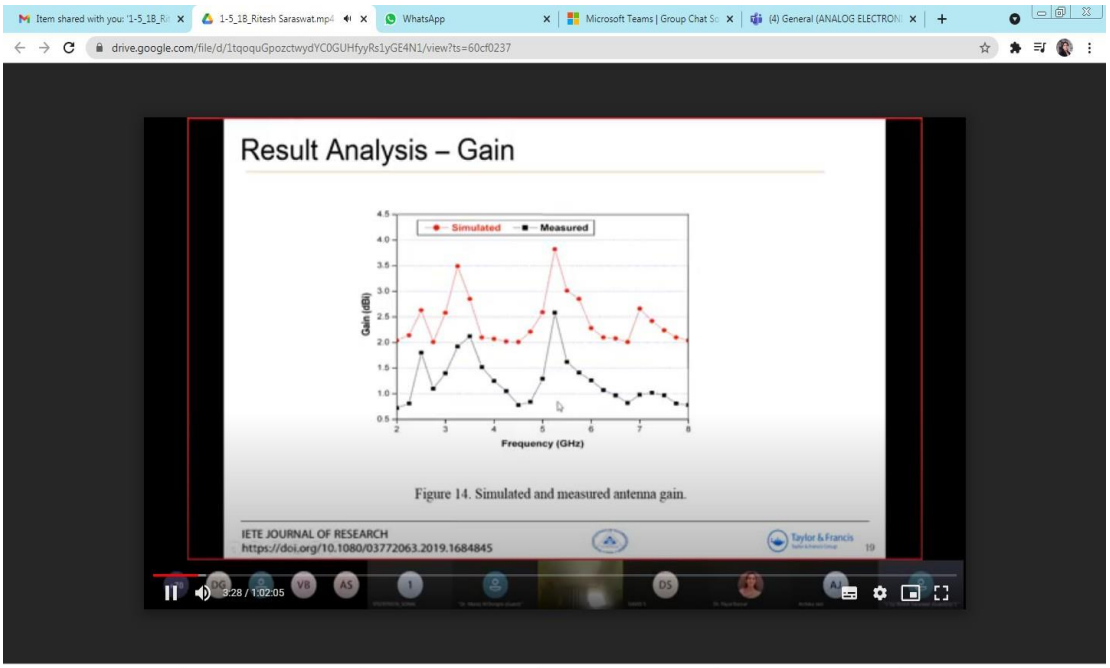
Saraswat, Assistant ProfessorVenue: online

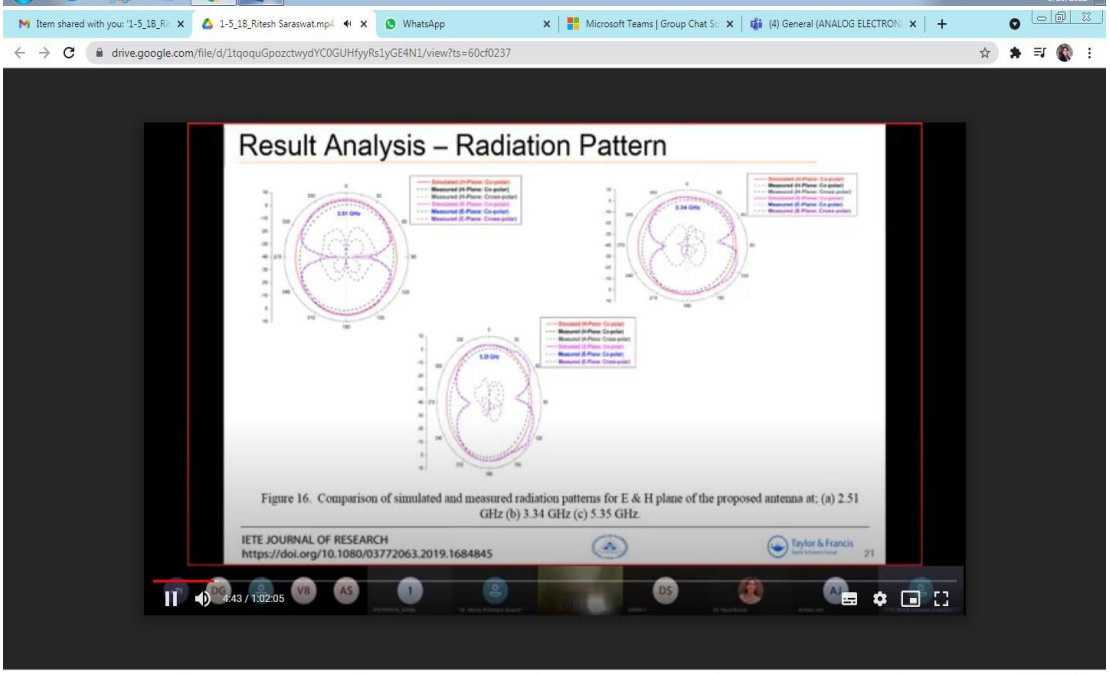
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR



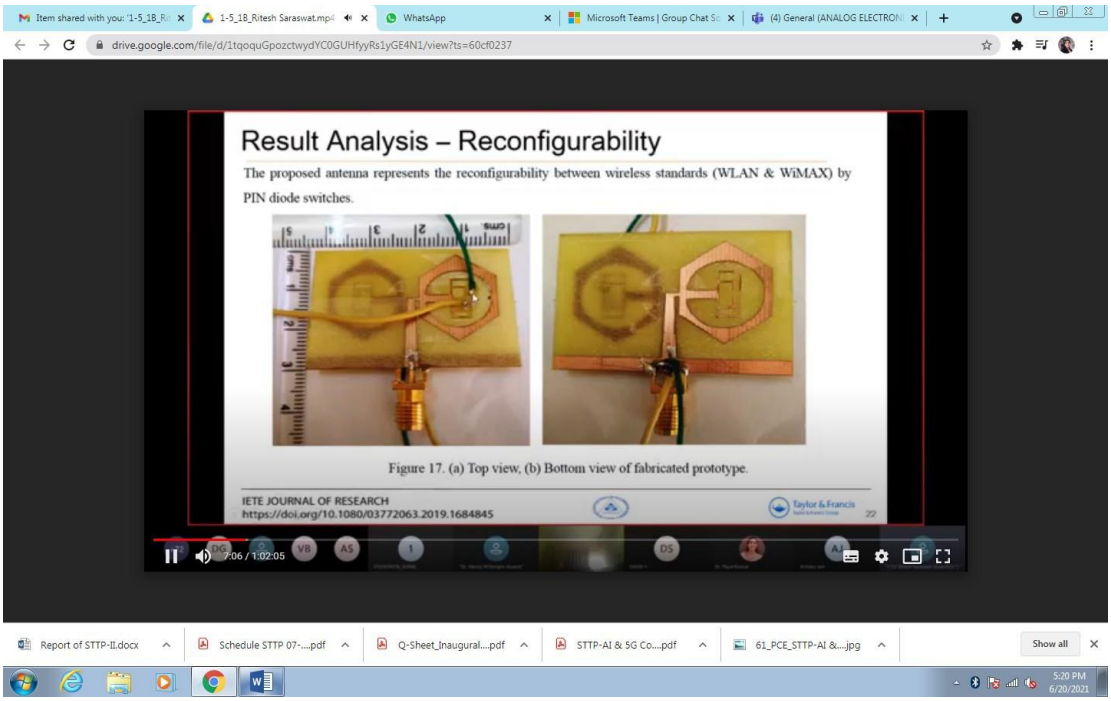


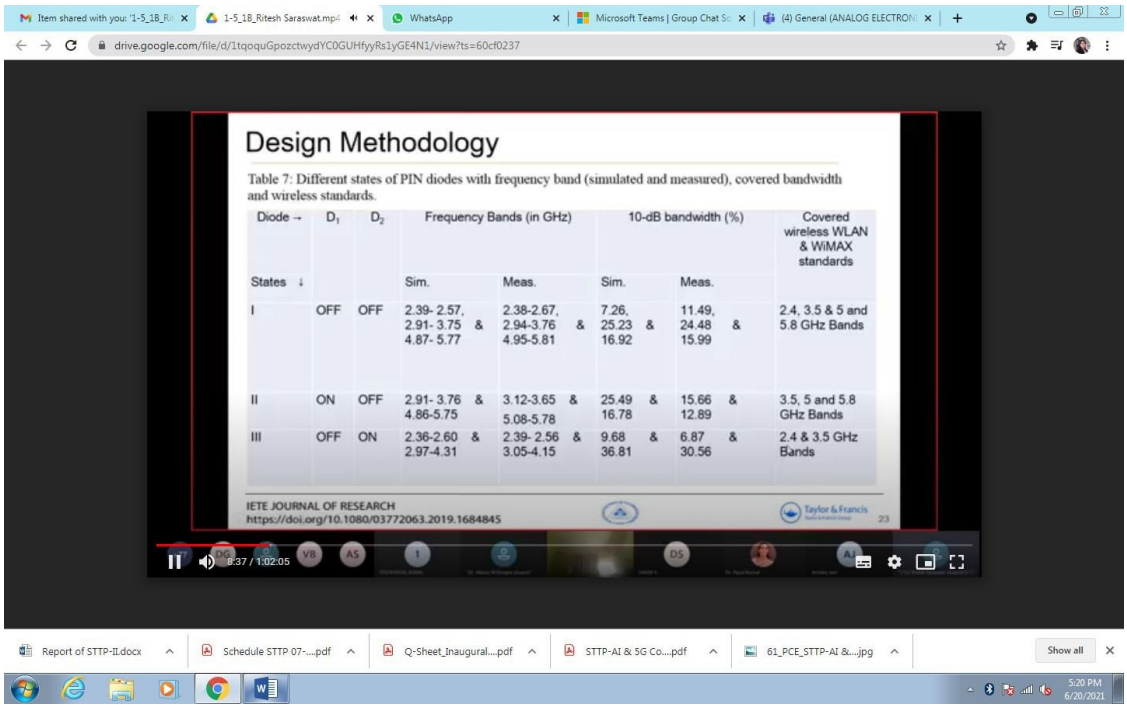
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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



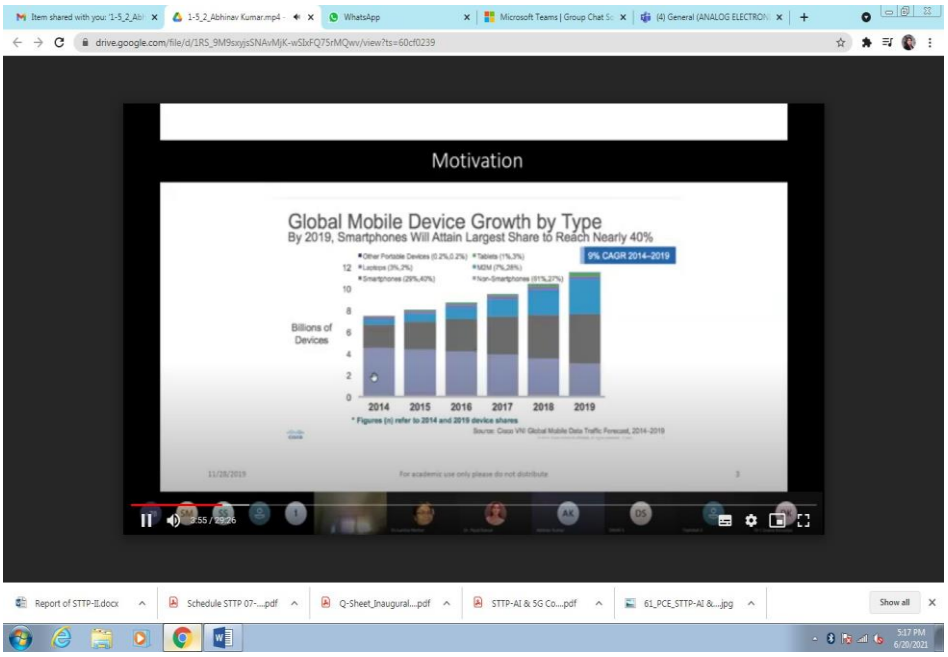


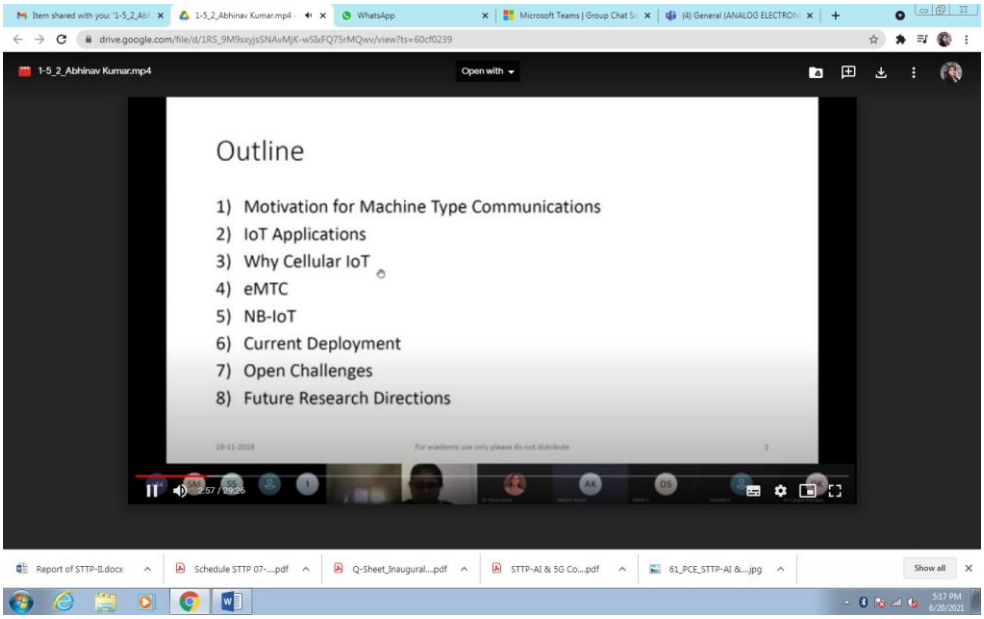
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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Expert Talk-17

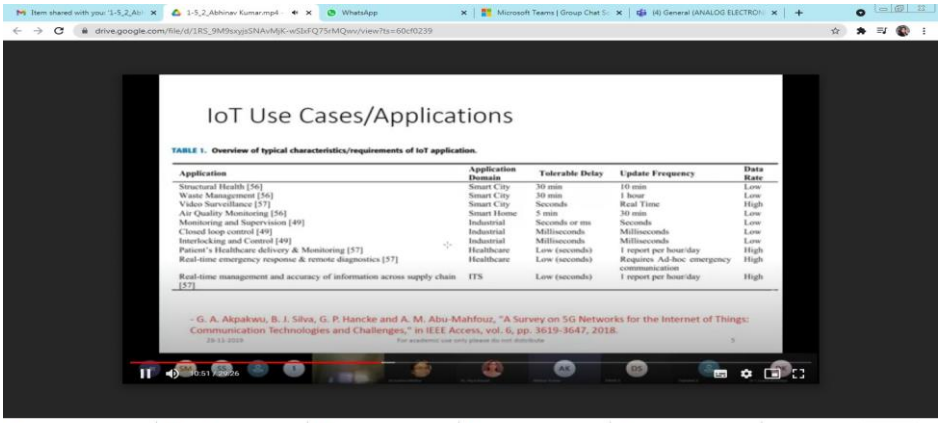
Topic: Cellular Internet of Things

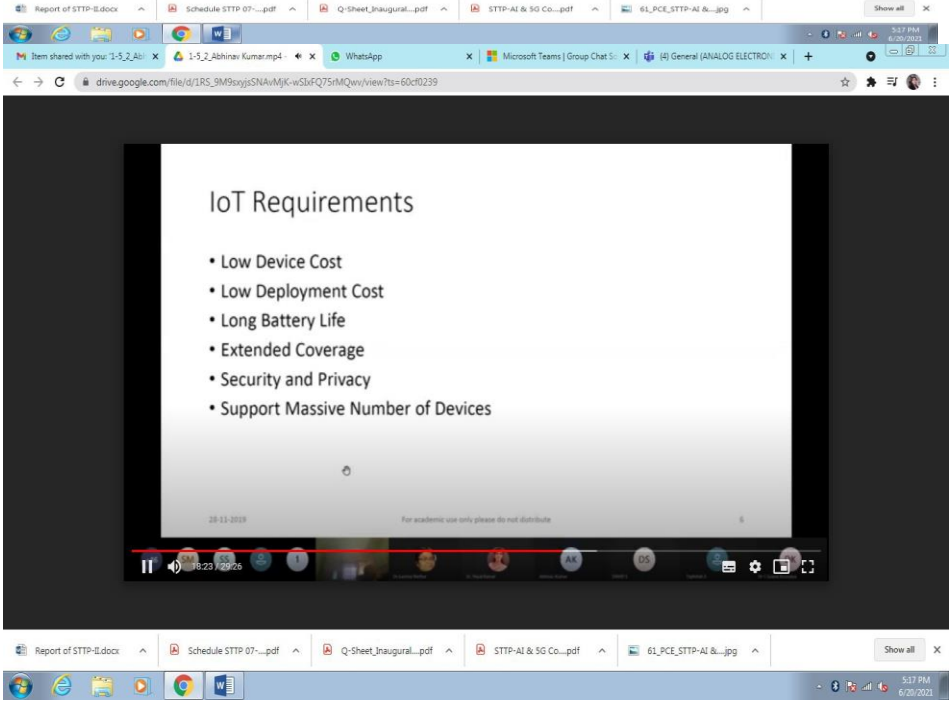
Resource Person: Dr. Abhinav Kumar, Associate ProfessorVenue: online

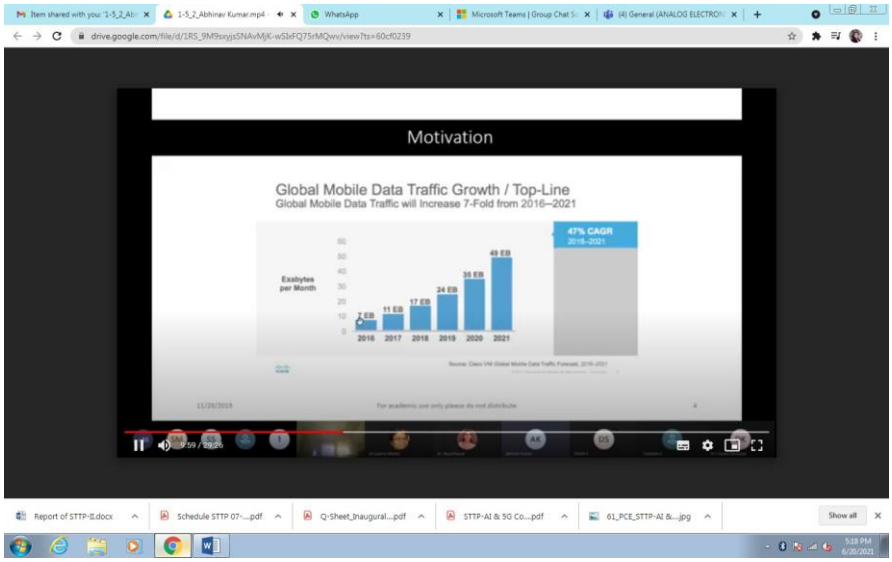




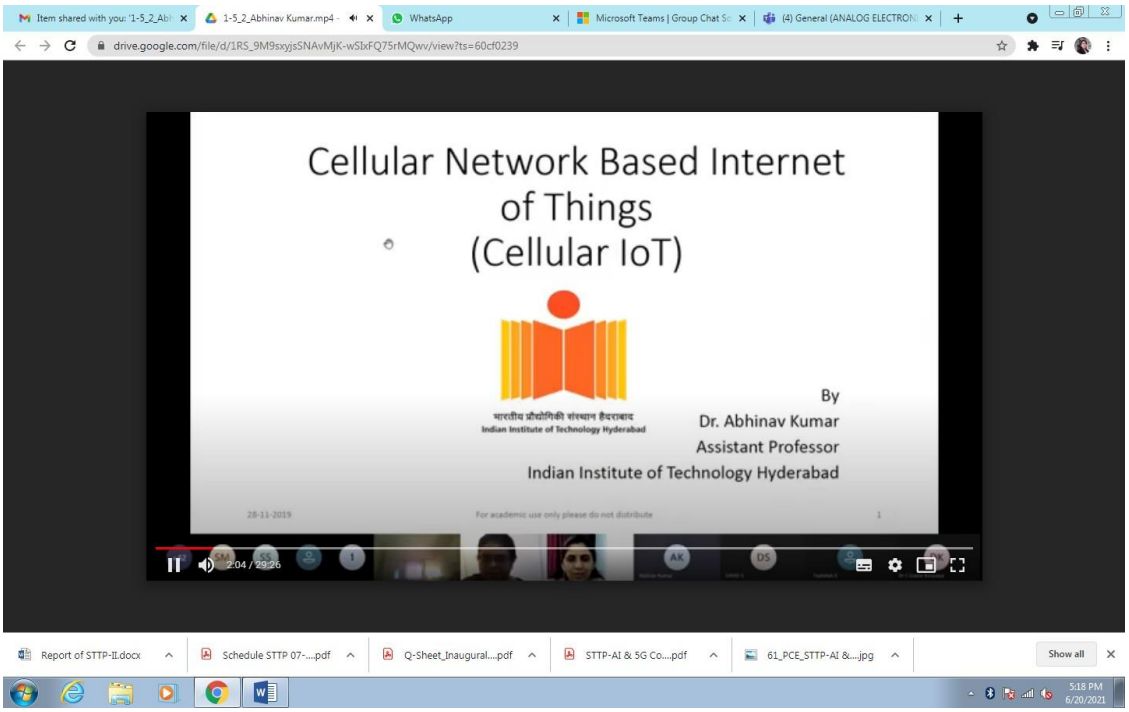
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR







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

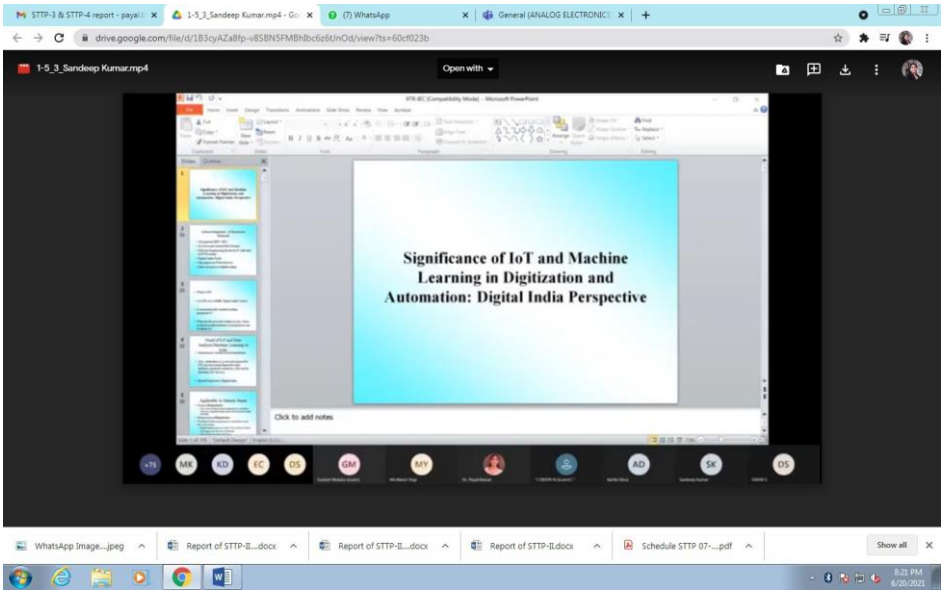


Expert Talk-18

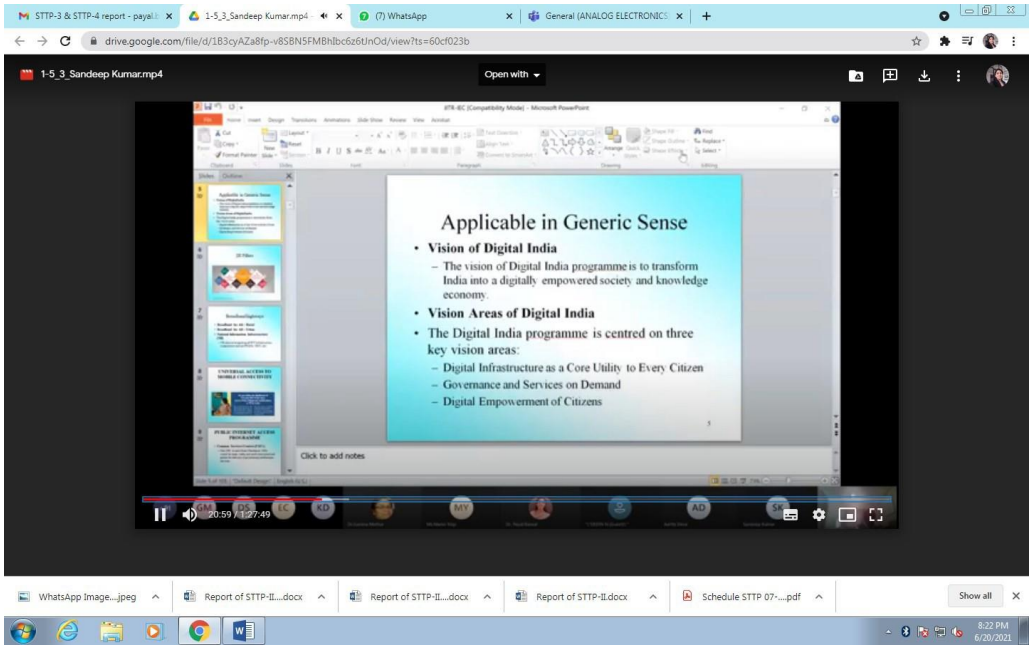
Topic: Significance of Artificial Intelligence in Digitization and Automation: Digital IndiaPerspective

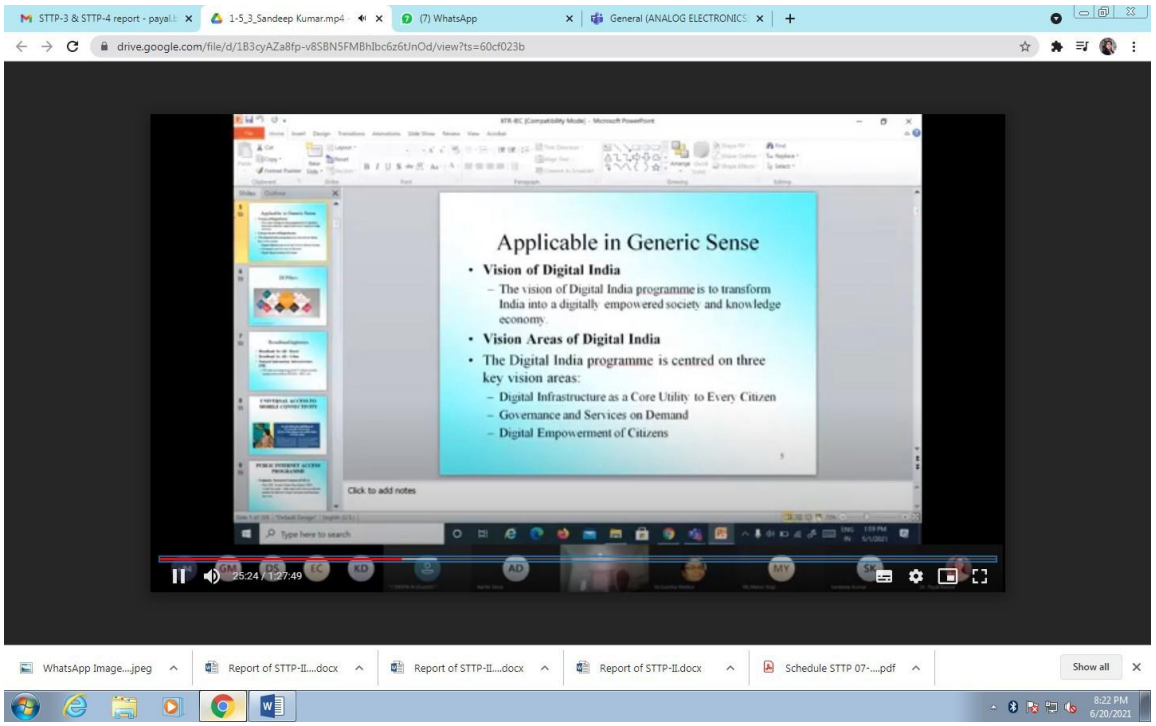
Resource Person: Dr. Sandeep Kumar,

Associate ProfessorVenue: online

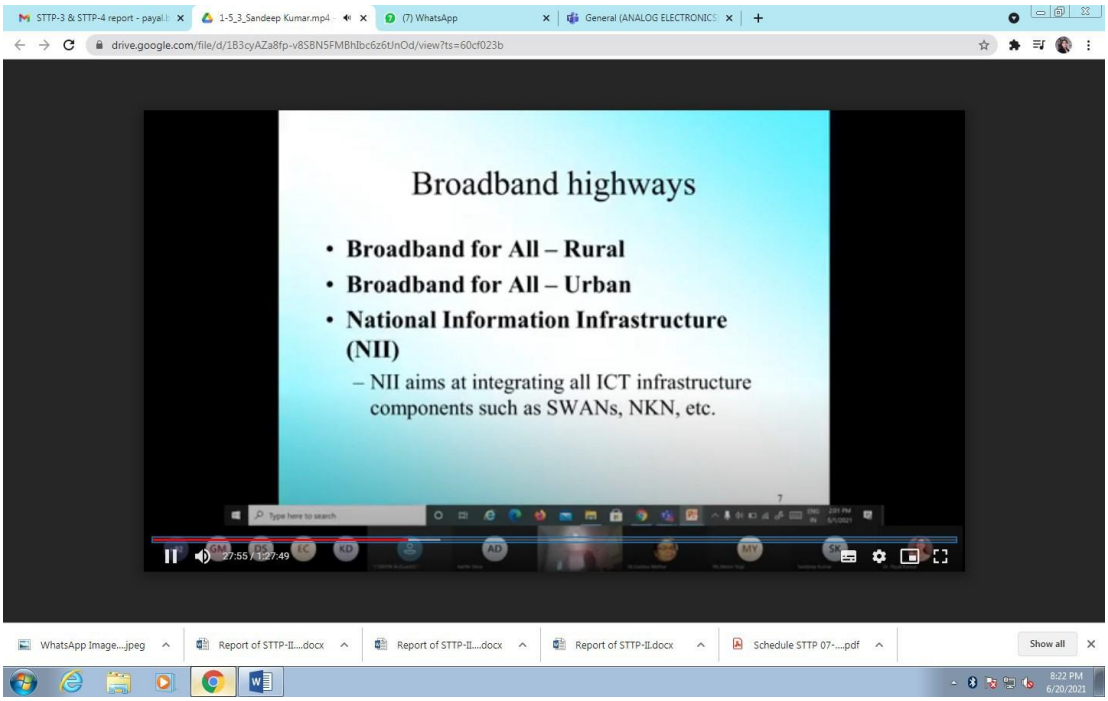


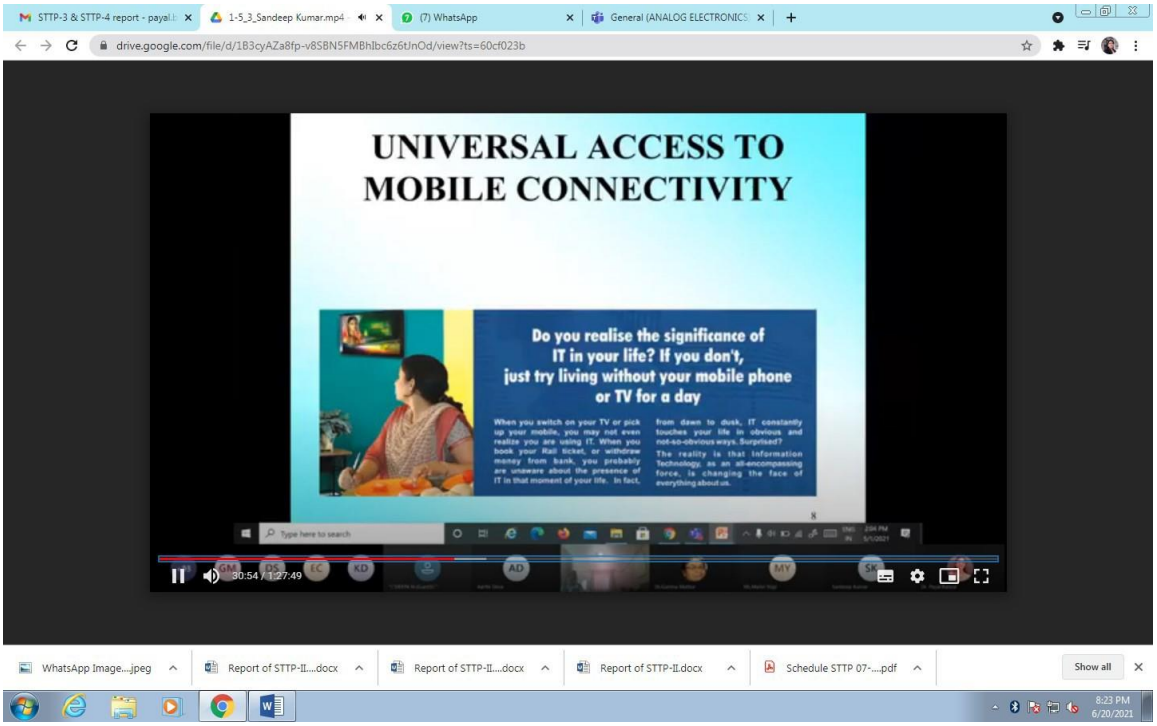
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





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

Valedictory session:-

After Lunch valedictory session was held. Dr. Rajveer S. Shekhawat, Provost & Director, Manipal University Jaipur (Chief Guest) , Dr. Mahesh M Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur, Dr. Payal Bansal Coordinator, PCE, participants and faculty members attended the session. It started with the felicitation of Chief Guest Dr. Rajveer S. Shekhawat, by Dr. Mahesh M Bundele, Principal & Director, PCE, Jaipur. A brief report on worksop was presented by Dr. Payal Bansal, 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. Preetam Kumar 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 network security and smart antenna. Dr. Payal Bansal, Associate Professor, ECE Deptt., PCE proposed the Vote of Thanks. At the end of sessiona group photograph was taken with the Dignitaries including participants.

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

AICTE

Six Days Short Term Training Program

On

Artificial Intelligence & 5G Communication **Technology**

April 26 – May 31, 2021

Organized by Department of Electronics & Communication Engineering,

Poornima College of Engineering, Jaipur

Date: May 31, 2021 Time: 03:30 PM - 04:00 PM

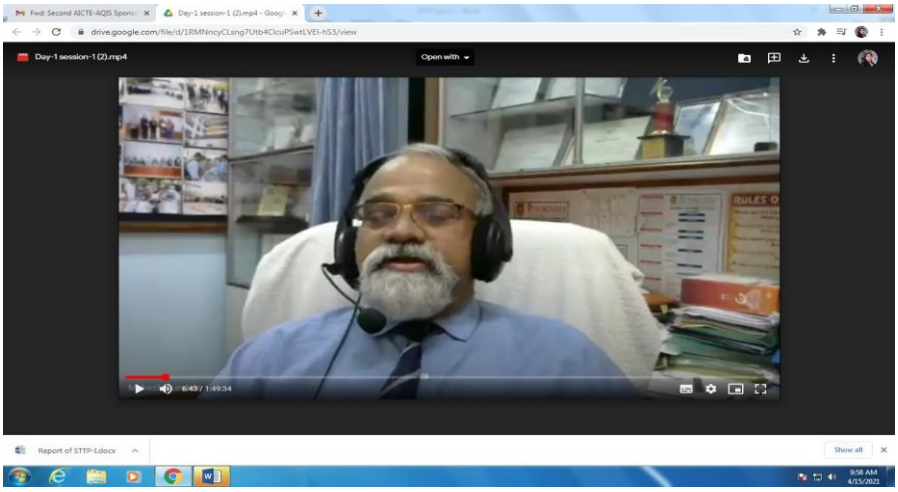
Venue: Online

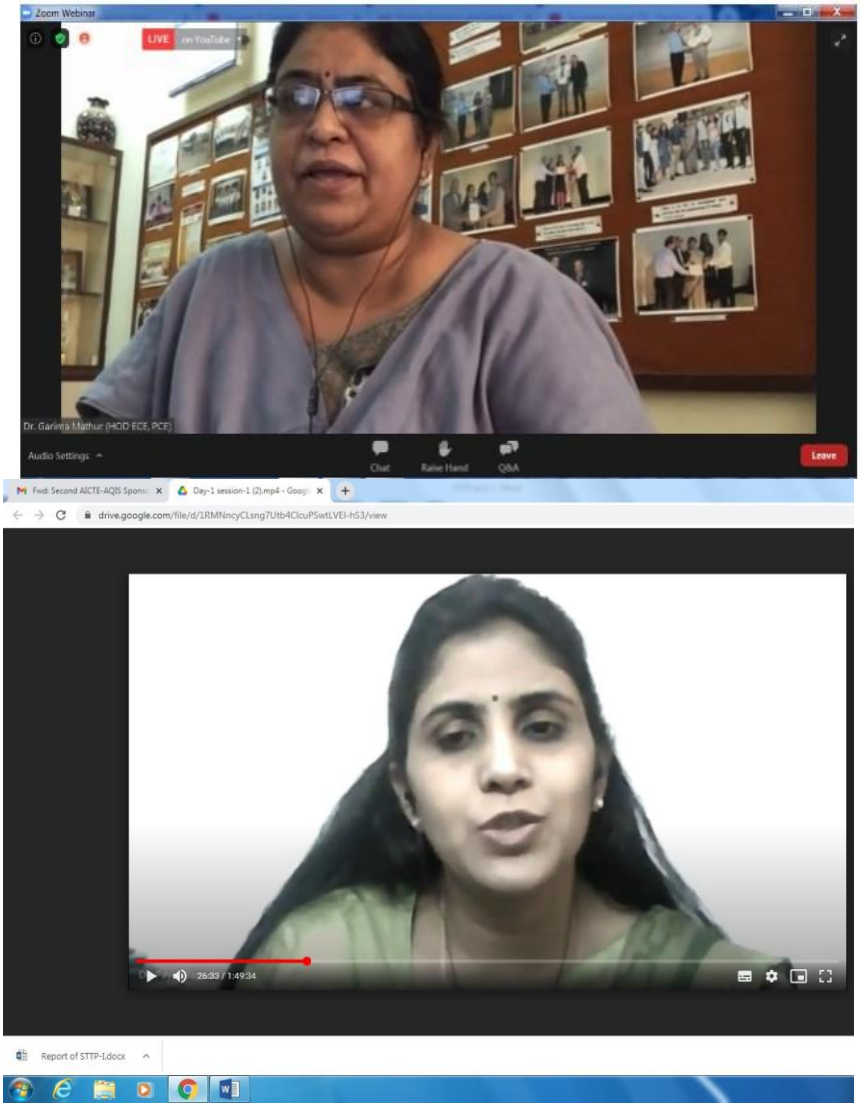
Q- Sheet Valedictory Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Refresher Program by Dr. Garima Mathur, Head & Professor ECE, PCE Dr. Rajveer S. Shekhawat, Provost & Director, (Chief Guest) Ar. Rahul Singhi, Director, Poornima Group Dr. Mahesh Bundele, Director & Principal, PCE Mr. Pankaj Dhemla, Vice Principal, PCE	05 Min	03:30 PM - 03:35 PM
2.	Welcome address by Dr. Mahesh Bundele, Director & Principal, PCE	05 Min	03:35 PM - 03:40 PM
3.	Motivational Words by Ar. Rahul Singhi, Director, Poornima Group	05 Min	03:40 PM - 03:45 PM
4.	Inaugural Address by Chief Guest Dr. Rajveer S. Shekhawat, Provost & Director	10 Min	03:45 PM - 03:55 PM
5.	Vote of Thanks by Dr. Payal Bansal, Associate Prof., ECE, PCE	05 Min	03:55 PM - 04:00 PM

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

Memories of Velidictory session





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

♦ LIST OF PARTICIPANTS:

S. No.	User Name	Name of Participant	Department	Institution Name
1	arunrs9848@gmail.com	Mr. DHUPAM ARUN KUMAR	EC/CS/IT	RAGHU INSTITUTE OF TECHNOLOGY(AUTONOMOUS),VISAKHAPATNAM
2	bikashranjan.behera@gmail.com	BIKASH RANJAN BEHERA	EC/CS/IT	International Institute of Information Technology Bhubaneswar, Odisha, India
3	sahitya_g@vnrvjiet.in	GHANTA SAHITYA	EC/CS/IT	VNRVJIET
4	kaushik_c@vnrvjiet.in	C. KAUSHIK	EC/CS/IT	VNRVJIET
5	blessysjit@gmail.com	Maria Christina Blessy A	EC/CS/IT	St. Joseph's Institute of Technology
6	samayarajphdfgon@gmail.com	Dr.Samayaraj Murali Kishanlal . M	EC/CS/IT	St.Joseph's Institute of Technology
7	abdulaleem1990@gmail.com	ABDUL ALIM	EC/CS/IT	Dr. Harisingh Gour Vishwavidyalaya Sagar MP
8	drcgnanakousalya@gmail.com	Dr. C Gnana Kousalya	EC/CS/IT	St.Joseph's institute of Technology
9	panchalbrijesh02@gmail.com	BRIJESHKUMAR Y. PANCHAL	EC/CS/IT	DEPSTAR- CHARUSAT University
10	jaindirect@gmail.com	CHARVI JAIN	EC/CS/IT	TU DRESDEN
11	hodecelabaffairs@stjosephstechnology.ac.in	Dr.G.Rohini	EC/CS/IT	St. Joseph's Institute of Technology
12	dsvidhyaworkshop@gmail.com	Vidhya D S	EC/CS/IT	Don Bosco College of Engineering
13	aartimkarande@spit.ac.in	Dr. Aarti Karande	EC/CS/IT	Sardar Patel Institute of Technology
14	17.asthasharma@gmail.com	Dr. Astha Sharma	EC/CS/IT	G.L. Bajaj Institute of Technology & Management, Greater Noida
15	arulrajan@gmail.com	PROF. B. ARUL RAJAN	EC/CS/IT	ST. MOTHER THERESA ENGG COLLEGE , THOOTHUKUDI
16	shalini.puri@poornima.org	Dr. Shalini Puri	EC/CS/IT	Poornima College of Engineering, Jaipur, Rajasthan
17	neerajsingla007@gmail.com	Neeraj Gupta	EC/CS/IT	Amity University Haryana
18	surajpanwarsri123@gmail.com	SURAJ SINGH PANWAR	EC/CS/IT	H.N.B.GARHWAL UNIVERSITY SRINAGAR GARHWAL,UTTARAKHAND
19	boopalacse@gmail.com	BOOPALA J	EC/CS/IT	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
20	kvrk9693@gmail.com	Mr. KALIYAPPANR	EC/CS/IT	NALLAMUTHU GOUNDER MAHALINGAM COLLEGE, POLLACHI
21	sunilsharma96@gmail.com	SUNIL KUMAR SHARMA	EC/CS/IT	Engineering College Ajmer
22	dinbhatia@gmail.com	Dinesh Bhatia	EC/CS/IT	University Departments, RTU, Kota
23	sanjay@msrit.edu	Sanjay H S	EC/CS/IT	M S Ramaiah Institute of technology
24	tephisam@gmail.com	TEPHILLAH.S	EC/CS/IT	St.Joseph's Institute of Technology
25	2020csmanvi8753@poornima.edu.in	Manvi yogi	EC/CS/IT	Poornima University
26	vijay.shubham2@gmail.com	Shubham Vijay	EC/CS/IT	JECRC College
27	anshu.amrendra@gmail.com	Kumar Amrendra	EC/CS/IT	Jharkhand Rai University
28	dhruvigosai.dce@charusat.ac.i	Dhruvi	EC/CS/IT	CHARUSAT University

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

	n	Dharmendrava n Gosai		
29	vineet.chhabra@anandice.ac.i n	vineet chhabra	EC/CS/IT	Anand International College Of Engineering College
30	gangasagar82@gmail.com	Ganga Sagar Verma	EC/CS/IT	Department of Electronic Science,University of Delhi South Campus,New Delhi
31	anusha.k.ece@kct.ac.in	K.Anusha	EC/CS/IT	Kumaraguru college of Technology
32	karthika.k.ece@kct.ac.in	Karthika K	EC/CS/IT	Kumaraguru College of Technology
33	reenacse.er@gmail.com	Mrs.K.Reena	EC/CS/IT	Nadimpalli Satyanarayana Raju Institute of Technology
34	girishpechetti@gmail.com	Girish Pechetti	EC/CS/IT	BVC INSTITUTE OF TECHNOLOGY AND SCIENCE
35	rdeepalakshmi@care.ac.in	Ms R DEEPALAKS HMI	EC/CS/IT	CARE COLLEGE OF ENGINEERING , TRICHY, TAMILNADU
36	vijay.e8720@cumail.im	Vijay Kumar Soni	EC/CS/IT	Chandigarh University
37	divsmi@gmail.com	B.C.DIVAKA RA	EC/CS/IT	Global academy of technology
38	divya.rohatgi1@gmail.com	DIVYA ROHATGI	EC/CS/IT	poornima institute of engineering and technology
39	chanthirasekarank.sse@saveet ha.com	Dr.K.Chanthira sekaran	EC/CS/IT	Saveetha School of Engineering
40	anand.phd.dip@gmail.com	Dr.P.ANAND AN	EC/CS/IT	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
41	jayakangale@gmail.com	Jayamala Dhananjay Pakhare	EC/CS/IT	D.K.T.E. Society's Textile and Engineering Institute, Ichalkaranji
42	ragu.auto@hicet.ac.in	S RAGU	EC/CS/IT	HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
43	manisha.dbce@gmail.com	Manisha Fal Dessai	EC/CS/IT	Don Bosco College of Engineering, Goa
44	sujata.mendgudle@rait.ac.in	Sujata Mendgudle	EC/CS/IT	Ramrao Adik Institute of Technology
45	rdheesharma88@gmail.com	Rachana Khandelwal	EC/CS/IT	YIT Jaipur
46	ruchi25varshney@gmail.com	Ruchi Varshney	EC/CS/IT	MIT Moradabad
47	anagha.kowshik@gmail.com	Anagha Kowshik	EC/CS/IT	PES UNIVERSITY
48	bhavanit409@gmail.com	Thirandasu Bhavani	EC/CS/IT	Sri indu institute of engineering and technology
49	banupriya12317@gmail.com	S. Biruntha	EC/CS/IT	Sri Krishna College of Engineering and Technology
50	deepika.nalabala@gmail.com	Deepika Nalabala	EC/CS/IT	Balaji institute of technology & science
51	vidityadav.2k@gmail.com	Vidit Yadav	EC/CS/IT	Harcourt Butler Technical University
52	archika.jain@poornima.org	Archika Jain	EC/CS/IT	Poornima College of Engineering
53	g.angayarkanni@gmail.com	G. ANGAYARK ANNI	EC/CS/IT	Nallamuthu Gounder Mahalingam College, Pollachi
54	sanjay.skm97@gmail.com	SANJAY KUMAR MAURYA	EC/CS/IT	SRMCEM LUCKNOW
55	david.s.ece@kct.ac.in	DAVID S	EC/CS/IT	KUMARAGURU COLLEGE OF TECHNOLOGY
56	manishakumawat@poornima. org	Manisha Kumawat	EC/CS/IT	Poornima College of Engineering
57	niruhsd@gmail.com	Dr. Niranjanamurth y M	EC/CS/IT	M S Ramaiah Institute of Technology, Bangalore
58	deepthikrishnan29@gmail.co	K Deepthi	EC/CS/IT	Neil Gogte Institute of Technology

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

	m	Krishna Yadav		
59	imthiaazkhan@gmail.com	Imthiaaz khan	EC/CS/IT	SRM TRP Engineering College
60	shambhu.sharma@anandice.ac.in	Shambhu dayal sharma	EC/CS/IT	Anand-ICE jaipur
61	sivatb@syedengg.ac.in	Dr T B SIVAKUMAR	EC/CS/IT	SYED AMMAL ENGINEERING COLLEGE
62	tanujapande077@gmail.com	TANUJA PANDE	EC/CS/IT	J K INSTITUTE OF APPLIED PHYSICS AND TECHNOLOGY,UNIVERSITY OF ALLAHABAD
63	kvs.tiwari.9@gmail.com	Amit Kumar Tiwari	EC/CS/IT	Kendriya Vidyalaya Bundi
64	kajla.ashok@poornima.org	Dr Ashok Kumar Kajla	EC/CS/IT	Poornima College Engineering
65	pm838485@gmail.com	Prakash Maru	EC/CS/IT	GEC BHAVNAGAR
66	drbgayathri.cs@gmail.com	Dr B GAYATHRI	EC/CS/IT	BISHOP HEBER COLLEGE
67	munishvijay.jpr@gmail.com	Munish Vijay	EC/CS/IT	Govt. Ramchandra Khaitan Polytechnic College
68	snehareddy22cvr@gmail.com	Annepureddy sneha	EC/CS/IT	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY
69	kallam.rama@gmail.com	rama mohana reddy kallam	EC/CS/IT	VNR VIGNAJYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
70	mohamedriyaz54321@gmail.com	Mohamed RIyaz M	EC/CS/IT	SRM TRP Engineering College, Trichy
71	pradeephg123@gmail.com	PRADEEP H G	EC/CS/IT	JSS COLLEGE FOR WOMEN(AUTONOMOUS)
72	deepayerolkar@gmail.com	Ms.Deepa Jivanrao Yerolkar	EC/CS/IT	AISSMS Polytechnic,Pune
73	b.bindubhavani@sphoorthyengg.ac.in	B.Bindu Bhavani	EC/CS/IT	Sphoorthy Engineering College
74	shreniks2k7@rediffmail.com	Shrenik Suresh Sarade	EC/CS/IT	Walchand College of Engineering, Sangli
75	dharmendra.kumar@anandice.ac.in	Dharmendra Kumar	EC/CS/IT	Anand International College of Engineering, Jaipur
76	guthayakumar@gmail.com	UTHAYAKUMAR G S	EC/CS/IT	St.Joseph's Institute of Technology
77	archana.devdas22@gmail.com	Archana Yashodhar	EC/CS/IT	St Aloysius College Mangaluru
78	poonam.gadge@rait.ac.in	MrS Poonam Gadge	EC/CS/IT	Ramrao Adik Institute of Technology,Nerul Navi Mumbai
79	benoaustin@gmail.com	Dr. A. Beno	EC/CS/IT	Dr. Sivanthi Aditanar college of Engineering Tiruchendur
80	gopalsamy@psr.edu.in	Gopalsamy Pathalaveeran	EC/CS/IT	P.S.R.ENGINEERING COLLEGE
81	sanjivkanpur@gmail.com	Prof.(Dr.) Sanjiv Mishra	EC/CS/IT	Allenhouse Institute of Technology, Kanpur
82	parmarsonal164@gmail.com	PARMAR SONALBEN DEVDASBHAI	EC/CS/IT	GEC BHAVNAGAR
83	drpramodsharmajpr@gmail.com	Dr. Pramod Sharma	EC/CS/IT	Regional College for Education Research and Technology
84	surabunaresh2012@gmail.com	NARESH SURABU	EC/CS/IT	SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
85	vishakha.gaikwad@rait.ac.in	Vishakha Gaikwad	EC/CS/IT	RAMRAO ADIK INSTITUTE OF TECHNOLOGY
86	kalaiyarasanece@smvec.ac.in	KALAIYARASAN R	EC/CS/IT	SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE, PUDUCHERRY
87	rajasekhar.reddy61@gmail.com	B RAJASEKHARA REDDY	EC/CS/IT	SRI MITTAPALLI COLLEGE OF ENGINEERING

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

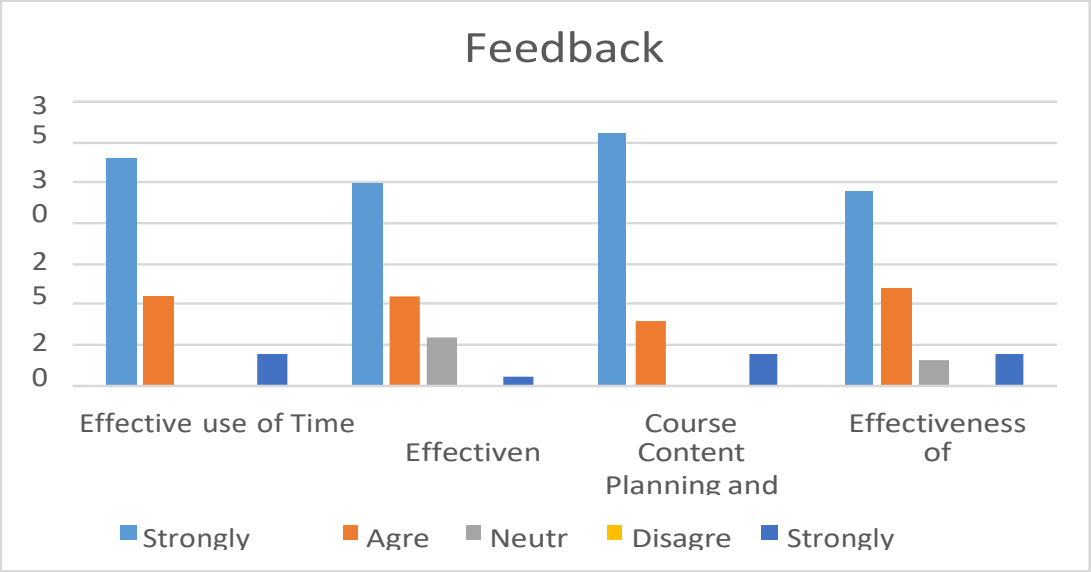
88	lishayugal26@gmail.com	Lisha Yugal	EC/CS/IT	NIET, Greater Noida
89	sureshkaswan@gmail.com	Dr. Suresh Kaswan	EC/CS/IT	RIMT University
90	sivaramanranjith@gmail.com	M.SIVARAMAN	EC/CS/IT	Nallamuthu Gounder Mahalingam College
91	viveksec@gmail.com	VIVEK BHOJAK	EC/CS/IT	ANAND INTERNATIONAL COLLEGE OF ENGINEERING, JAIPUR
92	dron.ruchi@gmail.com	RUCHI DRONAWAT	EC/CS/IT	Sagar Institute of Research and Technology
93	padmanabanharikrishnan@gmail.com	Hari Krishnan P	EC/CS/IT	SRM TRP ENGINEERING COLLEGE
94	suryanroy31@gmail.com	SURYAN ROY CHOWDHURY	EC/CS/IT	DR. B.C. ROY POLYTECHNIC
95	drmanikandanj@gmail.com	Dr.MANIKANDAN J	EC/CS/IT	Sri Sairam Engineering College
96	sreevani189@ncetmail.com	SREEVANI NANJURI	EC/CS/IT	Nagarjuna college of engineering and technology
97	JAYADIPTILAL@yahoo.co.in	Jaya Dipti lal	EC/CS/IT	SGSITS INDORE
98	srupayali@gmail.com	Rupayali Swaroop	EC/CS/IT	Jodhpur Institute of Engineering and Technology
99	purohitankita13@gmail.com	Ankita Purohit	EC/CS/IT	Jodhpur Institute of Engineering and Technology
100	hamsalathasree123@gmail.com	MYADARI SRILATHA	EC/CS/IT	Sri indu institute of engineering and technology
101	venu.swayam@gmail.com	IPPALAPALLI VENU	EC/CS/IT	SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

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 has given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.

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

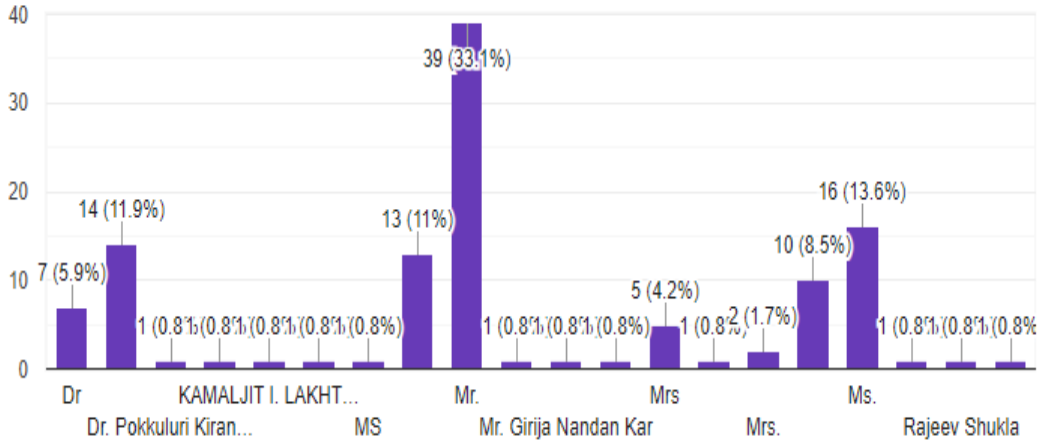
- **FEEDBACK ANALYSIS:**

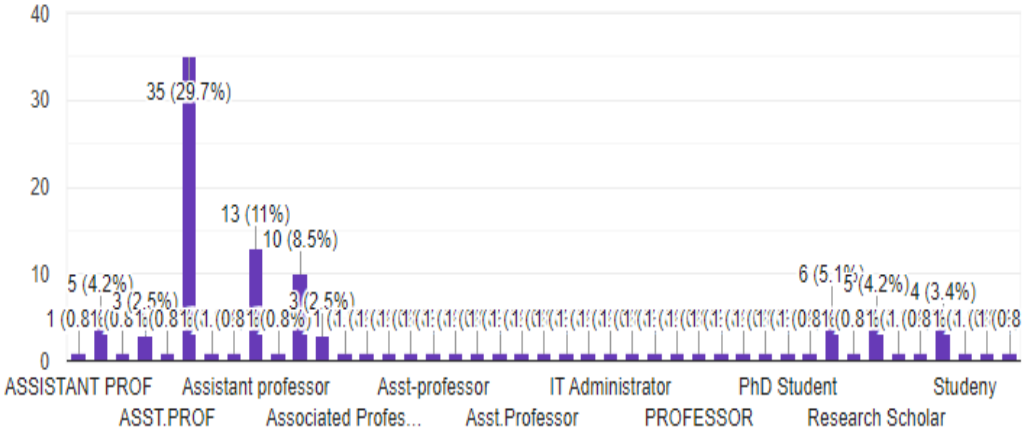
	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands on Sessions
Strongly Agree	28	25	31	24
Agree	11	11	8	12
Neutral	0	6	0	3
Disagree	0	0	0	0
Strongly Disagree	4	1	4	4

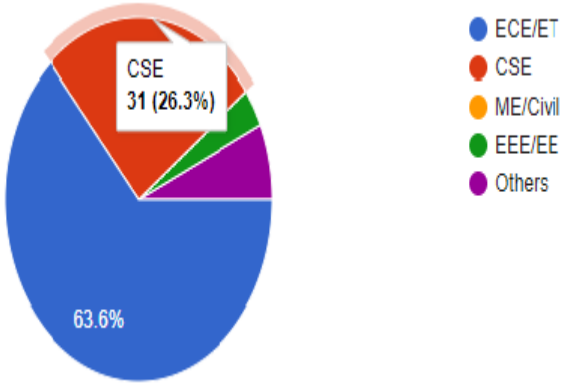


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

- **SWOT ANALYSIS:**







- **BUDGET & ACTUALS: NIL**

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

A Report on Six Days Short Term Training Programme (STTP)

TITLE AND DURATION: AICTE Sponsored Six Days Short Term Training Programme (STTP) On "Eclectic Research Trends in Manufacturing (Part -3) (15-20 March, 2021)

SPONSORS: AICTE sponsored Under AICTE Quality Improvement Scheme

ORGANIZERS: Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES: The event aims to provide a forum to exchange views, ideas of eclectic trends 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 newer technologies, enthusiasts, and faculty to discuss the Latest issues and possible solutions in area of manufacturing.
- Identifying Industry challenges and sensitize about latest trends and technologies in area of manufacturing.

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:

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Eclectic Research Trends in Manufacturing

(Part-3)

March 15-20, 2021

REGISTRATION FORM

Name: .....

Designation: .....

Department: .....

Institute: .....

Institute Address: .....

.....

.....

Mobile No. : .....

E-mail: .....

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

REGISTRATION AND FEE PARTICULARS

- There is no registration fee.
- The STTP is open to all faculties and research scholars from Universities/AICTE approved institutions.
- Registration for the program may be done by filling the registration form online via: **https://tinyurl.com/STTP-ERTM-3-2021**
- All the sessions will be conducted online only.
- After completion of the program, test will be conducted.
- E-certificates will be issued to those participants who have attended the program and qualify the test.

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of manufacturing such as IITs, IIITDMs, NITs, and other premier institutes.

IMPORTANT DATES

Last date for Registration	**March 11, 2021**
Intimation of selection by mail	**March 13, 2021**
STTP duration	**March 15-20, 2021**

CORRESPONDENCE

Dr. Yashpal
Associate Professor, Department of Mechanical Engineering
✉ : yashpal.kaushik@poornima.org • ✆ : +91-9466748006



POORNIMA
COLLEGE OF ENGINEERING

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

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Eclectic Research Trends in Manufacturing

(Part-3)

March 15-20, 2021



Sponsored by

All India Council For Technical Education
Under
AICTE Quality Improvement Schemes (AQIS)

Organized by

Department of Mechanical Engineering

POORNIMA
COLLEGE OF ENGINEERING

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

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 DEPARTMENT

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. 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 THE PROGRAM

Recent developments in advance engineering materials and their applications in aerospace, defense, nuclear reactor, medical and electronics industries have significantly transformed the manufacturing industries.

Advance manufacturing industries are facing challenges of creating miniature features of complex shapes in advance engineering materials having superior properties. Further to produce products with minimal harm to the environment, at competitive price, customized features and quick response to the change in demand is also essential requirement of industries. Moreover to elect the appropriate manufacturing process for processing of specific advanced materials, optimum parameters are required. However meet such challenges and accelerate the growth of manufacturing especially in the campaign of "MAKE IN INDIA". Manufacturing industries are moving towards intelligent manufacturing processes/systems. These processes/systems are advanced manufacturing processes, sustainable manufacturing and smart manufacturing technologies. Therefore, Engineering Graduates need to know about the eclectic research trends in manufacturing.

TOPICS TO BE COVERED

- Smart Manufacturing: Opportunities & Challenges
- Additive Manufacturing
- Smart Materials
- Advanced Robotics and Automation
- Industrial IOT, Machine Learning
- Role of Blockchain in Manufacturing
- Industrial Perspective of Smart Manufacturing
- Virtual Hands-on Practice on Rapid Manufacturing

OBJECTIVES OF STTP

- To provide an exposure to the participants regarding current scenario in manufacturing techniques.
- To provide the knowledge of cutting edge researches and developments carried out/observed by the Eminent Speakers in advance manufacturing domains, for products having immediate industrial applications for self-reliance of the Country.

PATRON

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

ADVISORS

Mr. Pankaj Dhemla
Vice Principal, PCE, Jaipur

Dr. Rekha Nair
Dean, First Year, PCE, Jaipur

Mr. Devendra Somwanshi
Registrar, PCE, Jaipur

CONVENOR

Dr. Narayan Lal Jain
Professor & HoD, ME, PCE, Jaipur

COORDINATOR

Dr. Yashpal
Associate Professor, ME, PCE, Jaipur

CO-COORDINATORS

Dr. Surendra Kumar Saini
Associate Professor
ME, PCE, Jaipur

Dr. Akshay Jain
Assistant Professor
ME, PCE, Jaipur

Mr. Shailendra Kasera
Assistant Professor
ME, PCE, Jaipur

Mr. Sanjay Kumawat
Assistant Professor
ME, PCE, Jaipur

PCE ORGANIZING COMMITTEE

Dr. Mohammad Israr	Professor, ME
Dr. Rahul Sen	Assoc. Professor, ME
Dr. Sagar Kumar	Assoc. Professor, ME
Dr. Rajkumar Satankar	Assoc. 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. Ashwani Kapoor	Asst. Professor, ME
Mr. Buddhi P. Panwar	Asst. Professor, ME
Mr. Ratnesh Sharma	Asst. Professor, ME
Mr. Kalpit Jain	Asst. Professor, ME
Mr. Rahul Sharma	Asst. Professor, ME

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

PROGRAM SCHEDULE:



ABOUT THE STTP:

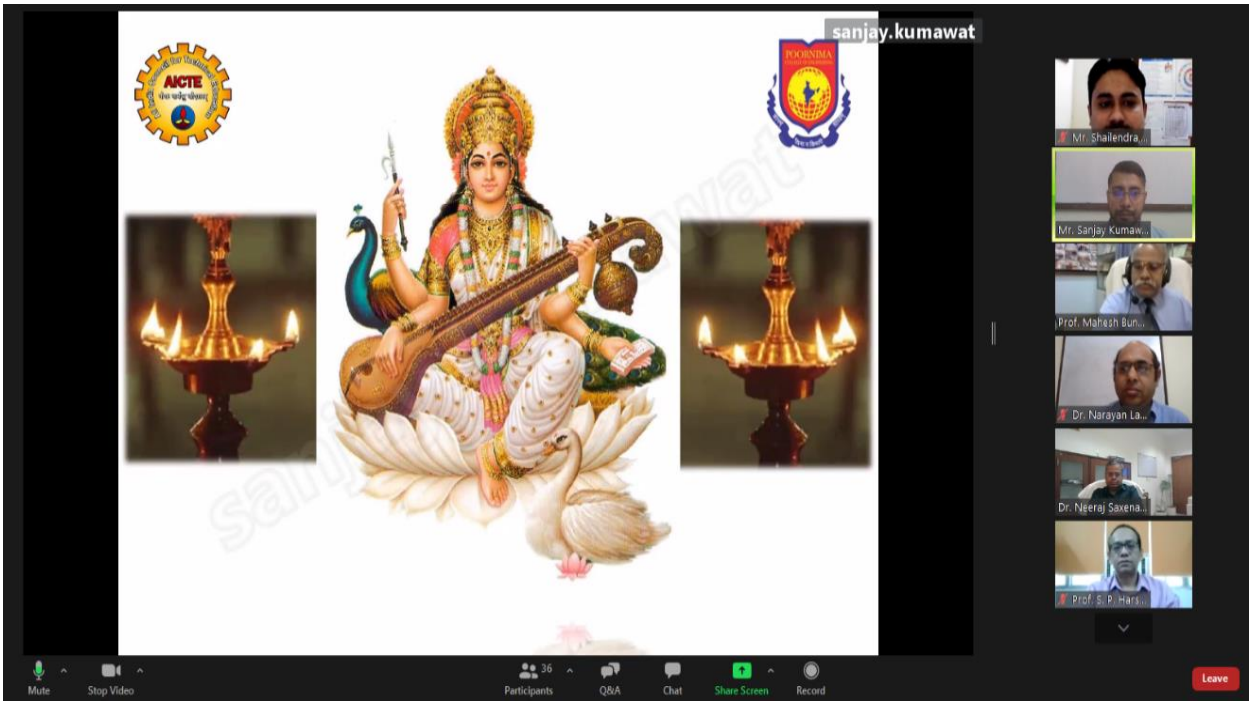
Recent developments in advance engineering materials and their applications in aerospace, defense, nuclear reactor, medical and electronics industries have significantly transformed the manufacturing industries. Advance manufacturing industries are facing challenges of creating miniature features of complex shapes in advance engineering materials having superior properties. Further to produce products with minimal harm to the environment, at competitive price, customized features and quick response to the change in demand is also essential requirement of industries. Moreover to elect the appropriate manufacturing process for processing of specific advanced materials, optimum parameters are required. However meet such challenges and accelerate the growth of manufacturing especially in the campaign of "MAKE IN INDIA". Manufacturing industries are moving towards intelligent manufacturing processes/systems. These processes/systems are advanced manufacturing processes, sustainable manufacturing and smart manufacturing technologies. Therefore, Engineering Graduates need to know about the eclectic research trends in manufacturing.

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

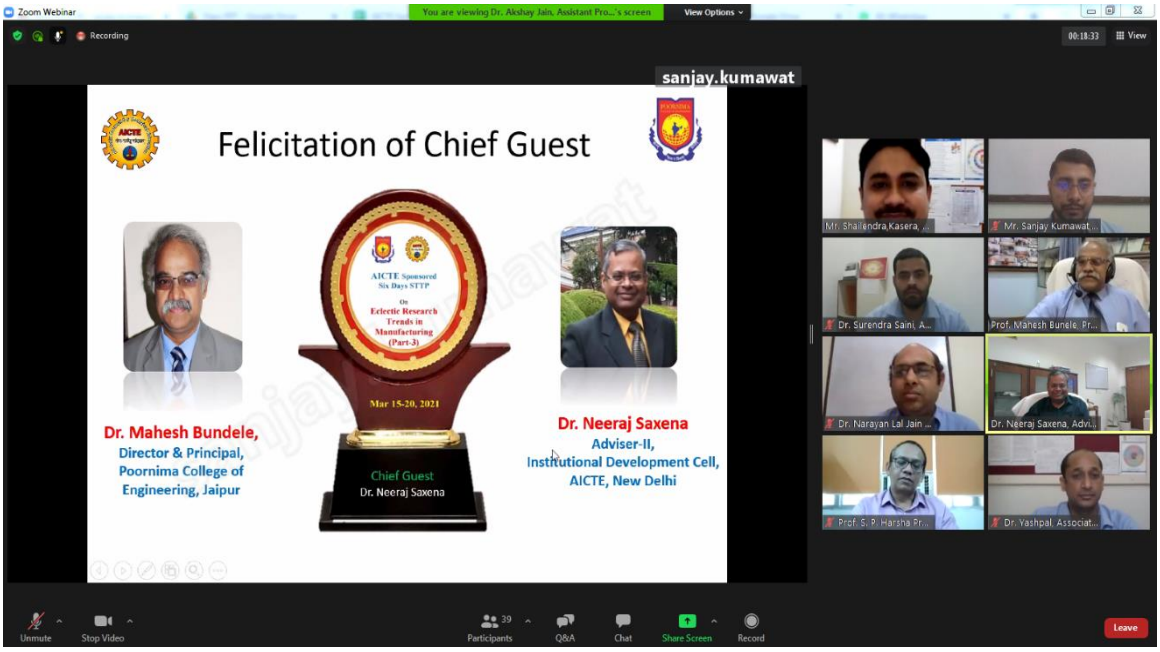
INAUGURAL SESSION:

Programme was initiated by a formal inaugural ceremony in the esteemed presence of Prof. Neeraj Saxena, Adviser-II of AICTE New Delhi; Prof. S. P. Harsha, Professor, IIT Roorkee; Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur, Expert speakers of STTP and other dignitaries of the institute. After inaugural ceremony; 02 expert sessions were conducted on the first day of STTP.

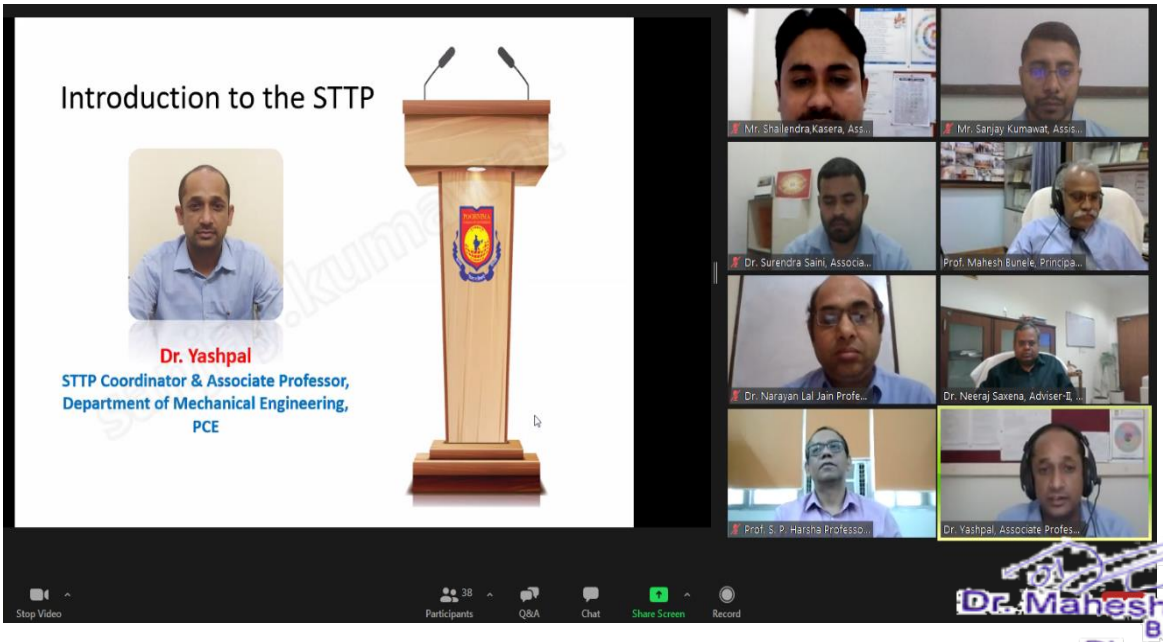




Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR







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

DETAILS OF RESOURCE PERSONS:

CHIEF GUEST

Prof. Neeraj Saxena



Prof. Neeraj Saxena, is serving as Advisor-II, Institutional Development Cell, AICTE, New Delhi. He is on deputation from Technology Information, Forecasting & Assessment Council (TIFAC), India's technology think-tank, where he has served for over 18 years.

Prof. Neeraj Saxena was heading the Resource Cell, Horizon Scanning Unit & Sugar Technology Unit of TIFAC. He was member of the team that prepared Technology Vision 2035 for the country. He was deeply involved in preparing a roadmap for Education as part of Vision 2035 exercise, first ever foresight initiative undertaken for the sector in the country.

As a part of the team implementing projects emerging out of Technology Vision 2020 (released by TIFAC in 1996), between 2000 and 2010, Prof. Saxena piloted the activities of Mission REACH (Relevance & Excellence in Achieving new heights in educational institutions), a major initiative to reorient the higher science & technical education and make it 'relevant' to industries. He was instrumental in establishment of 35 TIFAC-Centres Of Relevance & Excellence (COREs) ever since this Mission got underway on October 4, 2000.

Prof. Saxena got his doctoral degree in Physics for his work in the area of Acoustic Remote Sensing & its application to Air Pollution, carried out at the National Physical Laboratory, New Delhi. He was involved in establishing country's first indigenous Doppler Sodar capable of remotely profiling wind and turbulence in the lower atmosphere.

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

GUEST OF HONOR
Prof. S. P. Harsha

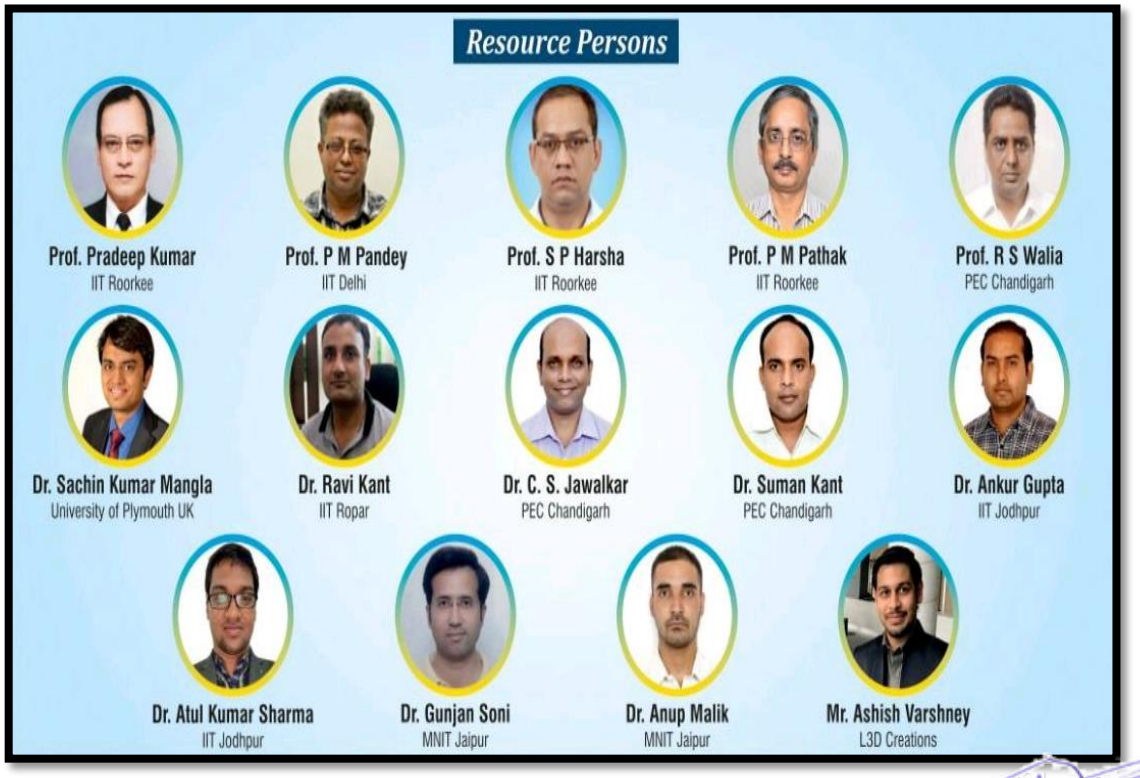


Prof Harsha has completed Post Doc Fellow under US Defense Project at Villanova University, Philadelphia, USA, 2006 – 07 and PhD from Bits Pilani in 2004. His area of interests are Vibrations & Control, Fault Diagnosis and Prognosis of High Speed Machinery, CNT based Mass Sensors, Human Vibration & Dynamics of FGM Plate.

He has published 121 papers in International Journals and 97 papers in National and International journals. He has also written four book chapters. He completed 07 Sponsored Research & International Collaborations Projects and 20 consultancy projects. Under his supervision, 17 students have completed their PhD and 58 students M.Tech.

He organized 12 short term courses at IIT Roorkee and developed the three courses on Solid Mechanics, Vibration Control and Dynamics of Mechanical Systems under NPTEL (MHRD Scheme). He has two copy rights.

EMINENT SPEAKERS OF THE STTP& THEIR BRIEF PROFILE



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

Prof. Pradeep Kumar



Prof. Pradeep Kumar, Indian Institute of Technology Roorkee, has an outstanding academic. He had obtained Bachelor of Engineering in Industrial Engineering in 1982 and Master of Engineering in Production Engineering (Gold Medalist) in 1989. He had received Ph.D. in 1994. He has earned all the above degrees from University of Roorkee (Now, IIT Roorkee). During 1996, he was a Visiting Assistant Professor in the department of Industrial and Manufacturing System Engineering, West Virginia University, U.S.A. He had also served the Department of Industrial and Manufacturing Engineering, Wayne State University, U.S.A. as Visiting Faculty during 1998-1999. He had been a Visiting Professor in the Department of Industrial System Engineering, at AIT Bangkok, in the years 2010 and 2018. He had served the Department of System Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, as Visting Professor. (2013-2014). He also did serve the Delhi Technological University as Vice Chancellor (Aug 2014-Sept 2015).

Prof. Pradeep Kumar has more than 30 years of experience in teaching, research, and consultancy at IIT Roorkee, West Virginia University U.S.A, Wayne State University U.S.A, AIT Bangkok, KFUPM, Saudi Arabia. He had taught a wide spectrum of courses related to Industrial Engineering & Production Engineering He has supervised 38 Ph.D. theses (Awarded), 9 Ph. D theses are in progress; 95 M.Tech dissertations, 83 M.Tech projects and 50 B.Tech projects. He has published / presented 643 research papers in International Journals (338); Proceedings of International and National Conferences (305). He has completed 53 consultancy projects of various organizations and 20 sponsored research projects. 03 Sponsored Projects are in progress. 02 Patents awarded, and 03 patent disclosures.

Prof. Pradeep Kumar has received a number of prizes and honours. He was honoured with an Outstanding Teacher Award at IIT Roorkee two times, in the year, 2005, and 2009. He has received 4 best paper/case studies prizes for his papers published in Journals and conference proceedings. He has organized 4 national and 1 international conferences at IIT Roorkee and has been honoured to be a member in the advisory board of many professional societies and editorial member of many journal of repute. He is a fellow of World Confederation of Productivity Sciences, Canada.

Prof. Pradeep Kumar has wide administrative experience as Vice Chancellor, DTU, Delhi (2014-2015), Dean, Finance & Planning (2010-2012), Head, Department of Mechanical & Industrial Engineering (2007-2009), Chairman, Joint Entrance Examination (JEE) 2009, Organizing Vice Chairman JEE (2008), Coordinator, Educational Technology Cell (2004-2005), Chairman Graduate Aptitude Test in Engineering (GATE, 2006, 2007) and Vice Chairman GATE (2005), Vice Chairman PG Ac[illegible]s 8

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

(2005), Coordinator Workshop, Coordinator of Production and Industrial Engineering, Warden of Students Hostels and many other responsibilities both at department as well as at Institute level.

Prof. P. M. Panday



Prof. P. M. Pandey is Professor at Department of Mechanical Engineering, IIT Delhi. Earlier to this, he has worked in Harcourt Butler Technological Institute, Kanpur. He was awarded M. Tech in 1995 & Ph.D in 2003 from IIT Kanpur. He has 26 years of teaching experience. He has successfully guided 27 Ph.Ds and another 13 PhDs are in progress. Sir has guided 34 Masters Students. He has 16 Patents, which includes Orthosis for clubfoot, Design of elbow prosthesis, fabricating more accurate SLS prototypes, Tailoring properties in rapid prototypes etc. He has successfully completed 08 sponsored funded projects and 04 funded projects are in progress. He has also successfully completed 06 consultancy projects. He has published more than 153 research papers in peer reviewed journals. He has published more than 50 research papers in international and conferences and published 06 book chapters. His areas of interest include CAD/CAM, Finite Element Method, Optimization, Rapid Prototyping and Tooling, Manufacturing Science.

He has recorded on lecture on 'Tolerance Analysis' for IGNOU which was broadcasted live as well as it would be broadcasted later. Sir is also the Editorial Board Member of The Rapid Product Development (RPD) Magazine endorsed by RP Society of India, French RP Association, Portuguese RP Association, Standard and Industrial Research Malaysia. Sir is also the reviewer of various reputed journals such as International Journal of Advanced Manufacturing Technology, Journal of Materials Processing Technology and International Journal of Manufacturing Research etc.

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

Prof. P. M. Pathak



Prof. P. M.Pathak is Professor, Department of Mechanical and Industrial Engineering, IIT Roorkee. He was awarded Ph.D in 2005 from IIT Kharagpur in Space Robotics and M.Tech from IIT Kanpur He has 27 years of teaching experience and 5 years of Industrial Experience. He has successfully guided 10 Ph.Ds and another 08 PhDs are in progress. He has guided 40 Masters Students. He has successfully completed 12 funded projects (including ISRO, DST, DRDO, SPARC, MHRD). He has completed 6 Consultancy projects with various industries. He has published more than 115 research papers in peer reviewed journals and international conferences. He has written 01 book and 03 book chapters. He is also having MOOC course in Modelling and Simulation of Dynamic Systems runned by Swayam NPTEL Platform.

He has wide administrative experience for chairman GATE 2016 to 2018. He is reviewer of Various National & International Journal. He has an illustrious, diverse and rich experience in the fields of academics, research and industry. His Area of interest is Space Robotics, Solid Mechanics & Design. He is Member of Various Professional Bodies like International Federation for the Promotion of Mechanism and Machine Science Technical committee for Multi Body Dynamics, Association of Machines and Mechanisms (AMM)Robotic Society of India (RSI)

Prof. R S Walia



Prof. R. S. Walia is Head & Professor, Department of Production and Industrial Engineering, Punjab Engineering College, Chandigarh. Earlier to this, Prof. Walia has also worked in Delhi Technological University, Delhi and Guru Nanak Dev Engineering College, Ludhiana. Prof. Walia was awarded PhD from IIT Roorkee.

Prof. Walia has 20 years of teaching experience. Prof. Walia has successfully guided 14 Ph.Ds and another 06 PhDs are in progress. Prof. Walia has guided 45 Masters Stud[illegible] Walia has

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successfully completed 09 funded projects (including NASA Great Moon Buggy Race-2011 & 2012). Prof. Walia has published more than 150 research papers in peer reviewed journals and international conferences. Prof. Walia has written 02 books.

His areas of interest include advanced manufacturing processes, FEM, and industrial engineering. Prof. Walia has an illustrious, diverse and rich experience in the fields of academics, research and industry. He had the post of Head of Training and Placement at Delhi Technological University, Delhi. Prof. Walia has won many awards for their excellent work in academic as well as for administrative work.

Dr. Sachin K Mangla



Dr. Sachin is working as a Faculty of Knowledge Management and Business Decision Making, University of Plymouth, United Kingdom. Dr Sachin is working in the field of Green and Sustainable Supply Chain and Operations; Industry 4.0; Circular Economy; Decision Making and Modeling. He has a teaching experience of more than five years in Supply Chain and Operations Management and Decision Making, and currently associated in teaching with various universities in UK, Turkey, India, China, France, etc. He is committed to do and promote high quality research. He has published/presented several papers in repute international/national journals (International Journal of Production Economics; International Journal of Production Research; Production Planning and Control; Business Strategy and the Environment; Journal of Cleaner Production; Annals of Operations Research; Transportation Research Part – D; Transportation Research Part – E; Renewable and Sustainable Energy Reviews; Resource Conservation and Recycling; Information System Frontier; Management Decision; International Journal of Logistics Research and Applications; Benchmarking an International Journal; Industrial Data and Management System; International Journal of Quality and Reliability Management) and conferences (POMS, SOMS, IIIE, CILT - LRN, GLOGIFT). He has an h-index 35, i10-index 65, Google Scholar Citations of around 4000.

He is involved in editing couple of Special issues as a Guest Editor in Production Planning & Control: The Management of Operations, and Resources, Recycling and Conservation, Annals of Operations Research, Journal of Resource Policy, Journal of Cleaner Production, and 'Technological Forecasting and Social Change' on various issues of 'Industry 4 and Circular Economy' and Green and Sustainable Supply Chains Performance Improvement' and 'Food Supply Chains' 'and 'Industry 4.0, Cleaner Production, Circular Economy and Ethical Business Development'. Recently, he has also received a

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grant as a PI from British Council - Newton Fund Research Environment Links Turkey/UK - Circular and Industry 4.0 driven sustainable solutions for reducing food waste in supply chains in Turkey. He is also working with USERC (Uttarakhand Science Education & Research Centre), Govt. of Uttarakhand, India for managing food waste in Circular Economy. He is also a professional member of Indian Institution of Industrial Engineers (India); OPERATIONAL RESEARCH SOCIETY OF INDIA; Society of Operations Management (SOMS); Multiple Criteria.

Dr. Ravi Kant



Dr. Ravi Kant is an Assistant Professor in the Department of Mechanical Engineering, IIT Ropar. Prior to joining IIT Ropar, he was working as an Assistant Professor at College of Engineering Pune. He received his Bachelor degree in Mechanical Engineering from Maharshi Dayanand University, Rohtak (Haryana). He completed his M.Tech. from Department of Mechanical Engineering, IIT Guwahati with a specialization in "Computer Assisted manufacturing". He worked on the Investigation on Formability of Adhesively Bonded Sheets during his M.Tech. project. He also obtained his doctorate from IIT Guwahati. During PhD, he worked on laser forming process. His PhD work includes experimental studies, numerical simulations, soft-computing modeling and optimization. After PhD, he worked on inverse estimation of unknown parameters and laser assisted adhesive joining of metal to polymer sheets. His research interests include laser based manufacturing, modeling and optimization of modern manufacturing processes, transmission welding, adhesive joining, inverse estimation, ultra-high speed machining, etc.

Dr. C.S. Jawalkar



Dr. C.S. Jawalkar is currently working as an Associate Professor in Production and Industrial Engineering Department at Punjab Engineering College (Deemed University to be University), Chandigarh. Earlier to this, he has worked in an MNC, as a "Manager-Production" in PSPL, [illegible]

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Polyhedron Group, India from 1996-2003. Sir has 17 years of Teaching and 07 years of Industrial experience. He has completed his B.E from Karnataka University in 1996 after that sir has done MBA degree in the specialization with Marketing Management and M.Tech. from Production Engineering specialization. Sir has completed his Ph.D., from IIT Roorkee from the department of Mechanical and Industrial Engineering in the topic of Advanced Manufacturing "Electro Chemical Discharge Machining". He has successfully guided 04 Ph.Ds., submitted one and another 03 are in process. He has guided 30 Masters Students. He has published more than 80 research papers in reputed International and National Journals and Conferences. He has written 05 books and 06 book chapters (including one book chapter in Tata M/c. Graw Hill, USA). His areas of interest includes: Advanced Manufacturing, Supply Chain Management, Composites and Machining processes.

Dr. Suman Kant



Dr Suman Kant is an Associate Professor in Production and Industrial Engineering Department at Punjab Engineering College (Deemed to be University) Chandigarh. Sir is an Associate Dean Faculty Affairs also at Punjab Engineering College Chandigarh. He did his M.Tech and Ph.D; both degrees from IIT Roorkee. He has over 17 years of Teaching and Research experience. He has guided 07 Ph.D and 53 M.E students. Presently he is guiding 07 Ph.D and 02 M.Tech students. He has over 60 publications in various international and national journals. Sir has published a no. of papers in various reputed national and international conferences. His area of interest includes Experimental design, Quality control, Composite materials, Continuous casting and Teaching Learning. Sir is also a NBA Co-ordinator of Production and Industrial Engineering Department of PEC Chandigarh from last 10 years.

Dr. Anup Malik



Dr.Anup Malik is Assistant Professor in the Department of Mechanical Engineering [illegible]

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Institute of Technology Jaipur, Rajasthan. He has received his Master of Engineering and Ph.D. in Mechanical Engineering from Punjab Engineering College, Chandigarh, India. His area of research is Advanced Machining Processes. He has published 25 research papers in various international and national journals & conferences. He has published 03 book chapters in international books. Currently he is guiding PhD students in advanced machining area. He is a member of various profession societies as well. He is also reviewer of various international and national journals.

Dr. Ankur Gupta



Dr. Ankur Gupta is presently an Assistant Professor at the Indian Institute of Technology Jodhpur. He received his Ph.D. degree in Mechanical Engineering from the Indian Institute of Technology (IIT) Kanpur and M. Tech. from the Indian Institute of Technology Varanasi. 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 various prestigious institutes within the nation. He got selected by DST to participate in the "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 the "Distinguished Alumni Award" from his alma mater in 2020.

Dr. Atul Kumar Sharma



Dr. Atul Kumar Sharma is an Assistant Professor, Mechanical Engineering Department, IIT, Jodhpur. He has completed his PhD from Indian Institute of Technology Roorkee, India. He did his M. Tech. in Mechanical Engineering from Motilal Nehru National Institute of Technology, Allahabad, India, Delhi. He has received INSPIRE Faculty Award, Department of Science and Technology, Government of India

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B.E., M.E., Ph.D.
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(2019), Technion Post-Doctoral Fellowship, Technion-Israel Institute of Technology, Israel (2019), Gold Medal, Motilal Nehru National Institute of Technology Allahabad (2016) and Best Paper Award, International Conference on Smart Engineering Materials (ICSEM), Bengaluru (2016). He is Reviewer of various reputed International Journal like Smart Materials and Structures, Journal of Micromechanics and Microengineering, Nonlinear Dynamics, Bioinspiration & Biomimetics, Modelling and Simulation in Materials Science and Engineering and Sādhanā.

His research interests span the broad area of computational solid mechanics. The specific research interests include: Mechanics of Soft Active Materials, Finite Element Methods for Coupled Field Problems, Stability Analysis and Control of Electrically Driven Mechanical Structures, Wave Propagation in Soft Active Composite Materials, Topology Optimization.

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.

Dr. Gunjan Soni, receive two International Workshop Funding:

1. An Advanced Course on Reliability-based Robust Product Design from USA worth amount of $8000 in 2019.

2. Circular Manufacturing System from UK worth amount of $8000 in 2020.

Dr. Gunjan Soni conducted 14 national workshops. He has guided 7 PhDs and 05 PhDs are going on.

Mr. Ashish Varshney



Mr. Ashsish Varsney, CEO , L 3D Creations. Sir Has completed his Master's in Electrical engineering.

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in 2017 from Vilnius Gediminas Technical University. Lithuania. He got Various awards while serving to the industry. He has Industrial experience at Aha 3D Innovation Pvt Ltd. Jaipur as a ELECTRICAL APPLICATION ENGINEER. He has vast experience in organisational & Managerial Skills and Expertise in PCB designing, Automation, 3D Printing, 3D printer designing & Manufacturing and Different software's related to CAD & 3D Printing.

He has knowledge of designing, developing and maintaining electrical systems and components to required specifications, focusing on economy, safety, reliability, quality and sustainability.

He has consistent track record of successfully completing projects from the concept and details of the design through to implementation, testing and handover. Sir has successfully achieved the 20 micros resolution in FDM / FFF technology in Polymers like Carbon fiber, SS, Kevlar, Ultem with the help of Motors, Drylin bearings by temperature control system via electronics and Electrical circuit design and developed AFDM/AFFF Metal 3D printer in L3D Creations.

CONTENT DELIVERY / PRACTICAL SESSIONS:

Day I (Monday, 15 March 2021)

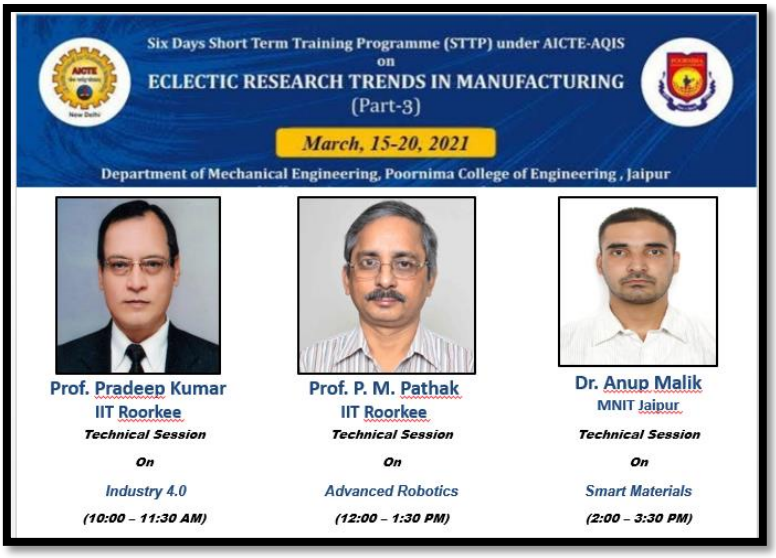


The first technical session was conducted by **Prof. S.P. Harsha** from **IIT Roorkee**. He delivered his talk on **Machine Learning techniques used in Automation**. In his session; he discussed in detail about different elements of automation and their uses.

Second Technical session was delivered by **Prof. R. S. Walia** from **PEC Chandigarh** on **Smart Manufacturing**. He discussed about the various methods used for smart manufacturing.

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Day II (Tuesday, 16 March2021)

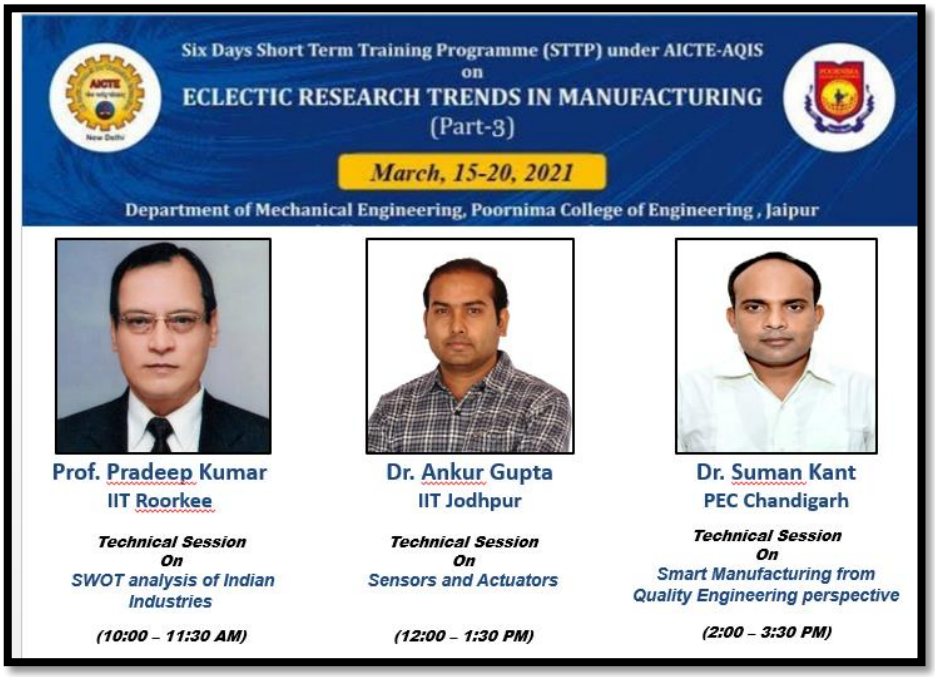


In the first session of second day (3rd Session) was conducted by **Prof. Pradeep Kumar** from **IIT, Roorkee** delivered his expert session on **Industry 4.0**. He discussed about the various elements and application of industry 4.0.

The second session of second day (4th Session) of STTP was conducted by **Prof. P. M Pathak,** from **IIT,Roorkee** on **Advanced Robotics**. He discussed about the various types of robots in details.

In the third session of Second day (5th Session) of STTP was conducted by **Dr. Anup Malik, Assistant Professor** from **MNIT Jaipur** on **Smart Materials**. He talked about the different types of smart material, active smart polymer and different areas of smart materials.

Day III (Wednesday, 17 March2021)



In the first session of third day (6th Session) of STTP; **Prof. Pradeep Kumar** from **IIT Roorkee**; delivered his talk on **SWOT analysis of Indian Industries**. He explained the Strengths, Weaknesses, Opportunities and Threats for Indian Industries in very detailed manner.

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In the second session of third day (7th Session) of STTP; **Dr. Ankur Gupta, Assistant Professor** from **IIT Jodhpur** delivered the expert session on **Sensors and Actuators**. He discussed various researches which have been conducted till now and the future scope in the field of sensors and actuators.

In the third session of third day (8th Session) of STTP; **Dr. Suman Kant, Associate Professor** from **PEC Chandigarh** had delivered the expert session on **Smart Manufacturing from quality engineering perspectives**. He explained the topic with the case studies; how to select the smart manufacturing technique as per quality requirement.

Day IV (Thursday, 18 March2021)



In the first session of forth day (9th Session) of STTP; **Dr. Gunjan Soni, Assistant Professor** from **MNIT Jaipur** delivered his expert session on **IIOT & Artificial Intelligence in Manufacturing Systems**. He explained various elements of Artificial Intelligence which can be applied to Manufacturing Systems.

In the second session of forth day (10th Session) of STTP **Prof. P. M. Pandey** from **IIT Delhi** delivered the session on **Additive Manufacturing**. He shared the different research ideas regarding Additive manufacturing and their applications in different fields like medical, automobiles etc. and the **virtual visit of Rapid Prototyping Lab of IIT Delhi** was conducted.

In the third session of forth day (11th Session) of STTP **Dr. Sachin Kumar Mangla, Faculty** from **University of Plymouth, United Kingdom**; delivered the expert session on **Block chain in Supply Chains**. He shared his expertise with the participants about applications of block chain in supply chains, opportunities and challenges in the field. He along with his Turkey project colleague; Melissa discussed their UK and Turkey funded project with the participants.

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Day V (Friday, 19 March2021)



In the first session of fifth day (12th Session) of STTP; **Dr. Ravi Kant, Assistant Professor** from **IIT Ropar** delivered his talk on **Recent Trends in Additive Manufacturing**. He shared the various research ideas related to additive manufacturing; and discussed about various research areas of Additive Manufacturing.

In the second session of Fifth day (13th Session) of STTP **Mr. Ashish Varshney, CEO** from **L3D Creations Jaipur**; delivered his talk on **3D Printing**. He shared his experience with the participants and discussed different materials and methods of 3D printing.

In the third session of fifth day (14th Session) of STTP **Dr. C. S. Jawalkar, Associate Professor** from **PEC Chandigarh** delivered the expert session on **Automation**. He explained the various automation Techniques, which can be implement in manufacturing system.

Day VI (Saturday, 20 March 2021)



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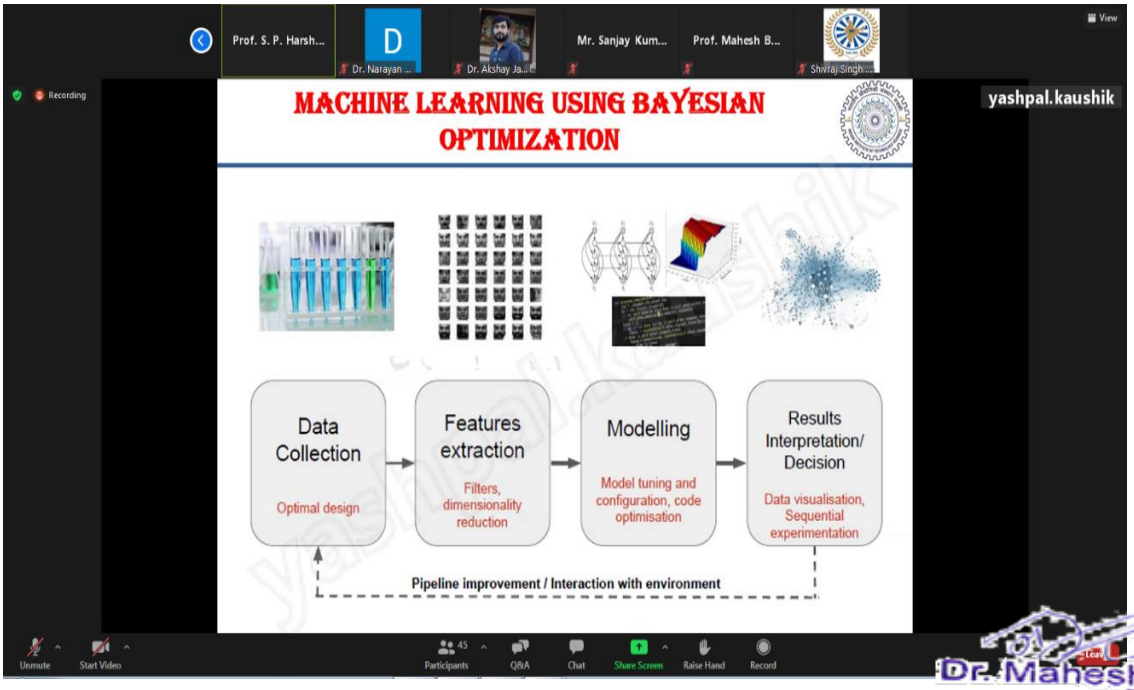
In the first session of sixth day (15th Session) of STTP; **Dr. Atul Kumar Sharma, Assistant Professor** from **IIT Jodhpur** delivered the expert session on **Modelling of soft active smart materials**. He shared the knowledge regarding different types of active smart materials and main influential factors affecting the properties of active smart materials.

In the second session of sixth day (16th Session)/Last technical session of STTP; **Mr. Ashish Varshney, CEO** from **L3D Creations Jaipur**; delivered **Hands on practise session with 3D Printer**. He described the steps from the CAD modelling to final printed parts. He has virtually showed how the 3D Printer works.

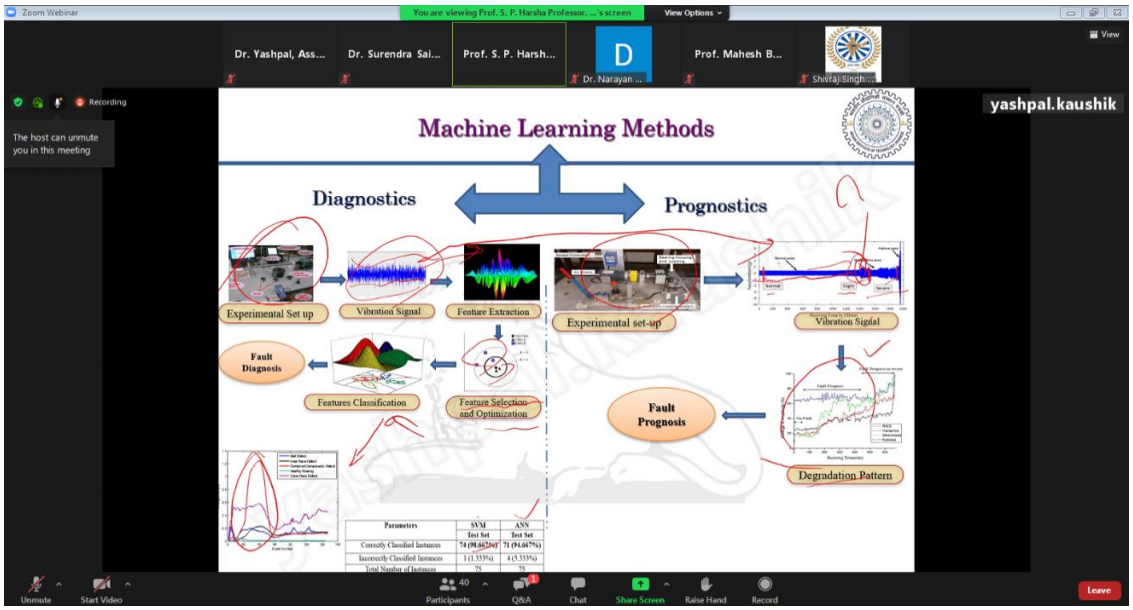
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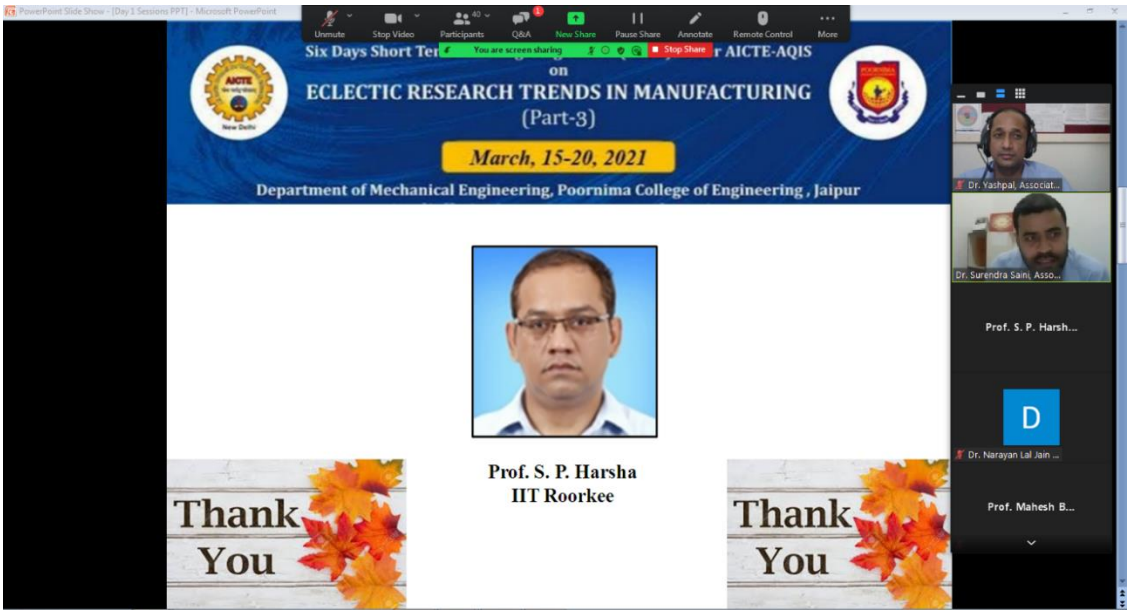
Technical Sessions (DAY-1)





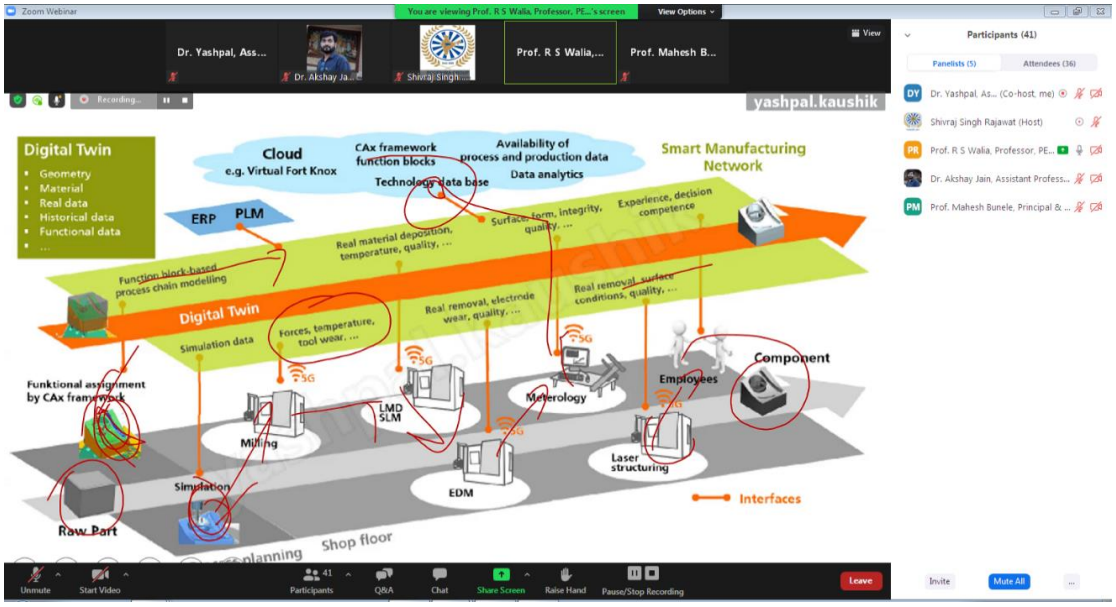
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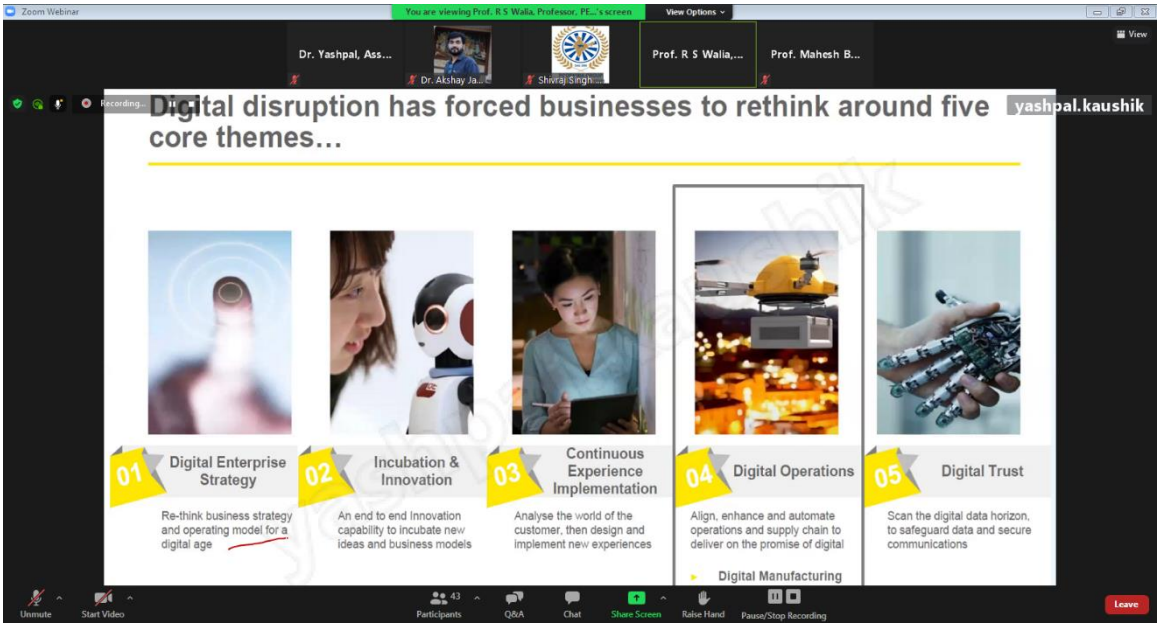






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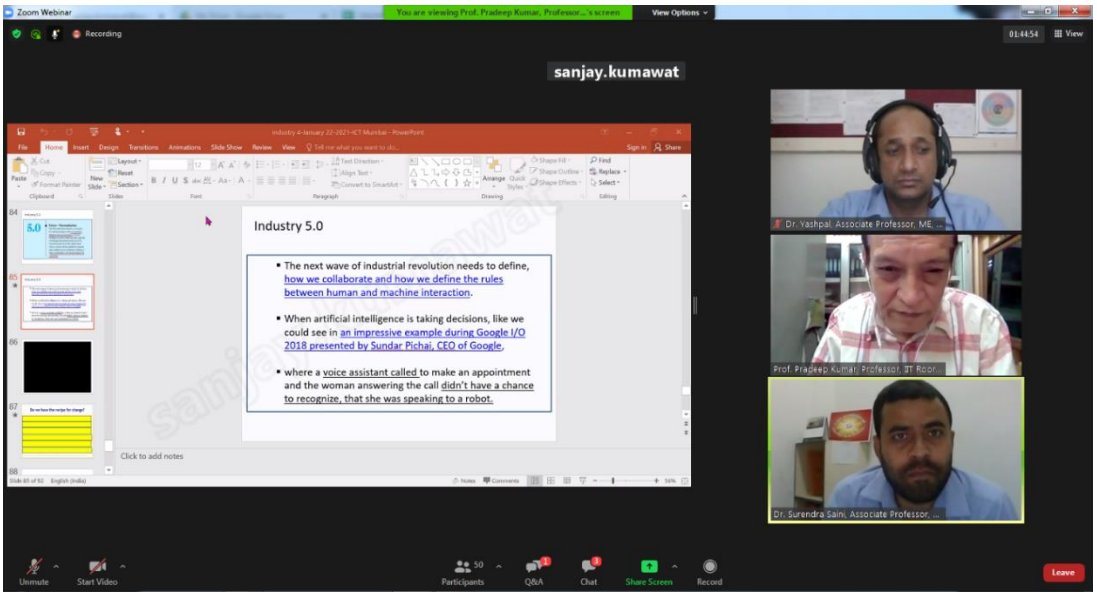




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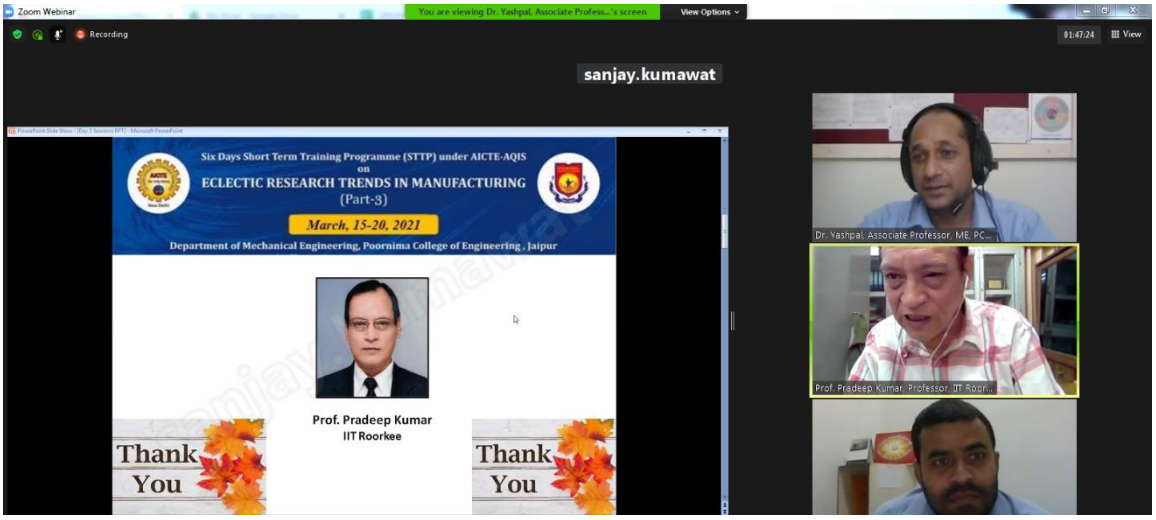
Technical Sessions (DAY-2)



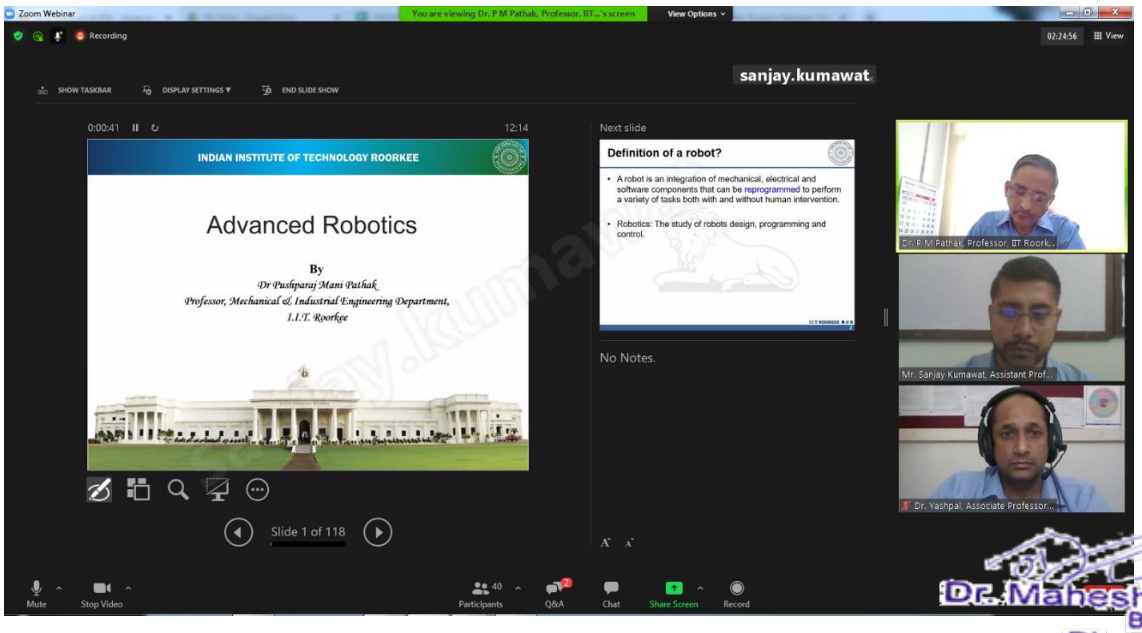




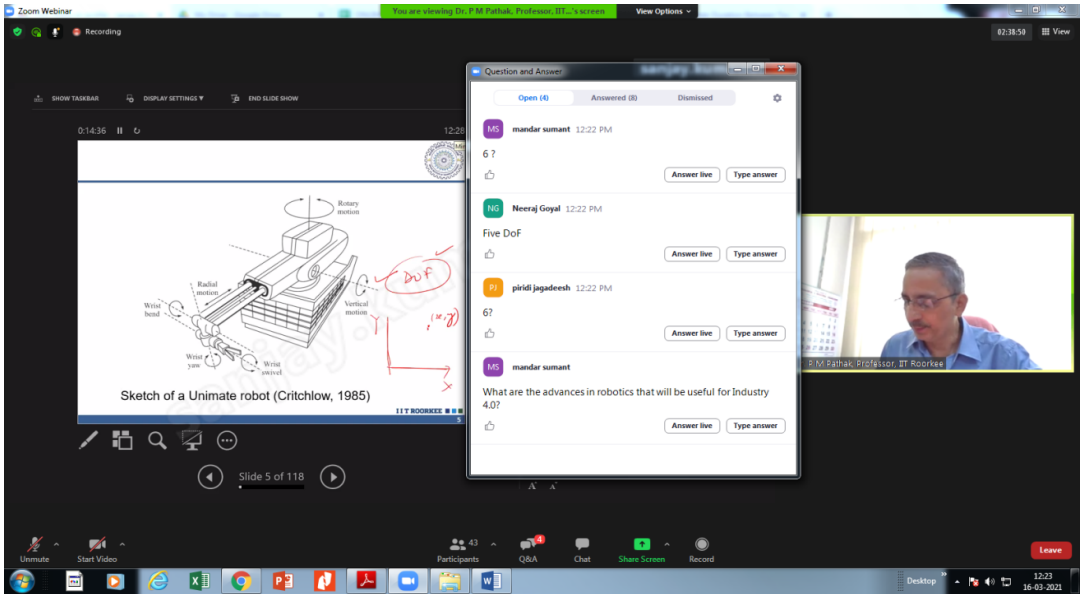
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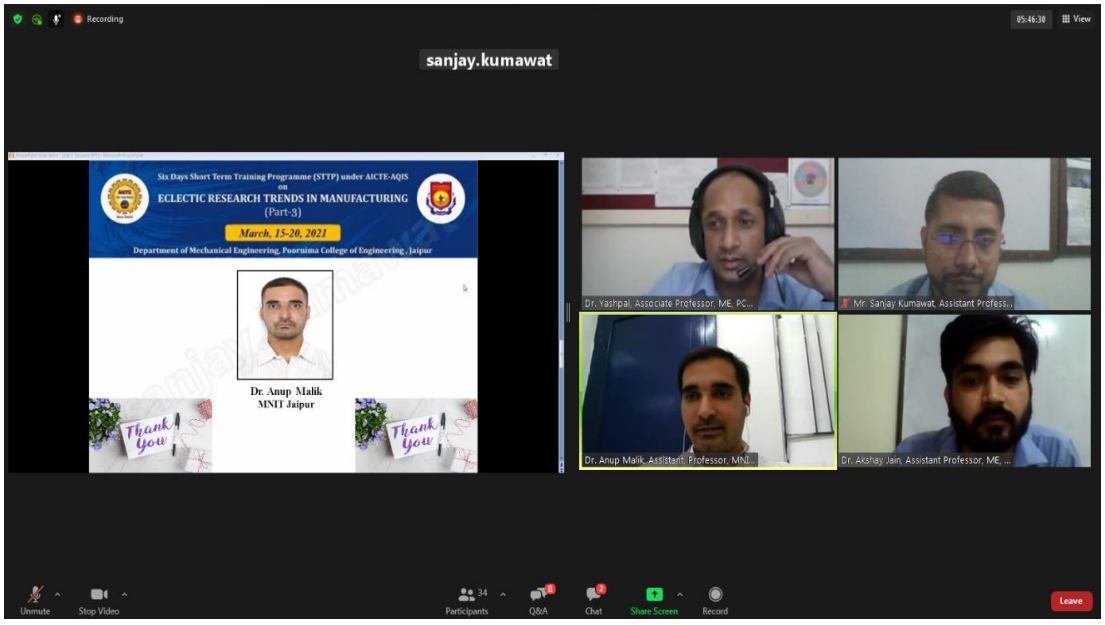






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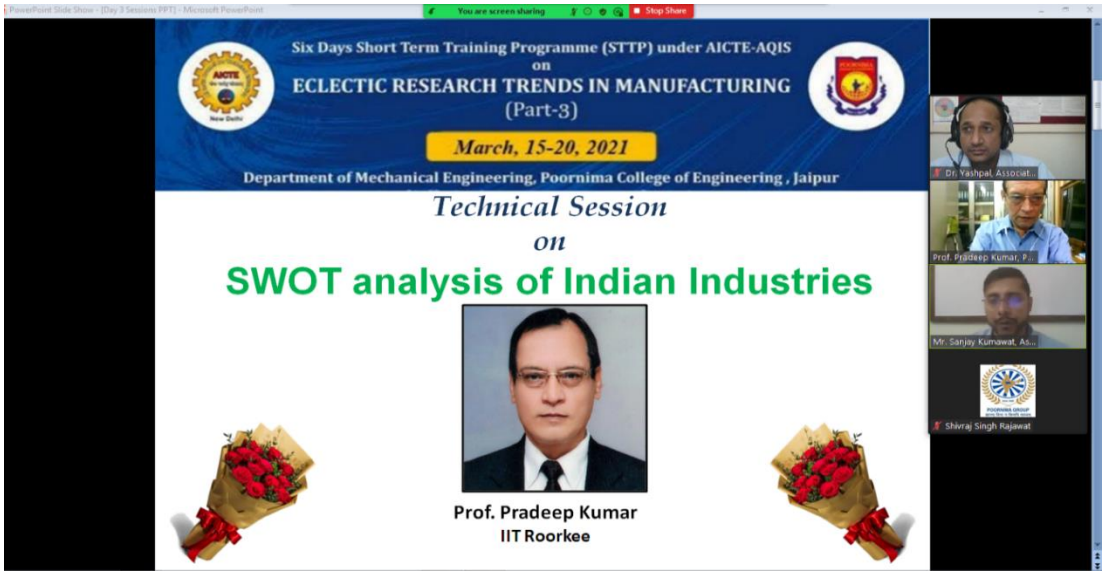


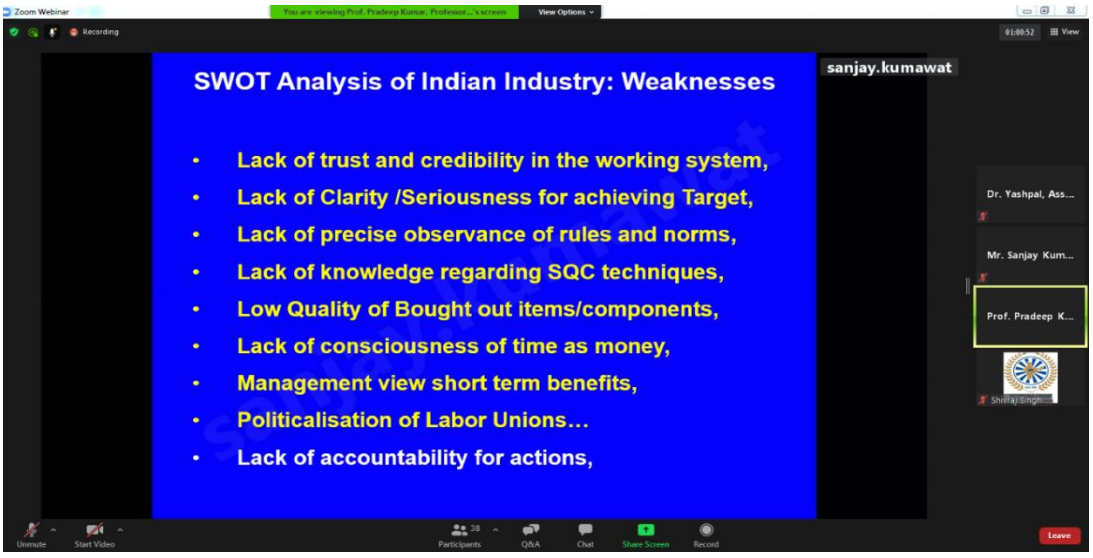


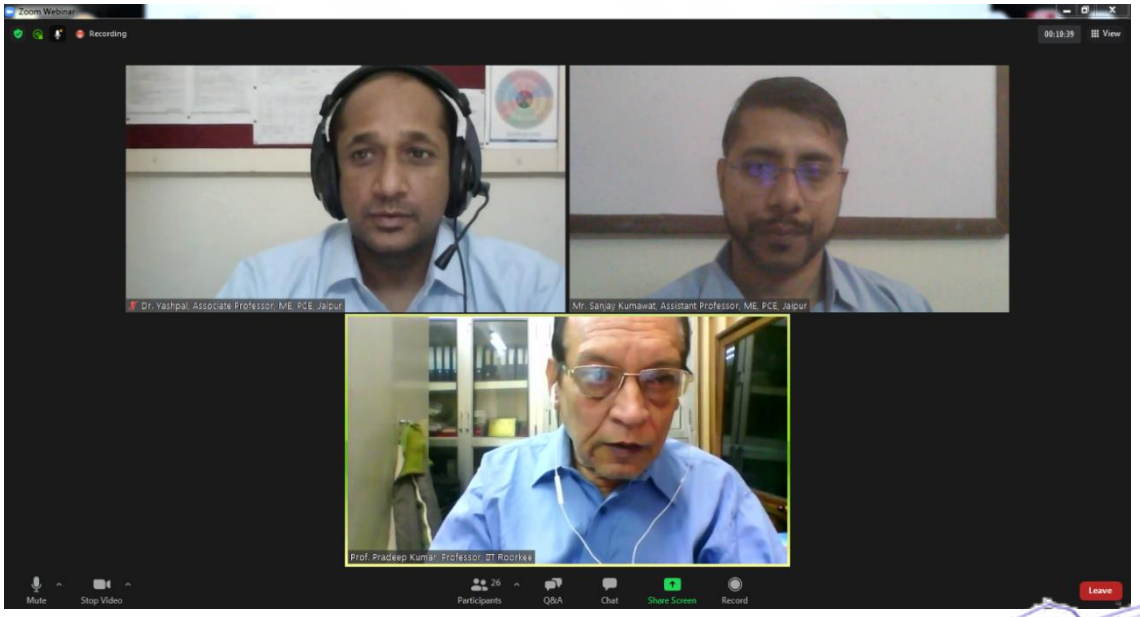


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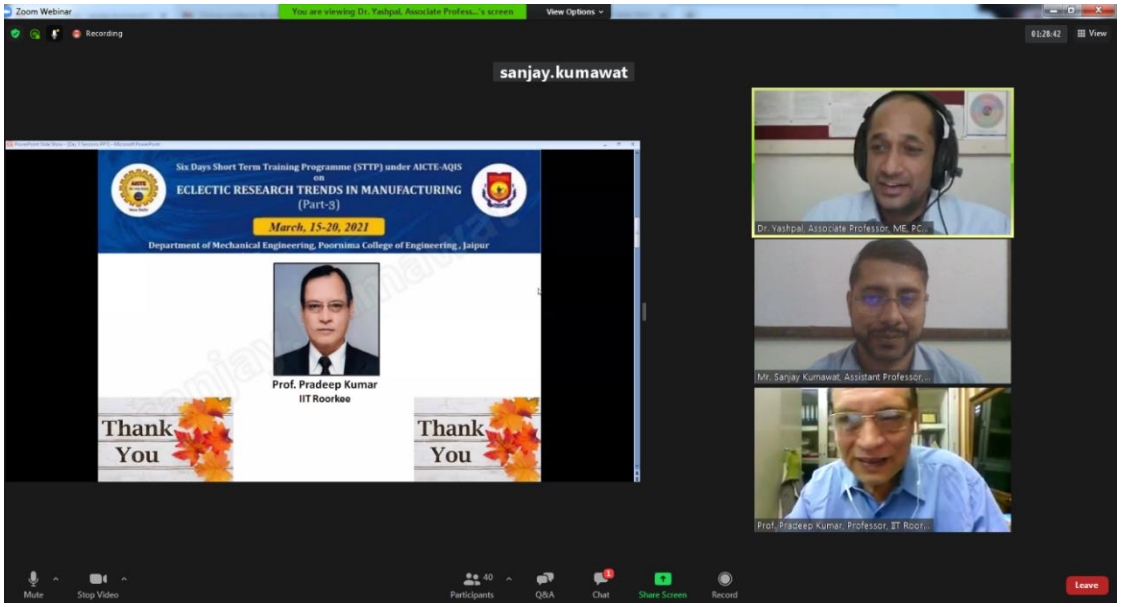
Technical Sessions (DAY-3)



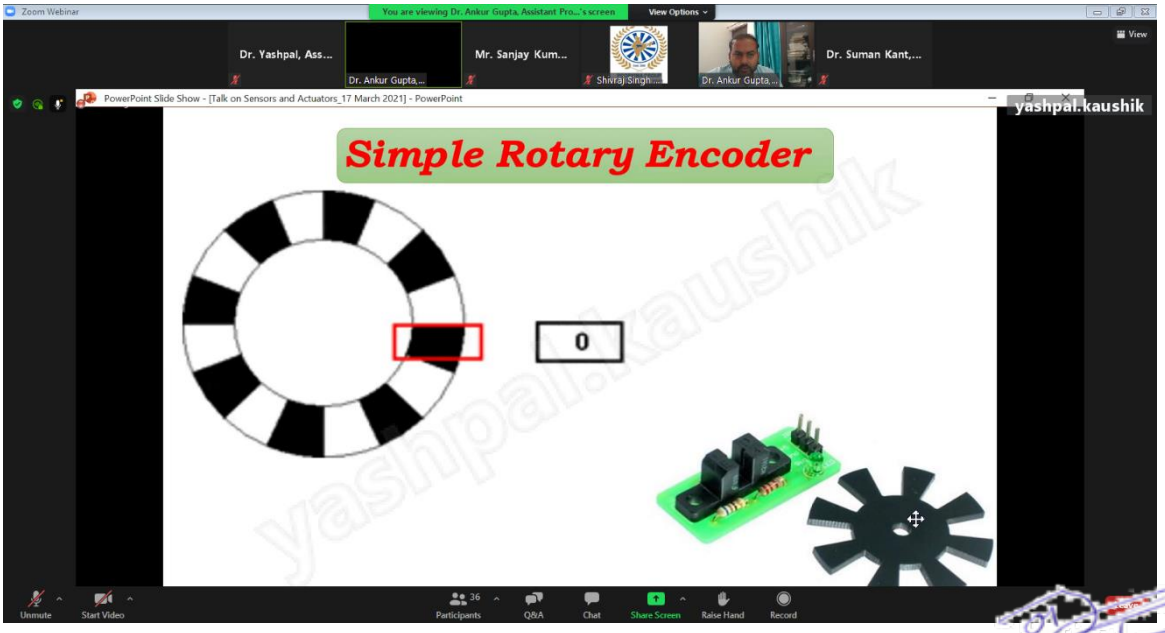




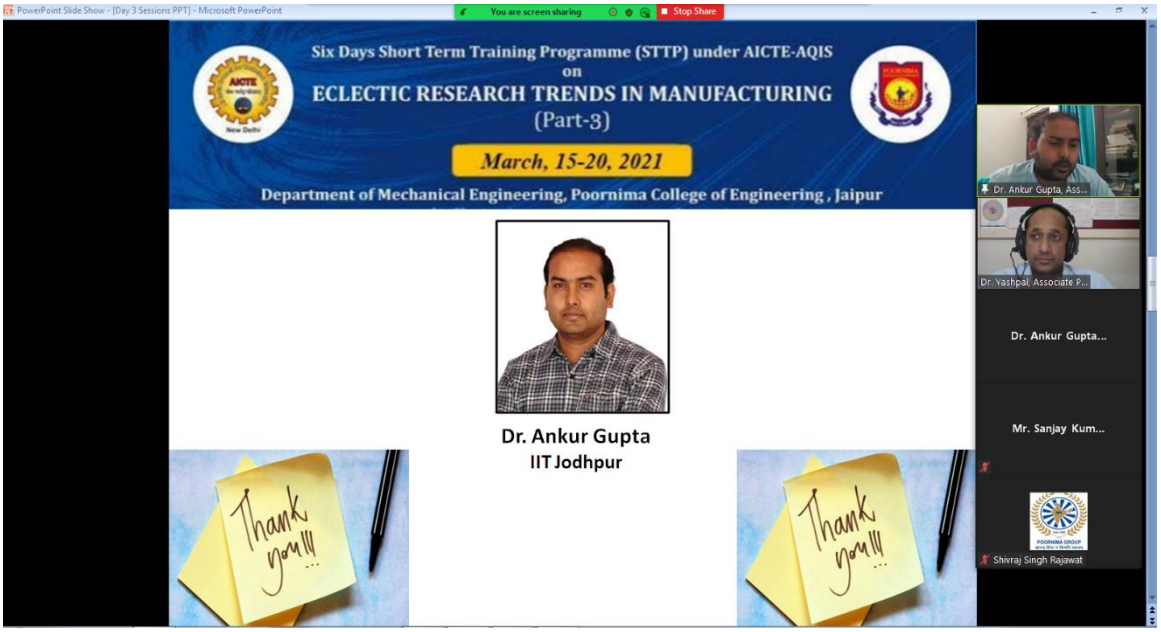
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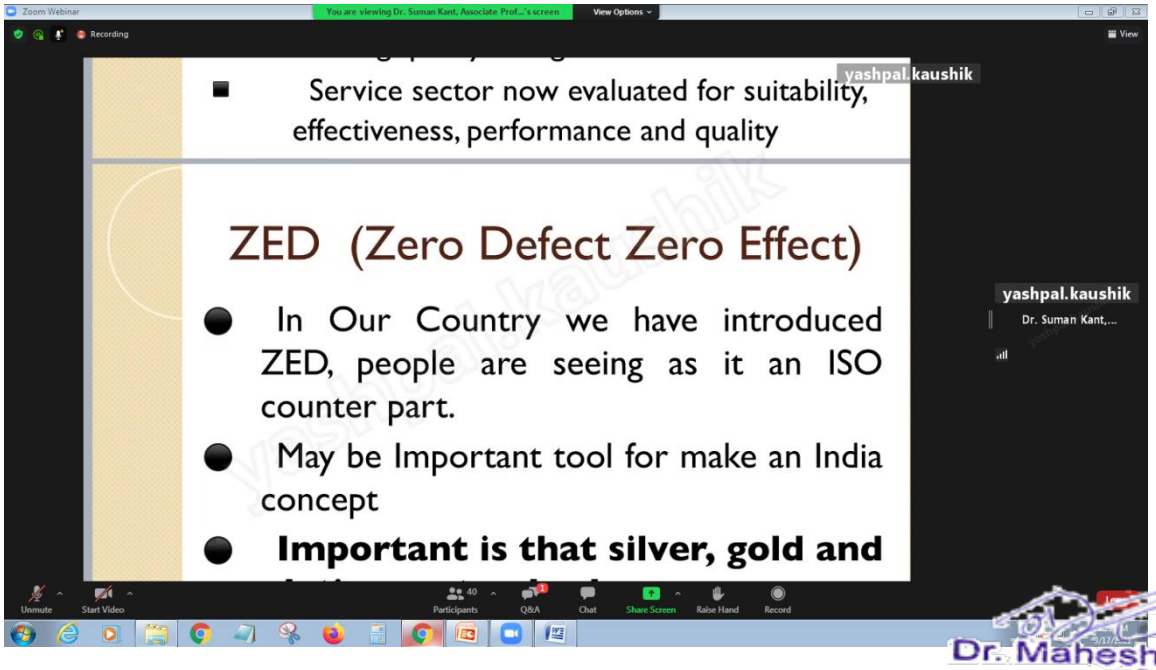




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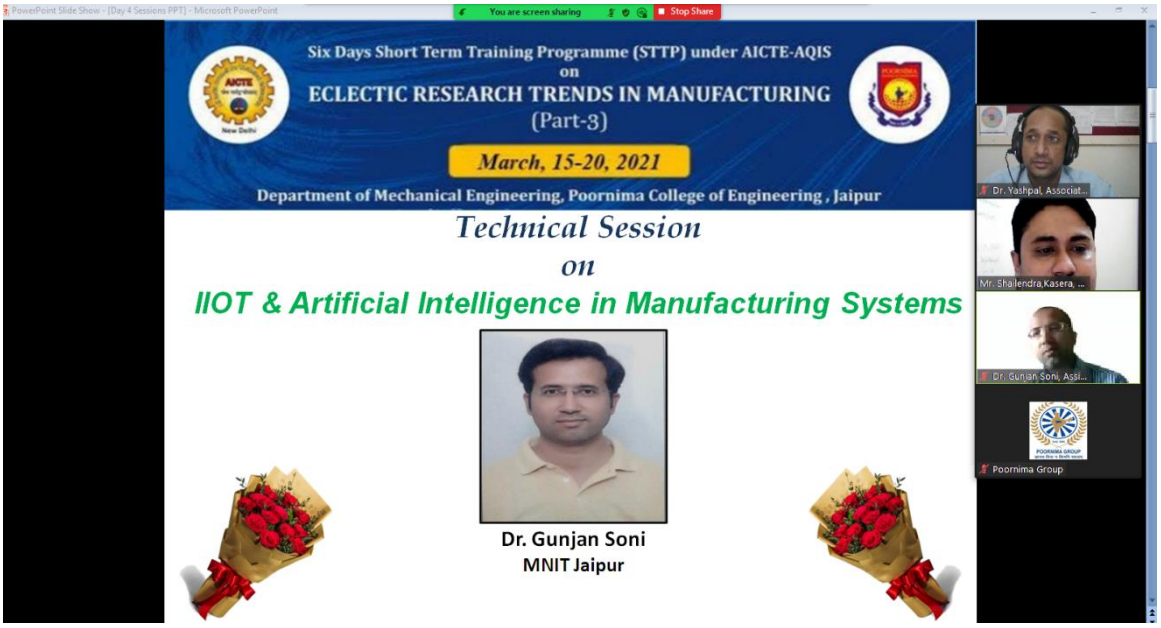






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Technical Sessions (DAY-4)



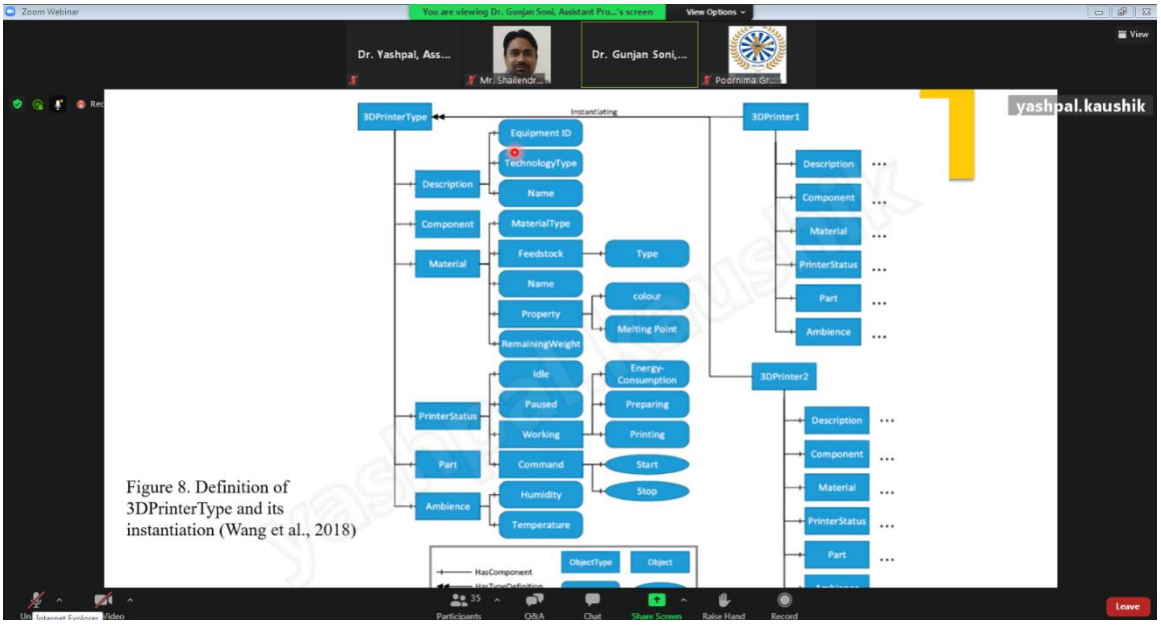
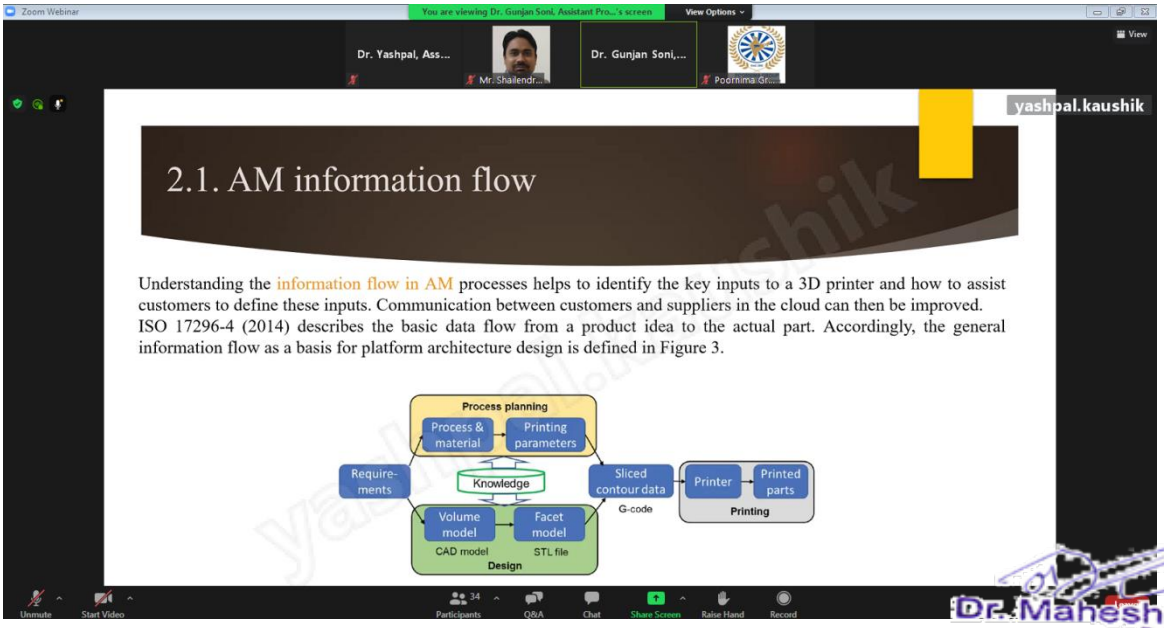


Figure 8. Definition of 3DPrinterType and its instantiation (Wang et al., 2018)



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B.E., M.E., Ph.D.
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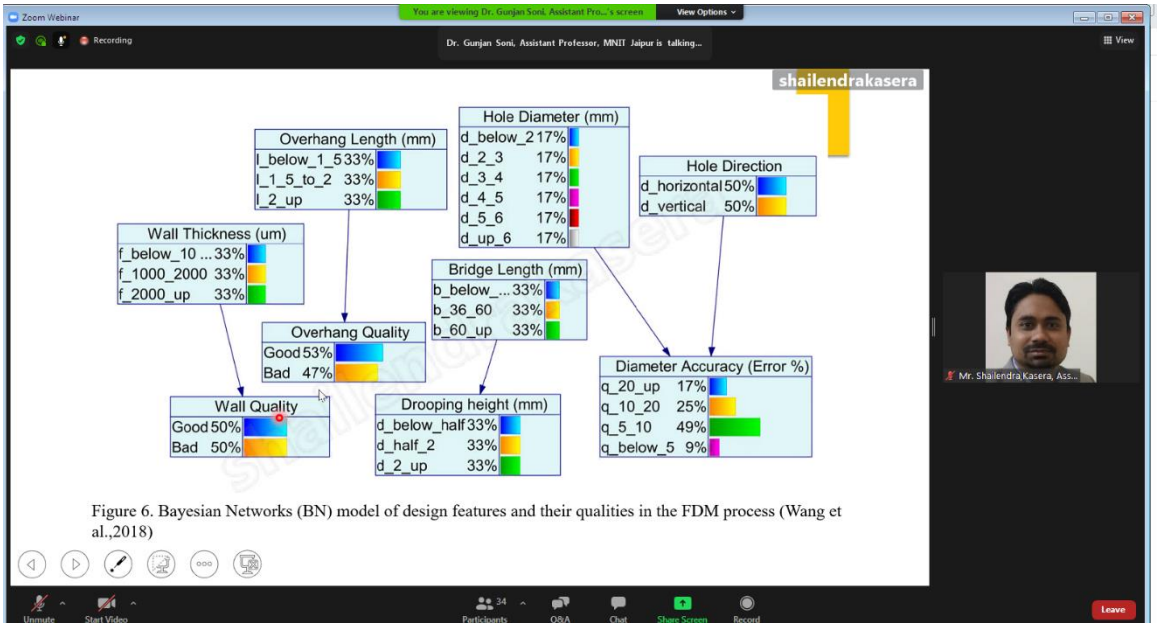
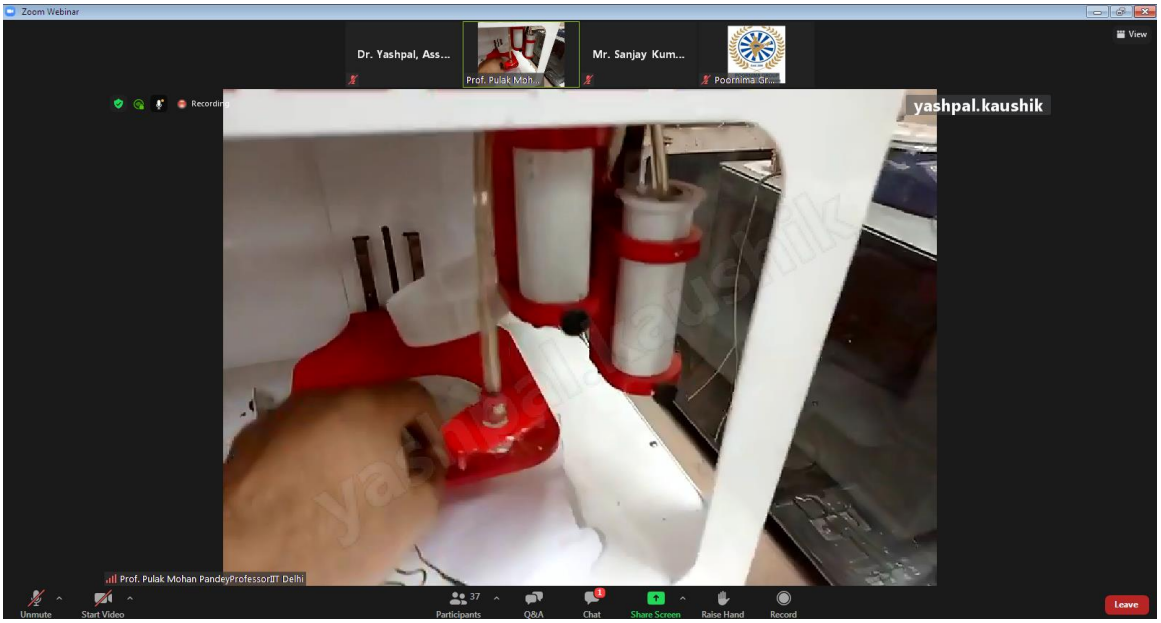


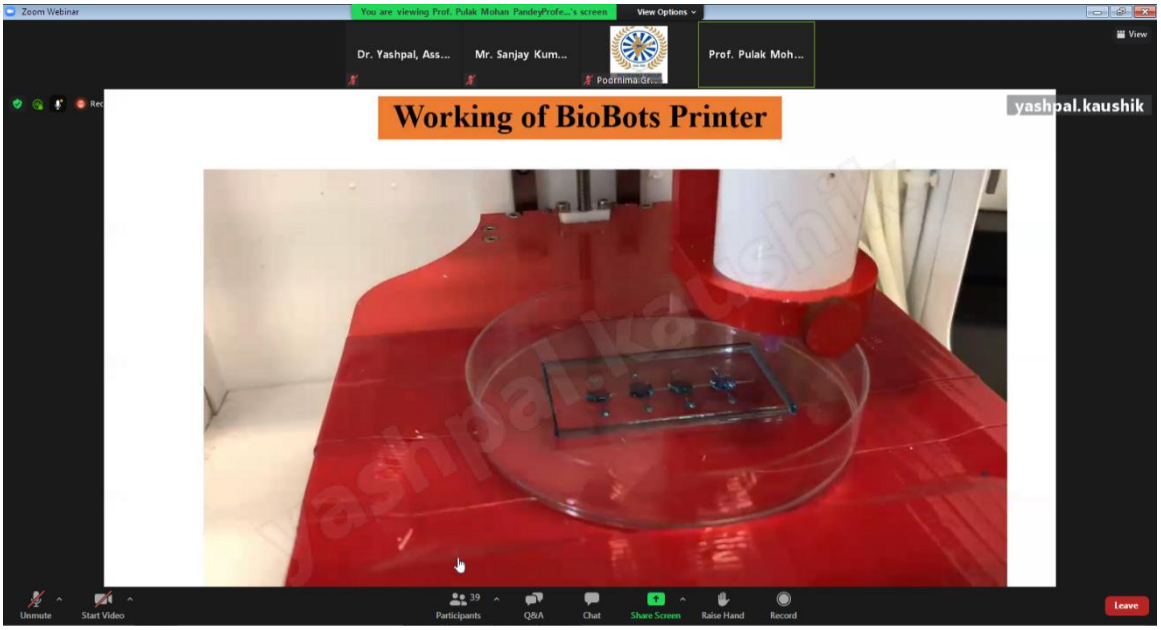
Figure 6. Bayesian Networks (BN) model of design features and their qualities in the FDM process (Wang et al.,2018)





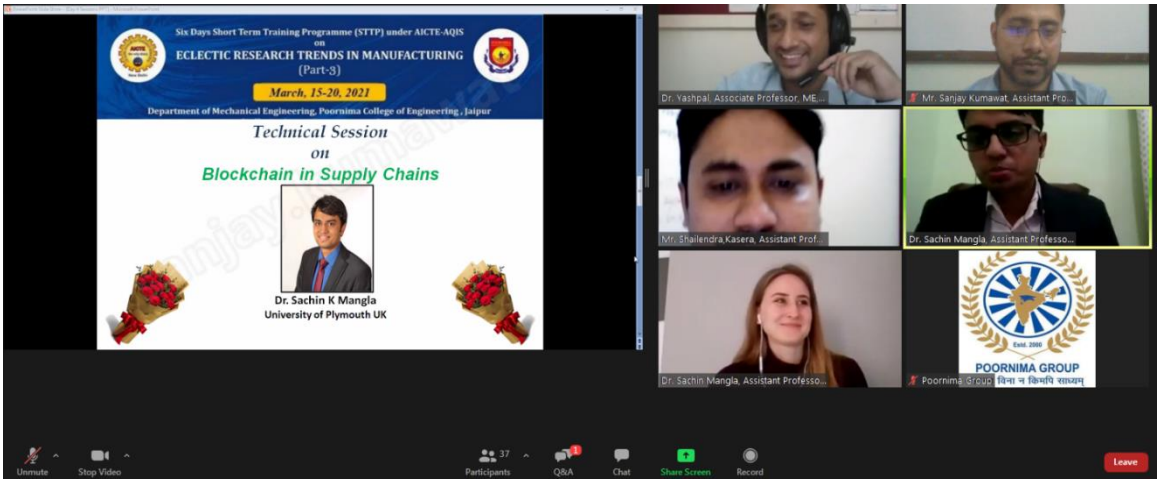
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
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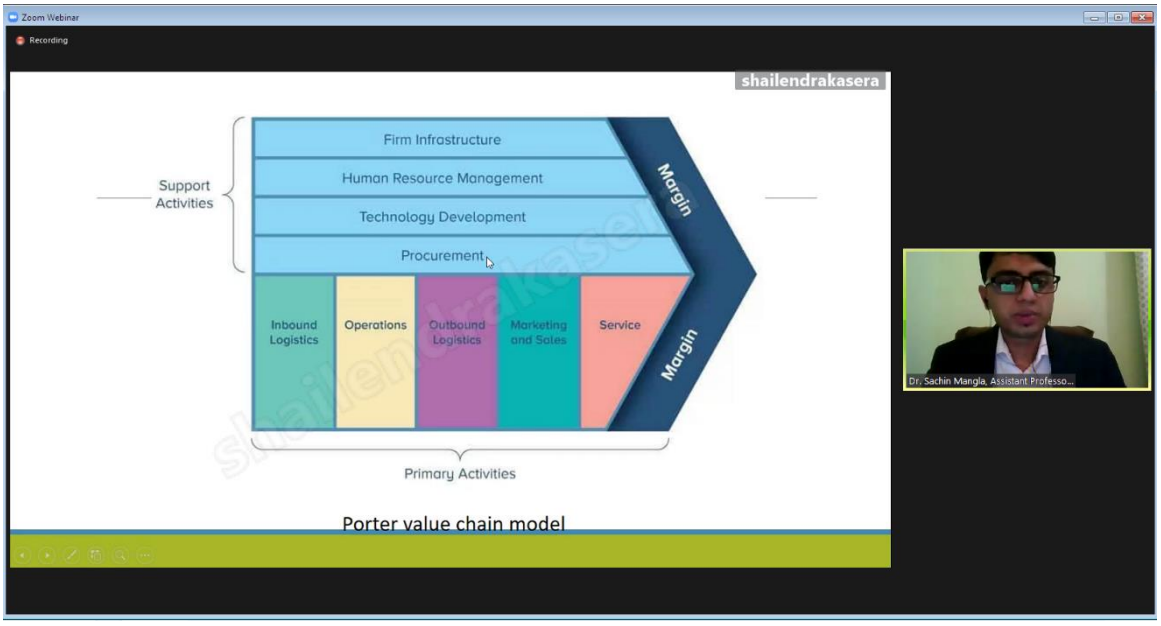






Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

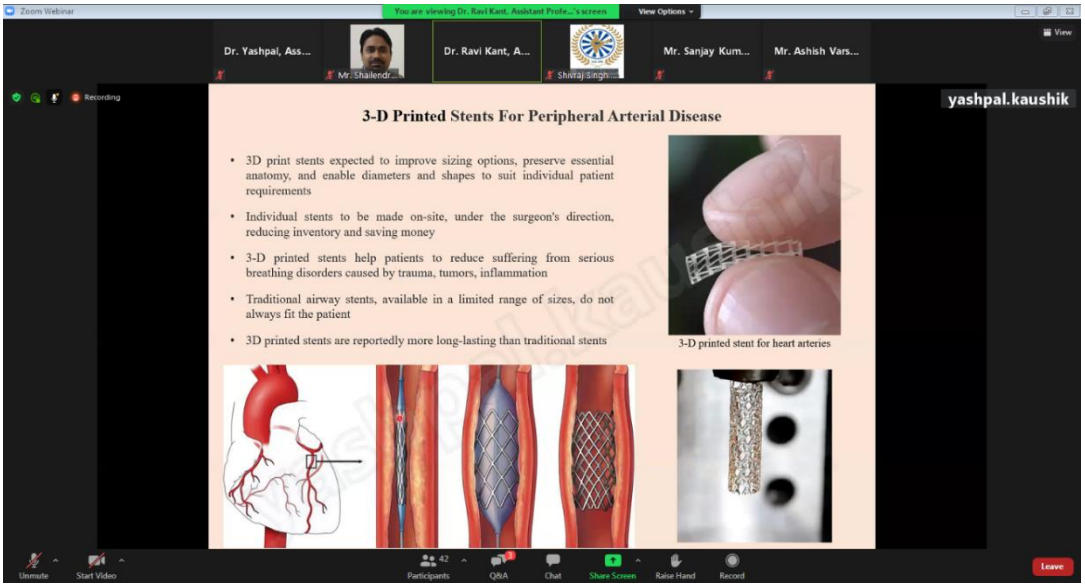


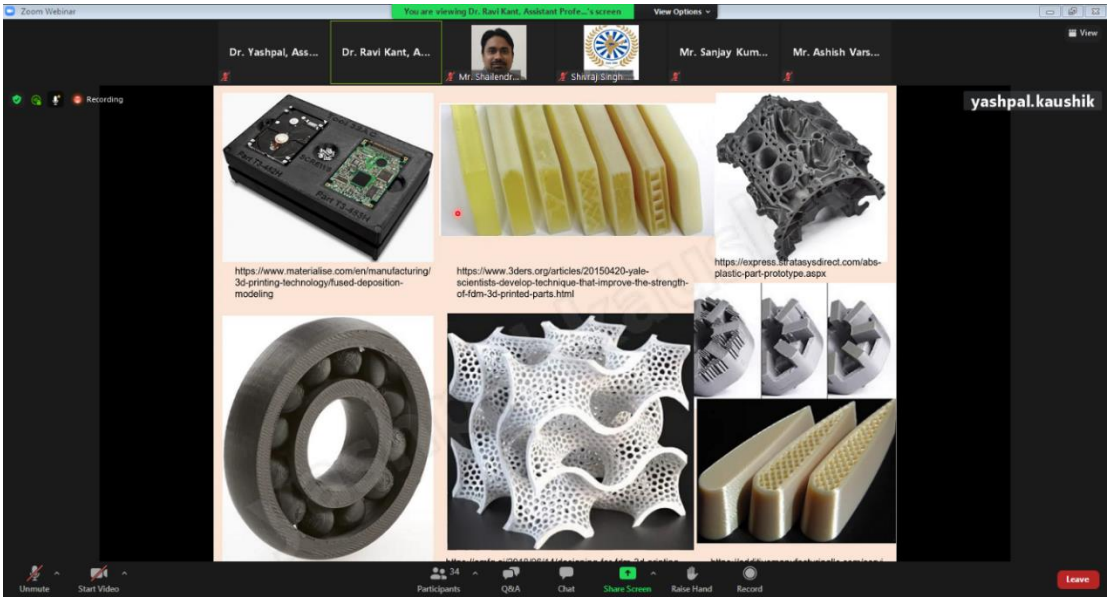


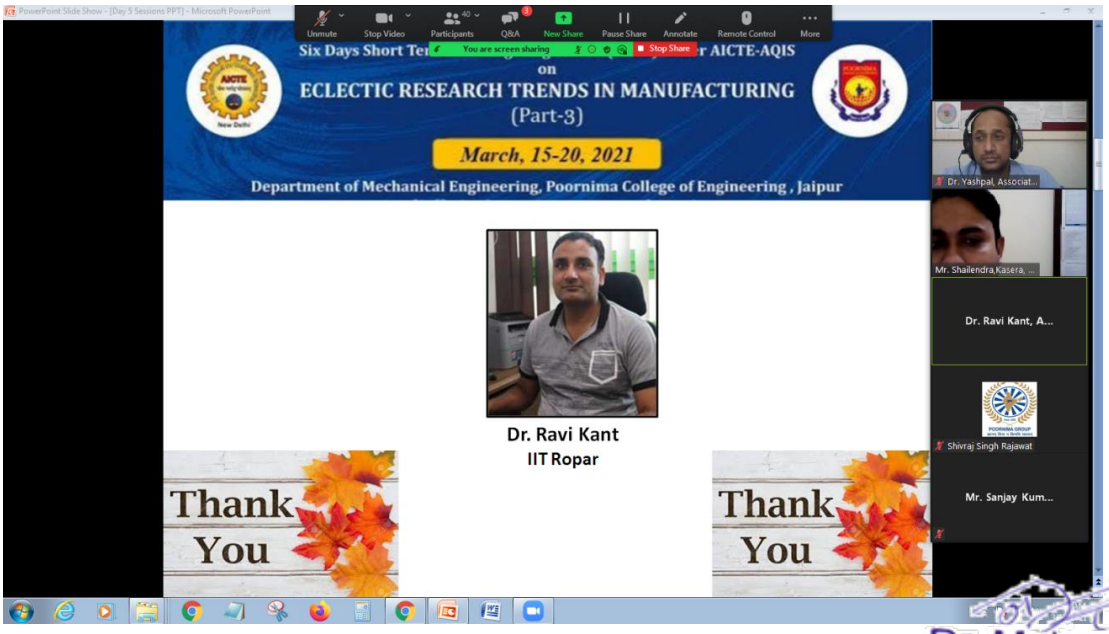


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

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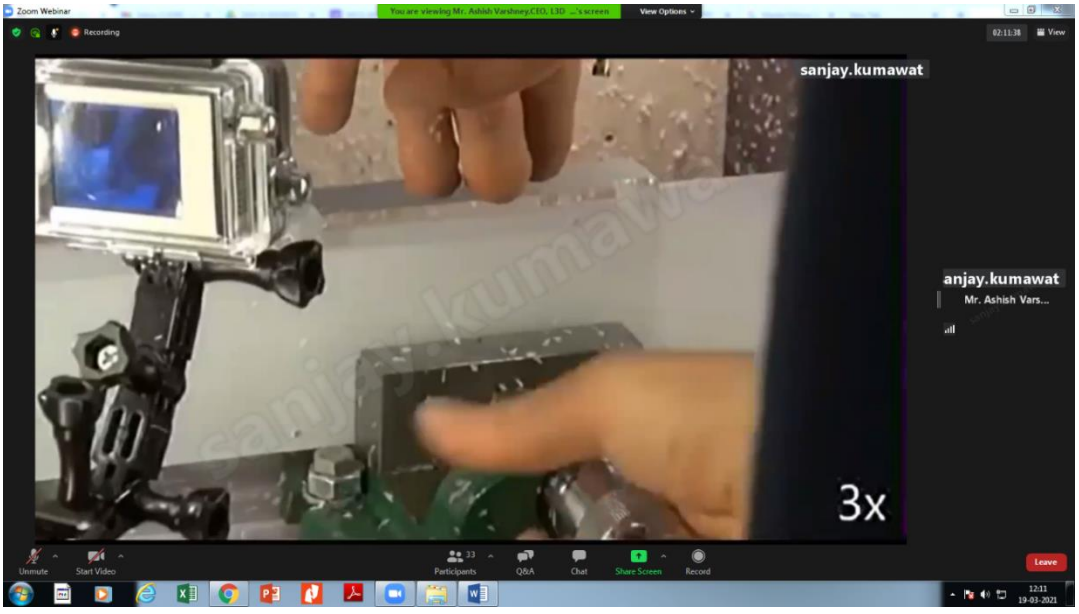


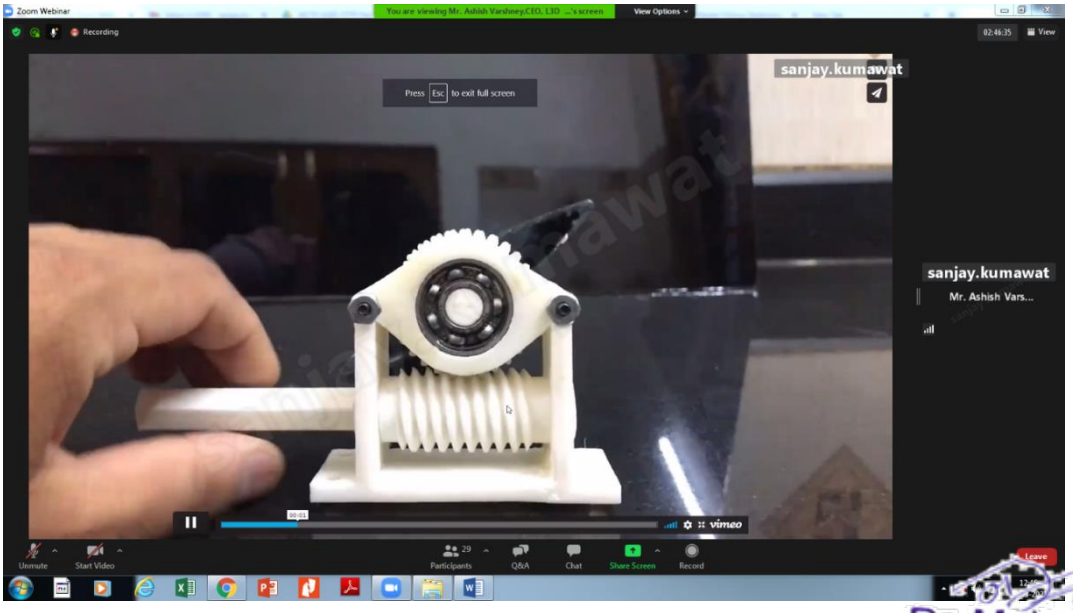




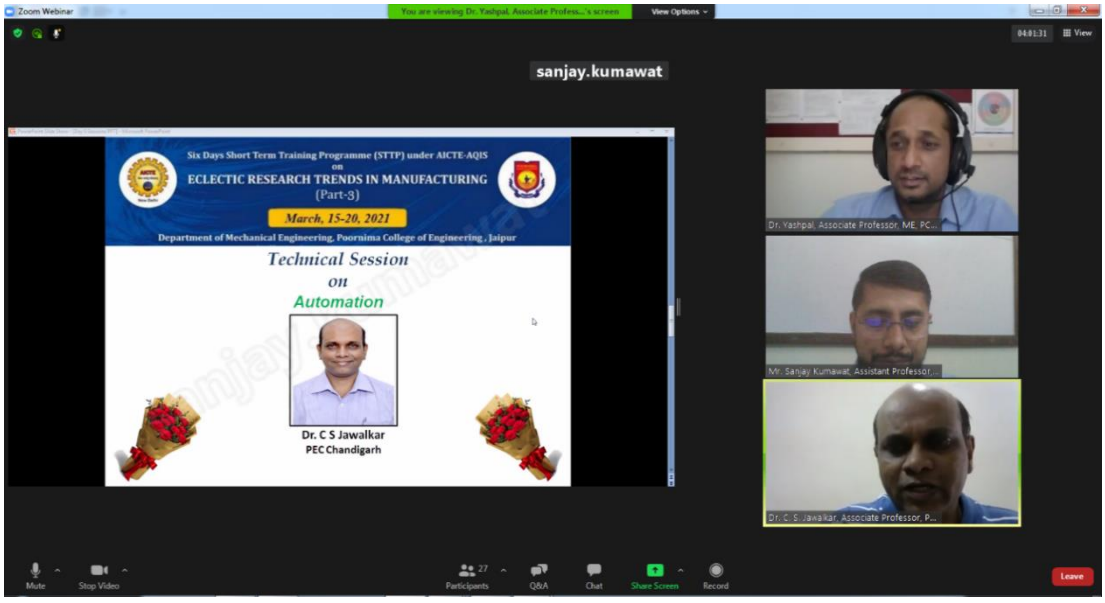
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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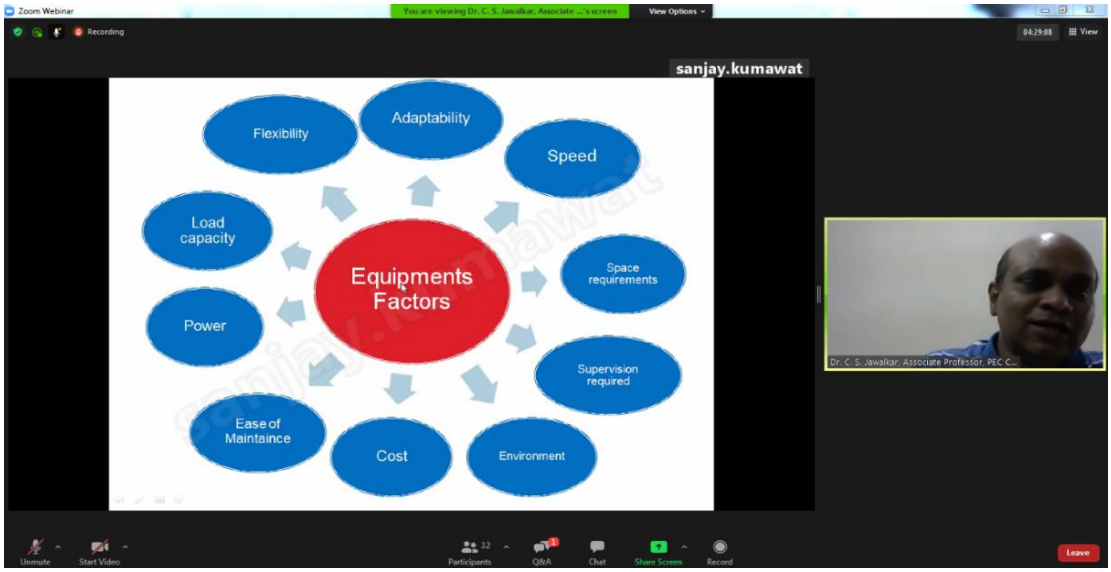


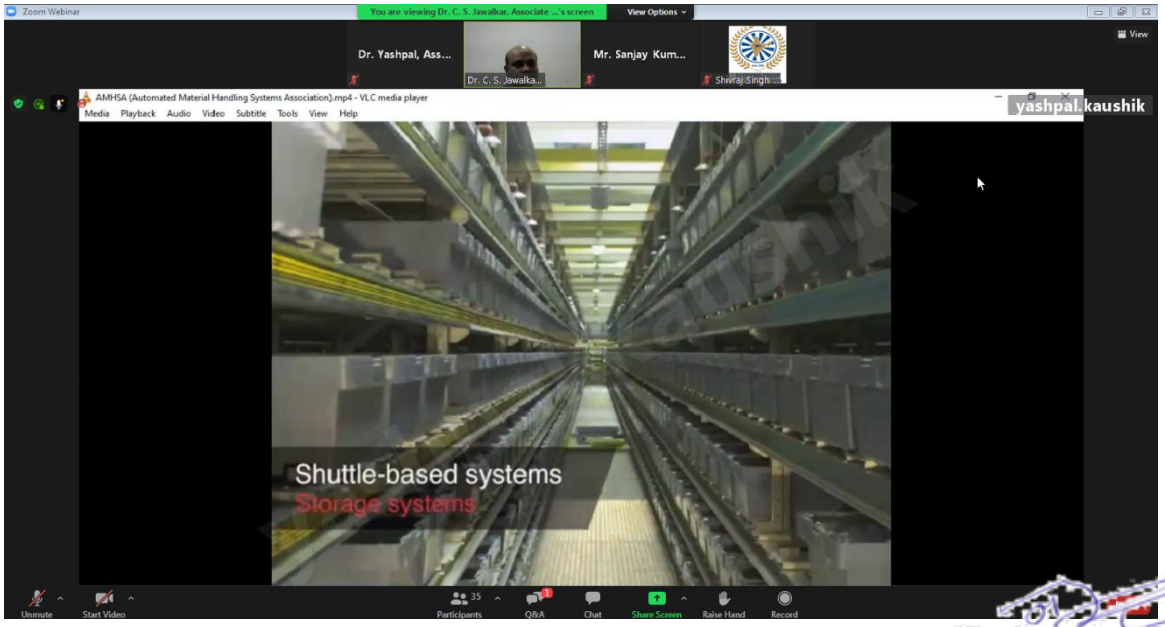




Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

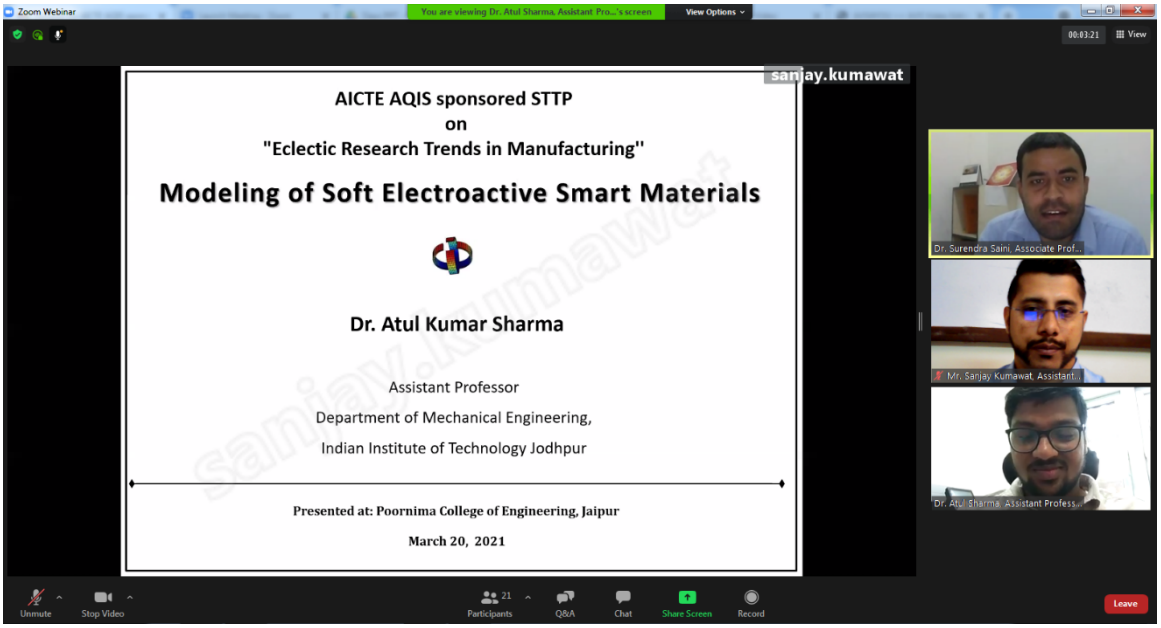


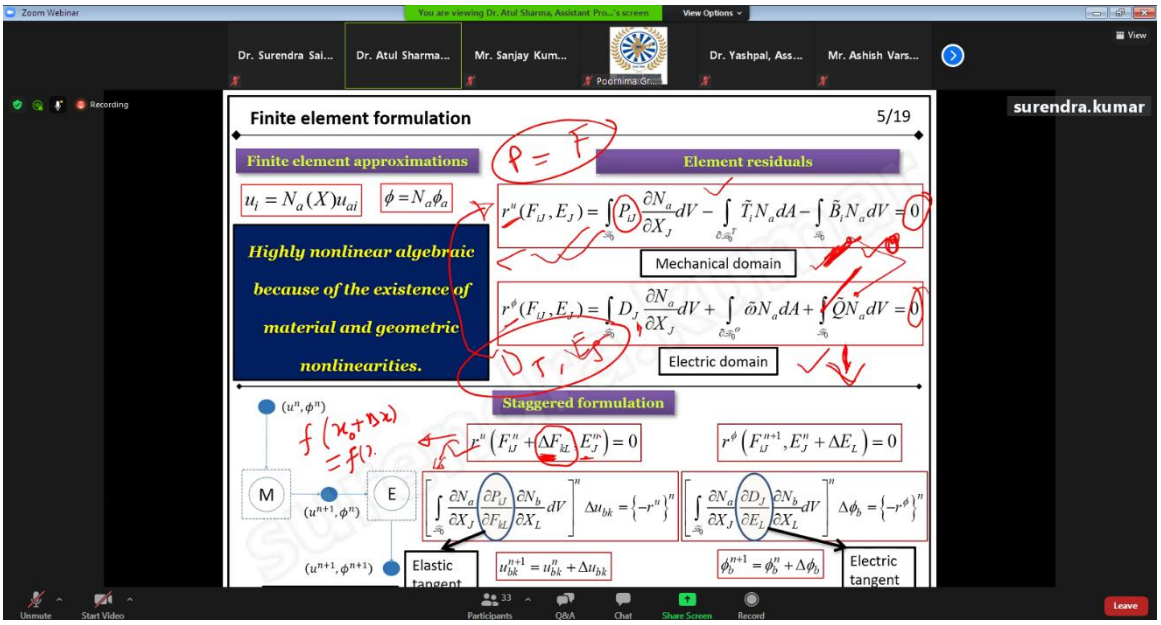


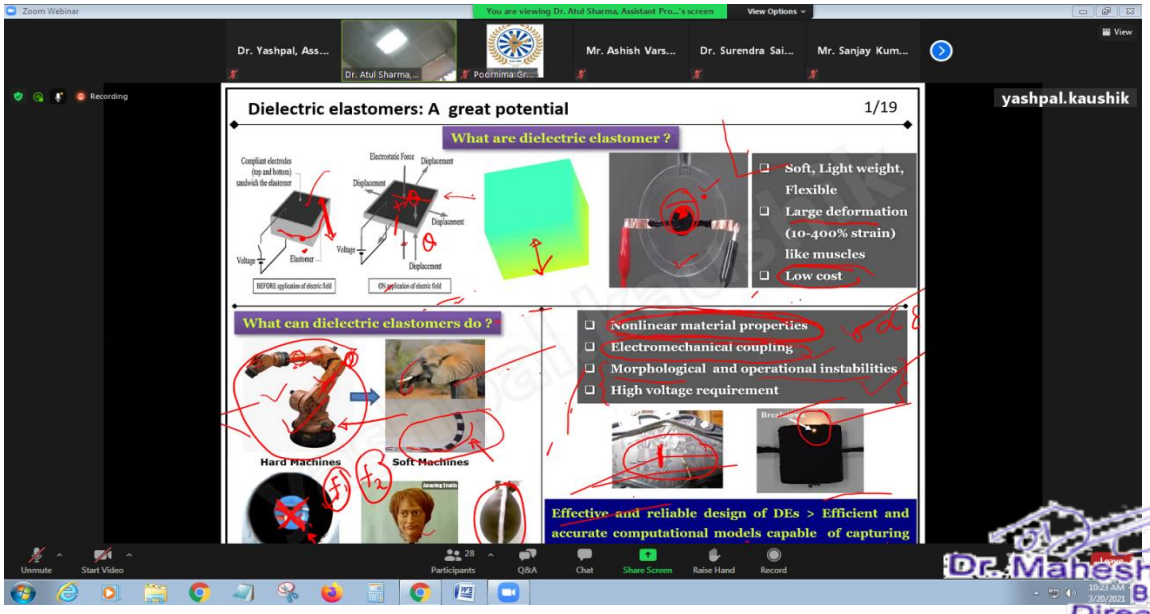


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

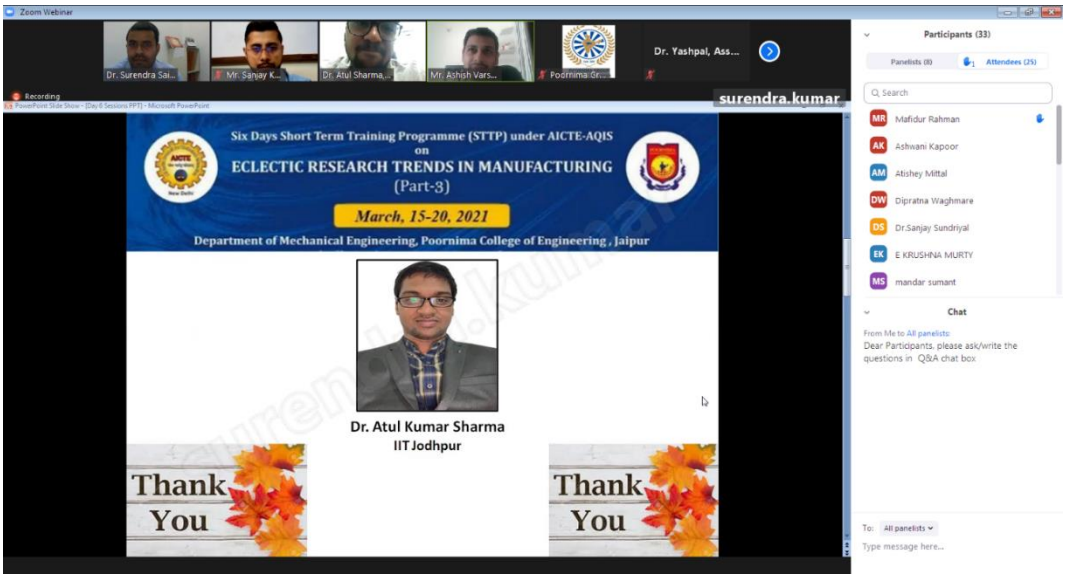
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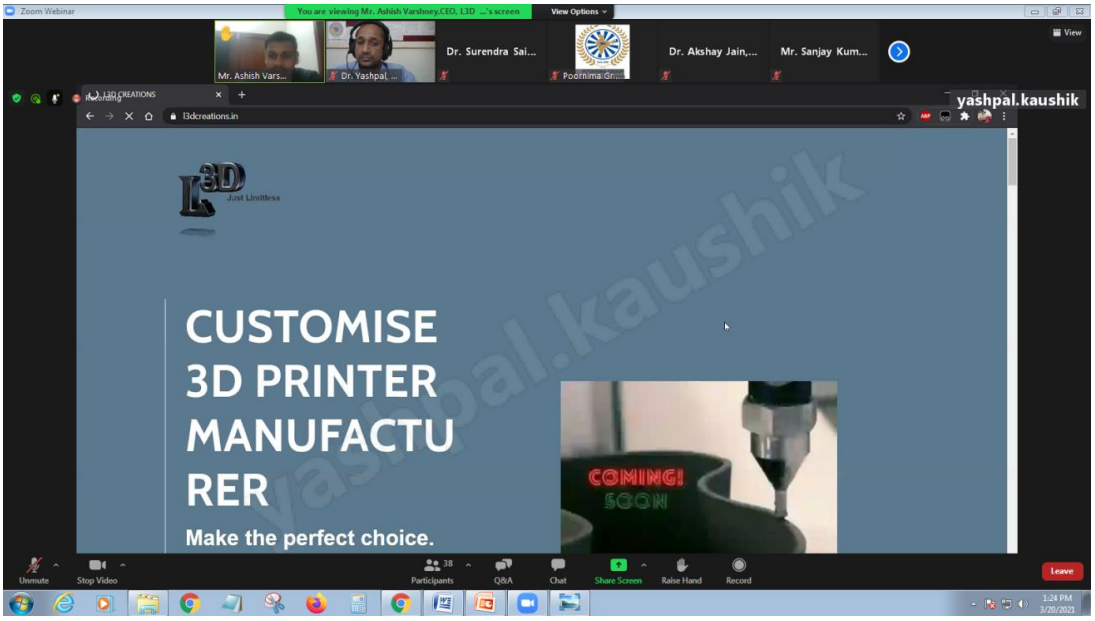


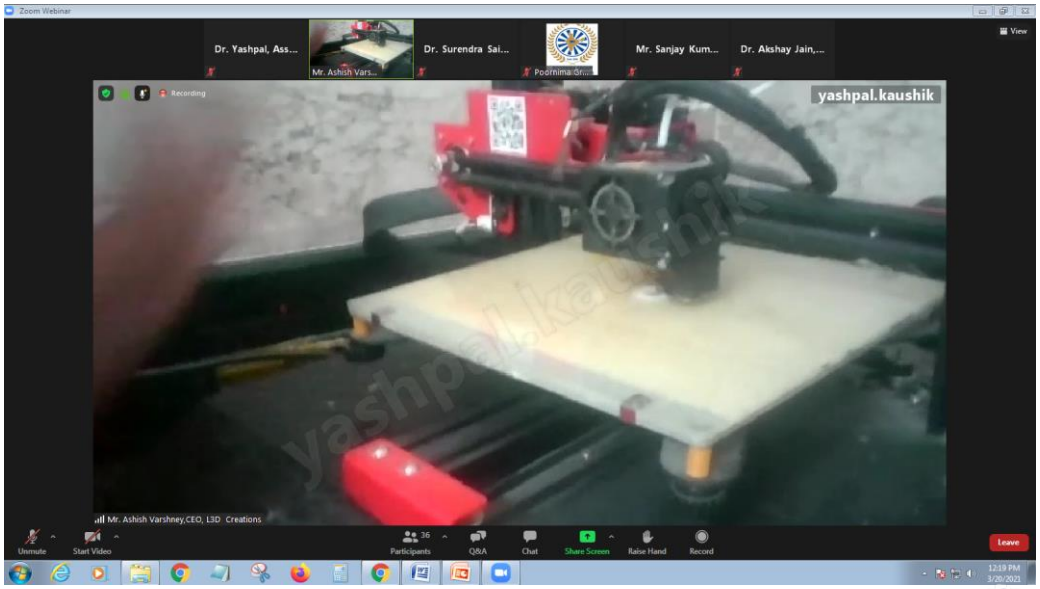




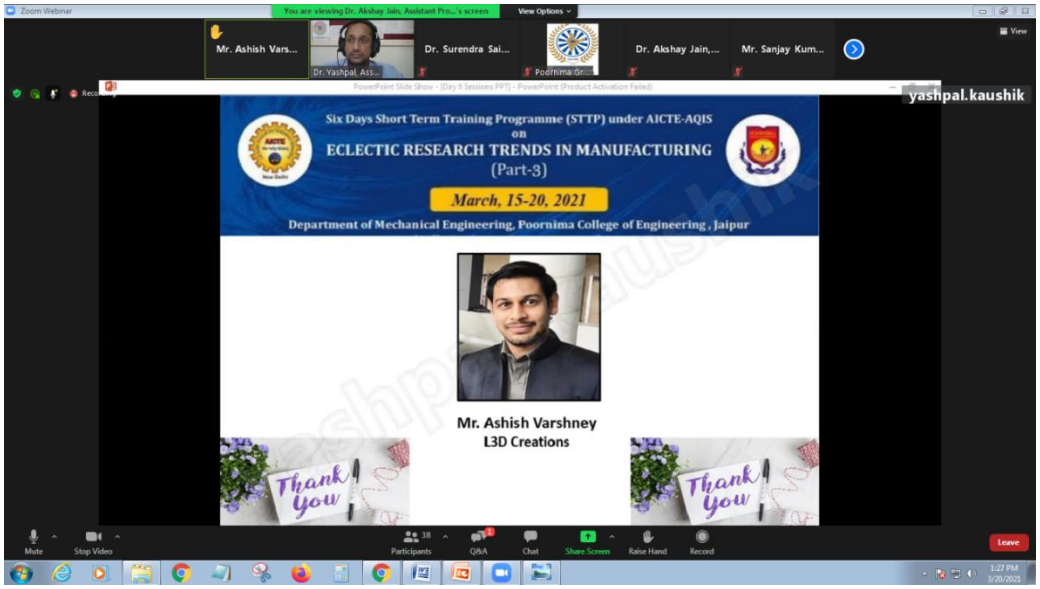
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR







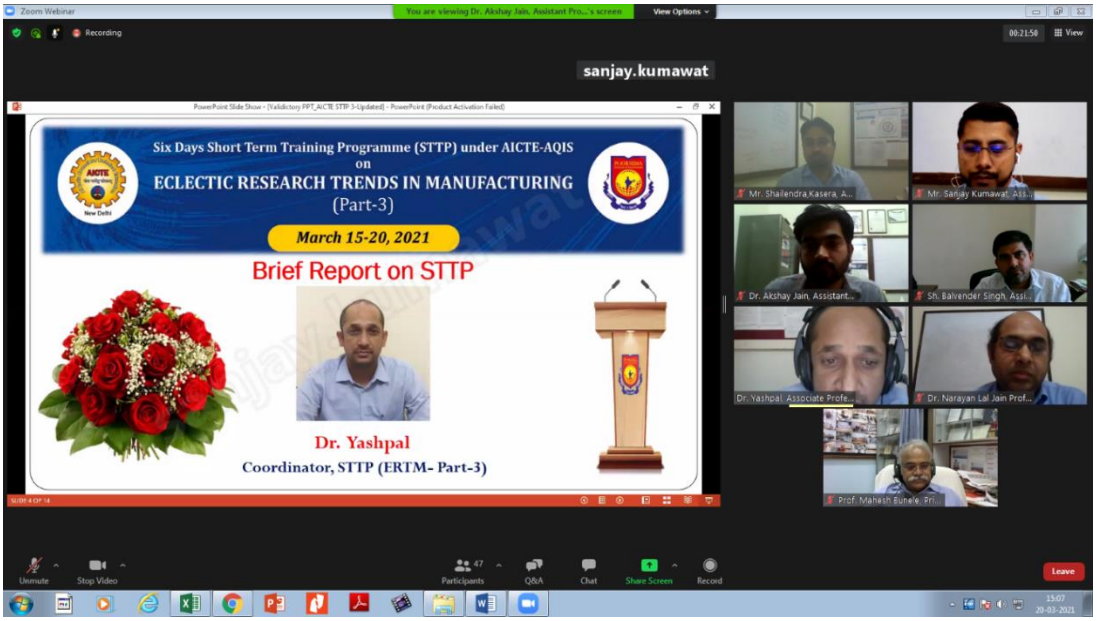
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

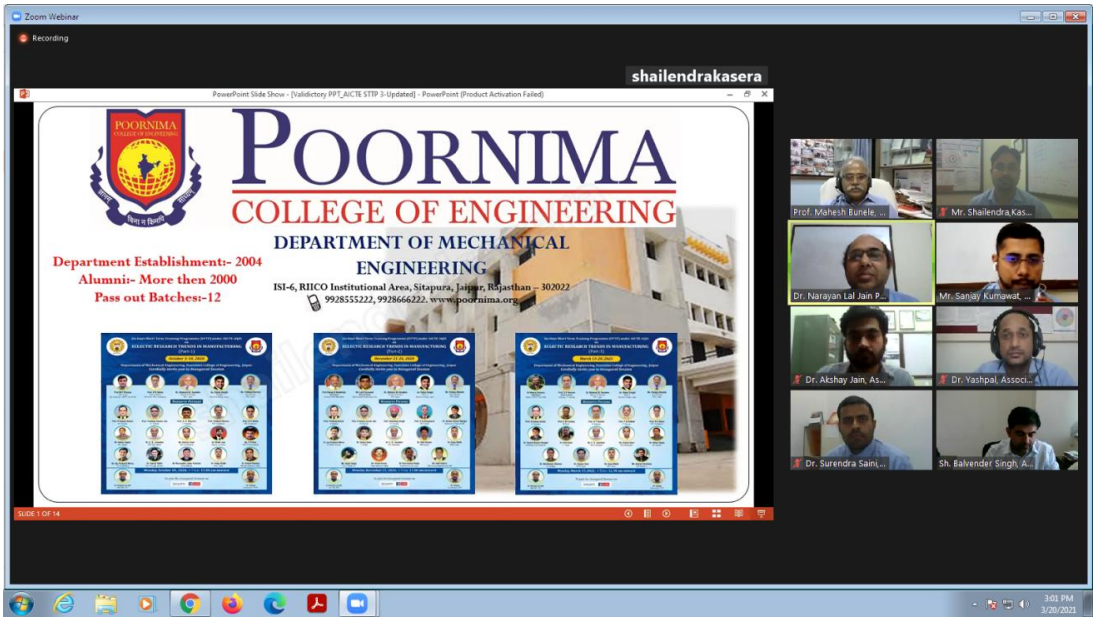


VALEDICTORY SESSIONS:



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



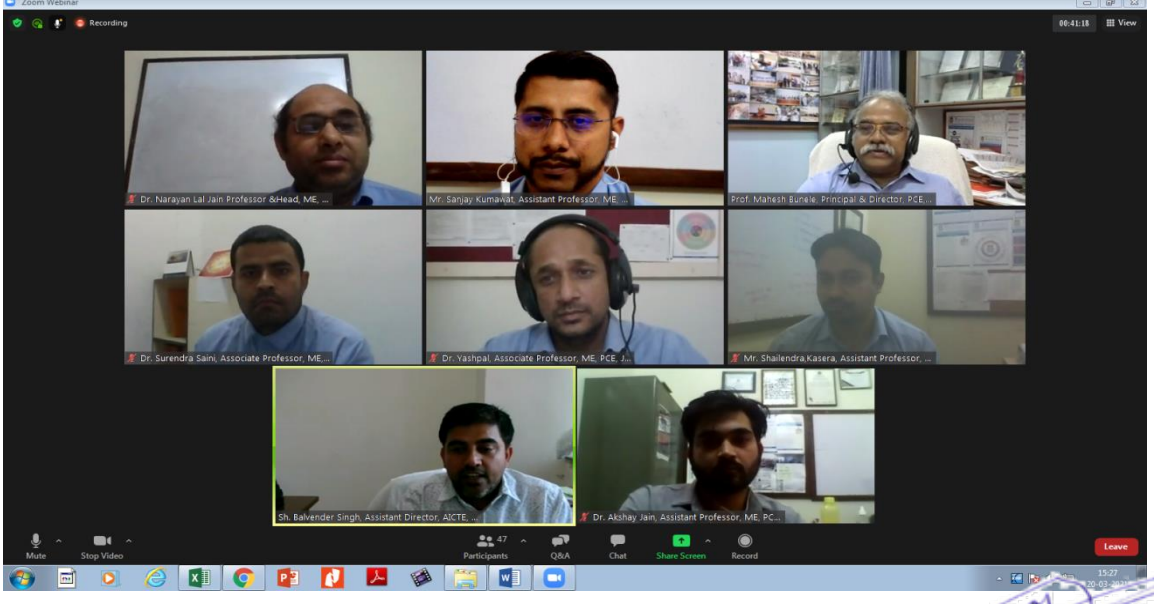




Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

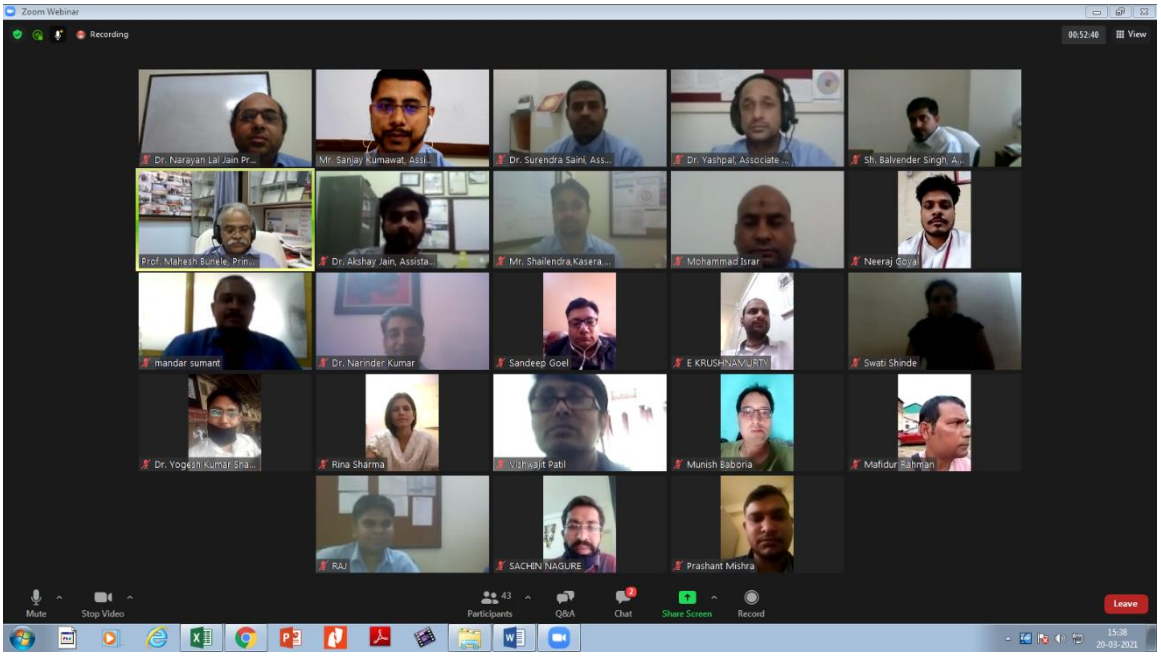






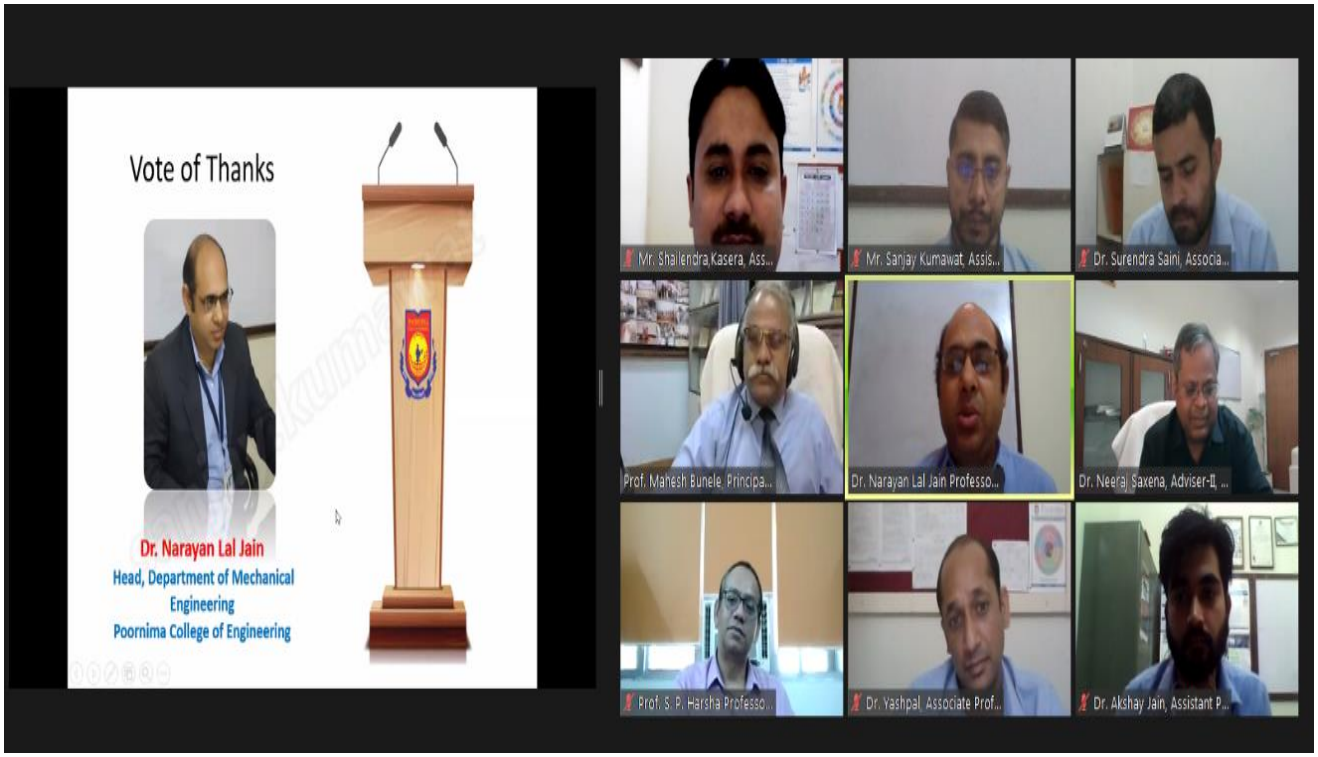
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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Six days AICTE-AQIS sponsored online Short Term Training Programme on Eclectic Research Trends in Manufacturing (Part-3) is organized by the Department of Mechanical Engineering, Poornima College of Engineering, Jaipur. About Two hundred participants including research scholars, faculty members; academicians and industry persons from various parts of the country have registered for this Short Term Training Programme. In this STTP, Sixteen technical Expert sessions were conducted by the eminent speakers from IITs, NITs, other premier institutes and industries.

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



LIST OF PARTICIPANTS:

S. No.	Full Name	Email ID	Institute/ Organisation Name
1	Sanjay Sundriyal	ss95576@gmail.com	Delhi technological university
2	Dipratna Jalinder Waghmare	deewagh.a@gmail.com	Shri Tuljabhavani College of Engineering Tuljapur
3	Mayank Pokhriyal	mayank.pokhriyal@gkv.ac.in	Faculty of Engineering& Technology, Gurukul Mantri (Deemed to be University), Haridwar, Uttarakhand, India
4	Vinod Chhatrapati Kodape	kodapevinod3@gmail.com	Smt.Radhikatai Pandav College Of Engineering Nagpur
5	Pritam Pradip Mahajan	pritampm3@gmail.com	MET BKC IOE ,NASHIK
6	Sandeep Goel	sandeep_goel1985@yahoo.com	Angel Broking Ltd
7	Shoyab Hussan	shoyeb31@gmail.com	Shobhit University, Gangoh
8	Ravi Kumar Bhatnagar	itsravi22@gmail.com	Shobhit University, Gangoh
9	Mr.A.ARUN KUMAR	yasharun306@gmail.com	MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY
10	Yogesh Kumar Sharma	yogeshsharmame355@gmail.com	Shobhit University Gangoh Saharanpur UttarPradesh
11	Chinnahajisagari Mohammad Akram	akramm.klu@Gmail.com	S.R.K. Institute of Technology
12	Anil Kumar Joshi	aniljoshia131@gmail.com	Shobhit University
13	Sandeep Kumar	sksandeep365@gmail.com	Shobhit University Gangoh, Saharanpur
14	Amresh Kumar Saraff	kishanradhye@gmail.com	Samrat Ashok technologycal Institute Vidisha
15	Dhananjay R Dolas	dhananjaydolas@jnec.ac.in	MGM JNEC Aurangabad
16	Bharat Bhushan Sharma	mbbs.sharma@gmail.com	Banasthali Vidyapith Rajasthan
17	P.Umamaheswarrao	umaenergy1@gmail.com	BAPATLA ENGINEERING COLLEGE
18	Dilip Kumar Bagal	dilipbagal90@gmail.com	GOVERNMENT COLLEGE OF ENGINEERING, [illegible]

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

19	Sandeep Kumar Bhaskar	Sandeep.bhaskar@skit.ac.in	SKIT, M &G
20	Naveen Kumar Sharma	naveen31.sharma@gmail.com	I. K. G. Punjab Technical University Jalandhar, Punjab
21	Dr. Piyush Vishwakarma	piyush.vishwakarma@gmail.com	RANI DURGAWATI UNIVERSITY, JABALPUR, M.P.
22	Rohit Kumar Mishra	rohitkumarm491@gmail.com	BBDITM LUCKNOW
23	Moti Lal Rinawa	rinawa.iitd75@gmail.com	Government Engineering College Jhalawar Rajasthan
24	Ishu Monga	ishumonga1986@gmail.com	GOVERNMENT POLYTECHNIC DHANGAR FATEHABAD
25	K.S.Sekar	emailsekarks@gmail.com	Murugappa Polytechnic College
26	Harish Vishnu Gunjal	harishvishnugunjal.mtprod20@pec.edu.in	Punjab Engineering College, Chandigarh
27	Rakesh Kumar	rakeshkumar@rvce.edu.in	RV College of Engineering, Bengaluru
28	Sushanta Kumar Pradhan	sushantapradhan.rite@gmail.com	Radhakrishna Institute of Technology and Engineering,gBhubaneswar
29	Dr. Richa Biswal	richabiswal123@gmail.com	University of Allahabad
30	Yashpal	yashpal.kaushik1986@gmail.com	Poornima University
31	Senthur N.S.	senthur.mechatronics@bharathuniv.ac.in	Bharath university
32	Dhanasekar J	jdhanasekar81@gmail.com	Bharath Institute of Higher Education and Research
33	Chandra Mohan M	indiranimohan1993@gmail.com	Bharath Institute of Higher Education and Research
34	Priya V	priyaygna14@gmail.com	Bharath Institute of Higher Education and Research
35	G.Vasumathi	vasu.bala06@gmail.com	Bharath Institute of Higher Education and Research
36	Dr. Manoj Kumar Gupta	mkg201322@gmail.com	Chandigarh Engineering College Mohali
37	Rabinarayan Bag	rabinarayanbag@gmail.com	KIIT Deemed to be University, Bhubaneswar
38	Abhishek Kumar	abhishekkum2009@gmail.com	Jecrc foundation
39	Rahul Sen	rahul.sen@poornima.org	Poornima College of Engineering, Jaipur
40	Sneha Prasad	prasad14sneha@gmail.com	SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
41	Bharat Ankur Dogra	bdogra@ddn.upes.ac.in	UPES
42	Bandaru Dyva Isac Premkumar	dyvaprem@gmail.com	Lakireddy Bali Reddy College Of Engineering
43	Deepak Kumar	deepakme7777@gmail.com	Swami Keshvanand Institute of Technology, M & G Jaipur
44	Jitendra Garg	jitendragarg.87@gmail.com	Arya college of Engineering & IT, Jaipur
45	Vipin Kumar Sharma	vipin.k.sharma@miet.ac.in	MIET MEERUT
46	Sachin Mallikarjun Nagure	sachin.nagure1@gmail.com	MBES COLLEGE OF ENGINEERING AMBAJOGAI
47	Abhinav Panwar	abhinavpanwar39@gmail.com	Dronacharya College of Engineering
48	Lokesh Kumar	ranjansvits@gmail.com	AKU
49	Nitin Mukesh Mathur	nitinmthr3@gmail.com	PIET
50	Kishor Wagh	kishor_25may@rediffmail.com	Guru Nanak Institute of Engineering and Technology
51	Pradeep Kumar Krishnan	pradeepkrishnan@nu.edu.om	NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY(NUST)
52	Tushar Jain	tushar.jain@miet.ac.in	MEERUT INSTITUTE OF ENGG AND TECH MEERUT
53	Sunil Kumar Dehariya	sunil_mech786@rediffmail.com	Govt Polytechnic College Betul Madhya Pradesh
54	Harish Kumar Banga	drhkbanga@gmail.com	GNDEC LUDHIANA PUNJAB
55	Saran Theja Manige	urstrulysaran@gmail.com	JNTUA
56	Dhananjay Kumar	dhananjay.kumar@poornima.org	Poornima College of Engineering
57	Sunil Kumar Tiwari	sktiwari262001@yahoo.com	Netaji Subhash University of Technology (West Campus)

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

58	Prince Sharma	prince.isgec2015@gmail.com	ISGEC HITACHI ZOSEN LIMITED
59	Rahul Sharma	rahul.sharma@poornima.org	Poornima College of Engineering, Jaipur Rajasthan
60	Rahul Sharma	rahul.sharma@poornima.org	Poornima College of Engineering, Jaipur Rajasthan
61	Sushil Kumar	sushilkumar.phdmmed14@pec.edu.in	Punjab Engineering College Deemed to be University Chandigarh-India
62	Yogeshkumar R Falak	yogeshrfalak@gmail.com	Sandip Institute of Technology and Research Centre
63	Milind Motiram Patil	milind.patil@sitrc.org	Sandip Institute of Technology and Research Centre, Nasik
64	Sudip Banerjee	dairysolutions1@rediffmail.com	MILKFED PUNJAB
65	Aayush Poonia	2018pcemeaayush2@poornima.org	Poornima College Of Engineering
66	Shivinder Singh	shivinder519@gmail.com	NIT Jalandhar
67	Abhishek Charak	abhi.charak0021@gmail.com	Punjab Engineering College Chandigarh
68	Yogesh Mishra	yogeshmishranhr@gmail.com	Malaviya National Institute of Technology
69	Sumant Mandar Mukundrav	mandarsumant.me@bitseducampus.ac.in	Babaria Institute Of Technology
70	Chandrashekhar Jawalkar	csjawalkar@pec.edu.in	Punjab Engineering College
71	Anup Anil Junankar	anup87junankar@gmail.com	JD College of Engineering and Management
72	Akhil Goyal	akhil.goyal@nimsuniversity.org	Nims university
73	Jonnala Subba Reddy	jonnalasu@yahoo.co.in	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM
74	Radhey Shyam Meena	rshyammnre@gmail.com	Ministry of New & Renewable Energy
75	Dr.E.SUBBARAO	esrlitam@gmail.com	SVIST
76	Gagan Manocha	gaganchhachhrauli@gmail.com	GOVERNMENT COLLEGE CHHACHHRAULI
77	Neeraj Goyal	neeraj.mech@cumail.in	Chandigarh University
78	Kiran Babajirao Salunke	kiranbabajirao@gmail.com	Government polytechnic Thane
79	Rina Sharma	rina.physics1@gmail.com	S.S. Jain Subodh P.G. (Autonomous) College, Jaipur
80	Chanchal Kumari	drchanchalkumari@gmail.com	Kolhan University
81	Dhananjay R Dolas	dhananjaydolas@jnec.ac.in	MGM JNEC Aurangabad
82	Balwinder Singh	drbwssidhu07@gmail.com	GZSCCET MRSPTU Bathinda
83	Sumit Satish Jamkar	jamkarsumit@gmail.com	Sipna College of Engineering and Technology,Amravati
84	Akhil Sharma	2017pcemeakhil701@poornima.org	Poornima college of engineering
85	Ranjit Arjun Katkar	katkarr76@gmail.com	AGTI's Dr. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD.
86	Chappeli Sai Kiran	sai_9293137273@yahoo.com	CVR COLLEGE OF ENGINEERING
87	Sachin G Ghalme	sachin.ghalme@sitrc.org	Sandip Institute of Technology and Research Centre, Nashik
88	Mahendra Pratap Singh	mpsingh.me@jecrc.ac.in	Jaipur Engineering college and research center Jaipur
89	P.Sabarinath	jananisabari@gmail.com	KLN College of Engineering
90	Sujoy Kanti Bhattacharjee	avtarsujoy1988@gmail.com	Indian Institute of Engineering Science and Technology, Shibpur
91	Pramod Kumar Arya	parya@iujaipur.edu.in	The ICFAI University
92	Rakesh Ranjan Tripathy	rakeshranjantripathy777@gmail.com	Government College Of Engineering, Kalahandi
93	P.Umamaheswarrao	umaenergy1@gmail.com	Bapatla Engineering College
94	Somvir Singh	drsomvirsingh@cmrcet.org	CMR College of Engineering & Technology
95	Dr.Donthamsetty Suneel	viceprincipal@nrtec.in	Narasaraopeta Engineering College (Autonomous)
96	Thella Ashok Kumar	ashokmamlee@gmail.com	Narasaraopeta Engineering college
97	Manpreet Singh	manpreet1059@gmail.com	RIMT UNIVERSITY
98	Dheeraj	dheerajthakurkurmi@gmail.com	ACERC AJMER
99	Sachin Anil Karare	kararesachin11@gmail.com	CIPET AURANGABAD

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

100	Sanjay Bairwa	sanjay.bairwa@skit.ac.in	Swami Keshvanand Institute of Technology M & G Jaipur
101	Shweta Sharma	ssharma@rtu.ac.in	Rajasthan Technical University
102	Farakate Pandurang Ranaba Assistant	pandurangf8463@gmail.com	Sadashivrao Mandlik Mahavidyalaya Murgud Tal Kagal Dist Kolhapur
103	Mousam Choudhury	mousamchoudhury@gmail.com	CIPET
104	Vijay Lokhande	vijaylokhande20@gmail.com	CIPET
105	Vivek Agnihotri	vivekagnihotri1965@gmail.com	SRMGPC,LUCKNOW
106	Yogesh Kamble	yogeshkamble2912@gmail.com	D Y Patil College of Engineering Akurdi Pune
107	Dr. Vijay Mohan Vyas	drvijaymohanvyas@gmail.com	Govt. Engineering College Bikaner
108	Vivek Pandey	vivekpandey.22@gmail.com	Mody University of Science and Technology
109	Shripad Kulkarni	shripadcoolkarni@gmail.com	CIPET Aurangabad
110	Kumar Pal Singh	kumarpal31@gmail.com	Aryabhatta college of engineering and research center
111	K.Rajan	rajankannan.mpt@gmail.com	Murugappa Polytechnic College
112	Dr.TRIZA JANIFER TOPPO	trizajanifer@gmail.com	Santal Pargana College, Sido Kanhu Murmu University, Dumka
113	Deepak Kumar	dk.k804452@gmail.com	GOVERNMENT ENGINEERING COLLEGE KAIMUR, BIHAR
114	Sunil Kumar Yadav	mechsky@gmail.com	SRMGPC, LUCKNOW
115	Vinit Shah	freezco1975@gmail.com	FREEZCO CORPORATION
116	Hemant Mittal	hemant.miital5@gmail.com	git jaipur
117	Gaurav Tiwari	cipetjprgauravtiwari@gmail.com	CIPET JAIPUR
118	Swati Sandeep Shinde	snkamble22@gmail.com	Cusrow Wadia Institute of Technology Pune
119	Vaibhav Vasantrao Gaddamwar	vaibhavg.academics@gmail.com	GOVERNMENT POLYTECHNIC AMBAD DISTRICT JALNA MAHARASHTRA
120	Shekhar Rameshrao Bhosle	shekharbhosle4@gmail.com	Sardar Patel College of Engineering Mumbai
121	Vishnuprasad Mahanti	abc191795@gmail.com	SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY, AMALAPURAM
122	Harish Kumar Banga	drhkbanga@gmail.com	GNDEC
123	Narinder Kumar	narenderpec237@gmail.com	IIT
124	E Krushna Murty	murtyekrushna@gmail.com	VIT-AP
125	Narendra Kumar Ahirwar	narendra87.ahirwar@gmail.com	Mahatma Gandhi Chitrakoot Gramodaya Vishvavidhyalaya
126	Yogesh Dubey	yogeshdubey.me@jecrc.ac.in	Jaipur Engineering College and Research Centre
127	Ashin K Sunny	ashinksunny99@gmail.com	VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY
128	Sunil Madhukar Mahajan	sunil.mahajan@siem.org.in	SIEM
129	Vishwajit Patil	vdpatil_sits@sinhgad.edu	SITS, Narhe
130	Sandeep Kumar Dubey	sandeepkdubey@ggits.org	GGITS,JBP
131	Ratnesh Kumar Gupta	rgiitdelhi@gmail.com	PUSA INSTITUTE OF TECHNOLOGY NEW DELHI
132	Debarupam Gogoi	debarupam@gmail.com	Jorhat Engineering College
133	Amit Kumar Bansal	amit.bansal@skit.ac.in	SKIT jaipir
134	Vyankatesh Prashant Mallewadikar	vyankateshm1996@gmail.com	Ameya Finishing Solutions Private Limited, Pune
135	Prashant Kumar	kumarprashant280@gmail.com	Jaipur Engineering College, Kukas, Jaipur
136	Puneet Kumar	puneet.kumar@miet.ac.in	MIET,Meerut
137	Thikane Swapnil Jinendra	swapnil.thikane@sgipolytechnic.in	Sanjay Ghodawat Polytechnic, Atigre
138	Pramod Kumar	pramodfaujdar1984@gmail.com	Vivekananda Institute of Technology

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

			Jaipur
139	Sachin Sudheesh	sachinsudheesh43@gmail.com	Vidya Academy of Science and Technology
140	Pankaj Ramesh Ushir	pankajushir29@gmail.com	Sandip University Nashik
141	Mafidur Rahman	mrahman1234@rediffmail.com	Jorhat Engineering college
142	Sagrika Gupta	sagrikagupta46@gmail.com	Guru Nanak Dev Institute of Technology,New Delhi
143	Binita Dash	bdash@cet.edu.in	College of engineering and technology,Ghatikia
144	Sankalp Bhatia	sankalpbhatiya@gmail.com	ADIT
145	Ayanesh Joshi	joyayanesh@gmail.com	A D PATEL INSTITUTE OF TECHNOLOGY
146	Sujoy Kanti Bhattacharjee	avtarsujoy1988@gmail.com	Indian Institute of Engineering Science and Technology, Shibpur
147	Aamir	aamir012000@gmail.com	Babu Banarasi Das Institute of Technology and Management Lucknow
148	Sindhusuta Rout	sindhusutarout@gmail.com	DRIRMS group of INSTITUTION
149	Ismail Kezarbhai Pota	ismailp@drsubhashtech.edu.in	dr subhash technical campus
150	Vaishal Jitendra Banker	bvaishal@gmail.com	A D Patel Institute of Technology
151	Manvandra Kumar Singh	mksingh@gwa.amity.edu	ASET, AUMP-Gwalior
152	Payal Saini	payalsainib2002@gmail.com	Arya College of engineering and information technology.
153	Prashant Mishra	er.prashant2009@gmail.com	Rolif Saikia Pvt Ltd
154	Sandeep Dixit	sandeep_dixit1983@rediffmail.com	CIPET
155	Vaibhav Vijay Kulkarni	vaibhav.kulkarni@mitwpu.edu.in	MITWPU,Kothrud,Pune.
156	Amandeep Singh	amanmechsingh26@gmail.com	Chandigarh University
157	Sheetal BARSHIKAR	sratunawar@gmail.com	Sinhgad Institute of Technology and Science Narhe Pune 41 Maharashtra India
158	Pankaj Kumar	pkumar925246@gmail.com	ARYA INSTITUTE OF ENGINEERING AND TECHNOLOGY
159	Kamaleshwar Dhar Dwivedi	kdd.1992@gmail.com	Babu Banarasi Das Institute of Technology and Management
160	Sagar Mansing Patole	sagarp@amgoi.edu.in	Ashokrao Mane Group of Institutions, Vathar tarf vadgaon 416112
161	K.S.Sekar	emailsekarks@gmail.com	Murugappa Polytechnic College
162	Piridi Jagadeesh	piridijagadeesh@gmail.com	JNTUK UNIVERSITY, MANDAVA INSTITUTE OF ENGINEERING AND TECHNOLOGY COLLEGE
163	Toral Anandkumar	tdgandhi@gmail.com	Meenakshi Sundararajan engineering college
164	Sanjeev Gupta	fdpsanjeevpreeti@gmail.com	Government College of engineering and technology jammu
165	Atishey Mittal	mittalatishey@gmail.com	Lingayas Vidyapeeth
166	Sonam Sharma	sonamsharma272233@gmail.com	Shobhit University gangoh, Sharanpur,UP
167	Niteen Shivaji Mali	niteensmali@gmail.com	Dr.D.Y.Patil Polytechnic, Kolhapur
168	Rohit Rajendra Thorawade	thorawaderohit123@gmail.com	Government College of Engineering,Karad
169	Sure Sh Kumar	sureshjanu160@gmail.com	LBS Govt. College Kotputli
170	Dr. Raj Kumar Satankar	rajmukesh22@gmail.com	PCE
171	Prof. (Dr.) Mohammad Israr	isainik@yahoo.co.in	Poornima College of Engineering
172	Mukesh Kataria	mukesh.kataria@poornima.org	POORNIMA COLLEGE OF ENGINEERING
173	Buddhi Prakash Panwar	buddhi.prakash@poornima.org	PCE
174	Sagar Kumar	sagar.kumar@poornima.org	Poornima College of Engineering, Jaipur
175	Shuchi Dave	shuchi.dave@poornima.org	PCE

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

176	Tushar Sharma	tushar.sharma@poornima.org	pooornima college of engineering
177	Mahesh Myanpawar	maheshmyanpawar@gmail.com	CIPET
178	Sandeep Singh	ssandeeptanwar@gmail.com	NIT Kurukshetra
179	Dr Umesh Vishnu Hambire	umeshvhambire@yahoo.co.in	Government College of Engineering Aurangabad
180	Abdulmajeed Yahya Moqbel Saleh Alsabahi	aymsa2001@gmail.com	Universitas Islam Indonesia
181	Ali	my771230@gmail.com	Ugm
182	Ashwani Kapoor	ashwani.kapoor@poornima.org	Poornima College of Engineering, Jaipur
183	Amit Shrivastava	apasjpr@gmail.com	Poornima University
184	Munish Baboria	munish0005@gmail.com	Govt.College of Engineering and Technology,Jammu

List of attended candidate who have submitted feedback form

S. No.	Name	Email ID	Institute/ Organisation Name
1	Sanjay Kumawat	Sanjay.Kumawat@Poornima.Org	Poornima College of Engineering
2	Vinit Shah	Freezco1975@Gmail.Com	FREEZCO CORPORATION
3	Shamkumat	Djw.Stbcet@Gmail.Com	Pune
4	Subhasis Sarkar	Subhasissarkar1987@Gmail.Co.In	PIT
5	Kalpit Jain	Kalpit.Jain@Poornima.Org	Poornima College of Engineering, Jaipur
6	Prashant Mishra	Er.Prashant2009@Gmail.Com	Rolif Saikia Pvt Ltd
7	Sanjeev Gupta	Fdpsanjeevpreeti@Gmail.Com	Government College of engineering and technology jammu
8	Shamkumar	Ssp.Stbcet@Gmail.Com	Pune
9	Thikane Swapnil Jinendra	Swapnil.Thikane@Sgipolytechnic.In	SANJAY GHODAWAT POLYTECHNIC, ATIGRE
10	Gagan	Manochagagan587@Gmail.Com	GOVERNMENT
11	Sumant Mandar Mukundrav	Mandarsumant.Me@Bitseducampus.Ac.In	Babaria Institute of Technology
12	Vishwas V. Patange	Viswaspatange458@Gmail.Com	STBCET Tuljapur
13	Mahesh Gangadhar Myanpawar	Maheshmyanpawar@Gmail.Com	CIPET AURANGABAD
14	Manpreet Singh	Manpreet1059@Gmail.Com	RIMT University
15	Buddhi Prakash Panwar	Buddhi.Prakash@Poornima.Org	PCE Jaipur
16	Swati Sandeep Shinde	Snkamble22@Gmail.Com	Cusrow Wadia Institute Of Technology, Pune 01.
17	Gagan Manocha	Gaganchhachhrauli@Gmail.Com	GOVERNMENT COLLEGE CHHACHHRAULI
18	Rahul Sharma	Rahul.Sharma@Poornima.Org	Poornima College of Engineering, Jaipur Rajasthan
19	Aamir	Aamir012000@Gmail.Com	Babu Banarasi Das Institute of Technology and Management Lucknow
20	Sandeep Goel	Sandeep_Goel1985@Yahoo.Com	Angel Broking Ltd
21	Sachin Mallikarjun Nagure	Sachin.Nagure1@Gmail.Com	MBES COLLEGE OF ENGINEERING AMBAJOGAI
22	Vivek Pandey	Vivekpandey.22@Gmail.Com	Mody University of Science and Technology
23	Waghmare Dipratna Jalinder	Deewagh@Gmail.Com	Shri Tuljabhavani College of Engineering Tuljapur
24	Sandeep Singh	Ssandeeptanwar@Gmail.Com	NiT Kurukshetra
25	Rohit Rajendra Thorawade	Thorawaderohit123@Gmail.Com	Government college of engineering,Karad
26	Amandeep Singh	Amandeep.E7335@Cumail.In	chandigarh University

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

27	Neeraj Goyal	Neeraj.Mech@Cumail.In	Chandigarh University
28	Dr. Narinder Kumar	Narenderpec237@Gmail.Com	IIT Ropar
29	Munish Baboria	Munish0005@Gmail.Com	Government College of Engineering and Technology,Jammu
30	Gagan Manocha	Gaganchhachhrauli@Gmail.Com	GOVERNMENT COLLEGE CHHACHHRAULI
31	Sagrika Gupta	Sagrikagupta46@Gmail.Com	Guru Nanak Dev Institute of Technology, New Delhi
32	Mafidur Rahman	Mrahman1234@Rediffmail.Com	Jorhat Engineering college
33	Dr. K.S.Sekar	Emailsekarks@Gmail.Com	Murugappa Polytechnic College, Chennai
34	Dr. Vishwajit Patil	Vdpatil_Sits@Sinhgad.Edu	SITS Narhe Pune
35	Shripad Kulkarni	Shripadcoolkarni@Gmail.Com	CIPET,Aurangabad
36	Ashwani Kapoor	Ashwani.Kapoor@Poornima.Org	Poornima College of Engineering Jaipur
37	Deepak Kumar	Deepakme7777@Gmail.Com	SKIT Jaipur
38	Prashant Kumar	Kumarprashant280@Gmail.Com	Jaipur Engineering College, Kukas, Jaipur
39	Shivinder Singh	Shivinder519@Gmail.Com	NIT Jalandhar
40	Ratnesh Kumar Gupta	Rgiitdelhi@Gmail.Com	PUSA INSTITUTE OF TECHNOLOGY NEW DELHI
41	Dr. Sachin Ghalme	Sachin.Ghalme@Sitrc.Org	Sandip Institute of Technology and Research Centre, Nashik
42	Yogeshkumar R Falak	Yogeshkumar.Falak@Sitrc.Org	Sandip Institute of Technology and Research Centre
43	Dr.P.Sabarinath	Jananisabari@Gmail.Com	KLN College of Engineering
44	Dr. Milind M Patil	Milind.Patil@Sitrc.Org	Sandip Institute of Technology and Research Centre, Nasik
45	Rina Sharma	Rina.Physics1@Gmail.Com	S.S. Jain Subodh P.G.(Autonomous) College, Jaipur

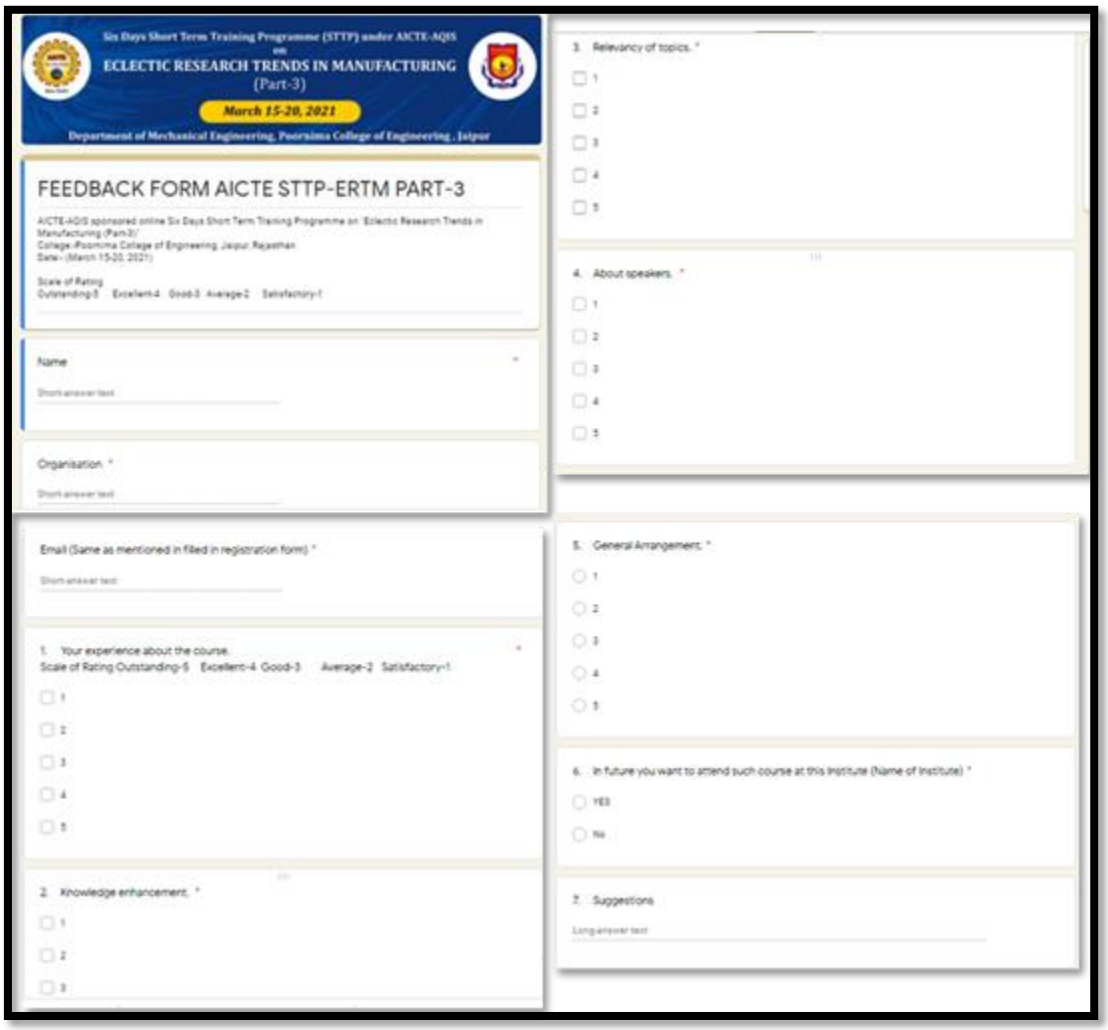
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

CERTIFICATE:



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

FEEDBACK FORM SAMPLE



FEEDBACK FORM QUESTIONNAIRE QUESTIONS:

1. Your experience about the course.
2. Knowledge enhancement.
3. Relevancy of topics.
4. About speakers.
5. General Arrangement.
6. Topic that can be covered in the next course?
7. Suggestions

FEEDBACK DETAIL:

S. No.	Name	Email	Average
1	Sanjay Kumawat	Sanjay.Kumawat@Poornima.Org	5
2	Vinit Shah	Freezco1975@Gmail.Com	4.5
3	Shamkumat	Djw.Stbcet@Gmail.Com	5
4	Subhasis Sarkar	Subhasissarkar1987@Gmail.Co.In	4.4
5	Kalpit Jain	Kalpit.Jain@Poornima.Org	4.5
6	Prashant Mishra	Er.Prashant2009@Gmail.Com	4.8
7	Sanjeev Gupta	Fdpsanjeevpreeti@Gmail.Com	5
8	Shamkumar	Ssp.Stbcet@Gmail.Com	5
9	Thikane Swapnil Jinendra	Swapnil.Thikane@Sgipolytechnic.In	4.6
10	Gagan	Manochagagan587@Gmail.Com	[illegible]

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

11	Sumant Mandar Mukundrav	Mandarsumant.Me@Bitseducampus.Ac.In	5
12	Vishwas V. Patange	Viswaspatange458@Gmail.Com	4
13	Mahesh Gangadhar Myanpawar	Maheshmyanpawar@Gmail.Com	4
14	Manpreet Singh	Manpreet1059@Gmail.Com	5
15	Buddhi Prakash Panwar	Buddhi.Prakash@Poornima.Org	4.6
16	Swati Sandeep Shinde	Snkamble22@Gmail.Com	4.4
17	Gagan Manocha	Gaganchhachhrauli@Gmail.Com	5
18	Rahul Sharma	Rahul.Sharma@Poornima.Org	5
19	Aamir	Aamir012000@Gmail.Com	5
20	Sandeep Goel	Sandeep_Goel1985@Yahoo.Com	5
21	Sachin Mallikarjun Nagure	Sachin.Nagure1@Gmail.Com	5
22	Vivek Pandey	Vivekpandey.22@Gmail.Com	5
23	Waghmare Dipratna Jalinder	Deewagh@Gmail.Com	5
24	Sandeep Singh	Ssandeeptanwar@Gmail.Com	5
25	Rohit Rajendra Thorawade	Thorawaderohit123@Gmail.Com	5
26	Amandeep Singh	Amandeep.E7335@Cumail.In	4.8
27	Neeraj Goyal	Neeraj.Mech@Cumail.In	4.4
28	Dr. Narinder Kumar	Narenderpec237@Gmail.Com	4.6
29	Munish Baboria	Munish0005@Gmail.Com	5
30	Gagan Manocha	Gaganchhachhrauli@Gmail.Com	4.8
31	Sagrika Gupta	Sagrikagupta46@Gmail.Com	5
32	Mafidur Rahman	Mrahman1234@Rediffmail.Com	5
33	Dr. K.S.Sekar	Emailsekarks@Gmail.Com	4.8
34	Dr. Vishwajit Patil	Vdpatil_Sits@Sinhgad.Edu	5
35	Shripad Kulkarni	Shripadcoolkarni@Gmail.Com	4.6
36	Ashwani Kapoor	Ashwani.Kapoor@Poornima.Org	5
37	Deepak Kumar	Deepakme7777@Gmail.Com	5
38	Prashant Kumar	Kumarprashant280@Gmail.Com	5
39	Shivinder Singh	Shivinder519@Gmail.Com	4.6
40	Ratnesh Kumar Gupta	Rgiitdelhi@Gmail.Com	5
41	Dr. Sachin Ghalme	Sachin.Ghalme@Sitrc.Org	5
42	Yogeshkumar R Falak	Yogeshkumar.Falak@Sitrc.Org	5
43	Dr.P.Sabarinath	Jananisabari@Gmail.Com	5
44	Dr. Milind M Patil	Milind.Patil@Sitrc.Org	5
45	Rina Sharma	Rina.Physics1@Gmail.Com	4.5

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

A Report on six days short term training Program

- **TITLE AND DURATION:** "DEVELOPING R&D CULTURE IN EDUCATIONAL INSTITUTES THROUGH PROJECT BASED LEARNING" from March 01-06, 2021.

- **SUPPORTERS:** AICTE Quality Improvement Scheme.

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

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



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

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Developing R&D culture in Educational Institutes through Project Based learning

March 01-06, 2021

REGISTRATION FORM

Name: .....

Designation: .....

Department: .....

Institute: .....

Institute Address: .....

.....

.....

Mobile No. : .....

E-mail: .....

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

REGISTRATION AND FEE PARTICULARS

- There is no registration fee.
- The STTP is open to all faculties and research scholars from Universities/AICTE approved institutions.
- Registration for the program may be done by filling the registration form online via: https://tinyurl.com/4rruvjft
- Join Whats App Group https://tinyurl.com/a7mkxgng
- All the sessions will be conducted online only.
- After completion of the program, test will be conducted.
- E-certificates will be issued to those participants who have minimum 80% attendance and 60% passing marks in test.

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of manufacturing such as IITs, IIITDMs, NITs, and other premier institutes.

IMPORTANT DATES

Last date for Registration	February 27,2021
Intimation of selection by mail	February 28, 2021
FDP duration	March 01-06, 2021

CORRESPONDENCE

Dr. Himani Goyal Sharma
Professor, Department of Electrical Engineering
& : +91-9676974176, 9779065615
) : himani.goyal@poornima.org



POORNIMA
COLLEGE OF ENGINEERING

ISI-6, RIICO Institutional Area, Sitapura, Jaipur

www.pce.poornima.org

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Developing R&D Culture in Educational Institutes through Project Based Learning

March 01-06, 2021



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Department of Electrical Engineering

POORNIMA
COLLEGE OF ENGINEERING

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

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 DEPARTMENT

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.

ABOUT THE PROGRAM

An intensive six days short term-training programme is being organized for faculty of technical institutions. It is also open to persons from industry and researchers of Indian organizations. The objective is to provide an exposure to the participants to the "Developing an Research and Development culture in Educational Institutes through Project Based Learning " through interaction with experts from premier institutions like IITs, NITs and Industry professionals.

OBJECTIVES OF STTP

The objective of this course to Impart skill based education Culture in the Institutes amongst the students as well as the Faculty members so that conceptual based understanding can be enhanced. This will form the basis for higher education too amongst Faculty and students.

Expected Outcome of the STTP course :

- This STTP Program will open new paths for our students and faculty to investigate innovative ways to assess the emerging trends in Technology in dynamic and collaborative setting.
- Organizing such programs is an essential step to achieve new targets & make a mark in the Technological Research at a Global level.
- This STTP Program will show higher horizons in the field of Research

Course Modules

- Innovative Teaching Methodology for Effective Learning
- Challenges in developing Research culture in the Institutes
- Road-Map for Research culture development.
- Alignment of Bloom's Taxonomy for Effective Outcome Based Education.
- Alignment of Assessment with Course Outcomes.

Abstract

One Week STTP Programme shall be organized for more than 100 participants from different Engineering and diploma colleges across India & Abroad. Eminent personalities across the country shall grace the sessions by their auspicious presence and deliver their lectures on Latest Technological enhancements taking place across the world as well as how to imbibe research and Development culture amongst the students through projects. These members have been contributing significantly to the improvement of the quality of engineering education. The major focus of the STTP will be on inculcating research and development culture through conceptual based understanding. This shall also be an added advantage to people from industry.

PATRON

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

ADVISORS

Mr. Pankaj Dhemla
Vice Principal, PCE, Jaipur

Dr. Rekha Nair
Dean, First Year, PCE, Jaipur

Mr. Devendra Somwanshi
Registrar, PCE, Jaipur

CONVENOR

Dr. Virendra Sangtani
HoD EE, PCE, Jaipur

CO-CONVENOR & STTP COORDINATOR

Dr Himani Goyal Sharma
Professor, Department of Electrical Engineering PCE, Jaipur

PCE ORGANIZING COMMITTEE

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

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

- **PROGRAM SCHEDULE:**

STTPSchedule: -

Poornima College of Engineering			
ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)			
Approved by AICTE & Affiliated to Rajasthan Technical University, Kota, Rajasthan			
Accreditated by National Board of Accreditation, Delhi, India			
Department of Electrical Engineering			
AICTE AQIS sponsored STTP on "Developing R&D Culture in Educational Institutes Through Project Based learning (Phase III)" March 01-06, 2021			
Chief Guest: Shri N Ramesh (Assistant Director, Institutional Development Cell AICTE New Delhi), Email: ad2idc@aicte-india.org & Guest of Honour: Dr. Subhas Chandra Mukhopadhyay Director of International Engagement, School of Engineering,School of Engineering ,Macquarie University, Australia Email : Subhas.Mukhopadhyay@mq.edu.au			
Day & Date	**10:00 am - 11:30 am**	**11:45 am - 01:15 am**	**02:00 pm - 3:30 pm**
	SESSION-1	**SESSION-2**	**SESSION-3**
Monday, March 1, 2021	**Innovative Teaching Methodology for Effective Learning** Dr. Subhas Chandra Mukhopadhyay Professor of Mechanical/Electronics Engineering School of Engineering (E6A 313) Macquarie University NSW 2109 Australia Email: Subhas.Mukhopadhyay@mq.edu.au	**Development of Biomaterials for Hip prosthesis applications** Dr. Amar Patnaik Associate Professor Department of Mechanical Engineering MNIT, Jaipur Email : apatnaik.mech@mnit.ac.in	**Bio-energy: Research & Developments** Dr. Rajneesh Assistant Professor, Department of Mechanical Engineering, National Institute of Technology (NIT), Kurukshetra Email :rajneesh@nitkkr.ac.in
Tuesday, March 2, 2021	**HOW TO DO RESEARCH** Prof. Pradeep Kumar Professor, Department of Mechanical & Industrial Engineering Indian Institute of Technology, Roorkee Roorkee 247667, India Email: kumarfme@iitr.ac.in, kumarfme@gmail.com	**Intelligent Condition Based Monitoring**Dr.Nishchal K. Verma Professor Departement of Electrical Engineering IIT, Kanpur Email : nkviitk@gmail.com	*Queries & Feedback Session*

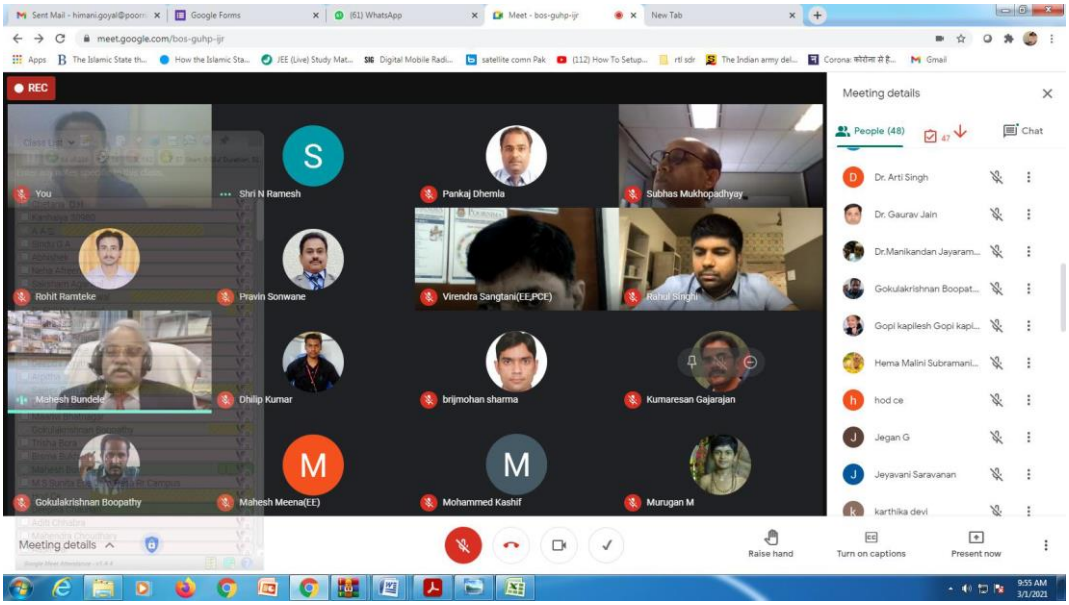
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B.E., M.E., Ph.D.
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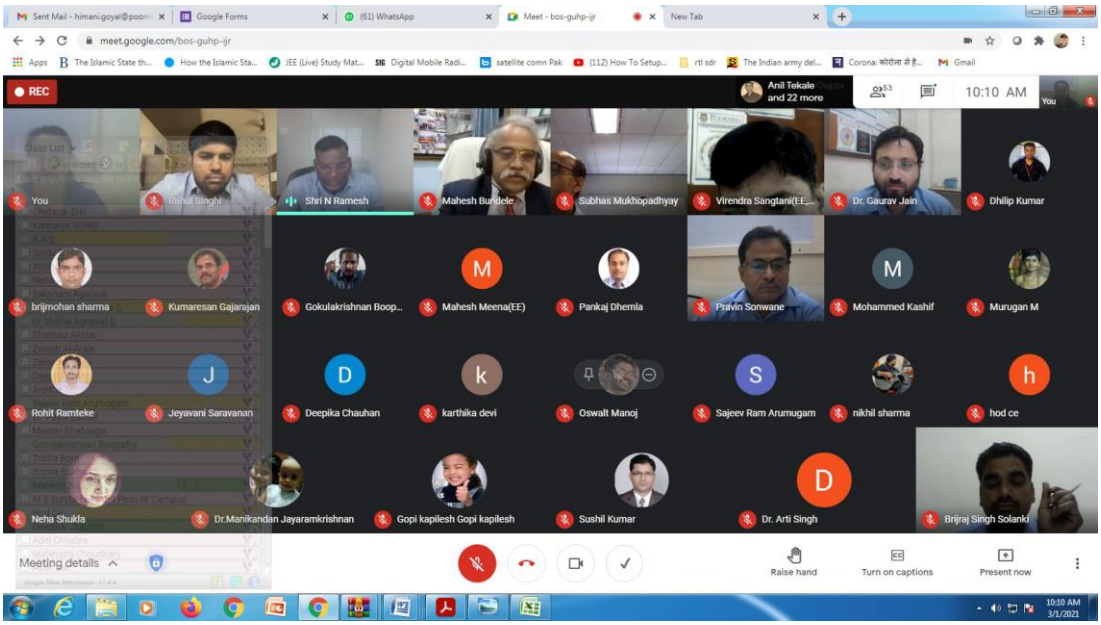
Wednesday, March 3, 2021	**Gait-based Personal authentication** **Dr. M. Hanmandlu** Professor Department of Electrical Engineering IIT, Delhi Email : **mhmandlu@gmail.com**	**Paving the way to 5G** **Dr.Jagpal Singh Ubhi** Professor Department of Electronics & Communication Engineering Sant Longowal Institute of Engg. & Tech., Longowal Email : **js_ubhi@yahoo.com**	**Student Engagement and their Virtual/Social presence for Online/Offline Learning** **Dr. Gagandeep Kaur** Associate Professor Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala. Email : **gagandeep@thapar.edu**
Thursday, March 4, 2021	**Providing smart and unique solutions for accelerating enhancement of infrastructure ,employment and revenue at no cost to the exchequer** **Dr. A. S. Goyal** Professor Ex-Vice Chancellor APG Shimla University, Shimla Email :**asgoyal48@gmail.com**	**Teaching Aspects, Research Methodology and Technical Writing** **Dr.Bhim Singh** Professor Department of Electrical Engineering IIT, Delhi **Email : bhimsinghiitd63@gmail.com** **Time :12:15 PM-01:45 PM**	**R&D Projects for Rural Technology Interventions and Innovations** **Dr. R. P. Saini** Professor, Department of Hydro and Energy Centre IIT, Roorkee Email : **saini.rajeshwer@gmail.com**
Friday, March 5, 2021	*Queries & Feedback Session*	**How to earn resources for the college How to write book paper project thesis and CONSULTANCIES.** **Dr. D. P. Kothari** Professor Ex. Director IIT, Delhi Email :**dpkvits@gmail.com**	**Education philosophy to enhance Teaching & Learning Dr. Ramesh Bansal** Professor Department of Electrical Engineering University of Sharjah, Dubai Email : **rcbansal@hotmail.com**
Saturday, March 6, 2021	**Ethical practices in research and developmentDr. Jagdish Chand Bansal** Associate Professor South Asian University, New Delhi, India Email : **jcbansal@sau.ac.in**	**Fundamentals of AI & its applicationsDr.Tapan K. Gandhi** Associate Professor Department of Electrical Engineering IIT, Delhi Email : **Tapan.Kumar.Gandhi @ee.iitd.ac.in** **Time: 12.30 pm till 2.00 pm**	**Role of EV in Green Campuses Dr. Arun Kumar Verma Assistant Professor ,MNIT Jaipur Email : Arun.ee@mnit.ac.in**
	Valedictory Function & Feedback Session& Group Photograph & Quiz		

GLIMPSES OF THE SESSION:

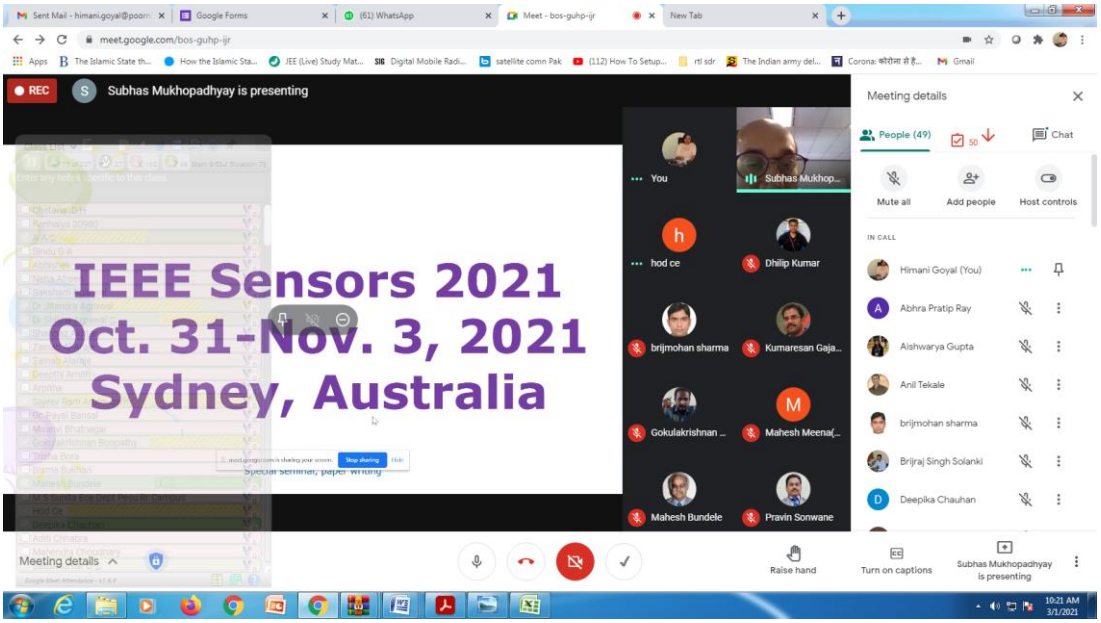
Inaugural session witnessed the presence of Chief Guest Professor Shri N Ramesh (Assistant Director, Institutional Development Cell AICTE New Delhi), Dr. Subhas Chandra Mukhopadhyay Director of International Engagement, School of Engineering, Macquarie University, Australia (Guest of Honour), Dr. Mahesh Bundele, Principal &Director, PCE, Jaipur, Er. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Ar. Rahul Singhi, Director, Poornima Group, Dr. Virendra Sangtani (HOD, EE& Dr. Himani Goyal Sharma, Professor, EE, coordinators of STTP, PCE, participants along with the faculty members. Dr. Himani Goyal Sharma, Professor, EE addressed the participants about the workshop & its area of learning and its content. In welcome address Dr. Mahesh M. Bundele, Director, PCE, update the participants about the uses and significance of Bloom's Texonomy for preparation of exam papers**.**

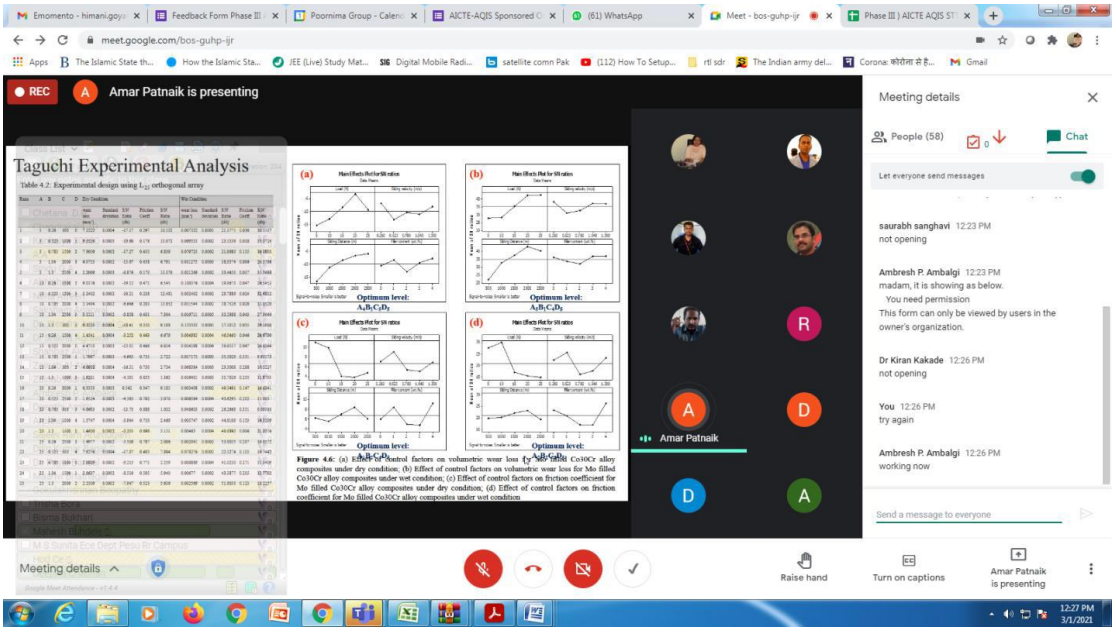
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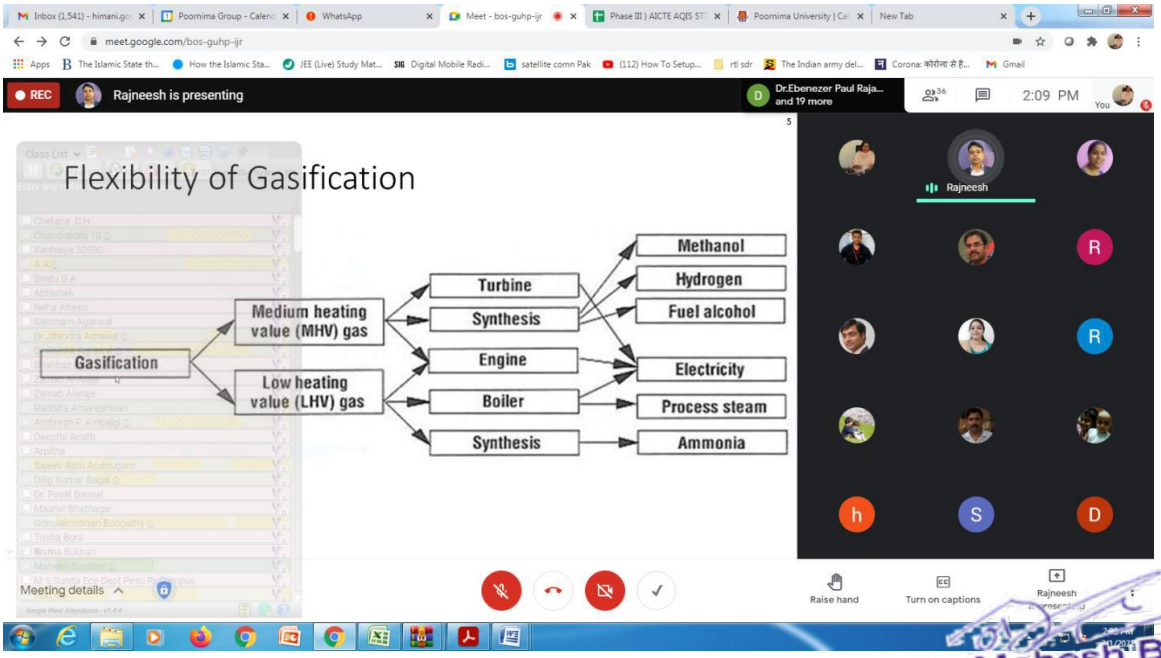




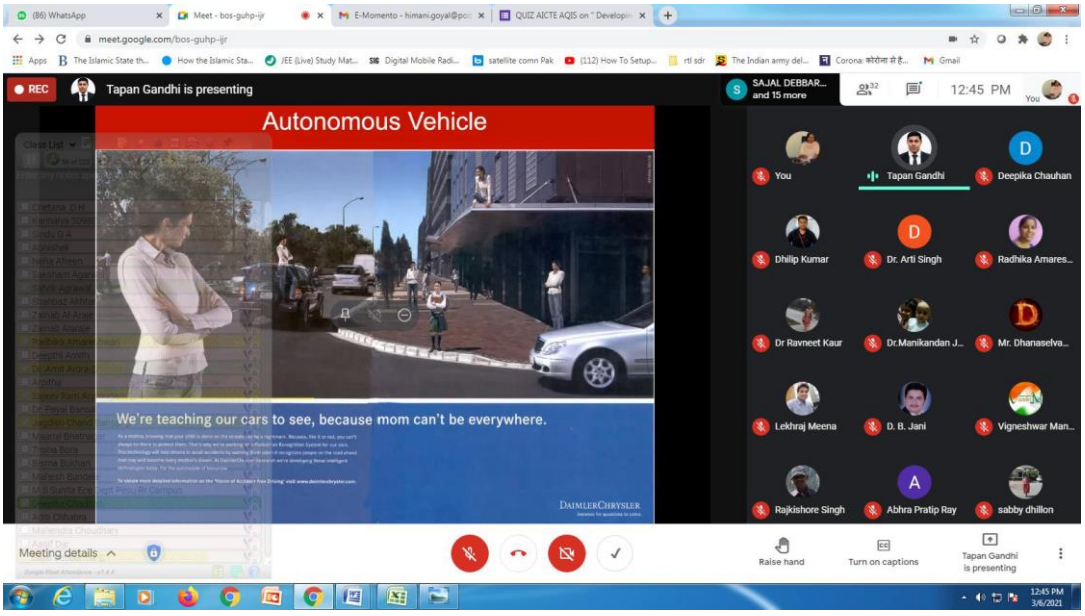
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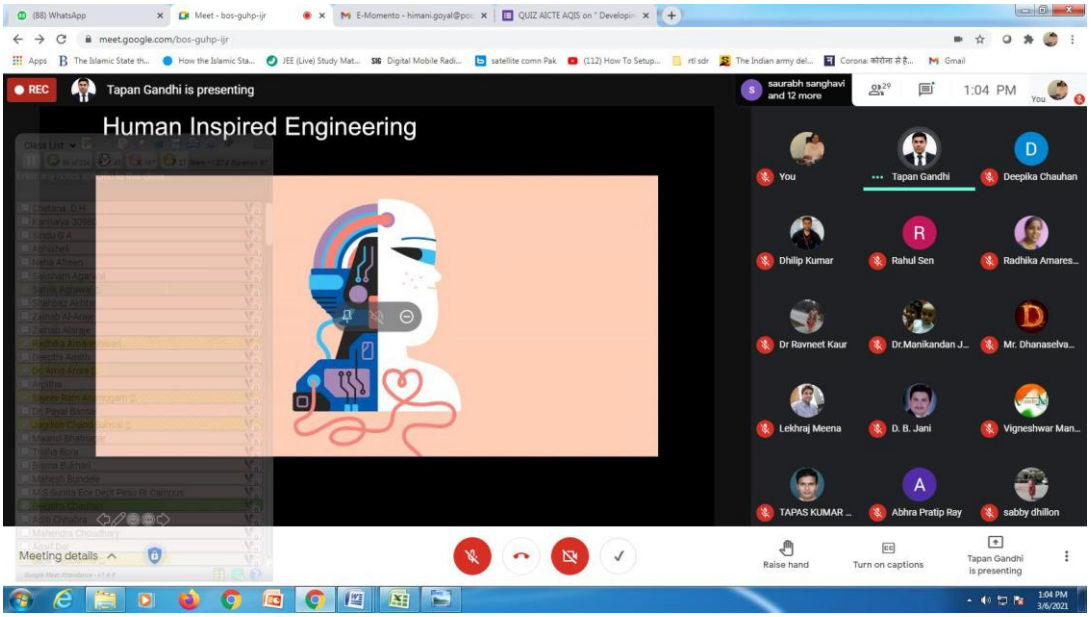


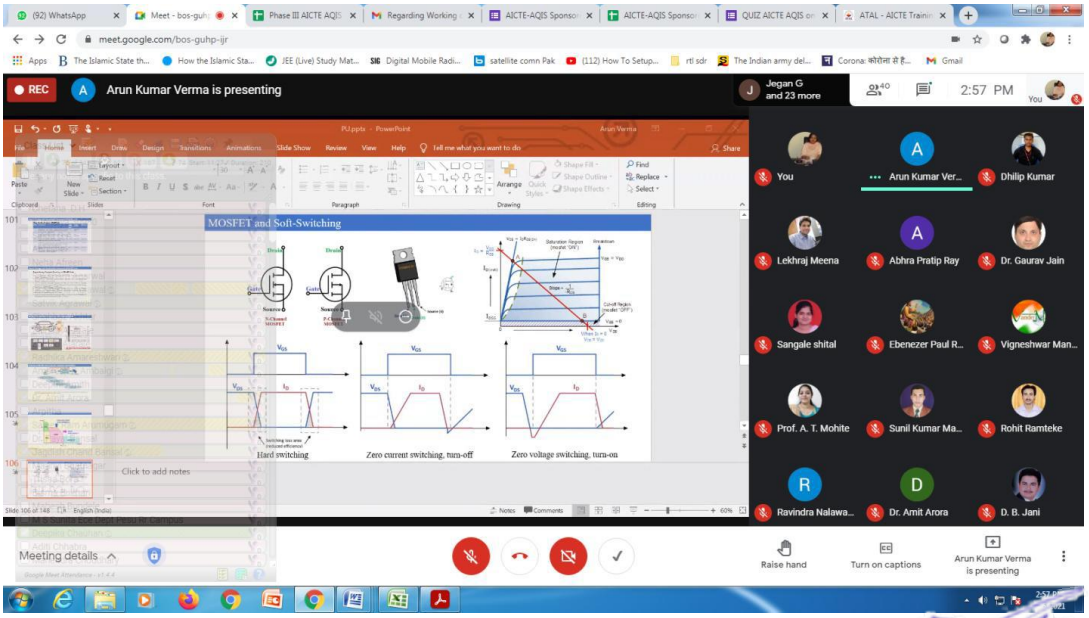




Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR







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

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(Phase- III)

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Dr. Himani Goyal Sharma	Dr. Virendra Sangtani	Prof. Mahesh M. Bundele
STTP-Coordinator	**Head of Department**	**Director**

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

LIST OF PARTICIPANTS:

S. No.	NAME	ORGANIZATION
1	DR. MEENAKSHI SRIVASTAVA	AMITY UNIVERSITY LUCKNOW CAMPUS
2	SIMRAN KALYANI	H.R. COLLEGE OF COMMERCE AND ECONOMICS
3	DR RATNESH TIWARI	BHILAI INSTITUTE OF TECHNOLOGY RAIPUR 493661 INDIA
4	G S PRADEEP GHANTASALA	CHITKARA UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY
5	SATY DEV	MNNIT ALLAHABAD PRAYAGRAJ
6	AVINASH VITTHALRAO GADEKAR	MARATHWADA INSTITUTE OF TECHNOLOGY, AURANGABAD, MAHARASHTRA
7	MANE SAMEER SURENDRA	SHREE TULJABHAVANI COLLEGE OF ENGINEERING TULJAPUR-413601
8	NEHA SHUKLA	KIET GROUP OF INSTITUTIONS
9	ALOK KUMAR TIWARI	ABV IIITM
10	DIPRATNA JALINDER WAGHMARE	SHRI TULJABHAVANI COLLEGE OF ENGINEERING TULJAPUR
11	MANJU KHARI	NSUT EAST CAMPUS, DELHI
12	AISHWARYA GUPTA	KASHI INSTITUTE OF TECHNOLOGY
13	AKSHAY S	MAHARANI LAKSHMI AMMANNI COLLEGE FOR WOMEN AUTONOMOUS
14	DR. DHANANJAY R DOLAS	MGM JNEC AURANGABAD
15	N RADHIKA AMARESHWARI	GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY
16	DEVENDRA KUMAR DODA	POORNIMA COLLEGE OF ENGINEERING
17	JANI DILIP BATUKRAY	GOVERNMENT ENGINEERING COLLEGE DAHOD
18	DR. SARITA OLA	ARYA COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY
19	RAKESH KUMAR	RV COLLEGE OF ENGINEERING, BENGALURU
20	NIKHIL KARANDE	G H RAISONI INSTITUTE OF ENGINEERING AND TECHNOLOGY, PUNE
21	SATISHKUMAR.D	NEW HORIZON COLLEGE OF ENGINEERING
22	VIVEK DILIP AVDHANE	RSCOE TATHAWADE PUNE
23	DR.KISHOR VINAYAK BHADANE	AMRUTVAHINI COLLEGE OF ENGINEERING SANGAMNER DIST; AHMEDNAGAR, M.S..
24	S SOWJANYA CHINTALAPATI	KLUNIVERSITY
25	DR.LAKSHMINARAYANA K	VISVESVARAYA TECHNOLOGICAL UNIVERSITY
26	OSWALT MANOJ S	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
27	VUDDISA DURGA SAIRAM	RAMACHANDRA COLLEGE OF ENGINEERING

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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28	DR. RAVNEET KAUR	SANT LONGOWAL INSTITUTE OF ENGINEERING AND TECHNOLOGY
29	DR. MANOJ KUMAR GUPTA	CHANDIGARH ENGINEERING COLLEGE MOHALI
30	DANIEL FRANCIS SELVARAJ JAYAPALAN	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
31	JANI DILIP BATUKRAY	GOVERNMENT ENGINEERING COLLEGE DAHOD
32	DR MOHAMMED ABID ALI	PSCMR COLLEGE OF ENGINEERING & TECHNOLOGY
33	RAJIDI RAMMOHAN REDDY	TRINITY COLLEGE OF ENGINEERING AND TECHNOLOGY
34	DHANASELVAM J	SRI KRISHNA COLLEGE OF TECHNOLOGY
35	PANKAJ BHAMBRI	
36	RAVINDRA MEENA	SCHOOL OF AGRICULTURE SCIENCE CAREER POINT UNIVERSITY KOTA
37	RAJ KISHORE SINGH	CAE RPCAU PUSA BIHAR PIN 848125
38	DR. A. SUNDAR RAJ	E. G. S. PILLAY ENGINEERING COLLEGE
39	AMIT NAIK	SHRI G. S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
40	SHANMUGAM S	KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY, THOTTIAM, TRICHY
41	DR. AMIT ARORA	DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY, JALANDHAR
42	DR. LOVE KUMAR	DAV INSTITUTE OF ENGINEERING AND TECHNOLOGY JALANDHAR
43	SOHIL MAHAMMEDBHAI LUHAR	GROW MORE FACULTY OF DIPLOMA ENGINEERING
44	DR.AMBRESH P. AMBALGI	MANGALORE UNIVERSITY
45	SULAKSHANA SUDHAKAR	SINHGAD INSTITUTE OF TECHNOLOGY LONAVALA
46	SUNIL KUMAR MAHAPATRO	REGIONAL COLLEGE FOR EDUCATION RESEARCH AND TECHNOLOGY, SITAPURA, JAIPUR
47	LOKESH.S	P.S.V COLLEGE OF ENGINEERING AND TECHNOLOGY
48	GAURAV AGRAWAL	DEI DAYALBAGH EDUCATION INSTITUTE ,AGRA, UP, INDIA
49	DR. SHARAD GANGELE	RKDF UNIVERSITY, BHOPAL MP
50	ANIL ARUN TEKALE	SVERIS COLLEGE OF ENGINEERING PANDHARPUR
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55	NIKHIL SHARMA	SKIT ENGINEERING COLLEGE JAIPUR
56	DR MANOJ KUMAR MISHRA	SRGI JHANSI
57	MANOJ KUMAR	SKIT [illegible]

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

58	ROHIT G. RAMTEKE	JHULELAL INSTITUTE OF TECHNOLOGY
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70	S.KANNADHASAN	CHERAN COLLEGE OF ENGINEERING
71	MS. SHITAL SAMPAT SANGALE	ANUSAYA INSTITUTE OF PHARMACY, DOUND
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84	R KALPANA	P.S.V COLLEGE OF ENGINEERING AND TECHNOLOGY
85	AMIT KUMAR PANDAY	P.S.V COLLEGE OF ENGINEERING AND TECHNOLOGY
86	GAUTAM PAL	KOSOL ENERGIE PVT LIMITED
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88	MUNIRATHINAM V	PRATIBHA COLLEGE OF COMMERCE & COMPUTER STUDIES
89	NITHYADEVI S	P.S.V. COLLEGE OF ENGINEERING

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93	SURBHI SHRIVASTAVA	JHULELAL INSTITUTE OF TECHNOLOGY,NAGPUR
94	LEKHRAJ MEENA	DEPARTMENT OF PHYSICS, UNIVERSITY COLLEGE OF SCIENCE, MLSU, UDAIPUR
95	MURUGAN M	P. S. V COLLEGE OF ENGINEERING AND TECHNOLOGY
96	SAUD UL HASAN	MAULANA AZAD UNIVERSITY JODHPUR
97	DR.SUSHIL KUMAR	AMITY UNIVERSITY,JAIPUR
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101	GEETA KUBSAD	PRAVIN GANDHI COLLEGE OF LAW
102	PROF. CHANDRAKALA M.	KRISTU JAYANTI COLLEGE AUTONOMOUS
103	DILIP KUMAR BAGAL	GOVERNMENT COLLEGE OF ENGINEERING, KALAHANDI, ODISHA
104	RAVINDRA MEENA	SCHOOL OF AGRICULTURE SCIENCE CAREER POINT UNIVERSITY KOTA
105	DR. RAVINDRAKUMAR YADAV	BABARIA INSTITUTE OF TECHNOLOGY
106	TASNEEM ZAHERA HAIDRY	V. N. GOVT. INSTITUTE OF ARTS AND SOCIAL SCIENCE NAGPUR MAHARASHTRA
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151	DR.ANKITA SINGH RAO	POORNIMA UNIVERSITY
152	MANISH CHOUBISA	POORNIMA COLLEGE OF ENGINEERING, JAIPUR
153	HEMA MALINI SUBRAMANIAN	BUILDERS ENGINEERING COLLEGE

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
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162	DR. PANKAJ KUMAR SINGH	INDIAN INSTITUTE OF TECHNOLOGY (BANARAS HINDU UNIVERSITY)
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165	DR.ROOPADARSHINI.S	VTU-CPGS-MUDDENAHALLI
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170	DR.SHARAD GANGELE	RKDF UNIVERSITY, BHOPAL(MP)
171	MRS.NANDHINI VARADHARAJAN	BHARATH CORPORATE, INDIA
172	MR.VIGNESHWAR MANOHARAN	BHARATH CORPORATE, INDIA
173	DR. PIYUSH VISHWAKARMA	LINGAYA'S VIDYAPEETH, DELHI-NCR
174	SHARATH K N	MINISTRY OF DEFENCE
175	TAPAS KUMAR KHUNTIA	SRI JAYADEV COLLEGE OF PHARMACEUTICAL SCIENCES
176	KUMARESAN GAJARAJAN	POORNIMA COLLEGE OF ENGINEERING, JAIPUR
177	DR. EBENEZER PAUL RAJAN	
178	V L N SRIHARI GADDAM	SPHOORTHY ENGINEERING COLLEGE
179	ANIL B. BAVASKAR	
180	PANKAJ GAKHAR	POORNIMA COLLEGE OF ENGINEERING, JAIPUR
181	M.N.P.TEJESWARI	S.P.W.POLYTEHNIC T.T.D TIRUPATHI



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A Report on Six Days Short Term Training Programme (STTP)

TITLE AND DURATION: "Eclectic Research Trends in Manufacturing (**Part -2**) (21– 26 December, 2020)

SPONSORS: AICTE sponsored Under AICTE Quality Improvement Scheme

ORGANIZERS: Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES: The event aims to provide a forum to exchange views, ideas of eclectic trends 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 newer technologies, enthusiasts, and faculty to discuss the Latest issues and possible solutions in area of manufacturing.
- Identifying Industry challenges and sensitize about latest trends and technologies in area of manufacturing.

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:





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

PROGRAM SCHEDULE:



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

INAUGURAL SESSION:



DETAILS OF RESOURCE PERSONS:

Prof. Pradeep Kumar, IIT Roorkee
Prof. Inderdeep Singh, IIT Roorkee
Dr. Sunny Zafar, Assistant Professor, IIT, Mandi
Dr. Nitin Kumar, Assistant Professor, VNIT, Nagpur
Dr. Vinod Kumar, Associate Professor, Thapar University Patiala;
Dr. C. S. Jawalkar, Associate Professor, Punjab Engineering College, Chandigarh
Dr. Anup Malik, Assistant Professor, MNIT Jaipur
Dr. Ravi Kumar Gupta, Associate Professor, Manipal University Jaipur
Dr. Sachin Kumar Mangla, Faculty, University of Plymouth United Kingdom;
Prof. G S Dangayach, MNIT, Jaipur
Dr. Joy Prakash Misra, Assistant Professor, IIT (BHU), Varanasi;
Mr. Harjit Singh, Scientist, ISRO Trivandrum
Mr. Amit Katara, Senior Manager, DCM Shriram Rayons Industries Ltd. Kota;

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

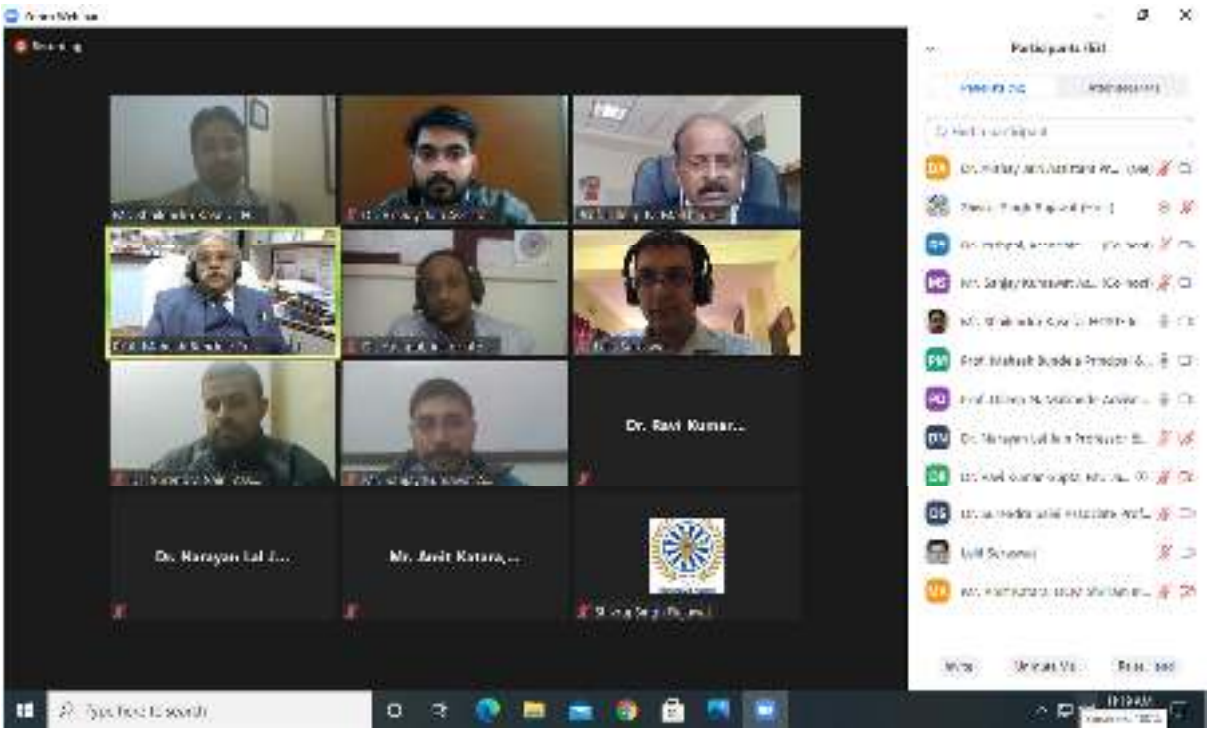
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Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

CONTENT DELIVERY / PRACTICAL SESSIONS:





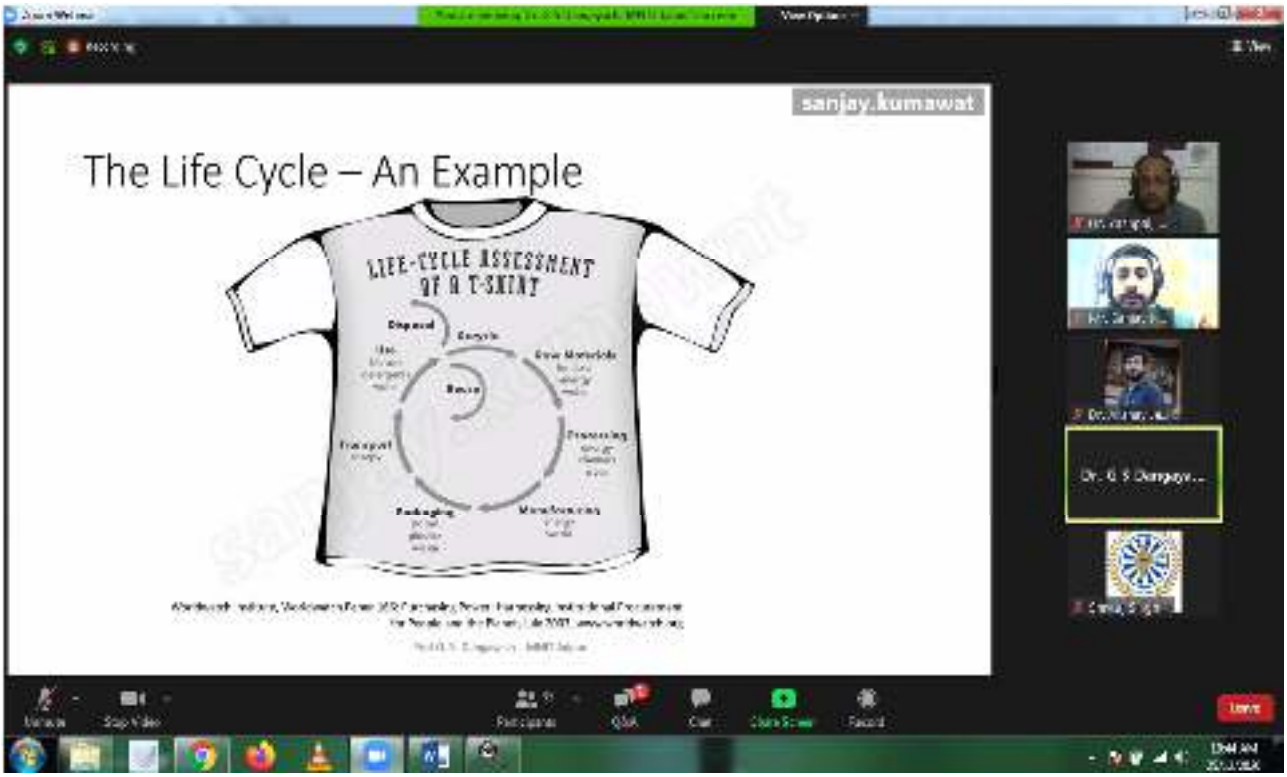
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





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

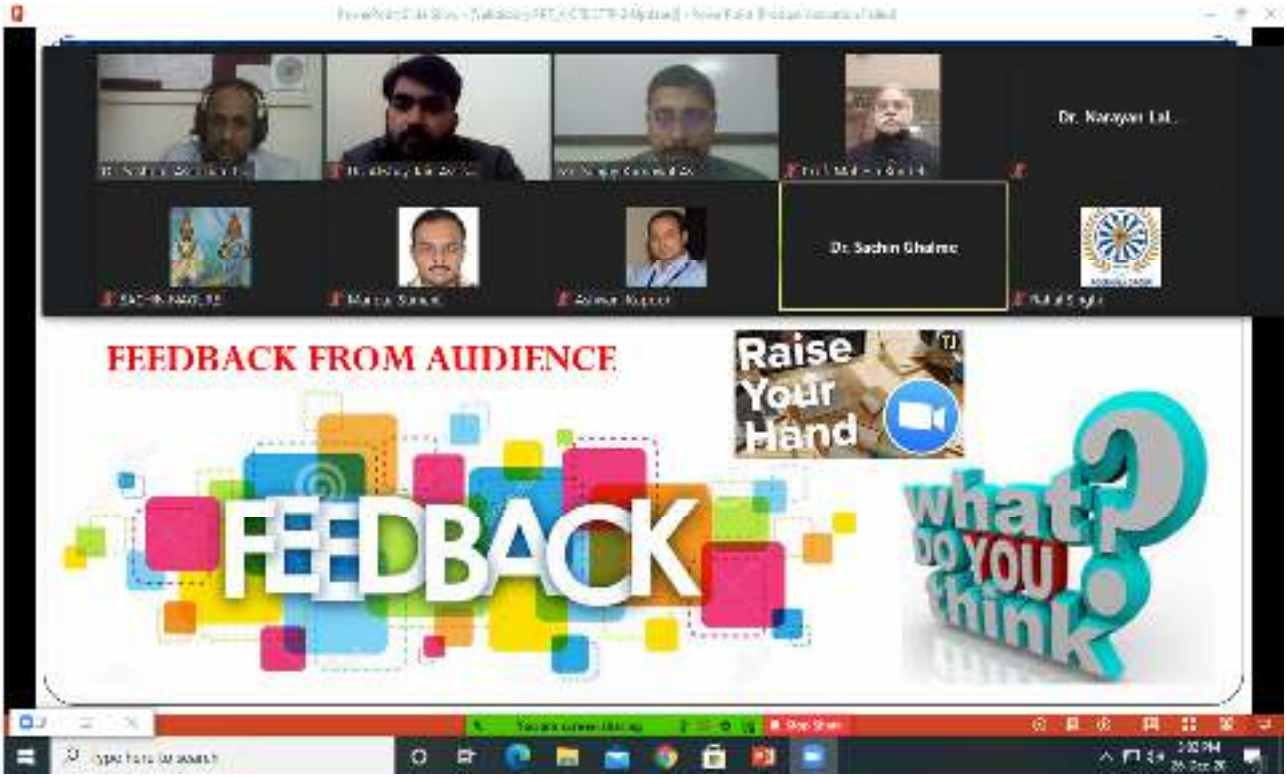


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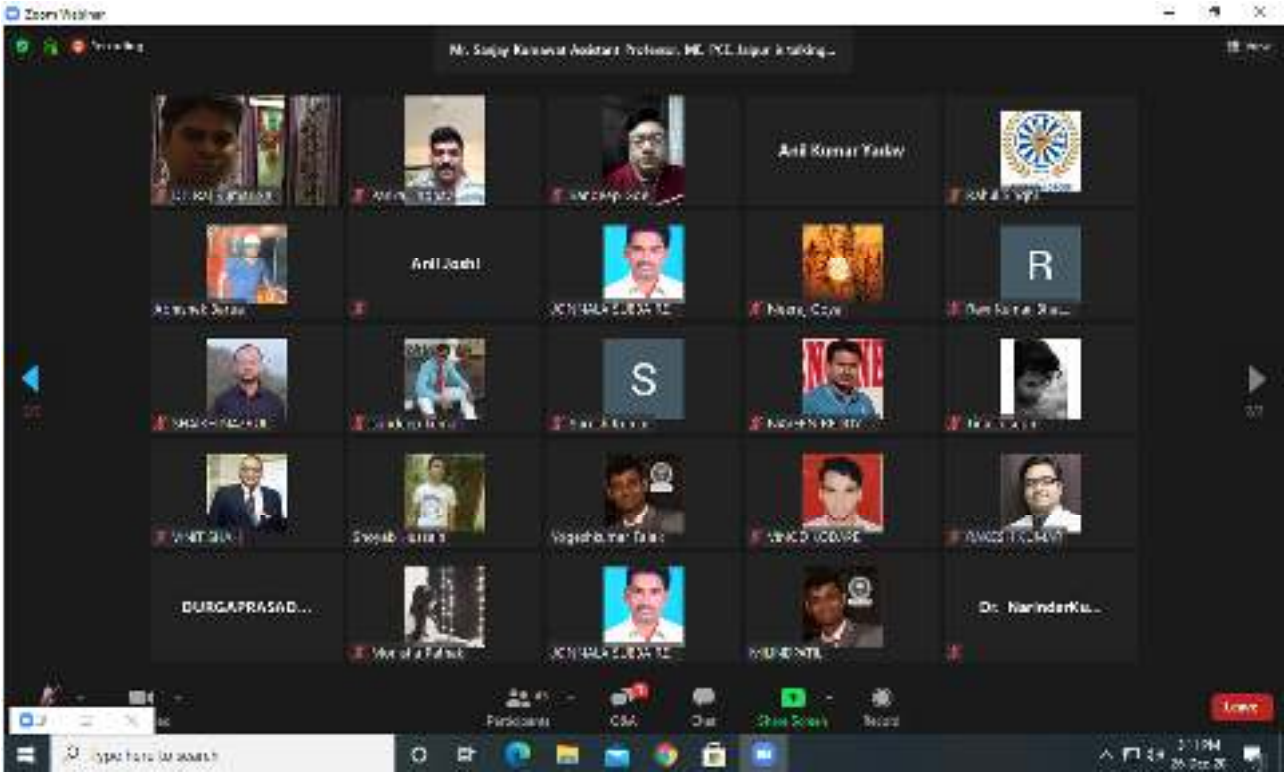


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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



LIST OF PARTICIPANTS:

S. No.	Full Name	Email ID	Institute/ Organisation Name
1	Moti Lal Rinawa	rinawa.iitd75@gmail.com	Government Engineering College Jhalawar Rajasthan
2	Abhay M S	abhaykichu813@gmail.com	Providence College of Engineering Chengannur
3	Harshit Lohar	2017pcemeharshit043@poornima.org	Poornima College of Engineering Jaipur
4	Dhanasekar J	jdhanasekar81@gmail.com	Bharath Institute of Higher Education And Research
5	Ashin K Sunny	ashinksunny99@gmail.com	Viswajyothi College of Engineering And Technology, Kerala
6	Jagdish Prasad Maheshwari	jpmm_2009@yahoo.co.in	Shankara Institute of Technology Kukas Jaipur
7	Sachin Mallikarjun Nagure	sachin.nagure1@gmail.com	MBES College of Engineering Ambajogai
8	A. Arun Kumar	yasharun306@gmail.com	Mother Theresa Institute of Engineering And Technology, Andhra Pradesh
9	Pradeep Kumar Meena	paru.meena@gmail.com	Delhi Technological University
10	Pankaj Krishnath Jadhav	pkjadhav@apsit.edu.in	A P Shah Institute of Technology, Thane
11	Vishnuprasad Mahanti	abc191795@gmail.com	Raajdhani Engineering College, Odisha
12	Sunil Kumar Tiwari	sktiwari262001@yahoo.com	NSUT (West Campus), Delhi
13	Manoj Kumar	manojcc0713@gmail.com	GNIT(GGSIPU) Greater Noida
14	Amresh Kumar Saraff	kishanradhye@gmail.com	Samrat Ashok Technologycal Institute, Vidisha
15	Anupriya Saxena	Faculty.anupriya@gmail.com	SRMCEM, Uttar Pradesh
16	Shaikh Nazrul	nazrulshaikh2@gmail.com	North Orissa University, Baripada, Odisha
17	Harish Vishnu Gunjal	harishvishnugunjal.mtprod20@pec.edu.in	Punjab Engineering College, Chandigarh

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

18	Dr.E.SUBBARAO	esrlitam@gmail.com	SVIST, West Bengal
19	Rakesh Kumar	rakeshkumar@rvce.edu.in	RV College Of Engineering, Bengaluru
20	Ravi P Barot	ravibarot886@gmail.com	CSPIT, Charusat University Gujrat
21	Neeraj Goyal	neeraj.mech@cumail.in	Chandigarh University
22	Ravindra Mahawar	ravindra.mahawar@poornima.org	Poornima College of Engineering, Jaipur
23	T.Sathish	sathish.sailer@gmail.com	Saveetha School of Engineering, Tamilnadu
24	Rabinarayan Bag	rabinarayanbag@gmail.com	KIIT Deemed To be University, Bhubaneswar
25	Yashpal	yashpal.kaushik1986@gmail.com	Poornima College of Engineering, Jaipur
26	Sushanta Kumar Pradhan	sushantapradhan.rite@gmail.com	Radhakrishna Institute of Technology And Engineering, Bhubaneswar
27	Sanjay Sundriyal	ss95576@gmail.com	Na
28	Nandipati Srinivasa Rao	nandipati75@gmail.com	Government Polytechnic College Gadwal Telangana
29	Naveen Kumar Sharma	naveen31.sharma@gmail.com	I. K. G. Punjab Technical University, Jalandhar, Punjab
30	Harish Kumar Banga	drhkbanga@gmail.com	GNDEC Ludhiana Punjab
31	Ishu Monga	ishumonga1986@gmail.com	Government Polytechnic Dhangar Fatehabad
32	Dr.Lokesh Kumar	ranjansvits@gmail.com	AKU Patna
33	Ruby Pant	rubypant@uttaranchaluniversity.ac.in	Uttaranchal University, Dehradun
34	Deepak Sharma	deepaksharma.mtprod20@pec.edu.in	Punjab Engineering College, Chandigarh
35	Balwinder Singh	drbwssidhu07@gmail.com	GZS Campus CET MRSPTU Bathinda
36	Pradeep Kumar Krishnan	pradeepkrishnan@nu.edu.om	National University of Science and Technology (NUST)
37	Ratnesh Kumar Gupta	rgiitdelhi@gmail.com	Pusa Institute of Technology New Delhi
38	Dr. Richa Biswal	richabiswal123@gmail.com	University of Allahabad, Uttar Pradesh
39	Sneha Prasad	prasad14sneha@gmail.com	Sir M Visvesvaraya Institute of Technology, Karnataka
40	Avnish Kumar	chauhanavnish15@gmail.com	Uttaranchal University, Dehradun
41	Suresh Penagaluru	suresh.p1@svcolleges.edu.in	SV College of Engineering, Tirupati
42	M.Sangeetha	sanjithdhanya@gmail.com	Sathyabama Institute of Science And Technology, Tamilnadu
43	Jyoti Nanasaheb Shedage	jyotishedage91@gmail.com	Rajarambapu Institute of Technology, Maharashtra
44	Kishor B. Waghulde	kbwdypit@gmail.com	Dr. D. Y. Patil Institute of Technology Pimpri Pune
45	Sagrika Gupta	sagrikagupta12@gmail.com	Guru Nanak Dev Institute of Technology, Delhi
46	Tinu. C. Joseph	tinuj62@gmail.com	Guru Nanak Dev Institute Of Technology, Delhi
47	Narinder Kumar	narenderpec237@gmail.com	CT University, Ludhiana
48	Mayank Pokhriyal	mayank.pokhriyal@gkv.ac.in	Faculty of Engineering & Technology, Gurukula Kangri (Deemed To Be University) Haridwar
49	Girish P. Bhole	girishin21@gmail.com	SSGPCOE&T, Maharashtra

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

50	Abhishek Charak	abhi.charak0021@gmail.com	Punjab Engineering College, Chandigarh
51	Sandeep Goel	sandeep_goel1985@yahoo.com	Angel Broking Ltd.
52	Mr.RAMESH A, Phd PHYSICS	ramesharumugam416@gmail.com	Arignar Anna Government Arts College, Namakkal
53	Vinod Chhatrapati Kodape	kodapevinod3@gmail.com	Smt.Radhikatai Pandav College of Engineering Nagpur
54	Prashant Ramaji Gawalkar	Gawalkarprashant@gmail.com	KDK College of Engineering, Maharashtra
55	Mohammad Israr	isainik@yahoo.co.in	Poornima College of Engineering, Jaipur
56	Nitin Mukesh Mathur	nitinmukesh@poornima.org	PIET, Jaipur
57	Dheeraj	dheerajthakurkurmi@gmail.com	Aryabhatta College Of Engineering and Research Center, Ajmer
58	Vinit Shah	vinit11885@gmail.com	Freezco Corporation, Gujrat
59	Sumant Mandar Mukundrav	mandarsumant.me@bitseducampus.ac.in	Babaria Institute Of Technology, Gujrat
60	Debananda Behera	debacom.behera@gmail.com	Capital Engineering College Bhubaneswar
61	A.Mohamed Ibrahim	mohammed.science@gmail.com	Hindusthan College of Engineering And Technology, Coimbatore
62	Soumyaranjan Sethi	soumyaranjansethi01544@gmail.com	Government College of Engineering Kalahandi, Bhawanipatna
63	Nagender Kumar Chandla	nagender.mechengg@gmail.com	Punjab Engineering College, Chandigarh
64	Sumant Mandar Mukundrav	mandarsumant.me@bitseducampus.ac.in	Babaria Institute of Technology
65	Munish Baboria	munish0005@gmail.com	Yogananda Collee of Engineering And Technology, Jammu
66	Dhananjay Kumar	dhananjay.kumar@poornima.org	Poornima College of Engineering, Jaipur
67	Debadatta Swain	debadattaswain961@gmail.com	Goverment College of Engineering Kalahandi
68	Anil Kumar Yadav	anilkumarout@gmail.com	Yagyavalkya Institute of Technology
69	Monisha Pathak	mamup@yahoo.co.in	Jorhat Engineering College, Assam
70	Arobindra Saikia	arobindra@gmail.com	Jorhat Engineering College, Assam
71	Himanshu Vasnani	himanshuvasnani1@gmail.com	Suresh Gyan Vihar University, Jaipur
72	Dilip Kumar Bagal	dilipbagal90@gmail.com	Government College Of Engineering, Kalahandi
73	Himmat Singh	himmatsingh91rawat@gmail.com	CIPET Jaipur
74	Hemant Jangir	hemantjangirhj1997@gmail.com	Poornima College of Engineering, Jaipur
75	Buddhi Prakash Panwar	buddhi.prakash@poornima.org	Poornima College of Engineering, Jaipur
76	Rahul Sharma	rahul.sharma@poornima.org	Poornima College of Engineering, Jaipur
77	Deepak	deepakpippalme@gmail.com	Madhav Institute of Technology and Science, Madhya Pradesh
78	P.Umamaheswarrao	umaenergy1@gmail.com	Bapatla Engineering College, Andhra Pradesh
79	Dr.TRIZA JANIFER TOP PO	trizajanifer@gmail.com	Santal Pargana College, Sido Kanhu Murmu University, Dumka

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

80	N Ramu	narayananramu1971@gmail.com	Amk Tevhnological Polytechnic College, Tamil Nadu
81	Sunil Kumar Yadav	mechsky@gmail.com	SRMGPC, Lucknow
82	Pritam Pradip Mahajan	pritampm3@gmail.com	MET BKC IOE ,Nashik
83	Chappeli Sai Kiran	SAI_9293137273@YAHOO.COM	CVR College of Engineering, Hyderabad
84	Sanjay Bairwa	sanjay.bairwa@skit.ac.in	Swami Keshvanand Institute Of Technology M & G, Jaipur
85	Priya V	priyaygna14@gmail.com	Bharath Institute Of Higher Education And Research, Chennai
86	Aayush Poonia	Aayush Poonia	Poornima College of Engineering, Jaipur
87	Avinash Marwal	marwal_avinash@yahoo.co.in	Mohanlal Sukhadia University, Udaipur
88	Raj Kumar Satankar	rajmukesh22@gmail.com	Poornima College of Engineering, Jaipur
89	Kiran Babajirao Salunke	kiranbabajirao@gmail.com	Government Polytechnic Thane
90	Gagan Manocha	gaganchhachhrauli@gmail.com	Government College, Chhachhrauli
91	Modi Arpit Harivadan	arpitmodi.mech@svitvasad.ac.in	SVIT Vasad
92	Kishor Wagh	kishor_25may@rediffmail.com	Guru Nanak Institute of Engineering and Technology, Nagpur
93	Dimple Juneja	dimplejuneja2507@gmail.com	Udaipur
94	Prince	Prince.isgec2015@gmail.com	ISGEC Hitachi Zosen Limited, Yamunanagar
95	Saran Theja Manige	urstrulysaran@gmail.com	Jawaharlal Nehru Technological University Anantapuramu
96	Farakate Pandurang Ranaba	pandurangf8463@gmail.com	Sadashivrao Mandlik Mahavidyalaya Murgud Tal Kagal Dist Kolhapur
97	Rutam Biswal	biswalrutam5@gmail.com	University Of Allahabad
98	Yogeshkumar R Falak	yogeshrfalak@gmail.com	Sandip Institute of Technology And Research Centre, Nashik
99	Pankaj Mishra	pankajmishra6657@gmail.com	National Institute of Co-operative Management College, Bhopal
100	Sruti C R	srutichintala@gmail.com	Sathyabama Institute of Science And Technology, Tamilnadu
101	Ch Mohammad Akram	akramm.klu@gmail.com	S.R.K. Institute of Technology, Andhra Pradesh
102	Kuldeep	kuldeep0210@yahoo.co.in	Aryabhatta College of Engineering And Research Center, Ajmer
103	Rahul Sen	rahul.sen@poornima.org	Poornima College of Engineering, Jaipur
104	Neelabh Gupta	neelabhgupta05@gmail.com	Modi Institute of Technology, Kota
105	Vipin Kumar Sharma	vipin.k.sharma@miet.ac.in	MIET Meerut
106	Mani T N	maninarayantn@gmail.com	P.A.C.R.Polytechnic College, Tamilnadu
107	Asaithambi.E	measai2017@gmail.com	SKR Engineering College, Tamilnadu
108	G.Vasumathi	vasu.bala06@gmail.com	Bharath Institute of Higher Education and Research, Chennai

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

109	Biswajit Parida	bisu_katak@rediffmail.com	Govt. Polytechnic Kendrapara, Skill Developement & Technical Education Deptt., Odisha
110	Tushar Pani	tusharpani007@gmail.com	Government College of Engineering Kalahandi
111	Yogesh Mishra	yogeshmishranhr@gmail.com	Malaviya National Institute of Technology, Jaipur
112	Durgaprasad Kollipara	dpkollipara@gmail.com	VKR, VNB & AGK College of Engineering, Andhra Pradesh
113	Uday Kumar Singh	golukumarsingh274@gmail.com	Arya College Of Engineering And IT, Jaipur
114	Ranjit Arjun Katkar	katkarr76@gmail.com	AGTI's Dr. Daulatrao Aher College of Engineering, Karad.
115	Shoyab Hussaim	shoyeb31@gmail.com	Shobhit University, Uttar Pradesh
116	Ashutosh Kumar	ashutoshkumarsep@gmail.com	Arya College of Engineering And IT Jaipur
117	Sonali Bhanudas Kanawade	sonalikanawade28@gmail.com	RMD Sinhgad School of Engineering, Maharashtra
118	Gibilikapally Narender	gnarenderle1@gmail.com	Anurag Engineering College, Kodada
119	Abhishek Barua	rahulbarua69@gmail.com	Centre for Advanced Post Graduate Studies, BPUT, Rourkela, Odisha
120	Narendra Kumar Ahirwar	narendra87.ahirwar@gmail.com	Mahatma Gandhi Chitrakoot Gramoday Vishwavidhalay, Madhya Pradesh
121	Jonnala Subba Reddy	jonnalasu@yahoo.co.in	Lakireddy Bali Reddy College of Engineering, Mylavaram
122	Sandeep Kumar	sksandeep365@gmail.com	Shobhit University Gangoh, Saharanpur
123	Sukanta Singh	sukantasingh2008@gmail.com	Dr. Meghnad Saha Institute Of Technology, Haldia
124	Kamaleshwar Dhar Dwivedi	kdd.1992@bbdnitm.ac.in	Babu Banarasi Das Institute Of Technology And Management Lucknow
125	Naveen Reddy Pothula	reddy.n52@gmail.com	Vignan's Foundation for Science Technology And Reaearch, Andhra Pradesh
126	Payal Saini	payalsainib2002@gmail.com	Arya College Of Engineering and Information Technology, Jaipur
127	Raghvendra Singh	raghvendra25d@gmail.com	BBDITM Lucknow
128	Bandaru Dyva Isac Premkumar	dyvaprem@lbrce.ac.in	Lakireddy Bali Reddy College of Engineering, Andhra Pradesh
129	P Mastan Rao	pmastanraoo@gmail.com	Prasad V Potluri Siddhartha Institute of Technology, Vijayawada
130	Chappeli Sai Kiran	sai_9293137273@yahoo.com	CVR College Of Engineering, Hyderabad
131	Vishan Singh	singhvishan589@gmail.com	BBD NITM Lucknow
132	Ramesh Abbengula	abbengularamesh@gmail.com	Vaagdevi College Of Engineering, Telangana
133	Neha Gupta	er.mech.neha@gmail.com	BBDITM Lucknow
134	Vishal Pawar	vishi44@gmail.com	SKITM Indore
135	Aamir	aamir012000@gmail.com	BBD ITM Lucknow
136	Rohit Kumar Mishra	rohitkumarm491@gmail.com	BBDITM Lucknow

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

137	Prashant Kumar	kumarprashant280@gmail.com	Jaipur Engineering College, Kukas
138	Akash Ganesh Bhople	akashgbhople45@gmail.com	STC, Shegaon
139	Dhananjay R Dolas	dhananjaydolas@jnec.ac.in	MGM JNEC Aurangabad
140	Mallikarjuna Rao Dandu	malliaug01@gmail.com	Lakireddy Bali Reddy College of Engineering, Andhra Pradesh
141	Shubham Soni	sonishubham777@gmail.com	Aryabhatta College of Engineering And Research Centre, Ajmer
142	Chanchal Kumari	33	Kolhan University, Jharkhand
143	Anil Kumar	anil00056@gmail.com	BBDNITM Lucknow
144	Waghmare Dipratna Jalinder	deewagh.a@gmail.com	Shri Tuljabhavani College of Engineering, Maharashtra
145	Gaurav Tiwari	cipetjprgauravtiwari@gmail.com	CIPET Jaipur
146	Jaydeep Maruti Khade	jaykhade2211@gmail.com	D Y Patil College of Engineering Akurdi Pune
147	Pooja Kumawat	appooja1994@gmail.com	Govt. PG College Jhunjhunu
148	Deepak Kumar	dk.k804452@gmail.com	Government Polytechnic Sitamarhi, Bihar
149	Radhey Shyam Meena	rshyammnre@gmail.com	Ministry of New & Renewable Energy, New Delhi
150	Yogesh G Kamble	ygkamble@dypcoeakurdi.ac.in	D Y Patil College of Engineering Akurdi Pune Maharashtra
151	Ranjeet Singh Rathore	rathorers2001@gmail.com	Engineerinng College Bikaner
152	Rajbala	pro.rajbaladangi@gmail.com	SRRM Govt College Jhunjhunu
153	Sandeep Kumar Bhaskar	Sandeep.bhaskar@skit.ac.in	SKIT, M & G, Jaipur
154	Pooran Mal Yadav	pooranyadav1982@gmail.com	Arya College of Engineering & IT, Jaipur
155	Dr. Manju Chaudhary	me.manjuchaudhary@gmail.com	SRRM Govt. College Jhunjhunu
156	Nihal Menaria	menarianihal2000@gmail.com	Government Engineering College Bikaner
157	Vijay Kumar Choudhary	vijaychoudhary@acropolis.in	Acropolis Institute Of Technology And Research, Indore (M.P.)
158	Shravan Kumar Yadav	shravankkulme@gmail.com	NIT Jamshedpur
159	Anil Kumar Joshi	aniljoshia131@gmail.com	Shobhit University, Uttar Pradesh
160	Ravi Kumar Bhatnagar	itsravi22@gmail.com	Shobhit University, Uttar Pradesh
161	Suresh Kumar	sureshjanu160@gmail.com	S.R.R.M.Govt College Jhunjhunu
162	Khushal Deep Verma	2014pcemekhushal@poornima.org	The Hi-Tech Gear Ltd., Bhiwadi
163	Anup A Junankar	anup87junankar@gmail.com	J D College of Engineering And Management, Nagpur
164	Somvir Singh	drsomvirsingh@cmrcet.org	CMR College of Engineering & Technology, Hyderabad
165	Khagendra Saini	2017pcemekhagendra704@poornima.org	Poornima College of Engineering, Jaipur
166	Sujeet Kumar Chaubey	sujeetiiti@gmail.com	Gautam Buddha University, Greater Noida
167	Kanchan Sharma	satvik1011@gmail.com	SRRM Govt.College Jhunjhunu
168	Prashi Jain	prashijaini1804@gmail.com	Jaypee Guna
169	Naveen Kumar	er.naveengoyal30@gmail.com	Guru Jambheshwar Univ... Technology, Hisar

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

170	Sujoy Kanti Bhattacharjee	avtarsujoy1988@gmail.com	Indian Institute of Engineering Science And Technology, Shibpur
171	Dibyanta Pattnayak	Dibyanta.Pattnayak@gmail.com	Vikram Deb Autonomous College, Jeypore
172	Shivinder Singh	shivinder519@gmail.com	NIT Jalandhar
173	Milind Motiram Patil	milind.patil@sitrc.org	Sandip Institute of Technology And Research Centre, Nasik
174	Prasad Ramchandra Baviskar	prasadbaviskar@gmail.com	Sandip Institute of Technology And Research Centre, Nasik
175	Sachin Ghalme	sachin.ghalme@sitrc.org	Sandip Institute of Technology And Research Centre, Nashik
176	Ankit Kumar	ankitkumar129@gmail.com	Apex Plastics, Delhi
177	Sushanto Mahato	mahato.sushanto33@gmail.com	Shrinathji Institute Of Technology And Engineering, Nathdwara
178	Divyanshu Aggarwal	daggarwal_phd19@thapar.edu	Thapar Institute Of Engineering and Technology, Patiala
179	Pratish Rawat	pratish.rawat@poornima.edu.in	Poornima University, Jaipur
180	Sagar Kumar	sagar.kumar@poornima.org	Poornima College of Engineering Jaipur
181	Ashwani Kapoor	ashwani.kapoor@poornima.org	Poornima College of Engineering, Jaipur
182	Dr. Anupama	anupama.sik.1256@gmail.com	Govt. Girls College, Jhunjhunu
183	Amit Kumar Mandal	amit.mandal@poornima.org	Poornima College of Engineering, Jaipur
184	Gordhan Lal Digarwal	gdigarwal@gmail.com	SRRM Govt Collage Jhunjhunu

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

LIST OF PARTICIPANTS ATTENDED:

S. No.	Name	Email	Organisation
1	Sumant Mandar Mukundrav	mandarsumant.me@bitseducampus.ac.in	Babaria Institute of Technology, Gujrat
2	Pankaj Krishnath Jadhav	pkjadhav@apsit.edu.in	A P Shah Institute of Technology, Thane
3	Vipin Kumar Sharma	vipin2871985@gmail.com	MIET Meerut
4	Anil Kumar Yadav	anilkumarout@gmail.com	Yagyavalkya Institute of Technology, Jaipur
5	Sukanta Singh	sukantasingh2008@gmail.com	Dr. Meghnad Saha Institute of Technology, Haldia
6	Anil Kumar Joshi	aniljoshia131@gmail.com	Shobhit University, Uttar Pradesh
7	Sunil Kumar Tiwari	sktiwari262001@yahoo.com	CBP Government Engineering College, Jaffarpur
8	Sachin Mallikarjun Nagure	sachin.nagure1@gmail.com	MBES College of Engineering Ambajogai
9	Dr. Sachin Ganpatrao Ghalme	sachin.ghalme@sitrc.org	Sandip Institute of Technology and Research Centre, Nashik
10	Mayank Pokhriyal	mayank.pokhriyal@gkv.ac.in	Faculty of Engineering & Technology, Gurukula Kangri (Deemed to be University), Haridwar
11	Naveen Reddy Pothula	reddy.n52@gmail.com	Vignan's Foundation for Science Technology And Research, Guntur
12	Pooja Kumawat	appooja1994@gmail.com	Govt. PG College Jhunjhunu (Rajasthan)
13	Shaikh Nazrul	nazrulshaikh2@gmail.com	North Orissa University, Baripada, Odisha
14	Ashwani Kapoor	ashwani.kapoor@poornima.org	Poornima College of Engineering, Jaipur
15	Munish Baboria	munish0005@gmail.com	Government College of Engineering and Technology,Jammu
16	Arobindra Saikia	arobindra@gmail.com	Jorhat Engineering College, Jorhat
17	Harish Vishnu Gunjal	harishvishnugunjal.mtprod20@pec.edu.in	Punjab Engineering College, Chandigarh
18	Vinit Shah	vinit11885@gmail.com	FREEZCO Corporation, Gujrat
19	Ravi Kumar Bhatnagar	ravi.bhatnagar@shobhituniversity.ac.in	Shobhit University, Saharanpur
20	Durgaprasad Kollipara	dpkollipara@gmail.com	VKR, VNB & AGK College of Engineering
21	Jonnala Subba Reddy	jonnalasu@yahoo.co.in	Lakireddy Bali Reddy College of Engineering, Mylavaram
22	Neeraj Goyal	neeraj.mech@cumail.in	Chandigarh University, Punjab
23	Sandeep Goel	sandeep_goel1985@yahoo.com	Angel Broking Ltd.
24	Abhishek Barua	rahulbarua69@gmail.com	Centre for Advanced Post Graduate Studies, BPUT, Rourkela, Odisha
25	Dr. Narinder Kumar	narinderkumar@ctuniversity.in	CT University, Ludhiana
26	Suresh Kumar	sureshjanu160@gmail.com	SRRM Govt College Jhunjhunu
27	Vinod Chhatrapati Kodape	kodapevinod3@gmail.com	Smt. Radhikatai Pandav College of Engineering Nagpur
28	Sandeep Kumar	sksandeep365@gmail.com	Shobhit University, Saharanpur
29	Dilip Kumar Bagal	dilipbagal90@gmail.com	Government College of Engineering, Kalahandi, Odisha
30	Dr. Milind M Patil	milind.patil@sitrc.org	Sandip Institute of Technology and Research Centre, Nashik
31	Yogeshkumar R Falak	yogeshrfalak@gmail.com	Sandip Institute of Technology and Research Centre, Nasik
32	Prince	prince.isgec2015@gmail.com	ISGEC Hitachi Zosen Ltd., Yamuna Nagar
33	Tinu. C. Joseph	tinuj62@gmail.com	Guru Nanak Dev [illegible] Technology, Delhi

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

34	Monisha Pathak	mamup@yahoo.co.in	Jorhat Engineering College, Jorhat
35	Mrs Rajbala	pro.rajbaladangi@gmail.com	SRRM Govt. College Jhunjhunu
36	Ramesh Abbengula	abbengularamesh@gmail.com	Vaagdevi College of Engineering, Telangana
37	P. Umamaheswarrao	umaenergy1@gmail.com	Bapatla Engineering College, Andhra Pradesh
38	Dr. Lokesh Kumar	ranjansvits@gmail.com	AKU, Patna
39	Prashant Kumar	kumarprashant280@gmail.com	Jaipur Engineering College, Jaipur
40	Dr. Manju Chaudhary	me.manjuchaudhary@gmail.com	S. R. R. M. Govt. College, Jhunjhunu
41	Jaydeep Maruti Khade	jaykhade2211@gmail.com	D Y Patil College of Engineering, Pune
42	Prashant Ramaji Gawalkar	gawalkarprashant@gmail.com	KDK College of Engineering, Nagpur
43	Debananda Behera	debacom.behera@gmail.com	Capital Engineering College, Bhubaneswar
44	Ramesh A	ramesharumugam416@gmail.com	Arignar Anna Government Arts College, Namakkal
45	Pritam Pradip Mahajan	pritampm3@gmail.com	MET BKC IOE, Nashik
46	Farakate Pandurang Ranaba	pandurangf8463@gmail.com	Sadashivrao Mandlik Mahavidyalaya Kolhapur
47	A. Arun Kumar	yasharun306@gmail.com	Mother Theresa Institute Of Engineering And Technology, Andhra Pradesh
48	Sushanta Kumar Pradhan	sushantapradhan.rite@gmail.com	Radhakrishna Institute of Technology and Engineering, Bhubaneswar
49	Ranjit Arjun Katkar	katkarr76@gmail.com	AGTI's Dr. Daulatrao Aher College Of Engineering, Karad
50	Ishu Monga	ishumonga1986@gmail.com	Government Polytechnic Dhangar Fatehabad
51	Rahul Sharma	rahul.sharma@poornima.org	Poornima College of Engineering, Jaipur
52	Kishor Wagh	kishor_25may@rediffmail.com	Guru Nanak Institute of Engineering and Technology, Nagpur
53	Mani T N	tnmani@pacrpoly.org	P.A.C.R. Polytechnic College, Rajapalayam
54	Pradeep Kumar Krishnan	pradeepkrishnan@nu.edu.om	National University of Science and Technology (NUST)
55	Deepak Kumar	dk.k804452@gmail.com	Government Polytechnic Sitamarhi, Bihar
56	Dimple Juneja	dimplejuneja2507@gmail.com	Udaipur
57	Rutam Biswal	biswalrutam5@gmail.com	University of Allahabad, Uttar Pradesh
58	Baviskar Prasad Ramchandra	prasadbaviskar@gmail.com	Sandip Institute Of Technology And Research Centre Nashik
59	Sanjay Bairwa	sanjay.bairwa@skit.ac.in	Swami Keshvanand Institute of Technology M & G Jaipur
60	Shoyab	shoyeb31@gmail.com	Shobhit University, Uttar Pradesh
61	Dr. Harish Kumar Banga	drhkbanga@gmail.com	GNDEC Ludhiana Punjab
62	Saran Theja Manige	urstrulysaran@gmail.com	JNTU, Anantapuramu
63	Ranjeet Singh Rathore	rathorers2001@gmail.com	Engineering College Bikaner
64	Dipratna Jalinder Waghmare	deewagh.a@gmail.com	Shri Tuljabhavani College of Engineering Tuljapur
65	Dr Chanchal Kumari	drchanchalkumari@gmail.com	Kolhan University, Chaibasa, Jharkhand
66	Kanchan Sharma	satvik1011@gmail.com	Govt. PG. College Jhunjhunu
67	Dr. Richa Biswal	richabiswal123@gmail.com	University of Allahabad, Uttar Pradesh
68	Dr. Anupama	anupama.sik.1256@gmail.com	Govt. Girls College, Jhunjhunu
69	Pradeep Kumar Meena	paru.meena@gmail.com	Delhi Technological University, Delhi
70	Dr. Somvir Singh	drsomvirsingh@cmrcet.org	CMR College of Engineering & Technology, Hyderabad

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

71	Mohammad Akram	akramm.klu@gmail.com	S.R.K. Institute of Technology, Vijayawada
72	A. Mohamed Ibrahim	mohammed.science@gmail.com	Hindusthan College of Engineering and Technology, Tamilnadu

FEEDBACK DETAIL:

S. No.	Name	Email	Average
1	Sumant Mandar Mukundrav	mandarsumant.me@bitseducampus.ac.in	5
2	Pankaj Krishnath Jadhav	pkjadhav@apsit.edu.in	4
3	Vipin Kumar Sharma	vipin2871985@gmail.com	5
4	Anil Kumar Yadav	anilkumarout@gmail.com	4.4
5	Sukanta Singh	sukantasingh2008@gmail.com	4.3
6	Anil Kumar Joshi	aniljoshia131@gmail.com	4.8
7	Sunil Kumar Tiwari	sktiwari262001@yahoo.com	5
8	Sachin Mallikarjun Nagure	sachin.nagure1@gmail.com	5
9	Dr. Sachin Ganpatrao Ghalme	sachin.ghalme@sitrc.org	4.6
10	Mayank Pokhriyal	mayank.pokhriyal@gkv.ac.in	4.6
11	Naveen Reddy Pothula	reddy.n52@gmail.com	5
12	Pooja Kumawat	appooja1994@gmail.com	4
13	Shaikh Nazrul	nazrulshaikh2@gmail.com	4
14	Ashwani Kapoor	ashwani.kapoor@poornima.org	5
15	Munish Baboria	munish0005@gmail.com	4.6
16	Arobindra Saikia	arobindra@gmail.com	4.4
17	Harish Vishnu Gunjal	harishvishnugunjal.mtprod20@pec.edu.in	5

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

18	Vinit Shah	vinit11885@gmail.com	5
19	Ravi Kumar Bhatnagar	ravi.bhatnagar@shobhituniversity.ac.in	5
20	Durgaprasad Kollipara	dpkollipara@gmail.com	5
21	Jonnala Subba Reddy	jonnalasu@yahoo.co.in	5
22	Neeraj Goyal	neeraj.mech@cumail.in	5
23	Sandeep Goel	sandeep_goel1985@yahoo.com	5
24	Abhishek Barua	rahulbarua69@gmail.com	5
25	Dr. Narinder Kumar	narinderkumar@ctuniversity.in	5
26	Suresh Kumar	sureshjanu160@gmail.com	3.8
27	Vinod Chhatrapati Kodape	kodapevinod3@gmail.com	4.4
28	Sandeep Kumar	sksandeep365@gmail.com	4.6
29	Dilip Kumar Bagal	dilipbagal90@gmail.com	5
30	Dr. Milind M Patil	milind.patil@sitrc.org	4.8
31	Yogeshkumar R Falak	yogeshrfalak@gmail.com	5
32	Prince	prince.isgec2015@gmail.com	5
33	Tinu. C. Joseph	tinuj62@gmail.com	4.8
34	Monisha Pathak	mamup@yahoo.co.in	5
35	Rajbala	pro.rajbaladangi@gmail.com	4.6
36	Ramesh Abbengula	abbengularamesh@gmail.com	5
37	P. Umamaheswarrao	umaenergy1@gmail.com	5
38	Dr Lokesh Kumar	ranjansvits@gmail.com	5
39	Prashant Kumar	kumarprashant280@gmail.com	4.6
40	Dr. Manju Chaudhary	me.manjuchaudhary@gmail.com	5
41	Jaydeep Maruti Khade	jaykhade2211@gmail.com	5
42	Prashant Ramaji Gawalkar	Gawalkarprashant@gmail.com	5
43	Debananda Behera	debacom.behera@gmail.com	5
44	Ramesh A	ramesharumugam416@gmail.com	5
45	Pritam Pradip Mahajan	pritampm3@gmail.com	4
46	Farakate Pandurang Ranaba	pandurangf8463@gmail.com	5
47	A. Arun Kumar	yasharun306@gmail.com	4
48	Sushanta Kumar Pradhan	sushantapradhan.rite@gmail.com	5
49	Ranjit Arjun Katkar	katkarr76@gmail.com	5
50	Ishu Monga	ishumonga1986@gmail.com	5
51	Rahul Sharma	rahul.sharma@poornima.org	5

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

52	Kishor Wagh	kishor_25may@rediffmail.com	5
53	Mani T N	tnmani@pacrpoly.org	4.8
54	Pradeep Kumar Krishnan	pradeepkrishnan@nu.edu.om	5
55	Deepak Kumar	dk.k804452@gmail.com	3.2
56	Dimple Juneja	dimplejuneja2507@gmail.com	5
57	Rutam Biswal	biswalrutam5@gmail.com	5
58	Baviskar Prasad Ramchandra	prasadbaviskar@gmail.com	4.8
59	Sanjay Bairwa	sanjay.bairwa@skit.ac.in	4.6
60	Shoyab	shoyeb31@gmail.com	5
61	Dr. Harish Kumar Banga	drhkbanga@gmail.com	5
62	Saran Theja Manige	urstrulysaran@gmail.com	5
63	Ranjeet Singh Rathore	rathorers2001@gmail.com	4
64	Dipratna Jalinder Waghmare	deewagh.a@gmail.com	4
65	Dr. CHANCHAL KUMARI	drchanchalkumari@gmail.com	5
66	Kanchan Sharma	satvik1011@gmail.com	4.2
67	Dr. Richa Biswal	richabiswal123@gmail.com	5
68	Dr. Anupama	anupama.sik.1256@gmail.com	4.2
69	Pradeep Kumar Meena	paru.meena@gmail.com	4
70	Dr. Somvir Singh	drsomvirsingh@cmrcet.org	5
71	Mohammad Akram	akramm.klu@gmail.com	5
72	A.Mohamed Ibrahim	mohammed.science@gmail.com	5

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

A Report on six days short term training Program

- **TITLE AND DURATION:** "Developing R&D Culture in Educational Institutes through Project Based Learning" from Dec 14-19, 2020.

- **SUPPORTERS:** AICTE Quality Improvement Scheme.

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

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



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

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Developing R&D culture in Educational Institutes through Project Based learning

December 14-19, 2020

REGISTRATION FORM

Name: .....

Designation: .....

Department: .....

Institute: .....

Institute Address: .....

.....

.....

Mobile No. : .....

E-mail: .....

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

REGISTRATION AND FEE PARTICULARS

- There is no registration fee.
- The STTP is open to all faculties and research scholars from Universities/AICTE approved institutions.
- Registration for the program may be done by filling the registration form online via: **https://tinyurl.com/y2zm3u2b**
- Join Whats App Group **https://tinyurl.com/y5toej5o**
- All the sessions will be conducted online only.
- After completion of the program, test will be conducted.
- E-certificates will be issued to those participants who have minimum 80% attended the program and 60% marks in test.

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of manufacturing such as IITs, IIITDMs, NITs, and other premier institutes.

IMPORTANT DATES

Last date for Registration	**December 12, 2020**
Intimation of selection by mail	**December 13, 2020**
FDP duration	**December 14-19, 2020**

CORRESPONDENCE

Dr. Himani Goyal Sharma
Professor, Department of Electrical Engineering
✆ : +91-9676974176, 9779065615
✉ : himani.goyal@poornima.org



POORNIMA
COLLEGE OF ENGINEERING
ISI-6, RIICO Institutional Area, Sitapura, Jaipur
www.pce.poornima.org

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Developing R&D Culture in Educational Institutes through Project Based Learning

December 14-19, 2020



Sponsored by

AICTE
New Delhi

All India Council For Technical Education
Under
AICTE Quality Improvement Schemes (AQIS)

Organized by

Department of Electrical Engineering

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

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 DEPARTMENT

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.

ABOUT THE PROGRAM

An intensive six days short term-training programme is being organized for faculty of technical institutions. It is also open to persons from industry and researchers of Indian organizations. The objective is to provide an exposure to the participants to the "Developing an Research and Development culture in Educational Institutes through Project Based Learning " through interaction with experts from premier institutions like IITs, NITs and Industry professionals.

OBJECTIVES OF STTP

The objective of this course to Impart skill based education Culture in the Institutes amongst the students as well as the Faculty members so that conceptual based understanding can be enhanced. This will form the basis for higher education too amongst Faculty and students.

Expected Outcome of the STTP course :

- This STTP Program will open new paths for our students and faculty to investigate innovative ways to assess the emerging trends in Technology in dynamic and collaborative setting.
- Organizing such programs is an essential step to achieve new targets & make a mark in the Technological Research at a Global level.
- This STTP Program will show higher horizons in the field of Research

Course Modules

- Innovative Teaching Methodology for Effective Learning
- Challenges in developing Research culture in the Institutes
- Road-Map for Research culture devlopment.
- Alignment of Bloom's Taxonomy for Effective Outcome Based Education.
- Alignment of Assessment with Course Outcomes.

Abstract

One Week STTP Programme shall be organized for more than 100 participants from different Engineering and diploma colleges across India & Abroad. Eminent personalities across the country shall grace the sessions by their auspicious presence and deliver their lectures on Latest Technological enhancements taking place across the world as well as how to imbibe research and Development culture amongst the students through projects. These members have been contributing significantly to the improvement of the quality of engineering education. The major focus of the STTP will be on inculcating research and development culture through conceptual based understanding. This shall also be an added advantage to people from industry.

PATRON

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

ADVISORS

Mr. Pankaj Dhemla
Vice Principal, PCE, Jaipur

Dr. Rekha Nair
Dean, First Year, PCE, Jaipur

Mr. Devendra Somwanshi
Registrar, PCE, Jaipur

CONVENOR

Dr. Virendra Sangtani
HoD EE, PCE, Jaipur

CO-CONVENOR & STTP COORDINATOR

Dr Himani Goyal Sharma
Professor, Department of Electrical Engineering PCE, Jaipur

PCE ORGANIZING COMMITTEE

Mr. Pankaj Dhemla	Vice-Principal, PCE
Dr. Rekha Nair	Dean, I Year, PCE
Dr Pravin Sonwane	Professor, PCE
Md Asif Iqbal	Assistant Professor, PCE
Dr. Amit Shrivastava	Professor, PCE
Dr. Babita Jain	Professor, PCE
Dr. Deepika Chauhan	Professor, PCE
Dr. Neeraj Tiwari	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

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

PROGRAM SCHEDULE:

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of STTP by **Dr. Himani Goyal Sharma ,** STTP Coordinator, EE, PCE **Col. B. Venkat**, Director (Faculty Development)AICTE, New Delhi **(Chief Guest)** **Prof. (Dr.) D.P. Kothari**, Chairman, Board of Governors, THDC Institute of HydropowerEngineering and Technology, Tehri, Uttarakhand **(Guest of Honour)** **Dr. Mahesh Bundele**, Director & Principal, Poornima College of Engineering,Jaipur Mr. Pankaj Dhemla, Vice-Principal,PCE Ar. Rahul Singhi, Director, PoornimaGroup Dr.VirenderSangtani, HOD EE PCE	3 Min	09:30 AM-09:33 AM
2.	Welcome address by **Dr. Mahesh Bundele**, Director & Principal, PCE	05 Min	09:33 AM-09:38 AM
3.	Motivational Words by **Ar. Rahul Singhi,** Director, Poornima Group	05 Min	09:38 AM-09:43 AM
4.	Address by **Guest of Honor Prof. D.P. Kothari**, Chairman, Board of Governors, THDC Institute of Hydropower Engineering and Technology, Tehri, Uttarakhand	10 Min	09:43 AM-09:53 AM
5.	Inaugural Address by **Col. B. Venkat**, Director (Faculty Development)AICTE, New Delhi**(Chief Guest)**	10 Min	09:53 AM-10:03 AM
6.	Vote of Thanks by **Dr.Virender Sangtani**, HOD EE PCE	02 Min	10:03 AM-10:05 AM

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

Poornima College of Engineering

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)

Approved by AICTE & Affiliated to Rajasthan Technical University, Kota, Rajasthan

Accreditated by National Board of Accreditation, Delhi, India

Department of Electrical Engineering

AICTE AQIS sponsored STTP on "Developing R&D Culture in Educational Institutes Through Project Based learning (Phase II)"

December 14-19, 2020

Chief Guest: Col. B.Venkat (Director, AICTE)
&
Guest of Honor: Prof. D. P. Kothari, Ex Director, IIT, Delhi

Day & Date	10:00 am - 11:30 am	11:45 am - 01:15 am	02:00 pm - 3:30 pm
	SESSION-1	SESSION-2	SESSION-3
Monday, December 14, 2020	National Innovation and Startup Policy (NISP) and its Importance for an Academic Institute Dr. Arun Kumar Verma Associate Professor Department of Electrical Engineering MNIT, Jaipur	Experiment and Numerical Analysis of Tribology Behavior of Wind Blade Application Dr. Amar Patnaik Associate Professor Department of Mechanical Engineering MNIT, Jaipur	Academic Research Ethics & Technical Writing Dr. Ramesh Bansal Professor Department of Electrical Engineering University of Sharjah, Dubai
Tuesday, December 15,2020	AICTE-AQIS Financially Funded Schemes to Improve Quality in Technical Education Col. B. Venkat Director (Faculty Development Cell) AICTE, New Delhi	Road-Map for Research Culture Development Dr. Nishchal K. Verma Professor Departement of Electrical Engineering IIT, Kanpur	Research-Based Teaching & Learning Dr. Arun Dwivedi Professor Department of Electrical Engineering Sandip Univeristy, Nashik
Wednesday, December 16, 2020	Methodologies for User Identification Using Keystroke dynamics Dr. M. Hanmandlu Professor Department of Electrical Engineering IIT, Delhi	Road-Map for Research Culture Development Prof. Y. N. Singh Professor Department of Electrical Engineering IIT, Kanpur	Problem Based Learning in Research and Teaching Environment Dr. Gagandeep Kaur Associate Professor Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala.
Thursday, December 17, 2020	To Speed Up Transformation of India into a Developed Country Through Creation of Smart Infrastructure by Using Research and Development Dr. A. S. Goyal Professor Ex-Vice Chancellor APG Shimla University, Shimla	Challenges in Developing Research Culture in the Institutes Prof. Subrat Kar Professor Department of Electrical Engineering IIT, Delhi	Development of R&D Culture through Renewable Energy Project Dr. R. P. Saini Professor, Department of Hydro and Energy Centre IIT, Roorkee
Friday, December 18, 2020	Role of Research in Achieving Outcome Based Education Dr Ajay Bansal Associate Professor Central University Haryana, Mahendergarh	Art and Science of Teaching and Research in Engineering Dr. D. P. Kothari Professor Ex. Director IIT, Delhi	Road-Map for Research Culture Development Dr. M.P.Sharma Professor Department of Hydro and Renewable Energy (HRED) IIT, Roorkee
Saturday, December 19, 2020	Ethics in Technical Publishing Dr. Jagdish Chand Bansal Associate Professor South Asian University, New Delhi, India	Understanding the First Step of Groundbreaking Research and Development Dr. Tapan K. Gandhi Associate Professor Department of Electrical Engineering IIT, Delhi	Research Methodology, Professional Ethics, Technical Writing and Plagiarism Prof. Bhim Singh Professor Department of Electrical Engineering IIT, Delhi
	Valedictory:- 3:30 pm onwards Chief Guest: Prof. Bhim Singh Professor Department of Electrical Engineering IIT, Delhi		

GLIMPSES OF THE SESSION:

The Department of Electrical Engineering, Poornima College of Engineering, Jaipur organized a six days STTP, sponsored by AICTE on "Developing R&D Culture in Educational Institutes through Project Based Learning" December 14-19, 2020.

The objective of this course to impart skill based education culture in the institutes amongst the students as well as the faculty members so that conceptual based understanding can be enhanced. This has formed the basis for higher education too amongst faculty and students.

Course Modules

- Innovative Teaching Methodology for Effective Learning

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

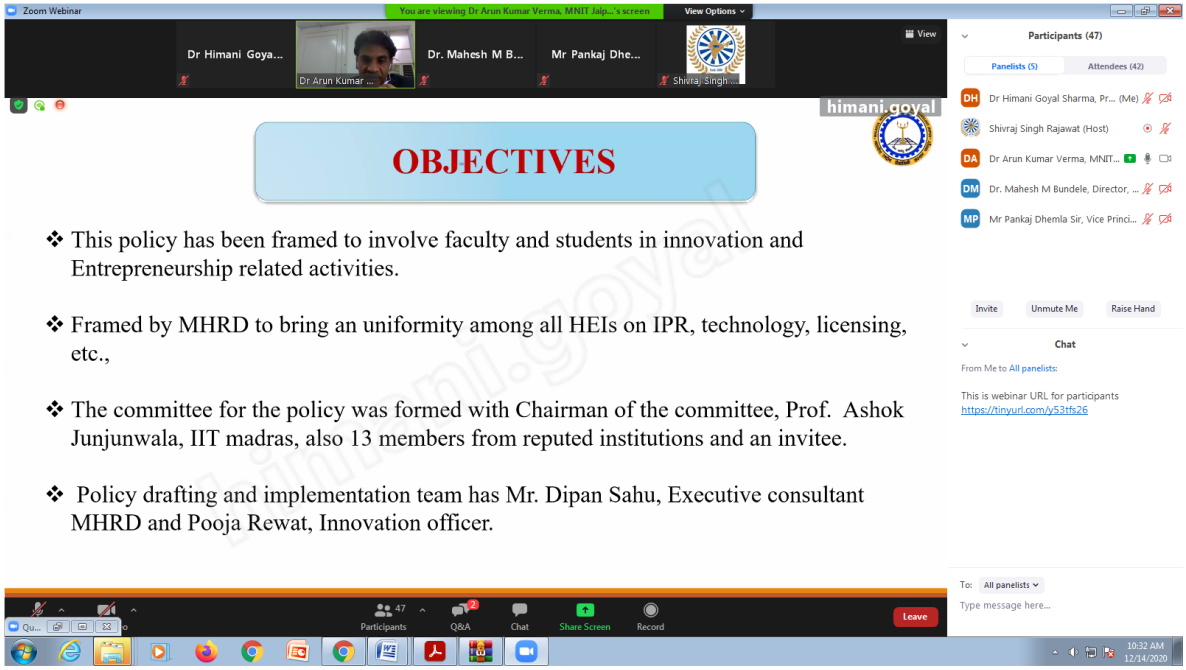
- Challenges in Developing Research Culture in the Institutes
- Road-Map for Research Culuture Development
- Alignment of Bloom's Taxonomy for Effective Outcome Based Education
- Alignment of Assessment with Course Outcomes

Inaugural session witnessed the presence of (Chief Guest) Col. B. Venkat, Director (Faculty Development) AICTE, New Delhi, (Guest of Honour) Prof. (Dr.) D.P. Kothari, Chairman, Board of
Governors, THDC Institute of Hydropower Engineering and Technology, Tehri, Uttarakhand, Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Er. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Ar. Rahul Singhi, Director, Poornima Group, Dr. Virendra Sangtani (HOD, EE& Dr.Himani Goyal Sharma, Professor, EE,coordinators of STTP, PCE, participants along with the faculty members. Dr. Himani Goyal Sharma, Professor, EE addressed the participants about the workshop & its area of learning and its content.

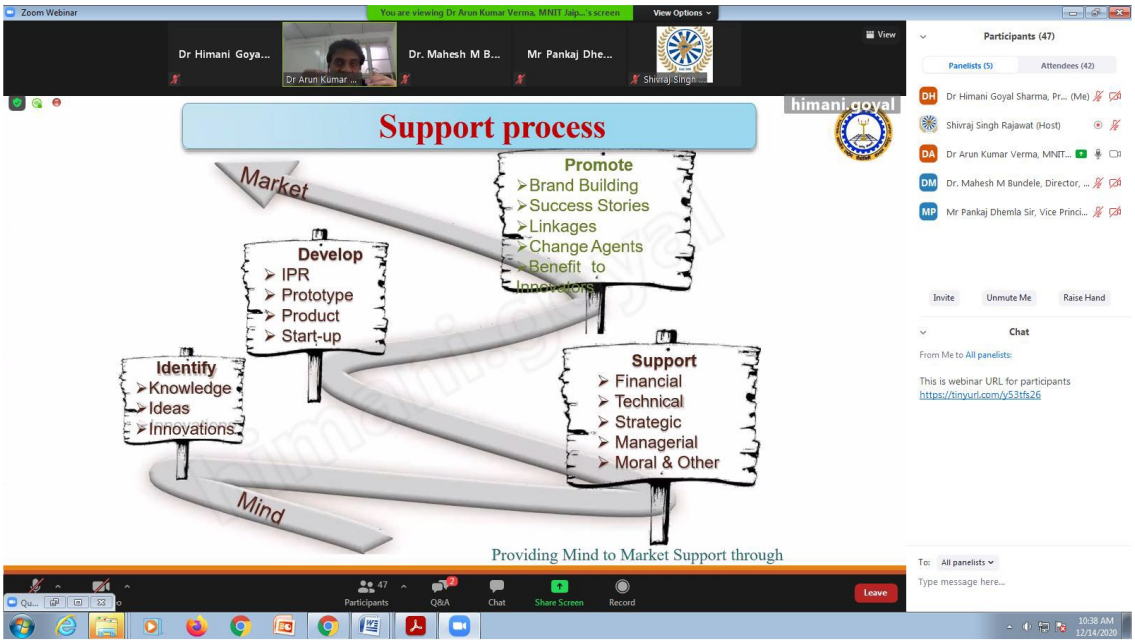


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





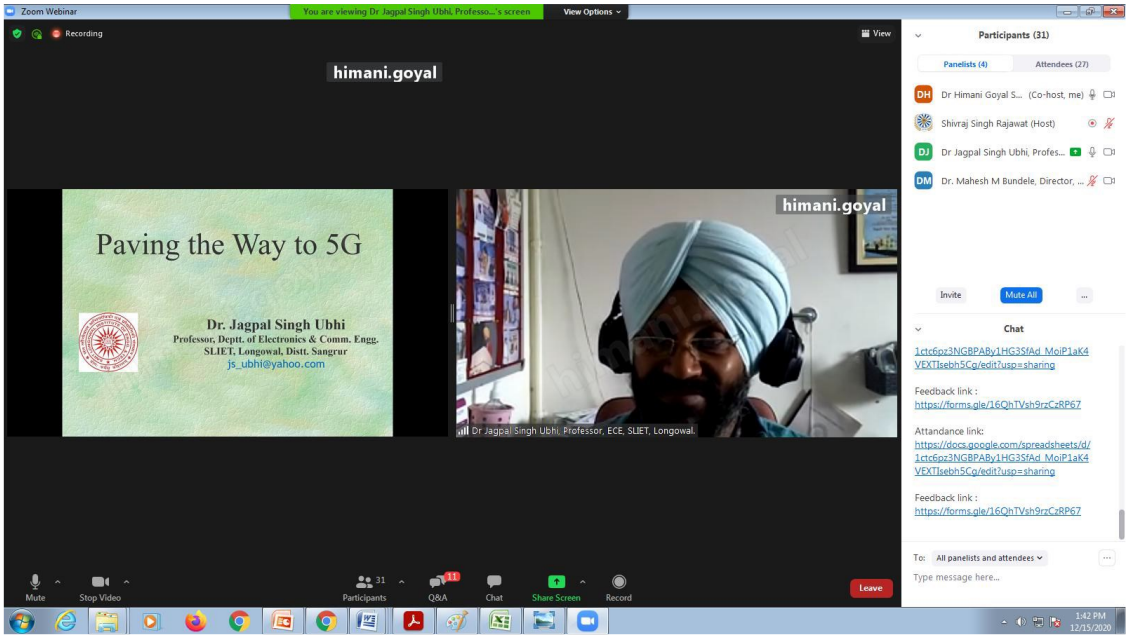
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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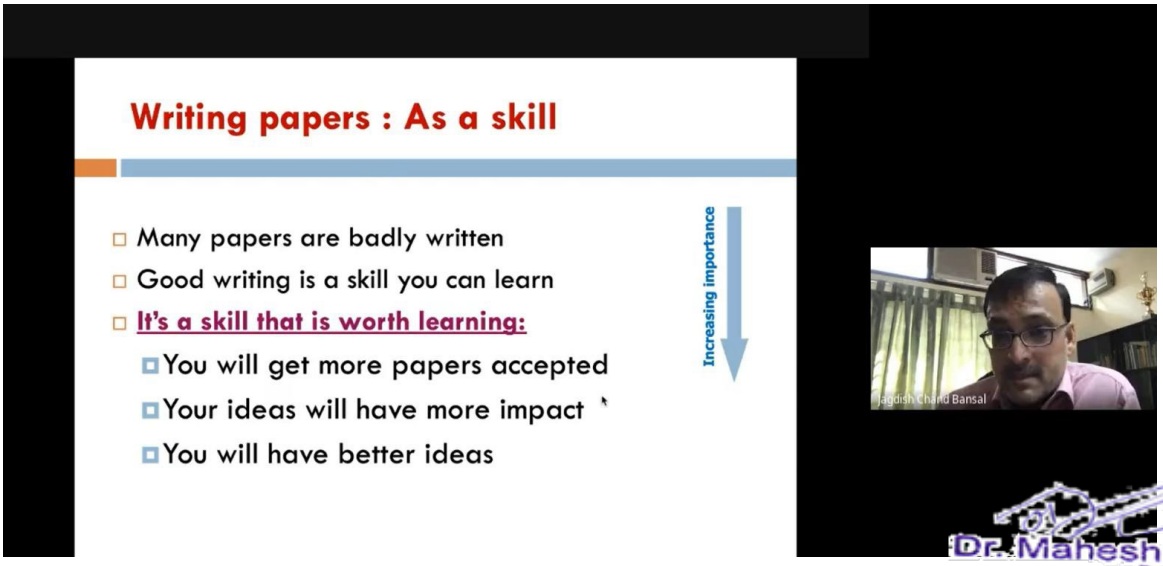




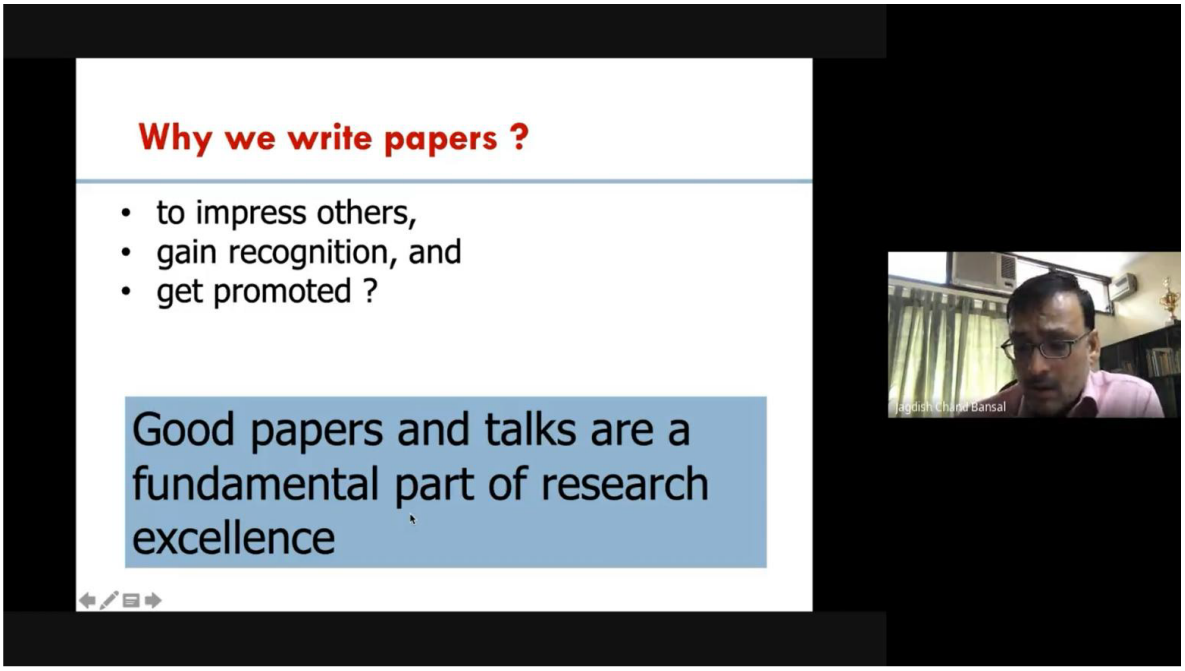
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR



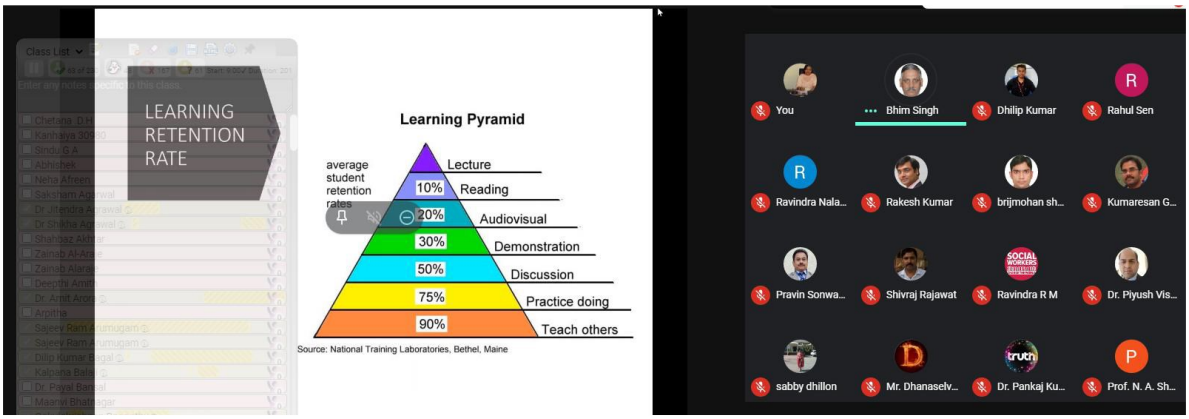




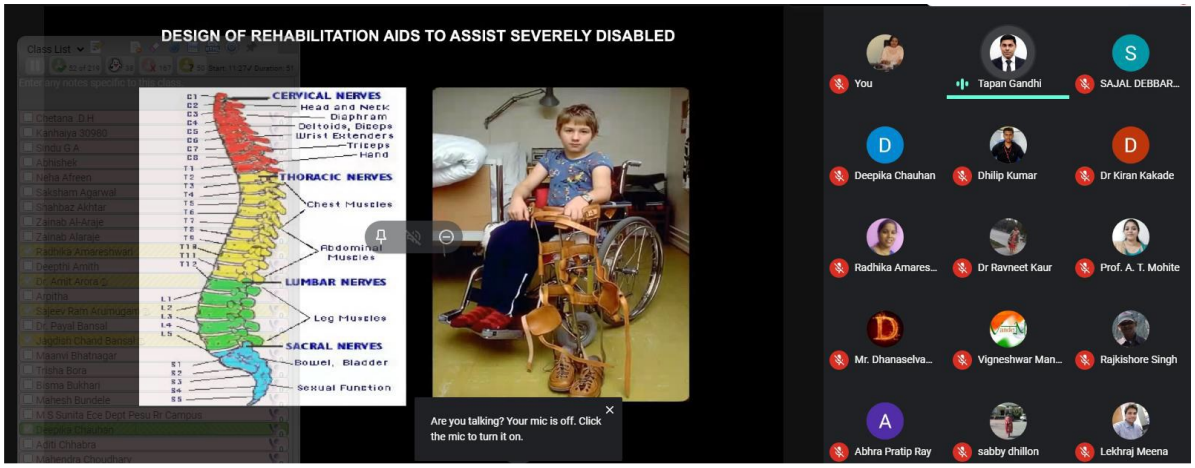
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR







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



- **FEEDBACK FORMS:**

AICTE-AQIS Sponsored Online Short Term Training Program (STTP) on "Developing R&D culture in Educational Institutes through Project Based learning" from December 14- 19-24, 2020

QUIZ

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Short answer text

Name (in BLOCK LETTERS)

Short answer text

Name (in BLOCK LETTERS)

Short answer text

Designation

Short answer text

Department

Short answer text

College/Organization

Short answer text

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

Mobile Number

Short answer text

Whether the participant Institution is approved by AICTE? *

- Option 1

Whether the participant Institution is approved by AICTE? *

- Option 1

Ethics is the set of principles and guidelines that help us to uphold the things we value? *

- a) True
- b)False

Which of the following is necessary for obtaining informed consent? *

- a) A description of the statistical analyses that will be carried out
- b) A description of the purpose of the research
- c) A description of the reliability and validity of test instruments
- d) A list of publications that the researcher has had in the last ten years

Which of the following need(s) to be obtained when doing research with children? *

- Informed consent from the parent or guardian
- Assent from the child if he or she is capable
- Informed consent from the child
- Both a and b

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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Which of the following is right about the use of deception in research? *

- a) It should never be used
- b) It can be used anytime
- c) If there is deception in a study, the participants may need to be debriefed
- d) The use of deception must be outweighed by other benefits of the study
- e) Both c and d are true

Which of the following generally cannot be done in qualitative studies conducted in the field? *

- a) Getting informed consent
- b) Keeping participants from physical harm
- c) Maintaining consent forms
- d) Having full anonymity rather than just confidentiality

Questions Responses 51 Total points: 3

Which of the following is not an ethical guideline for conducting research with humans? *

- a) Getting informed consent of the participant
- b) Telling participants they must continue until the study has been completed
- c) Keeping participants' identity anonymous
- d) Telling participants they are free to withdraw at any time

_____ means that the participant's identity, although known to the researcher, is not revealed to anyone outside of the researcher and his or her staff? *

- a) Anonymity
- b) Confidentiality

_____ means that the participant's identity, although known to the researcher, is not revealed to anyone outside of the researcher and his or her staff? *

- a) Anonymity

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

SAMPLE CERTIFICATE:



LIST OF PARTICIPANTS:

S. No	Name (in BLOCK LETTERS)	College/Organization
1	Atul Barve	Oriental Institute of Science and Technology Bhopal
2	BOPPURU RUDRA PRATHAP	Christ(Deemed to be University)
3	MAKARAND UPADHYAYA	University of Bahrain
4	HARSHAVARDHAN VIJAY KULKARNI	Acharya Institute of Technology Bengaluru
5	Dr.Geetha.K.	Dr.M.G.R. Educational and Research Institute
6	MADHAV SHARMA	VIT
7	Dr P RIZWAN AHMED	Mazharul Uloom College Ambur
8	sandeep kumar	Shreenathji institute of technology Nathdwara
9	KANIMOZHI S	MARUDHAR KESARI JAIN COLLEGE FOR WOMEN
10	POOJA M K	Govt college for women's (autonomous) mandya
11	DR. AFZAL HUSSAIN	MANIT BHOPAL
12	SOURABH JAIN	Anand International College of Engineering
13	MANKESHVA SAINI	Government Engineering College Jhalawar
14	Mr. ASHFAQ HUSSAIN	RAJASTHAN TECHNICAL UNIVERSITY, KOTA
15	Shilpa Sree R	Vijayanagara Sri Krishnadevaraya University. Ballari
16	GURUNANDAN P.H	Sri Siddhartha Institute Of technology
17	Sathishkumar K	RVS Technical Campus Coimbatore
18	MR.M.SARAVANAN	AMET UNIVERSITY
19	SARITA AGARWAL	Govt Women Polytechnic College Gandhi Nagar Jaipur
20	SHOBHA T	The Oxford College of Engineering
21	Nishi	Sharda University

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

22	Dr Mohammed Abid Ali	PSCMR College of Engg&Tech
23	PANKAJ BHAMBRI	Guru Nanak Dev Engineering College Ludhiana
24	SACHIN PRABHAKAR BADGUJAR	R. C. Patel Institute of Technology Shirpur
25	DR. MADHURI MULAY	A.P. Shah institute of technology,Thane
26	JYOTHY G VIJAYAN	M. S ramaiah university of applied sciences
27	MANOHARAN	RVS technical campus, coimbatore
28	Dr.Uma Raman.M	St.Peter's Institute of Higher Education and Research
29	Dr. A. DEVENDRAN	Dr. M. G. R. Educational and Research Institute
30	Dr. Mamoj Kumar Gupta	Chandigarh Engineering College Mohali
31	Dr.G.S.JAYESH	Government Arts and Science College
32	Dr.R.Ramarajan	Thiruthangal nadar college
33	DEEKSHITH KUMAR	Government First Grade College Bettampady
34	AMIT KUMAR	JNV Shimla, NVS, Minitry of Education, Govt of India
35	Dr. Naveen Kumar Sharma	Engineering College Bikaner
36	P.NIRUPAMA	Vemu Institute Of Technology
37	Tarun Kumar Prajapat	Engineering college bikaner
38	ANIL KUMAR CHINTA	DHANEKULA INSTITUTE OF ENGINEERING AND TECHNOLOGY
39	HARSHIT LOHAR	POORNIMA COLLEGE OF ENGINEERING
40	JONNALA SUBBA REDDY	Lakireddy Bali Reddy College of Engineering, Mylavaram
41	Nasim Khan	MEWAT Engineering College
42	SUGUMARI VALLINAYAGAM	KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY
43	SNEHLATA MISHRA	SAGE University,Indore
44	SANJEEV JAIN	Engineering College Bikaner
45	Rachana Raghuwanshi	Sage University
46	ANURAG KAR	Jis school of polytechnic
47	Hemant Kumar Gupta	SAGE University Indore
48	DR. MOTI LAL RINAWA	Government Engineering College Jhalawar Rajasthan
49	Ms Sultana	Mewat Engineering College
50	DR. GAURAV BISSA	Govt. Engineering College Bikaner
51	Dr.MANIKANDAN J	Sri Sairam Engineering College
52	G. RAJESH BABU	Nanjil Catholic College of arts and science
53	Mubeen Ahmed khan	SIRT, SAGE University
54	Er. SHARATH K N	BHARAT ELECTRONICS LIMITED
55	Sriilalit narayana Chintalapati	METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY
56	Dr.S.Vinoth Kumar	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
57	KARTAR SINGH	T.R Abhilashi Memorial Institute of Engineering & Technology,Tanda
58	A.ARUN KUMAR	MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY
59	DR K KAVITA	Bvrithyderabad College Of Engineering For Women
60	Dr Deepa s	Kingston engineering college
61	RAMESH N	Adhiparasakthi college of Engineering
62	M.N.P.TEJESWARI	S.P.W.POLYTEHNIC T.T.D TIRUPATHI
63	RAMASHIS BANERJEE	NIT Silchar
64	Dr.VIJI S	NA
65	Dr S Srinivasulu Raju	Velagapudi Ramakrishna Siddhartha Engineering College
66	DR. S. RAJESH KUMAR	Kongunadu arts and science College
67	Dr. AKHILESH CHANDRA	PS MAKHDOOMPUR KHUR
68	Suresh Penagaluru	Sv college of engineering, Tirupati

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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69	Dr. Anupama	Govt. Girls College, Jhunjhunu
70	KULDEEPAK	Rayat Bahra institute of Engineering and Nano Technology Hoshiarpur
71	ATI JAIN	Sage University
72	C.HEMA	B.S.Abdur Rahman Crescent Institute of Science and Technology
73	JAIPAL DHOBALE	IBS
74	SWAPNIL M PARIKH	Babaria Institute of Technology
75	PAMARTHY CHENNARAO	Sri Sarathi institute of engineering and technology
76	PRAKASH C	JCT COLLEGE OF ENGINEERING AND TECHNOLOGY
77	Dr. Nirbhay Chaubey	Ganpat University
78	Mr.C.NATESAMURTHI	Bharathidasan Engineering College, Nattrampalli, Tirupattur Dt.
79	Dr A p Chandra rao	St Ann's college of engineering and technology
80	K.SRIVIDHYA	Sri Venkateswara college of Engineering
81	SUSHANTA KUMAR PRADHAN	Radhakrishna Institute of Technology and Engineering, Bhubaneswar
82	H. JOSEPH PRABHAKAR WILLIAMS	SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD - 501510, TELANGANA STATE
83	KALYANI TIWARI	SAGE university
84	N.SRIDHAR	Madanapalli Institute of Technology and Science
85	Ajay Parikh	Gujarat Vidyapith
86	K. RAJ THILAK	SRI ESHWAR COLLEGE OF ENGINEERING
87	Dr. S. SADHIK	Achary Nagarjuna University
88	SYLVESTER A. A SOWA	FAITH COMMUNITY NURSING TRAINING INSTITUTE
89	PANKAJ BEHERA	GOVERNMENT COLLEGE OF ENGINEERING KALAHANDI,BHAWANIPATNA
90	RAJA PAGALAVAN B	P.T.Lee Chengalvaraya Naicker College of Engineering and Technology
91	DR D VIJAY KUMAR	Aditya Institute of Techonolgy and Management
92	Chintala Venkatesh	Mohamed Sathak A J College of Engineering, Chennai
93	MATHU KRITHIGHA L	KUMARARANI MEENA MUTHIAH COLLEGE
94	Dr. Sumathi M.R.	SRI KANYAKA PARAMESWARI ARTS & SCIENCE COLLEGE FOR WOMEN
95	Mafidur Rahman	Jorhat Engineering college
96	Swetha K B	RRIT
97	B.SURESH ASHWIN KUMAR	KIT-KALAIGNRKARUNANIDHI INSTITUTE OF TECHNOLOGY
98	DR.J.VENUGOPAL	KNR COLLEGE OF ENGINEERING AND RESEARCH BRILLIANT GROUP JNTU HYDERABAD
99	SAVITHRI T B	R R college of pharmacy
100	PREMSAGAR H	R R Institute of Technology
101	SUNANDA C V	RRIT
102	Dr.G.NIRMALA	Sri Kanyaka Parameswari Arts and Science College for Women
103	SANTHIYA. S	SRI KANYAGA PARAMESWARI ARTS AND SCIENCE COLLEGE FOR WOMEN
104	Dr. Sanjeev Kumar Sharma	Mewar University Chittorgarh Rajasthan
105	SOWMIYA S	Sri kanyaka parameshwari arts and science college for womens
106	RAVISURAJ SHASHIKANT	A G Patil Institute of Technology, Solapur

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

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108	Veeresh Babu M	RR institutions
109	KALYANI RAMESH MAMDYAL	A. G. Patil Institute of Technology
110	SYED NIZAMUDDIN	RR COLLEGE OF PHARMACY
111	Charvi Hatwal	Delhi pharmaceutical sciences and research university
112	RUPESH BABASO FONDE	Nanasaheb Mahadik College of Engineering,Peth
113	MAHESH PRAKASH KUMBHARE	Anantrao Pawar College of Engineering and Research Pune
114	SATHIYAPRIYA.M	Adhiparasakthi Engineering college
115	PRAJNA	RR Institutions, Chikkabanavara
116	Dr. S. RAJESHKUMAR	Kongunadu Arts and Science College
117	KRISHNA NAND RASTOGI	The Maharaja Sayajirao University of Baroda
118	MOULINATHAN T	KONGU ENGINEERING COLLEGE
119	Dr. A. Sudha Ramkumar	Sri Kanyaka Parameswari Arts and Science College for Women
120	Dr. Sudershan B Gadwal	A. G. Patil Institute of Technology
121	Achole pandurang bapurao	Azad Mahavidyalaya Ausa Dist lature
122	VEDULA . PADMAVATHI	A. Patil Institute of Technology
123	RAMIREDDY DEVARAPALLI	Mahatma Gandhi Law College, O.U, Hyderabad.
124	R. KIRANMAYI	JNTUA CEA
125	HARIPRASAD S	Government First Grade College, Bettampady
126	PRADEEP KUMAR MISHRA	Oriental Institute of Science and Technology, Bhopal
127	Ushasree R	The oxford college of engineering
128	SHALINI AGRAWAL	Birla Institute of Technology MESRA
129	Dr.SUMA SREEDHAR	AP Shah Institute of Technology
130	Dr. KUMAR GANESAN	University of Hong Kong
131	DEVENDER KUMAR DHAKED	RAJASTHAN COLLEGE OF ENGINEERING FOR WOMEN
132	DR. DEEPALI UBALE	PES Modern College of Engineering, MBA dept
133	RAJENDR DINKAR PATIL	SES R C Patel Institute of Technology Shirpur
134	Kishalay Raj	BIRLA INSTITUTE OF TECHNOLOGY MESRA RANCHI
135	PRAVEEN GUPTA	Poornima Institute of Engineering and Technology
136	SHIVANI SHARMA	Poornima university
137	AMRESH KUMAR SARAFF	Samrat Ashok technologycal Institute, Vidisha
138	SELVAKUMAR.G	AUTISAM AND BEYOND
139	Dr. G. SHARMILA BANU	N. K. R. Government Arts College For Women Namakkal
140	Dr. Datrika Venkata Madhusudan Rao	Jain University
141	RAVINDRA D NALAWADE	AISSMS COE PUNE
142	SATYAJIT DESHMUKH	LoGMIEER, Nashik
143	VIVEK ARYA	FET, Gurukul Kangri (Deemed to be University) Haridwar
144	PANKAJ KUMAR MEHTA	SANGAM UNIVERSITY
145	ASHISH KASHYAP	Deshbandhu college, University of Delhi
146	Dr.Viswanathan Palanisamy	Sri Ramakrishna Mission Vidyalaya College Of Arts And Science
147	KAPIL PANDYA	RK UNIVERSITY
148	AVINASH MARWAL	Mohanlal Sukhadia University
149	MONIKA THAKUR	Rayat Bahra Institute of Engineering and Nanotechnology
150	DR. K.KALAIARASI	Cauverycollege for women autonomous

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

151	DR KIRAN SREE POKKULURI	SVECW
152	SUNIL KUMAR	Shri Bhawani Niketan Institute of Technology & Management
153	M.PRIYADARSHINI	Sri kanyaka parameshwari arts and science college for women
154	Dr. SANTHOSH N	MVJ COLLEGE OF ENGINEERING
155	PALLAVI PUSHP	IET, Bundelkhand University, Jhansi, UP
156	CHETAN JAIPRAKASH CHITTE	R. C. Patel Institute of Technology, Shirpur-425405, Dist. Dhule, Maharshtra India
157	BHAWNA SAHJWANI	Sant Hirdaram Institute of Management
158	Dr.V.Sudha	Sri Kanyaka Parameswari Arts and Science College for Women
159	Dr.C.VIJAI	st.peters institute of Higher Education and Research
160	SONAL CHAUDHARY	Banasthali vidyapith
161	S.KANNADHASAN	CHERAN COLLEGE OF ENGINEERING
162	Dr. KALI CHARAN RATH	GIET UNIVERSITY,GUNUPUR,ODISHA
163	SATISH OMPRAKASH RATHI	Shree Ramchandra College of Engineering Lonikand Pune
164	POORNIMA. E	Sri kanyaka Parameshwari Arts and science College for women
165	Dr. Gaurav Jain	Poornima College of Engineering Jaipur
166	PALLAVI S.CHAKOLE	Yeshwantrao chavan college of engineering
167	YAKUB HAMID KHAN	AI Kalsekar Technical Campus New Panvel
168	Dr Seema Garg	Amity University
169	ADNAN IQBAL SHAIKH	Anjuman-I-Islam's A.R Kalsekar Polytechnic Panvel
170	JAYSHREE PATIL	AIKTC School of Pharmacy
171	Dr.JANARDHANA RAO NIDAMALURI	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY
172	AJAZ AHMAD KUTUB ALI SAYED	AIKTC School of Pharmacy
173	MUNAWAR RAEES QURAISHI	A.R.Kalsekar Polytechnic
174	DR. RAJESH GUPTA	Rajiv Gandhi Proudyogiki Vishwavidyalaya
175	Dr R VELMURUGAN	Karpagam Academy of Higher Education, Coimbatore
176	N. VARA PRASAD	CBIT
177	DIVYASHREE NAYAK	The Oxford college of engineering
178	SATYABRATA JENA	SRI JAYADEV COLLEGE OF PHARMACEUTICAL SCIENCES,BHUBANESWAR
179	JAGADEESH A	MVJCE
180	DR. PRAVIN PRAKASH ADIVAREKAR	A.P.SHAH. Institute of Technology, Thane, Maharashtra
181	R MUNWAR BASHA	Gurunanak Institute of Technology
182	Nagendra Akula	St.Peters Engineering College
183	Krishna Prasad R	MVJ College of Engineering
184	KIRAN S M	MVJ College of Engineering
185	Dr. RAJESH BHATT	University Departments, Rajasthan Technical University, Kota
186	MUKHTAR ANSARI	AIKTC
187	HIREN KATHIRIYA	RK University
188	MOHAN KUMAR K	MVJ COLLEGE OF ENGINEERING, BANGALORE
189	MRIDULA SHUKLA	The Oxford College of Engineering
190	ASHOK B P	The oxford college of engineering
191	Dr. SENTHIL KUMAR R	The Oxford College of Engineering
192	SREEVANI TAPILA	The Oxford college of Engineering
193	TRUPTI DEEPAK MASLEKAR	A. G. PATIL INSTITUTE OF TECHNOLOGY, SOLAPUR.
194	ADTE RUQAIYYA BANO AFZAL	A. G. Patil Institute of Technology, Solapur
195	LIGADE ANIL SANGAPPA	A.G. PATIL INSTITUTE OF TECHNOLOGY, SOLAPUR.

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

196	POOJA KUMAWAT	GOVT. PG COLLEGE JHUNJHUNU (RAJASTHAN)
197	VIVEK MEGHRAJ BHOGADE	A. G. Patil Institute of Technology, Solapur.
198	SANGAMNATH V.UPPIN	Vel Tech University, Chennai
199	BRIJRAJ SINGH SOLANKI	Poornima College of Engineering, Jaipur
200	N.Shanmuga 3	RVS college of Engineering and Technology
201	SHAIKH ABDUL SALAM	AIKTC
202	RAVINDRA MARUTI DESAI	Sanjay Ghodawat University, Atigre, Kolhapur
203	G JEGAN	Sathyabama Institute of science and technology
204	Achutha JC	The Oxford College of Engineering
205	HARSHAL MADHUKAR WARADE	Yeshwantrao Chavan College of Engineering Nagpur
206	SURBHI MISHRA	Geetanjali Institute of Technical Studies
207	D.Jamunaranu	Sathyabama institute of science and Technology
208	NAGARE SHRIKANT UTTAM	LoGMIEER, Nashik
209	SHRISHAIL BIRAJDAR	AG Patil Institute of Technology, Solapur
210	T.THAJ MARY DELSY	Sathyabama Institute of Science and Technology Deemed to be University
211	PANDIAN R	sathyabama institute of science and technologu
212	ANKIT PANDYA	RK University
213	SHRIPAD BAJIRAO KORE	Sgu, Kolhapur
214	DEEPIKA LINGANABOINA	GURUNANAK INSTITUTE OF TECHNOLOGY
215	Prof.Dr.Chetan Khemraj	Sri Balaji college of engineering and technology Jaipur
216	PARTHA SARATHI PADHY	Roland Institute of Technology Odisha
217	Dr. SONALI SHANKAR GAIKWAD	Shri Shivaji Science and Arts College, Chikhli
218	MRS. RUPALI PRATIK KHADTAR	Anjuman-I-Islam's Abdul Razzak Kalsekar Polytechnic
219	V.AMALA RANI	Sathyabama Institute of Science and Technology
220	DHANASELVAM.J	Sri Krishna College of Technology
221	DR. JYOTI SINGH RAGHAV	Mewar University
222	CHITRA K	Muthayammal college of arts and science
223	PARVEEN RATHI	Vaish college of engineering
224	D.SUJATHA	St Ann's College for women
225	SUSHMA T SHANBHOGUE	The Oxford College of Engineering
226	K.DHARAGESHWARI	Mohamed Sathak AJ college of Engineering
227	Mr. RANJIT ARJUN KATKAR	AGTI's Dr. DAULATRAO AHER COLLEGE OF ENGINEERING, KARAD.
228	ANAND M GUJARATI	RK University
229	JAYABASKARAN G	KIT-Kalaignarkarunanidhi Institute of Technology,Coimbatore
230	MOHAMMAD RASHID	A I ABDUL RAZZAK KALSEKAR POLYTECHNIC PANVEL
231	R Harish	Sri Shakthi Instite of Engineering and Technology
232	ABIRAMI R	Mohammed sathak A. J. College of Engineering
233	J. DILLI SRINIVASAN	SRM Institute of Science and Technology
234	S.CHANDRAKALA	KIT-KALAIGNARKARUNANIDHI INSTITUTE OF TECHNOLOGY
235	J. AJAY DANIEL	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
236	UNNATI AGARWAL	Lovely professional University
237	Dr. CHANDRESH KUMAR CHHATLANI	JRN Rajasthan Vidyapeeth
238	Dr S Muniraju	Govt. Sri Krishnarajendra Silver Jubilee

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Director
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		Technological Institute
239	SHREYA.C.S	Government engineering college,Hassan
240	Dr. KIRAN SHRIMANT KAKADE	Guru Nanak Institute of Management Studies, Mumbai
241	Dr RAJASHEKHARA S	Siddaganga Institute of Technology
242	RAJALAKSHMI G	Sathyabama Institute of Science & Technology
243	JAGADEESH MANJULA	JNTUA
244	RAHUL BHANUBHAI CHAUHAN	Parul Institute of Business Administration
245	Dr Raghavendra N	BNM Institute of Technology
246	Dr.HIMACHALAPATHY.R	ST. JOSEPHâ€™S COLLEGE OF COMMERCE (AUTONOMOUS), BANGALORE
247	CH MOHAMMAD AKRAM	S.R.K. Institute of Technology
248	DR ARUNA KUMARI NAKKELLA	College of Engineering, Dr BR Ambedkar University, Srikakulam
249	Dr.Sushil Kumar	Amity University,Jaipur
250	NITIN JAYAKUMAR	School of Engineering, RK University
251	SANTHOSHA C	Presidency University
252	Deepa Modi	SKIT
253	MAYUR DANABHAI GADHADARA	GUJARAT TECHNOLOGICAL UNIVERSITY
254	ALPNA SHARMA	VIPS
255	DR.NIKHAT FARHANA	ANJUMAN-I-ISLAM KALSEKAR TECHNICAL CAMPUS
256	DR.PINKIBEN JAYRAMDAS NENWANI	C P PATEL &F H SHAH COMMERCE COLLEGE,ANAND
257	AMIT KUMAR JAIN	Poornima College of Engineering
258	DR. CHARANJEET MADAN	Hindu College of Engineering, Sonepat
259	Florance G	The oxford college of engineering
260	DR VISHAL JAIN	Geetanjali Institute of Technical Studies Udaipur
261	AMIT SHRIVASTAVA	POORNIMA UNIVERSITY
262	HARSHIT BHAVSAR	Sal College of Engineering
263	Dr.RADHA CHAUDHARY	GEETANJLAI COLLEGE OF SCIENCE &COMMERCE
264	SYED NIZAMUDDIN	RR COLLEGE OF PHARMACY
265	GEETANJALI ROHAN KALME	APSIT
266	Dr Munshi Yadav	GTBIT
267	Dr. D. HEENA COWSAR	Bon Secours College for Women
268	Dr.C.Saffina	Bon secours College for women Thanjavur
269	Dr. A. MEHATHAB SHERIFF	Jamal Mohamed College (Autonomous), Trichy
270	G.REKA	Jamal Mohamed College (Autonomous) , Trichy-20
271	S. DHILSHATHUNNISA	Jamal Mohamed College
272	Amandeep Singh	GGI
273	N.G.Sowmya	Kingston Engineering College

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

Report on 6-days Short Term Training Program

- **TITLE AND DURATION:** "Artificial Intelligence & 5G Communication Technology" from December 07-12, 2020.
- **SPONSORS:** AICTE Quality Improvement Scheme (AQIS)
- **SUPPORTERS:** Nil.
- **ORGANIZERS:** Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.
- **OBJECTIVES:** The objective of general AI is to design a system capable of thinking for itself just like humans do. Currently, general AI is still under research, and efforts are being made to develop machines that have enhanced cognitive capabilities.
- **EXPECTED OUTCOMES:**

1. Evaluate the advantages, disadvantages, challenges, and ramifications of human–AI augmentation.
2. Design and develop symbiotic human–AI systems that balance the information processing power of computational systems with human intelligence and decision making.
3. Explain the benefits, limitations, and tradeoffs of designing engaging and ethical conversational user interactions, including those supported by catboats, smart speakers, and other AI-driven, voice-based technologies.
4. Design and evaluate conversational interfaces for different users and contexts of use.

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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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- **BROCHURE / POSTER / LEAFLET / FLYER:**



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

SPEAKERS

Dr. Manoj K. Shukla
Pro-Vice Chancellor, HBT University, Kanpur

Dr. Nikhilesh Kumar
Professor, RTU, Kota (Raj.)

Dr. Prabhakaran
Professor & Head, VIT, Vellore

Dr. S. S. Rajput
Associate Professor, IIT, Varanasi

Dr. Sanjeev Kumar Raghuwanshi
Associate Professor, IIT (Dhanbad), Jharkhand

Dr. Aniruddha Chandra
Associate Professor, NIT Durgapur

Dr. Harish Sharma
Associate Professor, RTU, Kota (Raj.)

Dr. Jaisingh Thangaraj
Assistant Professor, IIT (Dhanbad), Jharkhand

Dr. Sam Sarabi
Assistant Professor, IIT, Rajpur

Dr. Samrandi Saha
Assistant Professor, NIT Patna

Dr. Surajit Kundu
Assistant Professor, NIT, Silchar

Dr. Kuldeep Singh
Assistant Professor, MNIT, Jaipur

Dr. Shahid Mehraj Shah
Assistant Professor, IIIT, Srinagar

Dr. Kiran Kumar Suvada
Assistant Professor, NIT Andhra Pradesh

Dr. Chayan Bhar
Assistant Professor, NIT Warangal

Dr. Karan Verma
Assistant Professor, NIT, Delhi

Dr. Avinash Agarwal
Assistant Professor, LNMIIT, Jaipur

Mr. Vikas Sharma
Group Manager, Indus Green Energy Practice

REGISTRATION AND FEE PARTICULARS

- Faculty/Research Scholars from Universities/ AICTE recognized institutions are only eligible.
- No Registration Fees
- Last Date of Registration: **December 04, 2020**
- E-Certificates will be provided after successful completion of STTP.
- Registration Link: http://bit.ly/pce-stc20

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of communication such as IITs, NITs, and other premier institutes.

IMPORTANT DATES

Last date for Registration	December 4, 2020
Intimation of selected by mail	December 5, 2020
STTP Duration	December 7-12, 2020

CORRESPONDENCE

Dr. Garima Mathur
Head, Department Electronics & Communication Engineering,
Poornima College of Engineering, Jaipur
(P) : +91-9829000577
e : stc.ece@poornima.org



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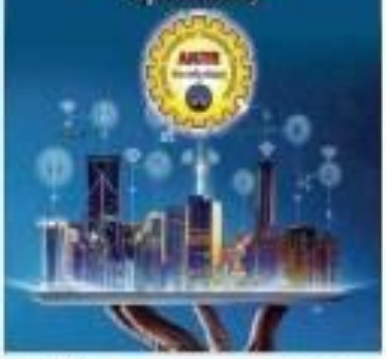
ISI-6, RIICO Institutional Area, Sitapura, Jaipur
www.pce.poornima.org

Six Days Short Term Training Programme (STTP)
under AICTE-ADOS on

Artificial Intelligence and 5G Communication Technology

December 7-12, 2020

Sponsored by



Organized by
Department of
Electronics & Communication Engineering

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POORNIMA COLLEGE OF ENGINEERING



Poornima College of Engineering (PCE), established as a branch of Technical Education in the year 2008, has its own glorious legacy of leading the young engineers to the cherished sky of success. Its accomplishments forecast its journey through the footsteps and its foresight 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 institutions at even Rajasthan with built-up area more than 2.5 lacs square feet
- Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred B.Tech 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 1%(18) lost students & recognized as centre of excellence by BSNL
- An excellent institution building its support in all sectors of education, research and development

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established in year 2002. National Board of Accreditation (NBA) accredited the ECE department in the year 2009, 2014 & 2018 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 Electronics Circuits, VLSI Design, DSP (Digital signal processing), Embedded Systems, Advanced Wireless Communications and Microwaves etc. Research is being carried out in the areas of Antenna Design and Wireless Communication, and VLSI design. The department also has its two south Korea labs: (i) Microwave Engineering lab & (ii) Advance Antenna & Wireless Communication lab (iii) Advancement of Wireless and Optical Fiber Lab supported by MEITY(GOI) Grants of AICTE, New Delhi.

IETE Student Forum (IFS) of the Department has been recognized as Most Active SSF for session 2016-17 by IETE Rajasthan Centre, 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 & Deploy mentoring IBM Bluemix.

ABOUT STTP

The aim of this STTP is to enhance the R research also overlaps with fields such as robotics, control systems, scheduling, data mining, logistics, speech recognition, facial recognition and many others. Upgrading the new era in 5G to handle data from millions more IoT devices and install low-power sensors. 5G is not only important because it has the potential to support millions of devices at unfulfilled speeds, but also because it has the potential to transform the lives of people around the world. Improvements in 5G technology can help make life better.

Course Modules

- Antennas for Communication Technology
- Fiber Optics Based Devices for High Speed Communication Systems
- Time Sensitive Networking (TSN): It's context and standards in Industry 4.0 and 5G
- millimeter wave for 5G communication
- Evolution of Telecommunication towards 5G and Beyond
- Cooperation in IoT: A Multiuser Perspective
- Evolution of 5G Communication Technology from Antenna Engineer's Perspective
- Convolutional Neural Network for Computer Vision
- Artificial Intelligence Based Power Control in 5G Network
- Artificial Intelligence in Cooperative M2MA (5G) Network
- Channel Issue Problems for 5G and Beyond
- Security Issue with Mobile IP
- UAV Relaying Assisted Cooperative 5G Communication
- CRM and Artificial Intelligence

OBJECTIVES OF STTP

- To provide an exposure to the participants regarding current scenario in advanced communication technologies & their applications.
- To provide the knowledge of cutting edge researches and developments carried out/observed by the Eminent Speakers in advance communication domains (from IITs, NITS, other fundamental institutions & industry), for products having immediate industrial applications for self reliance of the Country.

PATRON

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

ADVISORS

Mr. Pankaj Sharma
Vice Principal, Poornima College of Engineering, Jaipur

Dr. Rekha Hiri
Dean, First Year, Poornima College of Engineering, Jaipur

Mr. Devendra Somwanshi
Registrar, Poornima College of Engineering, Jaipur

PROGRAM CHAIR

Dr. Garima Mathur
Head of Department ECE, Poornima College of Engineering

COORDINATORS

Dr. Payal Bansal	**Mr. Tarun Mishra**
Associate Professor,	Assistant Professor
ECE, PCE	ECE, PCE

PCE ORGANIZING COMMITTEE

Dr. Anita Gehlot	Associate Professor, ECE
Mr. Amit Kumar Jain	Assistant Professor, ECE
Mr. Durgesh Kumar	Assistant Professor, ECE
Mr. Manish Sharma	Assistant Professor, ECE
Mr. Manish Kumawat	Assistant Professor, ECE
Mr. Jitendra Gupta	Assistant Professor, ECE

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Sitapura, JAIPUR

- **PROGRAM SCHEDULE:**

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Department of Electronics & Communication Engineering

Third AICTE-AQIS Sponsored STTP on Artificial Intelligence and 5G Communication Technology from December 07-12, 2020

	9:30 AM	10:00 AM-11:30 AM	11:45 AM-01:15 PM	02:00 PM-03:30 PM
Monday (07.12.2020)	**Inaugural Session** **Chief Guest:** Dr. Manoj K. Shukla, Pro Vice Chancellor, Harcourt Butler Technical University, Kanpur & **Guest of Honor:** Mr. Yogesh Bhaskar, General Manager, BSNL, Barmer	**Multiple Access Schemes in 5G Mobile Communication** Dr. Manoj K. Shukla, Pro Vice Chancellor, Harcourt Butler Technical University, Kanpur	**Time Sensitive Networking (TSN): It'S Context & Standards in Industry 4.0 & 5G** Dr. N. S. Rajput, Associate Professor, IIT Varanasi	**Application of Machine Based Technique in the Physcial Layer of Future Wireless Communication System** Dr. Seemanti Saha, Assistant Professor, NIT Patna
Tuesday (08.12.2020)		**Evolution of 5G Communication Technology from Antenna Engineer'S Perspective** Dr. Surajit Kundu, Assistant Professor, NIT Sikkim	**Evolution of Telecommunication Towards 5G & Beyond** Dr. Jaisingh Thangaraj, Assistant Professor, IIT Dhanbad	**CRM & Artificial Intelligence** Vikas Sharma, Salesforce Scrum Master, Horizontal Digital
Wednesday (09.12.2020)		**Convolutional Neural Network for Computer Vision** Dr. Kuldeep Singh, Assistant Professor, MNIT Jaipur	**Artificial Intelligence Based Power Control in B5G Network** Dr.Shahid Mehraj Shah, Assistant Professor, NIT Srinagar	**mm Wave for Vehicular Communication** Dr. Aniruddha Chandra, Associate Professor, NIT Durgapur
Thursday (10.12.2020)		**Artificial Intelligence in Cooperative Noma (5G) Network** Dr.Kiran Kumar Gurrala, Assistant Professor, NIT Andhra Pradesh	**Drone Base Stations for 5G & Beyond** Dr. Chayan Bhar, Assistant Professor, NIT Warangal	**Cooperation in IoT: A Multi-User Perspective** Dr. Sam Darshi, Assistant Professor, IIT Ropar
Friday (11.12.2020)		**Cellular Traffic Prediction Using Deep Learning** Dr.P.Prakasam, Professor & Head, VIT Vellor	**Security Issue With Mobile IP** Dr. Karan Verma, Assistant Professor, NIT Delhi	**Fiber Optics Based Devices for High Speed Communication Systems** Dr. Sanjeev Kumar Raghuwanshi, Associate Professor, IIT Dhanbad
Saturday (12.12.2020)		**Antennas for Communication Technology** Dr. Mithilesh Kumar, Professor, RTU Kota	**UAV Relaying Assisted Cooperative 5G Communication** Dr. Anirudh Agarwal, Assistant Professor, LNMIIT Jaipur	**Advances in Spider Monkey Optimization Algorithm** Dr. Harish Sharma, Associate Professor, RTU Kota

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B.E., M.E., Ph.D.
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INAUGURAL SESSION:

SHORT TERM TRAINING PROGRAM

On

Artificial Intelligence & 5G Communication Technology

December 7-12, 2020

Sponsored by AICTE Quality Improvement Scheme (AQIS)

Organized by Department of Electronics & Communication Engineering,

Poornima College of Engineering, Jaipur

Date: December 7, 2020 **Time: 09:30 – 10:05 AM**

Venue: Online (https://meet.google.com/eaf-ufri-utt)

Q- Sheet Inaugural Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of STTP by **Dr. Garima Mathur,** Head & Professor ECE, PCE • **Dr. Manoj K. Shukla** Pro Vice Chancellor Harcourt Butler Technical University, Kanpur **(Chief Guest)** • **Mr. Yogesh Bhasker,** General Manager, BSNL, Barmer **(Guest of Honor)** • **Ar. Rahul Singhi**, Director, Poornima Group • **Dr. Mahesh Bundele,** Director & Principal, PCE • **Mr. Pankaj Dhemla,** Vice Principal, PCE	03 Min	09:30 AM-09:33 AM
2.	Welcome address by **Dr. Mahesh Bundele**, Director & Principal, PCE	05 Min	09:33 AM-09:38 AM
3.	Motivational Words by **Ar. Rahul Singhi,** Director, Poornima Group	05 Min	09:38 AM-09:43 AM
4.	Address by **Guest of Honor Mr. Yogesh Bhasker (General Manager, BSNL), Barmer**	10 Min	09:43 AM-09:53 AM
5.	Inaugural Address by **Dr. Manoj K. Shukla** Pro Vice Chancellor Harcourt Butler Technical University, Kanpur **(Chief Guest)**	10 Min	09:53 AM-10:03 AM
6.	Vote of Thanks by **Dr. Payal Bansal**, Associate Prof., ECE, PCE	02 Min	10:03 AM-10:05 AM

DETAILS OF RESOURCE PERSONS:

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Department of Electronics & Communication Engineering

Third AICTE-AQIS Sponsored STTP on Artificial Intelligence and 5G Communication Technology from December 07-12, 2020

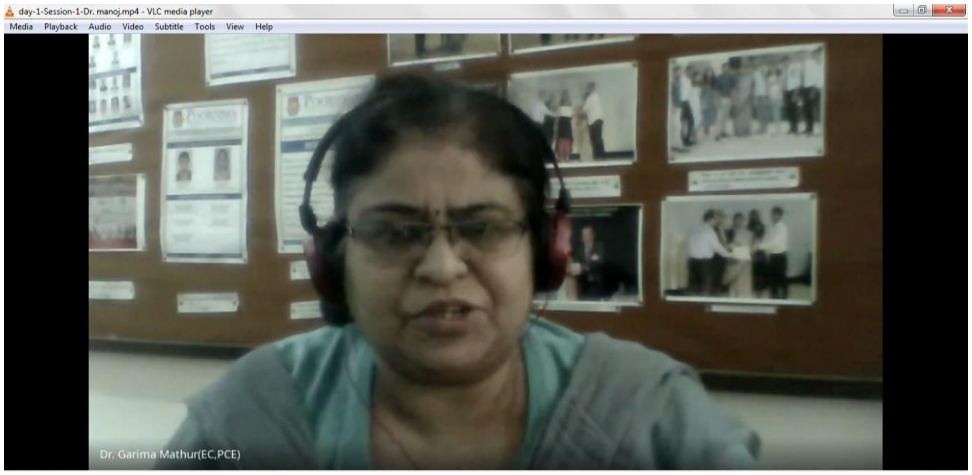
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B.E., M.E., Ph.D.
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Day 1: 7 December 2020:

Inaugural session witnessed the presence of Chief Guest Prof, Dr. Manoj K. Shukla, Pro Vice Chancellor Harcourt Butler Technical University Kanpur, Guest of honour Mr. Yogesh Bhasker. General manager BSNL Barmer ,Dr. Mahesh Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur convenor of STTP & Dr. Payal Bansal Coordinator of STTP, PCE, participants along with the faculty members. The event started with the online inaugural ceremoney in presence of chief guest, Guest of honour, Dr. Mahesh Bundele, Director PCE. Dr Garima Mathur addressed the participants about the STTP & 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 Artificial Intelligence. Dr. Mnaoj addressed the gathering with his knowledgeable words,& then after Mr. Yogesh updated the participants about the new technologies to be on work.In last the inaugural session concluded by vote of thanks delivered by Dr. Payal Bansal (coordinator of STTP).

Glimpsics of Inaugural session





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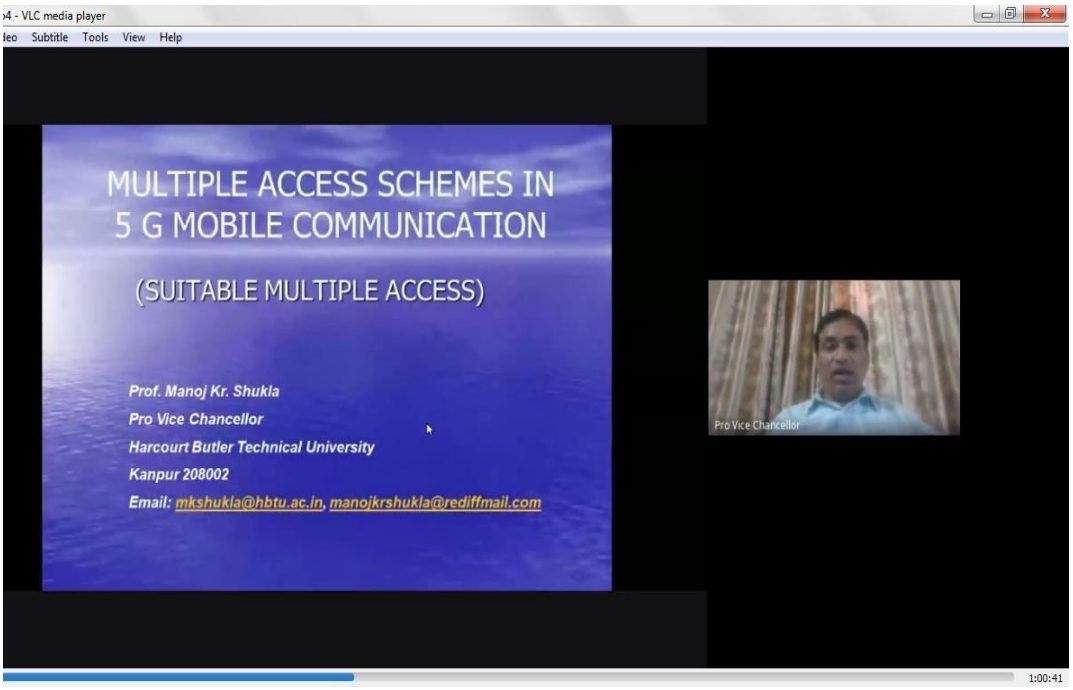
Expert Talk-1

Topic: Multiple Access Schemes In 5 G Mobile Communication

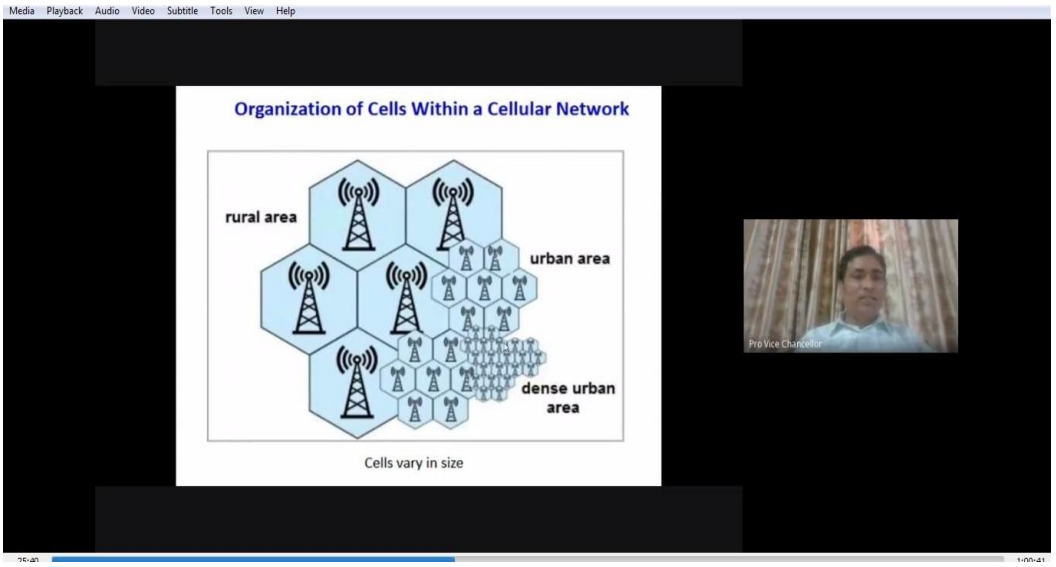
Resource Person: Dr. Manoj K. Shukla, Pro Vice Chancellor

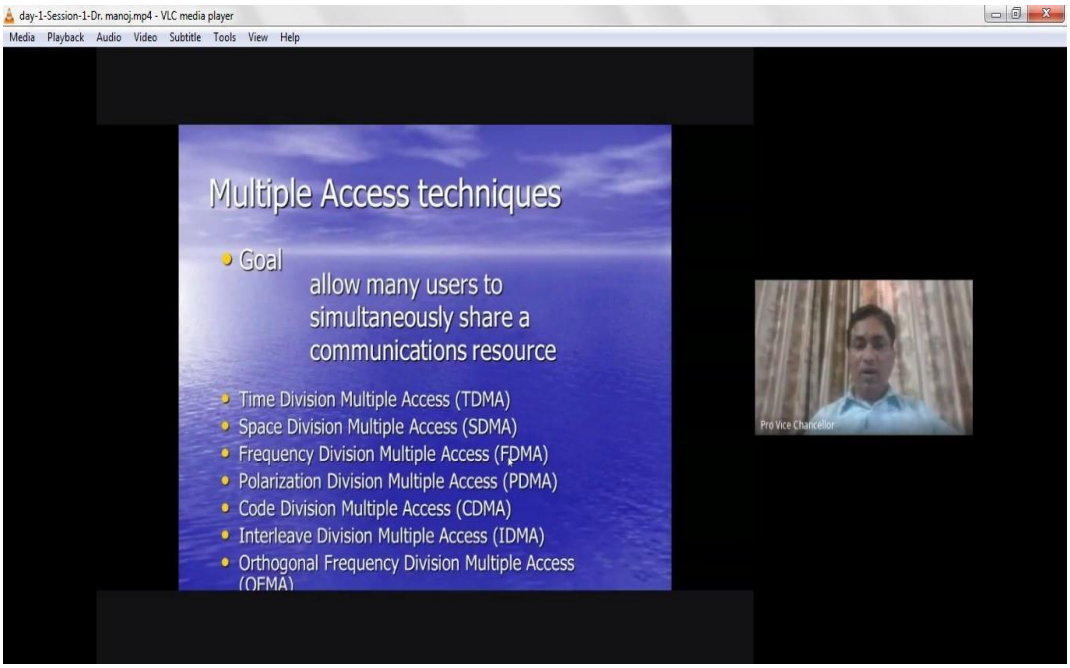
Venue: Online Via Google Meet

Dr. Manoj K. Shukla, Pro Vice Chancellor Delivered his talk on **Multiple Access Schemes In 5 G Mobile Communication**. He told us about the current radio, its applications etc. He also update about the new unique features bring some new challenges in the design of the new Trans receivers with 5G Communication. Also brief about the security aspects of the 5G & its BW, Its advantages, its speed etc.



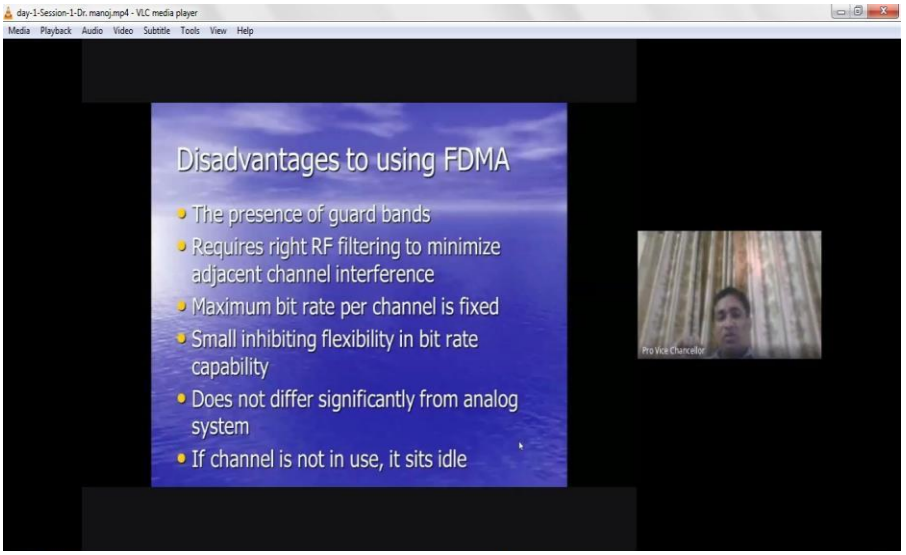
Dr. Mahesh Bundele
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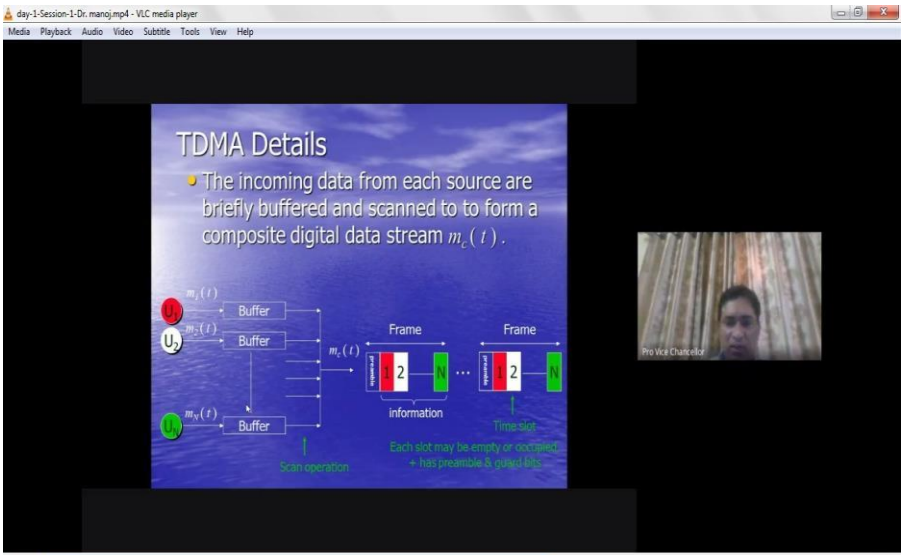




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B.E., M.E., Ph.D.
Director
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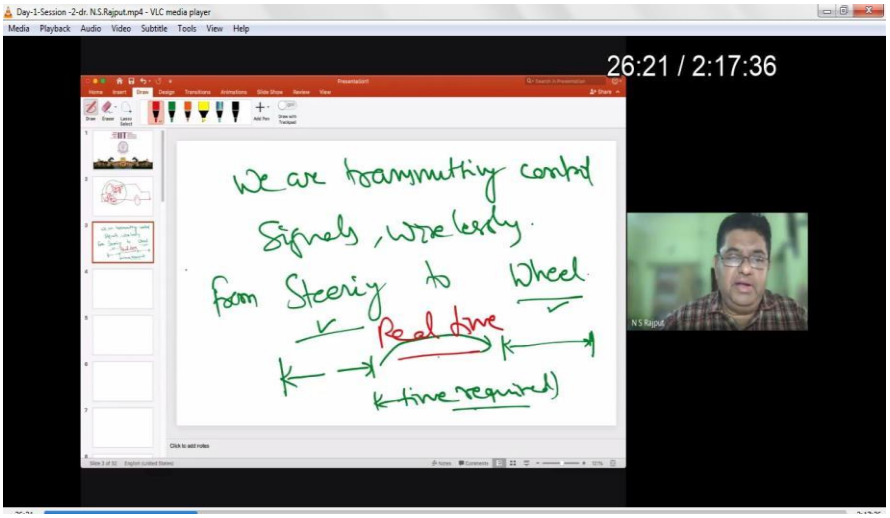
Expert Talk-2

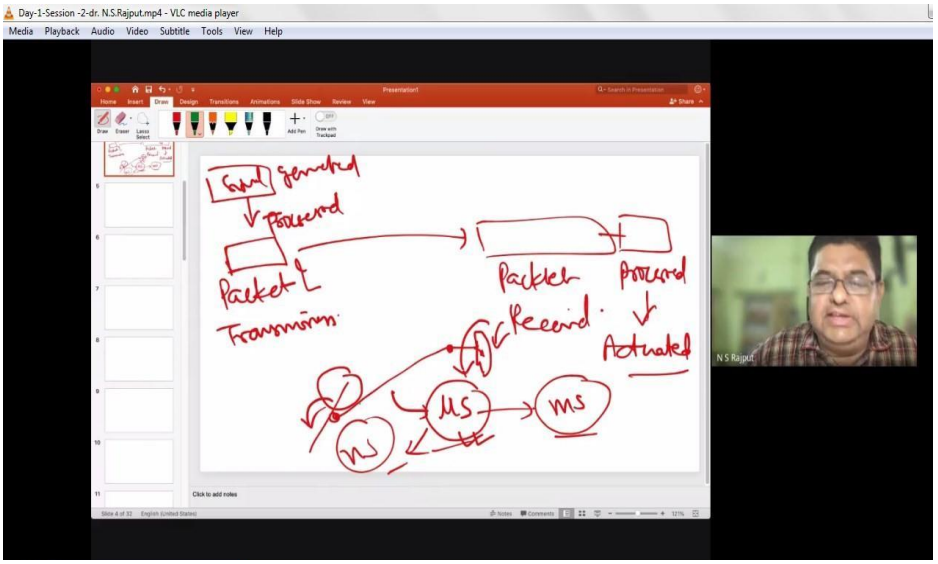
Topic: Time Sensitive Networking (Tsn): It'S Context and Standards in Industry 4.0 And 5G

Resource Person: Dr. N. S. Rajput, Associate Professor

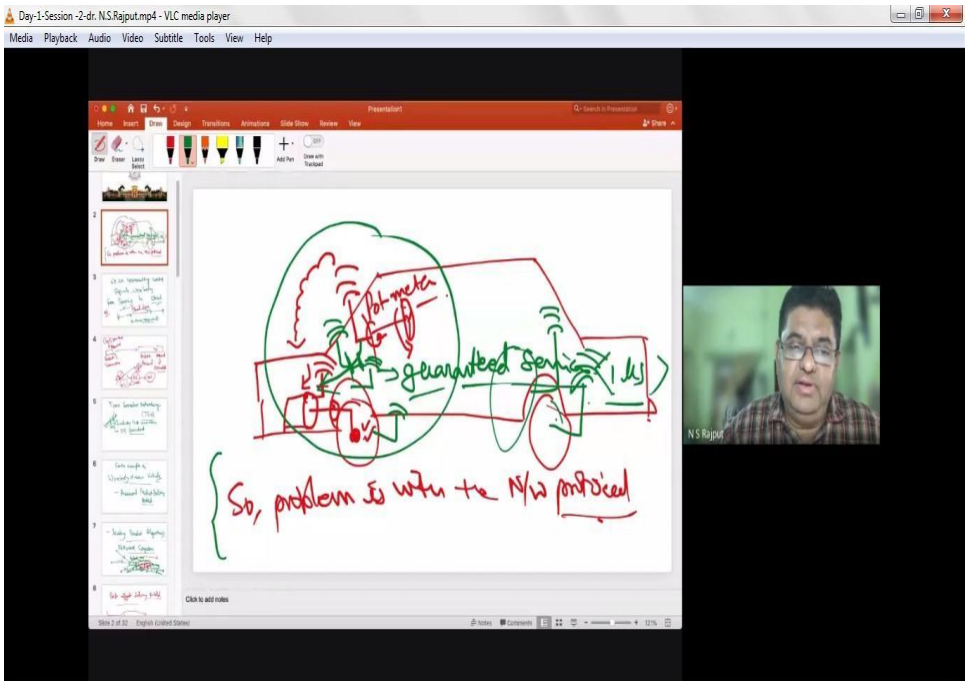
Venue: online

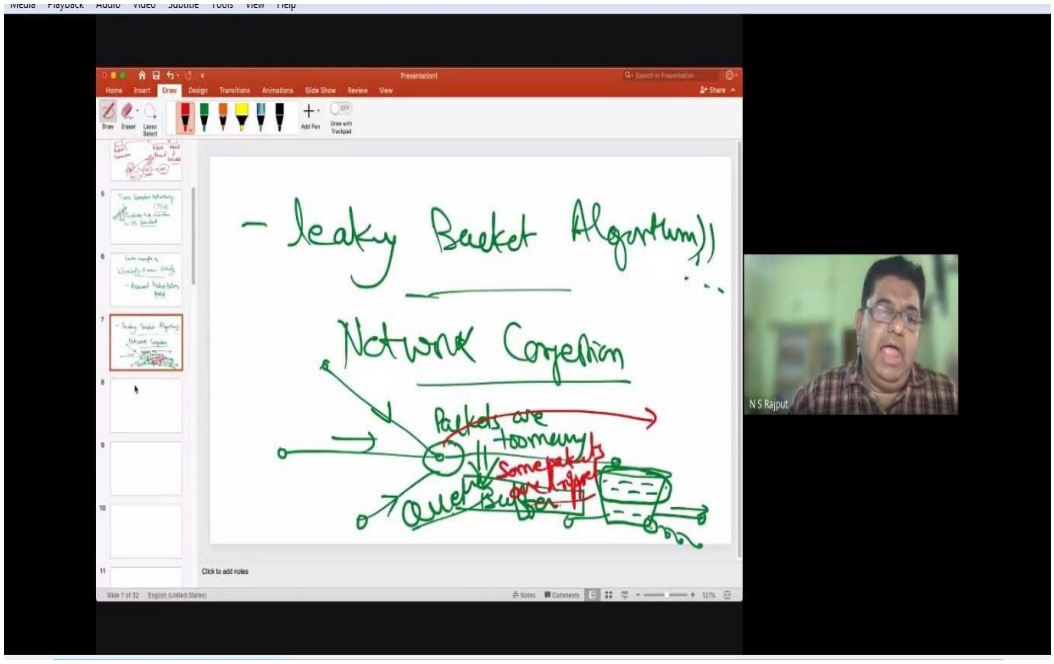
Memories of event





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





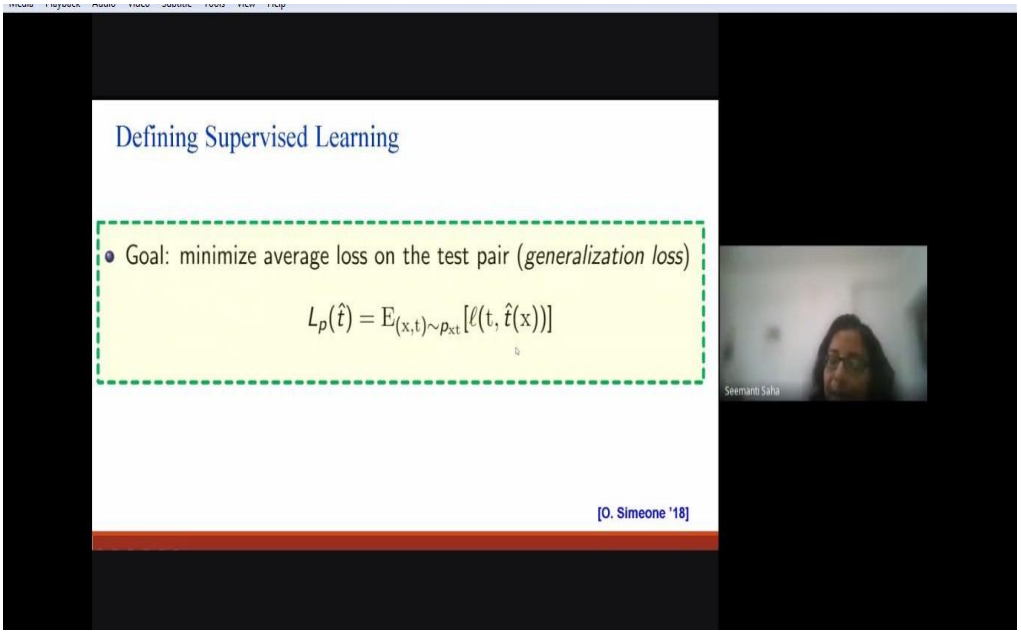
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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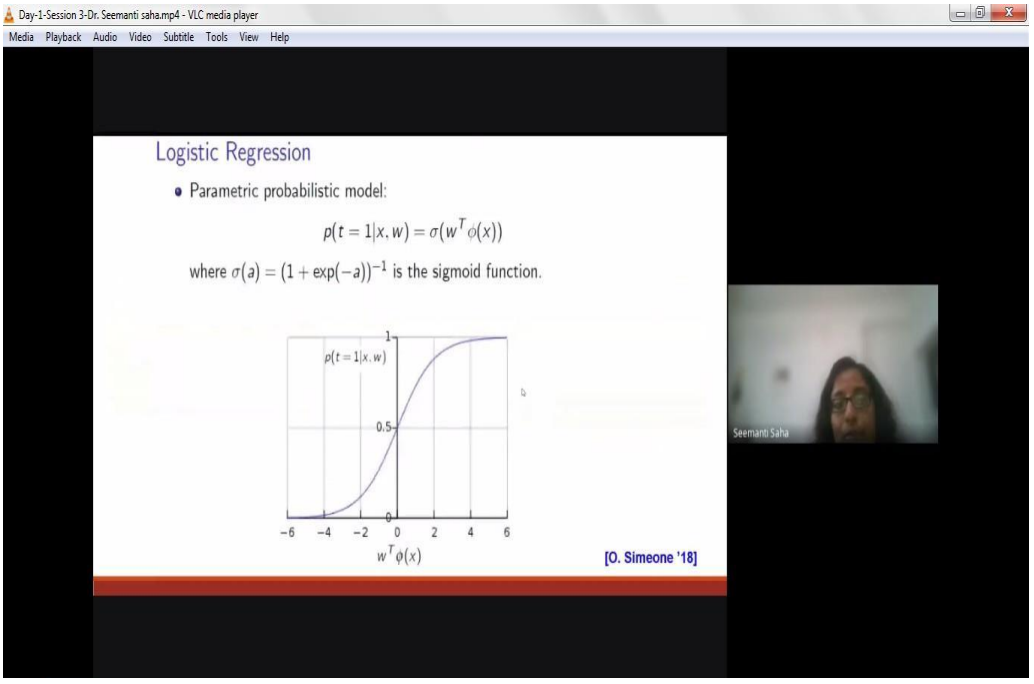
Expert Talk-3

Topic: Application of Machine Based Technique In The Physcial Layer Of Future WirelessCommunication System

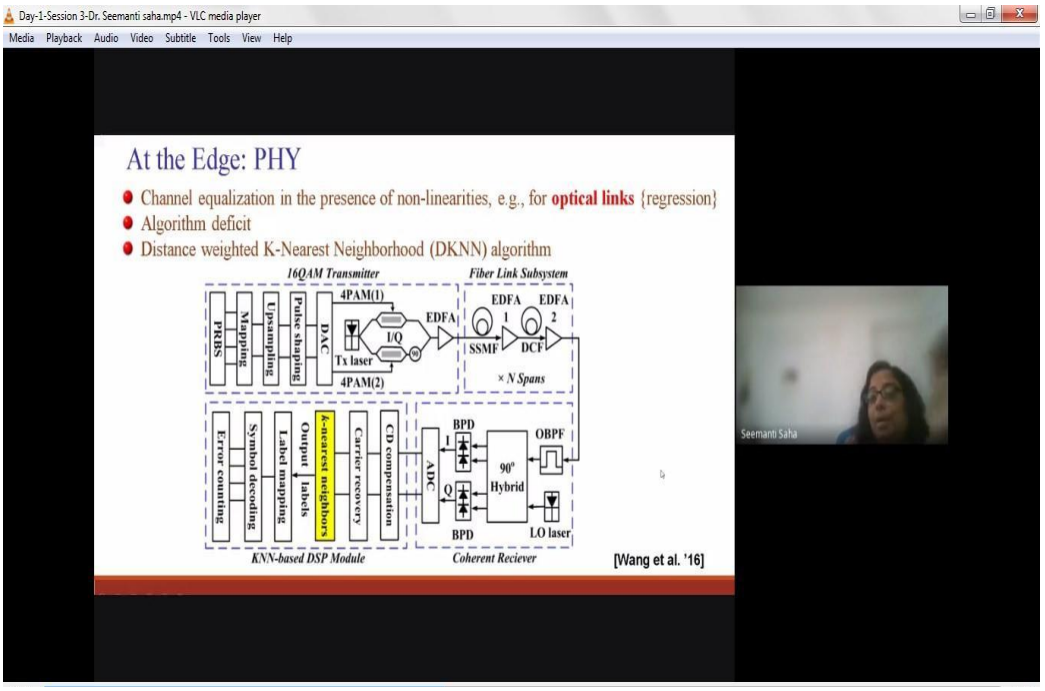
Resource Person: Dr. Seemanti Saha, Assistant Professor

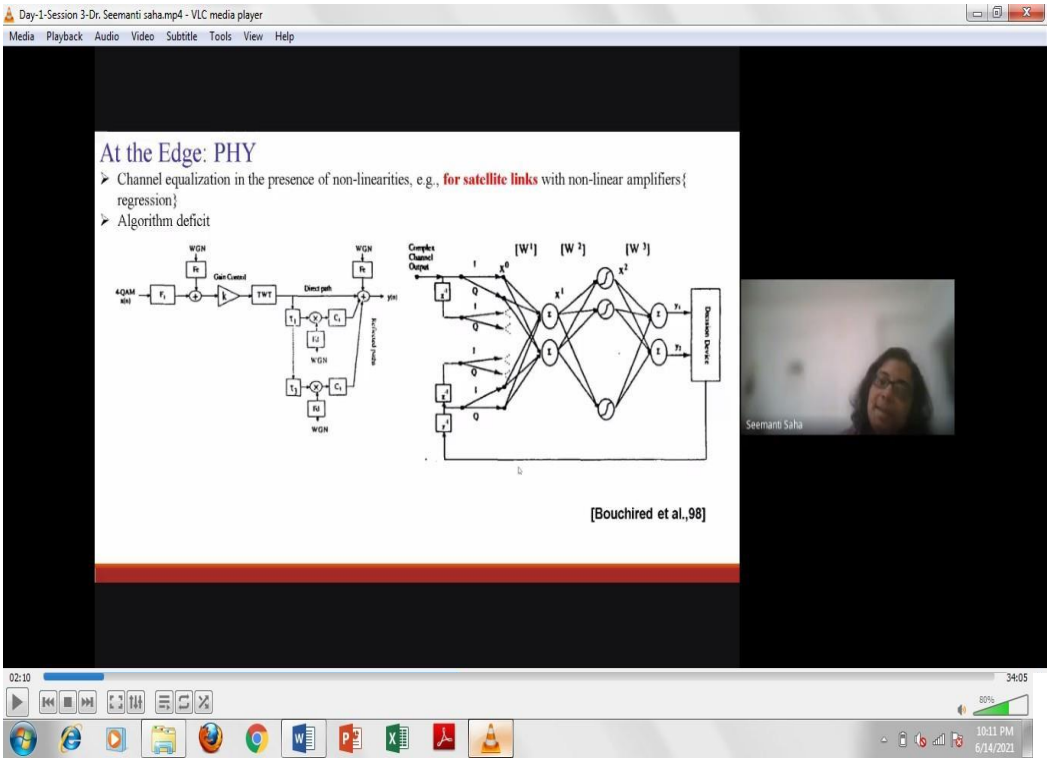
Venue: online



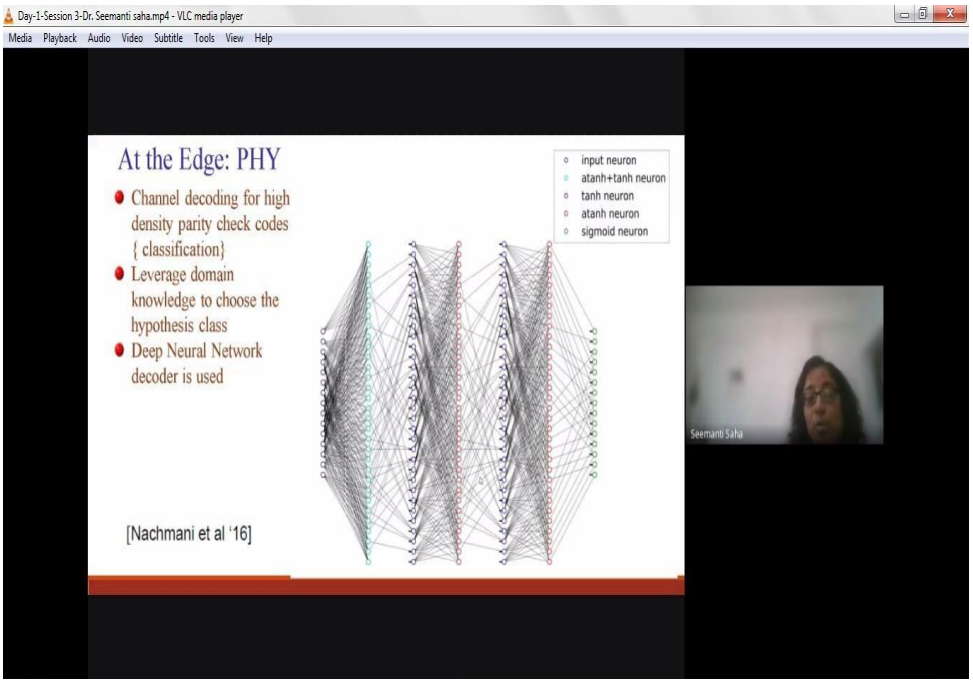


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





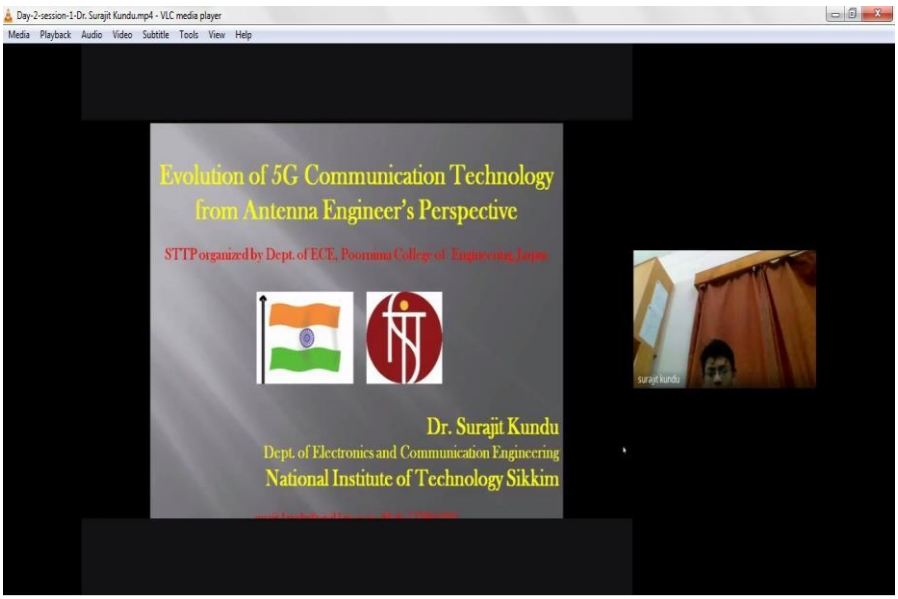
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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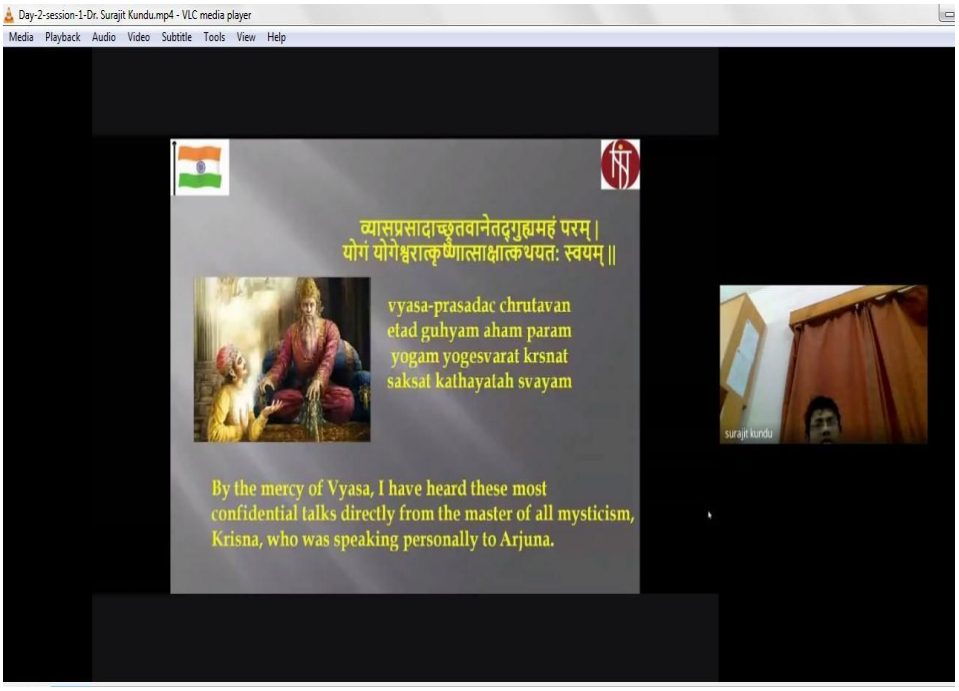
Expert Talk-4

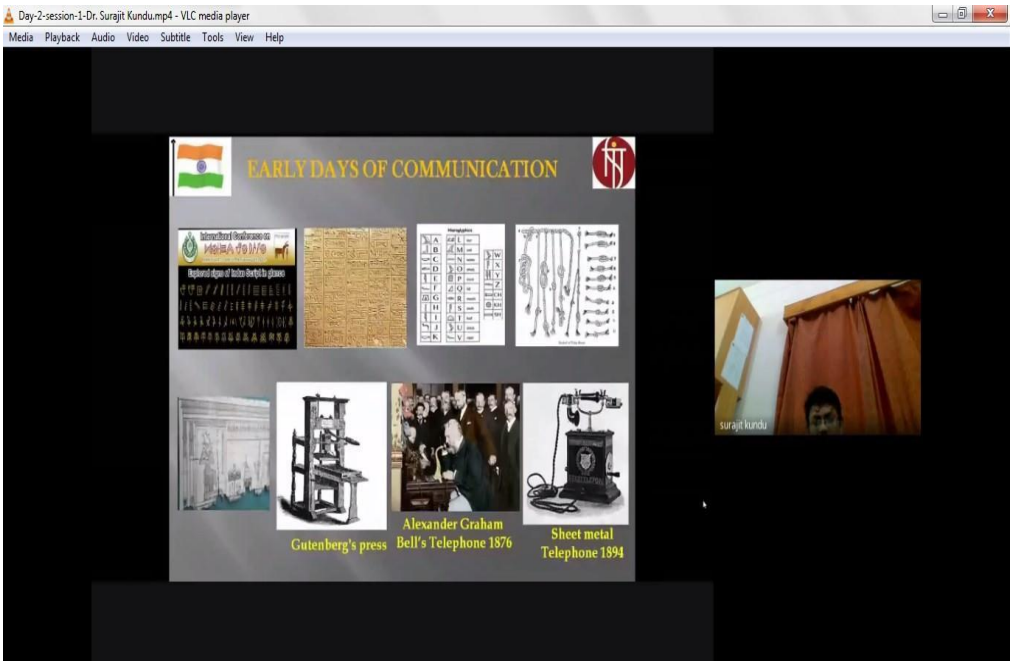
Topic: Evolution Of 5G Communication Technology from Antenna Engineer'S Perspective

Resource Person: Dr. Surajit Kundu, Assistant Professor
Venue: online

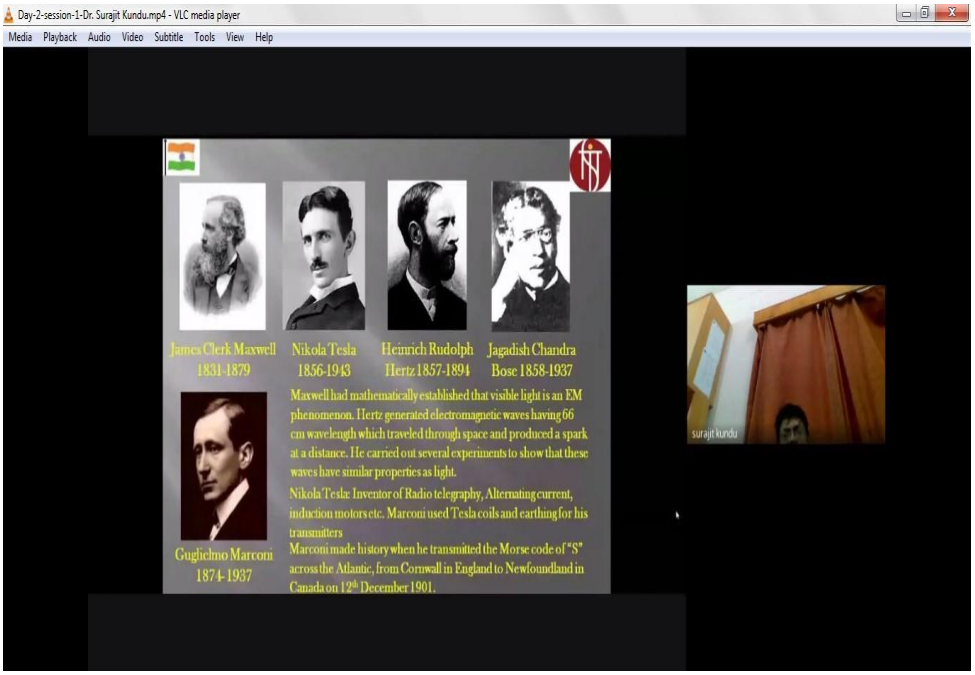


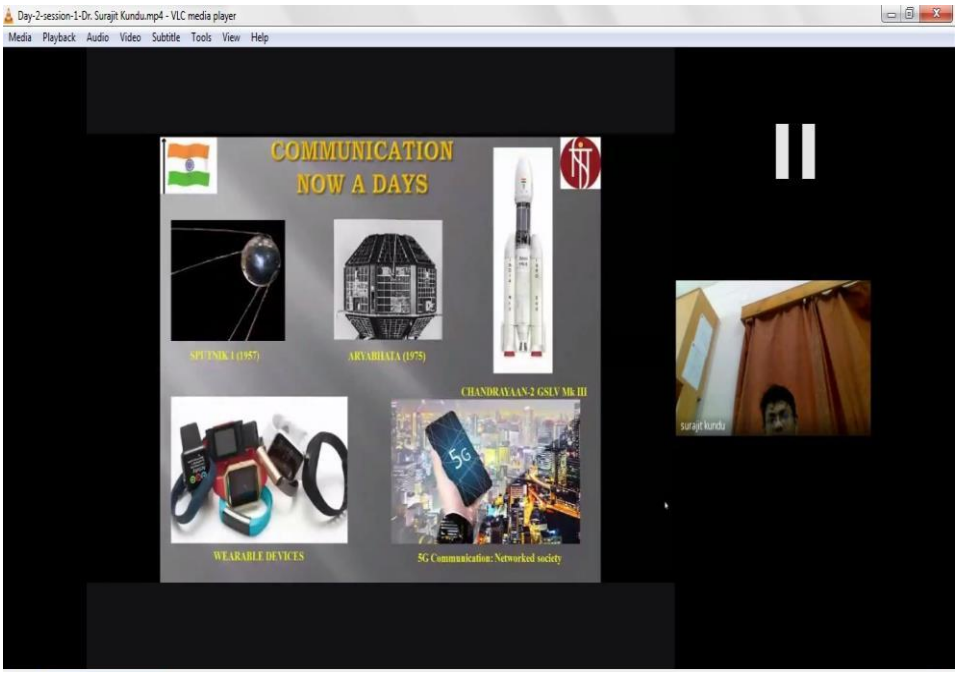
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





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

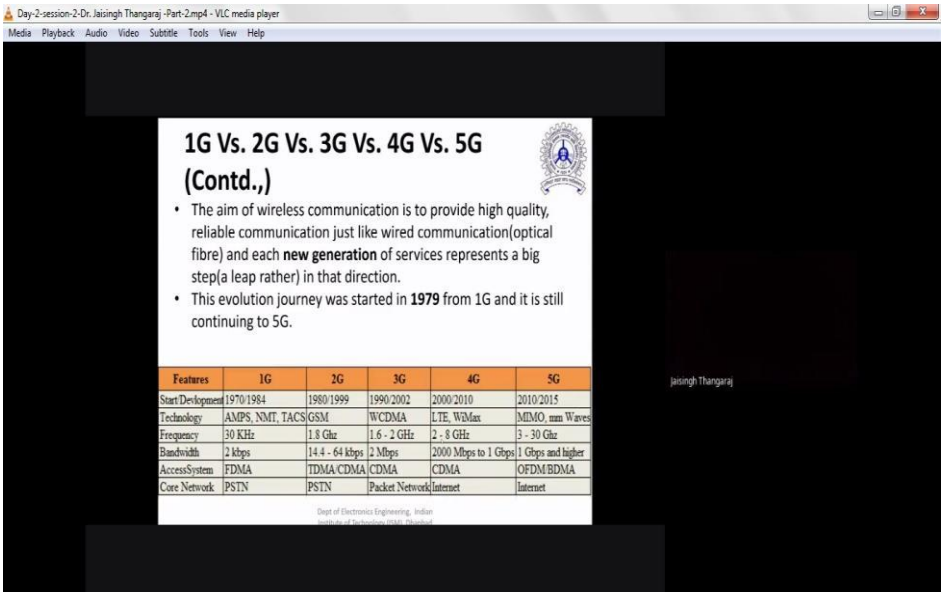


Expert Talk-5

Topic: Evolution of Telecommunication Towards 5G And Beyond

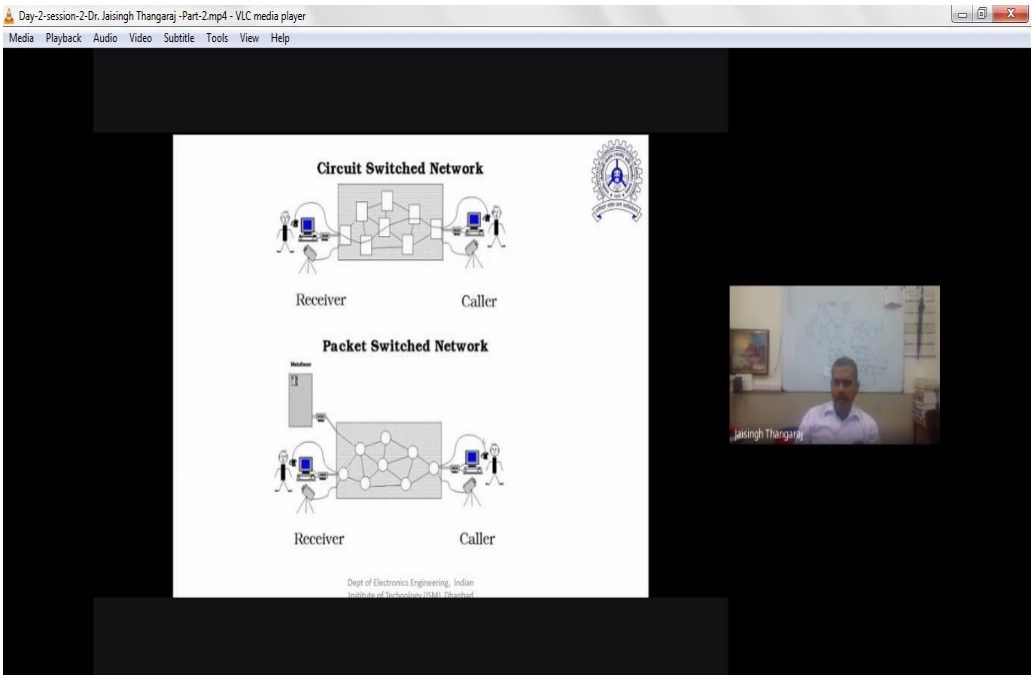
Resource Person: Dr. Jaisingh Thangaraj, Assistant Professor

Venue: online

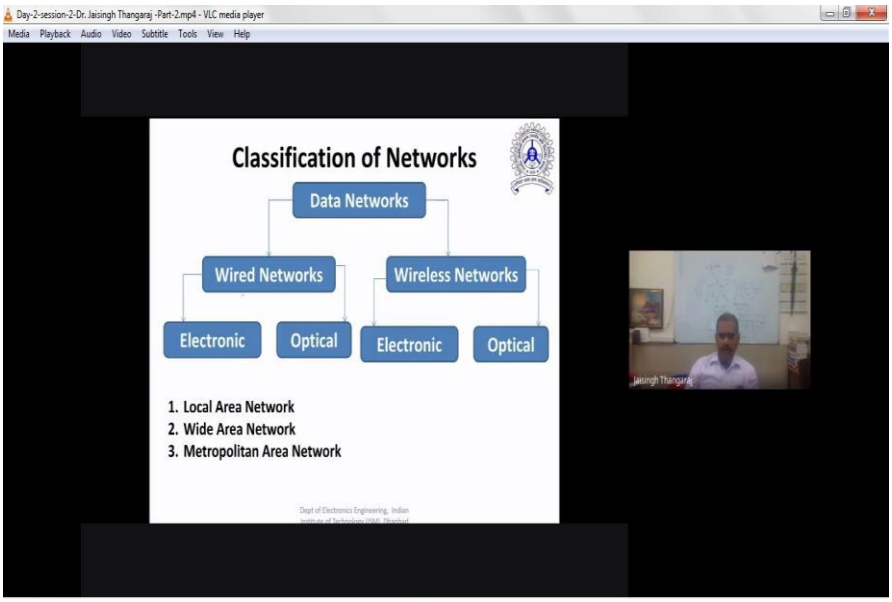


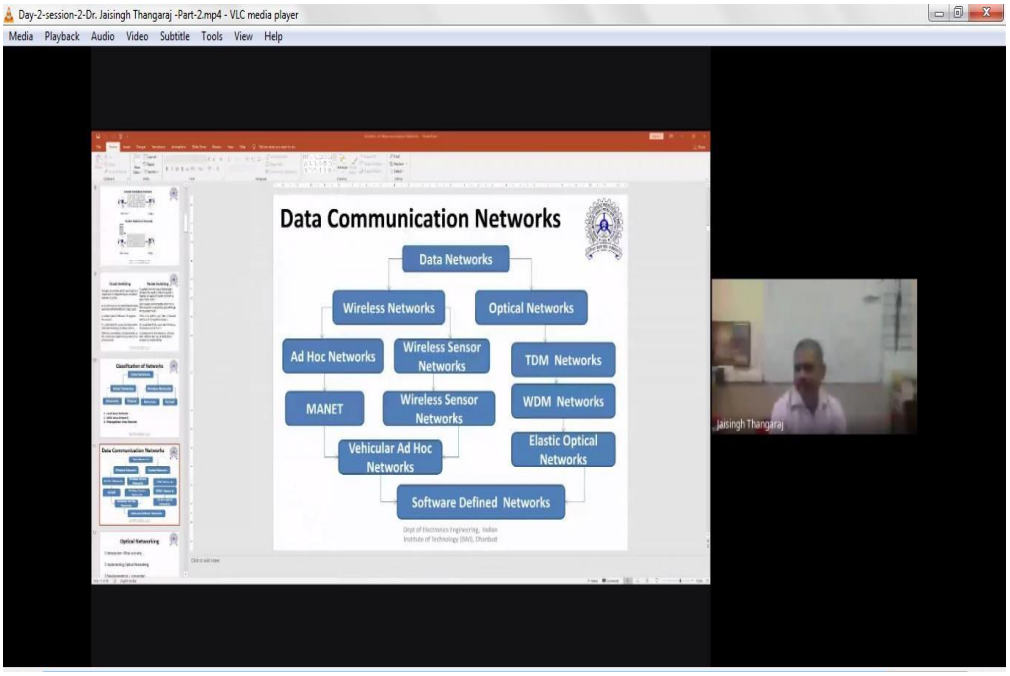
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





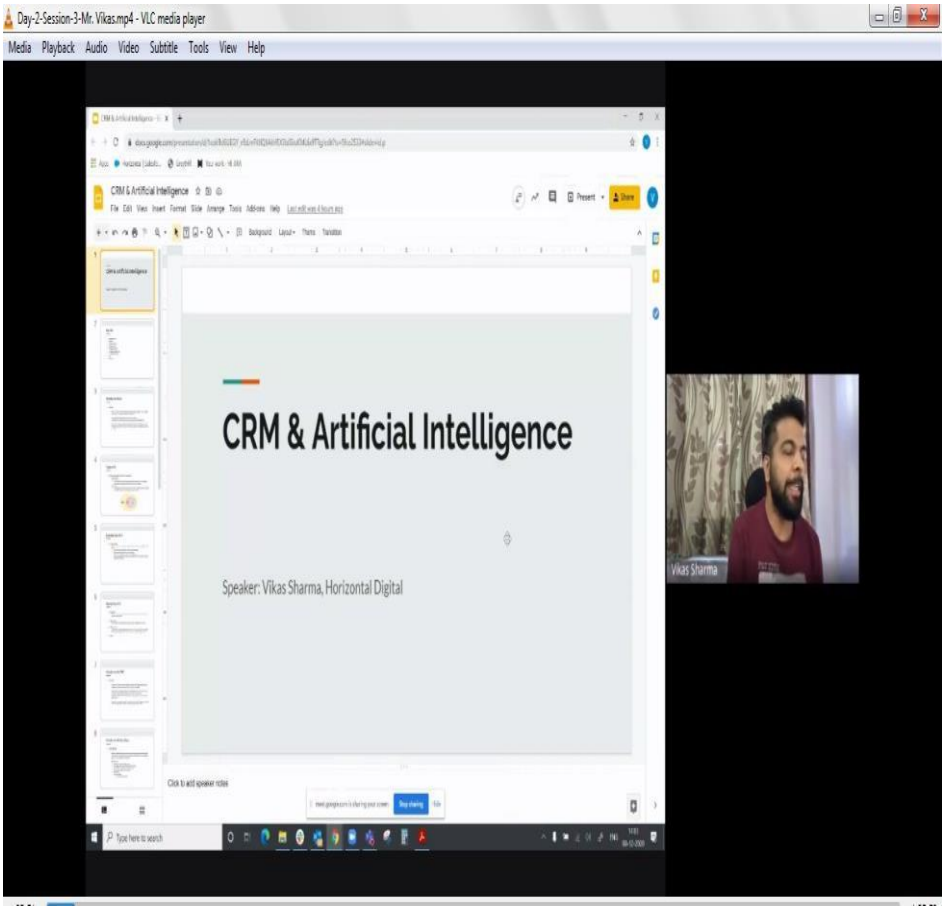
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B.E., M.E., Ph.D.
Director
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Expert Talk-6

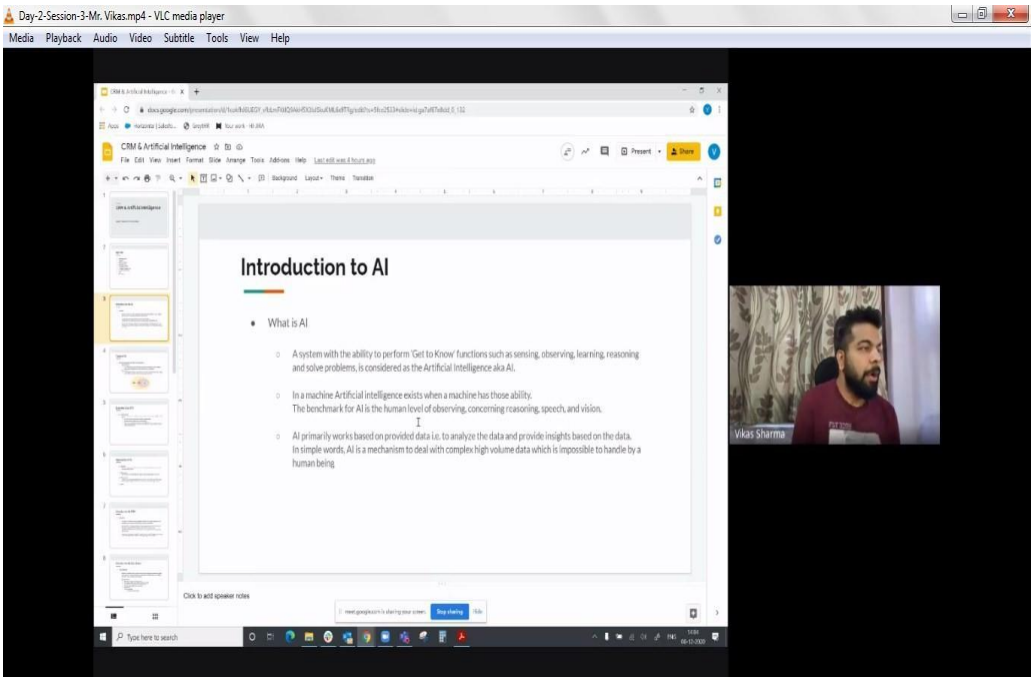
Topic: Crm and Artificial Intelligence

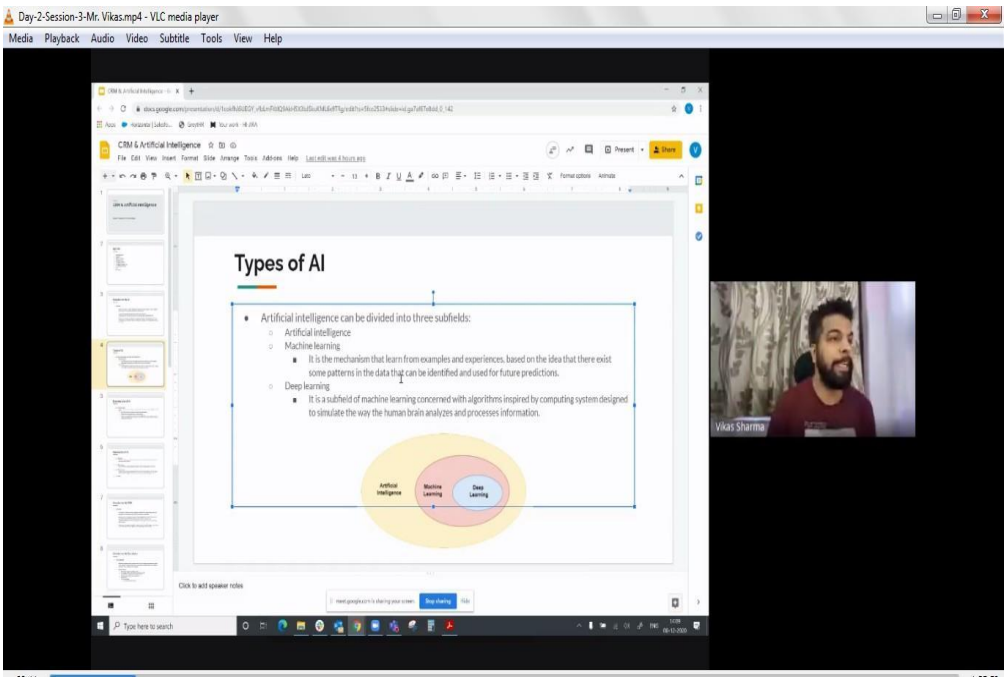
Resource Person: Vikas Sharma, Salesforce Scrum Master

Venue: online

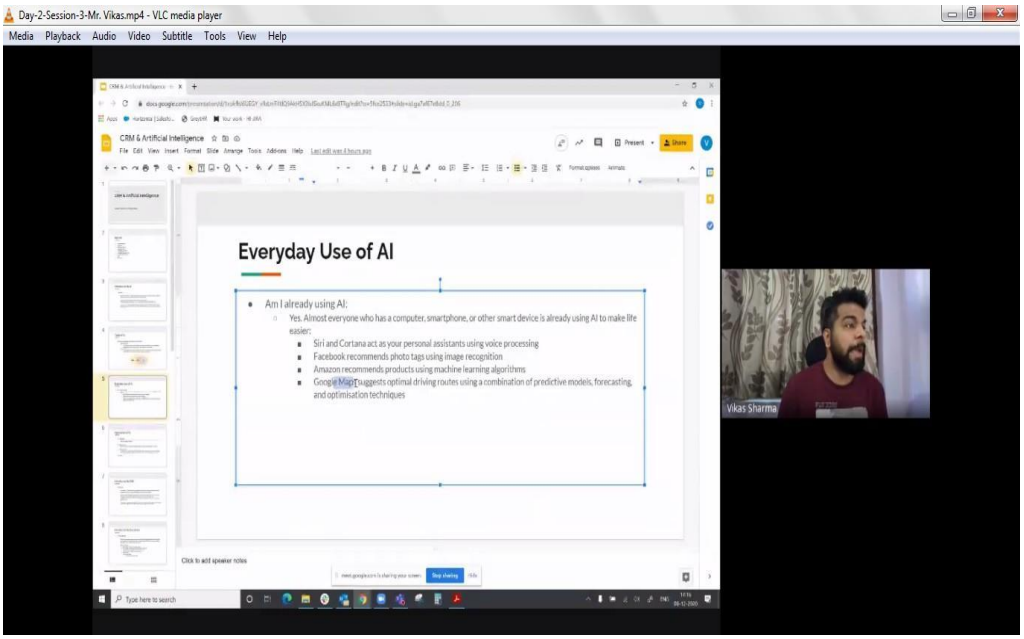


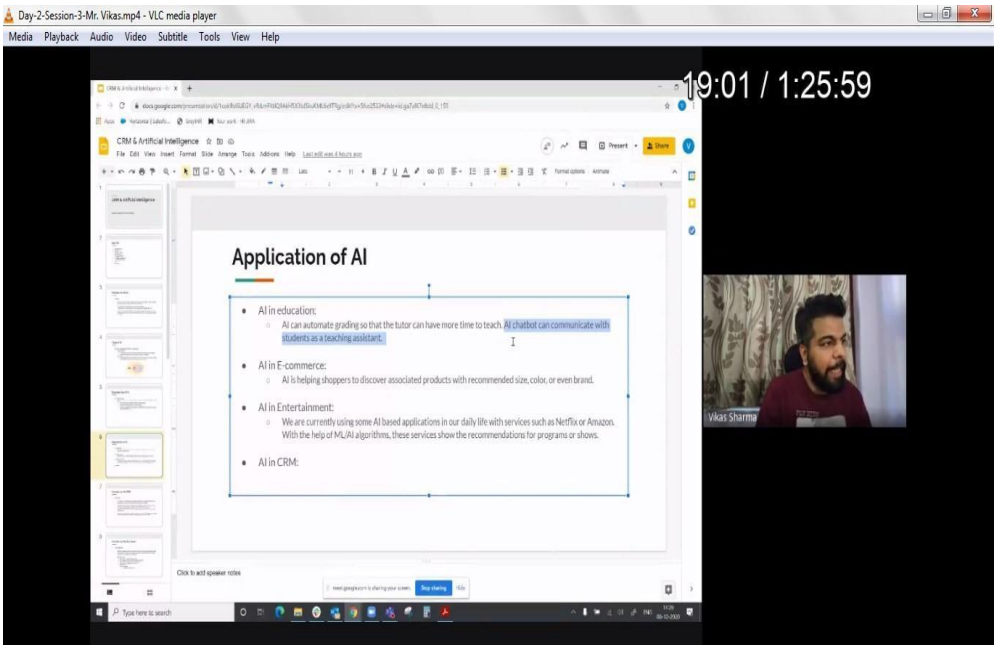
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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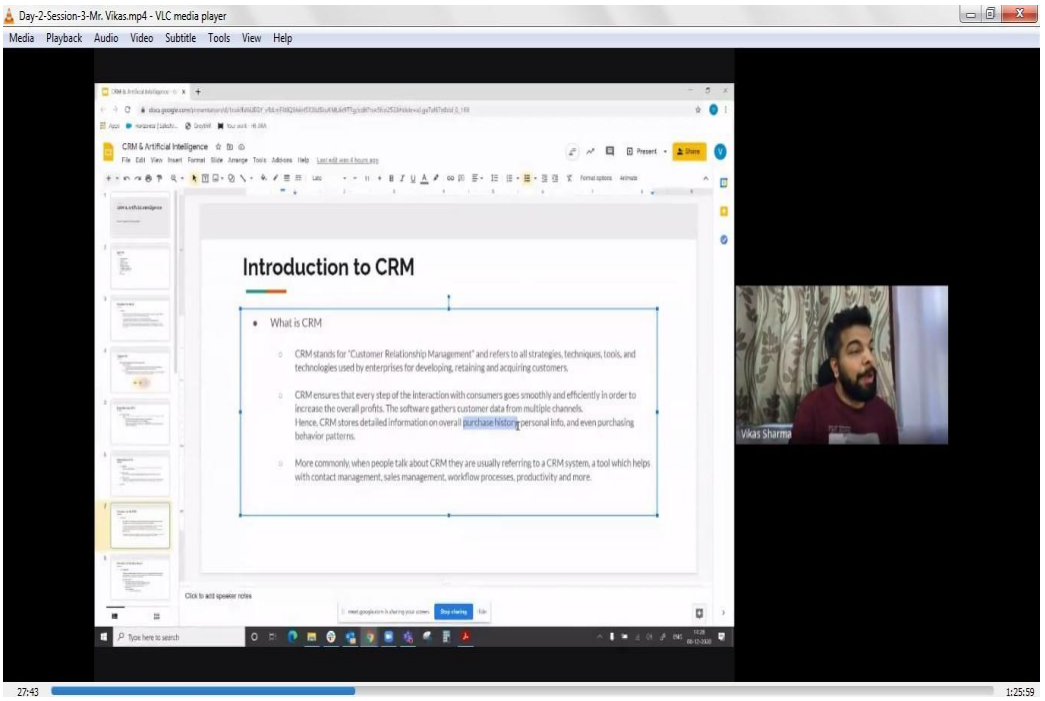


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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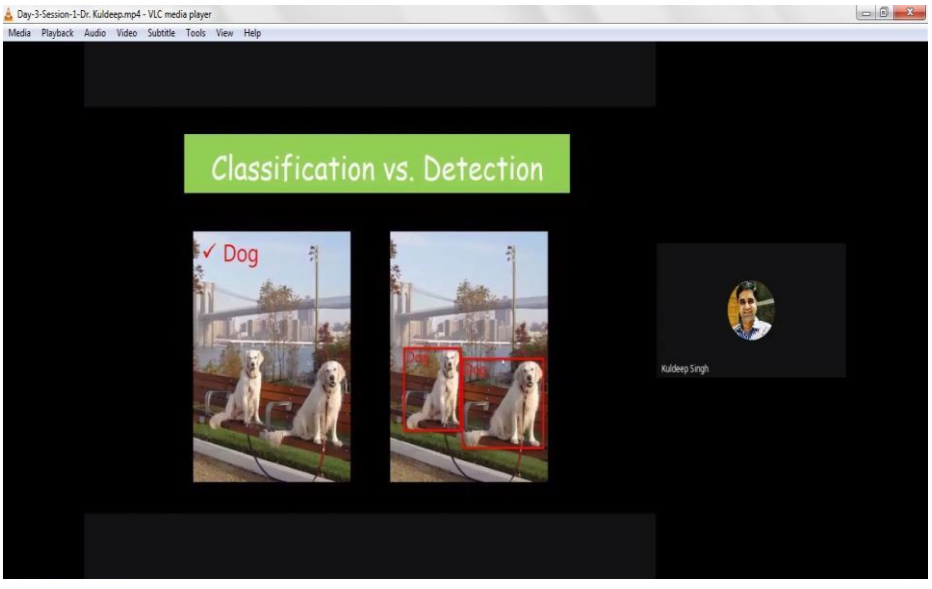


Expert Talk-7

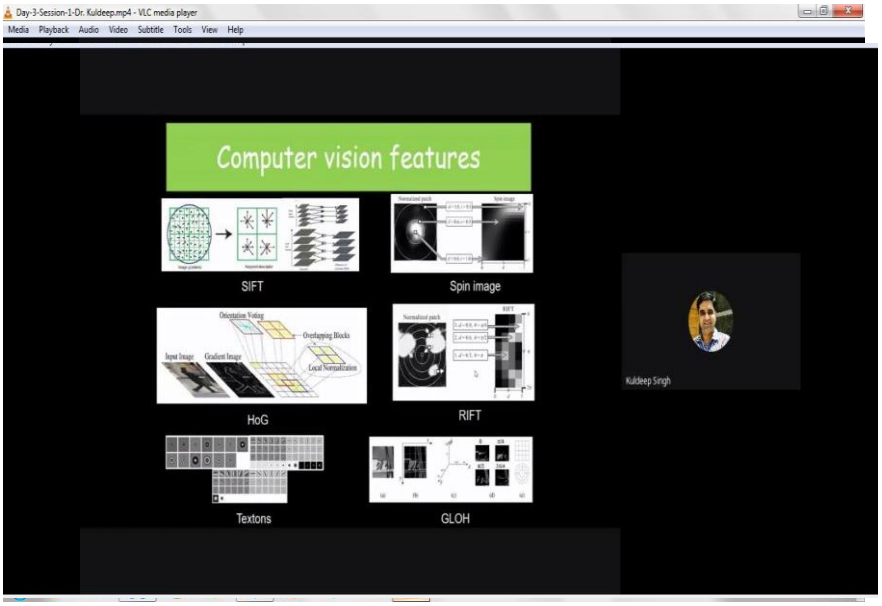
Topic: Convolutional Neural Network for Computer Vision

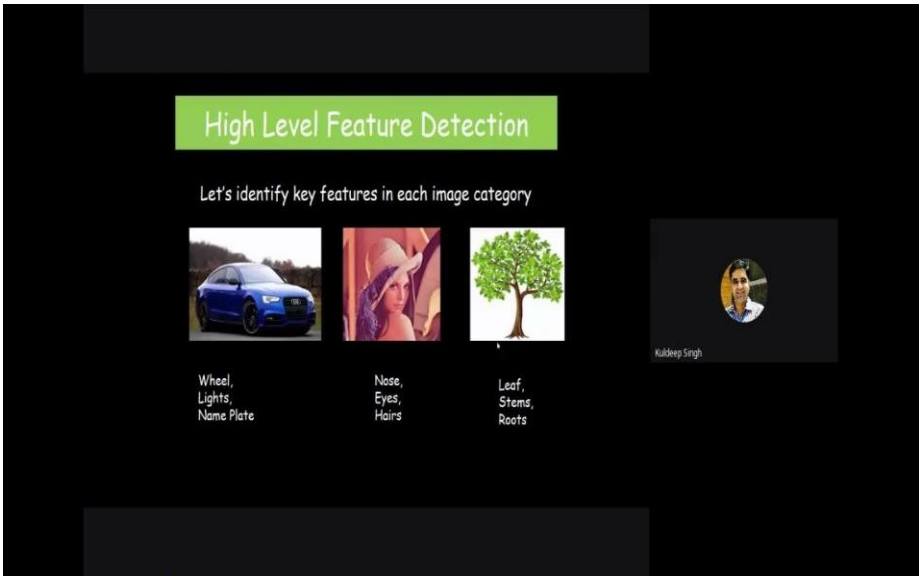
Resource Person Dr. Kuldeep Singh, Assistant Professor

Venue: online

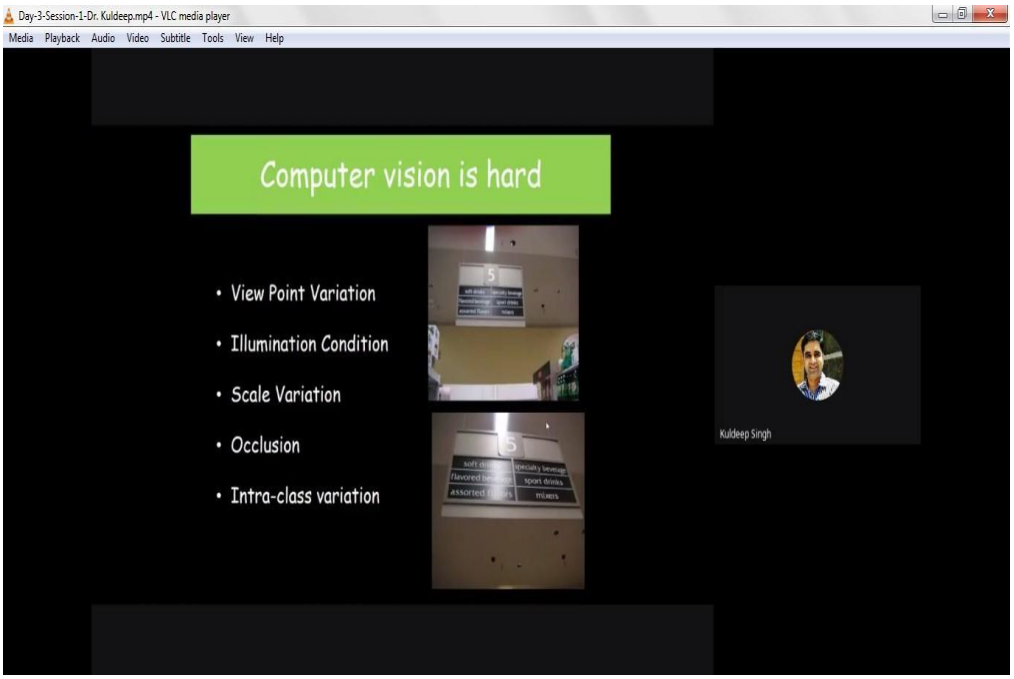


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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

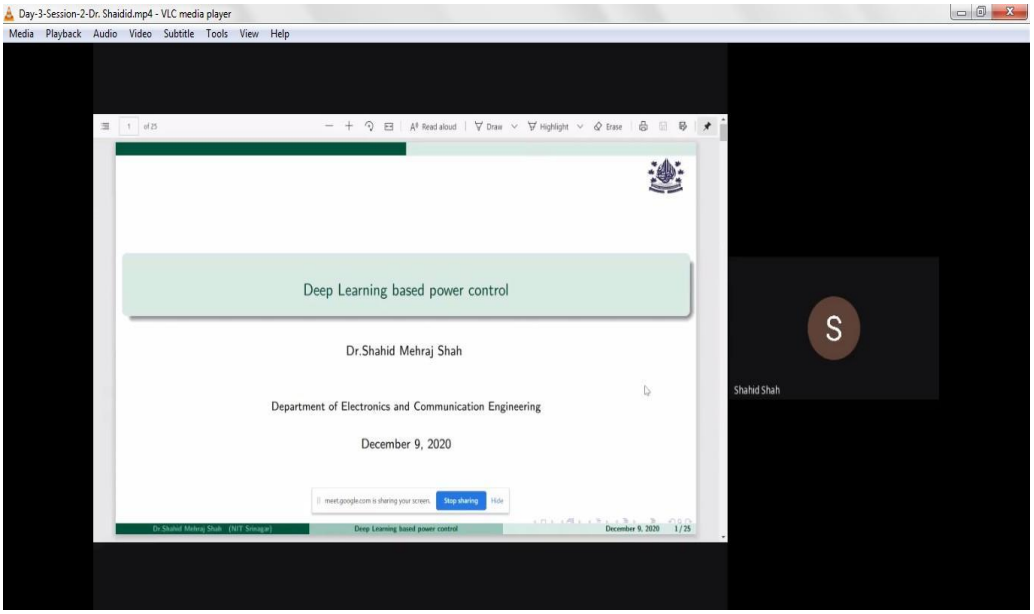


Expert Talk-8

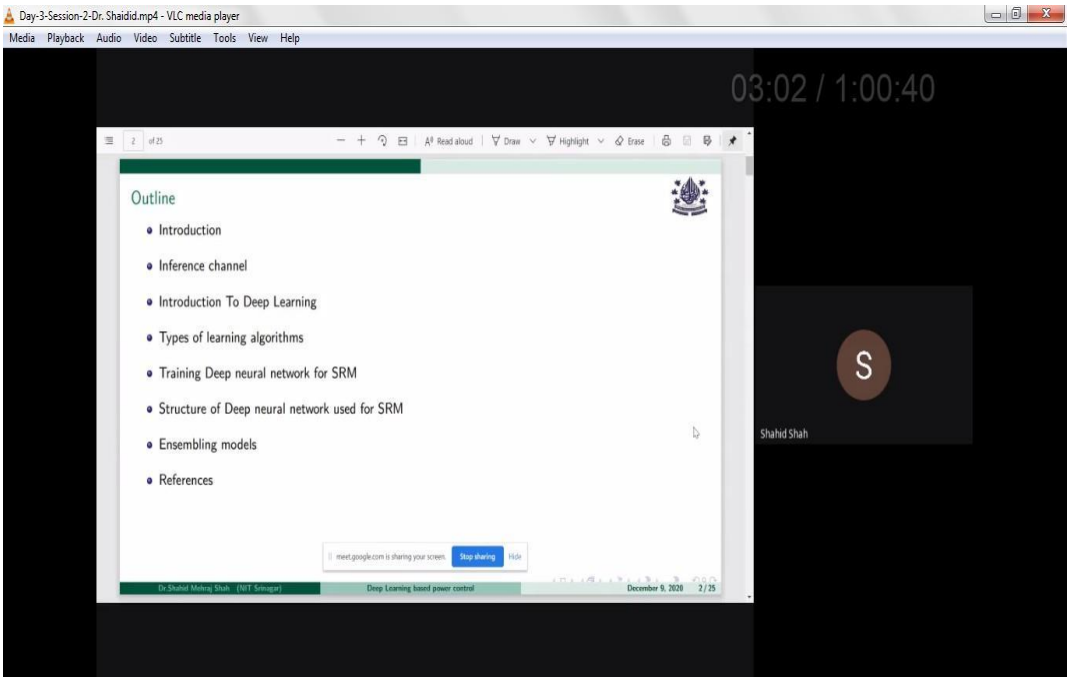
Topic: Artificial Intelligence Based Power Control in B5G Network

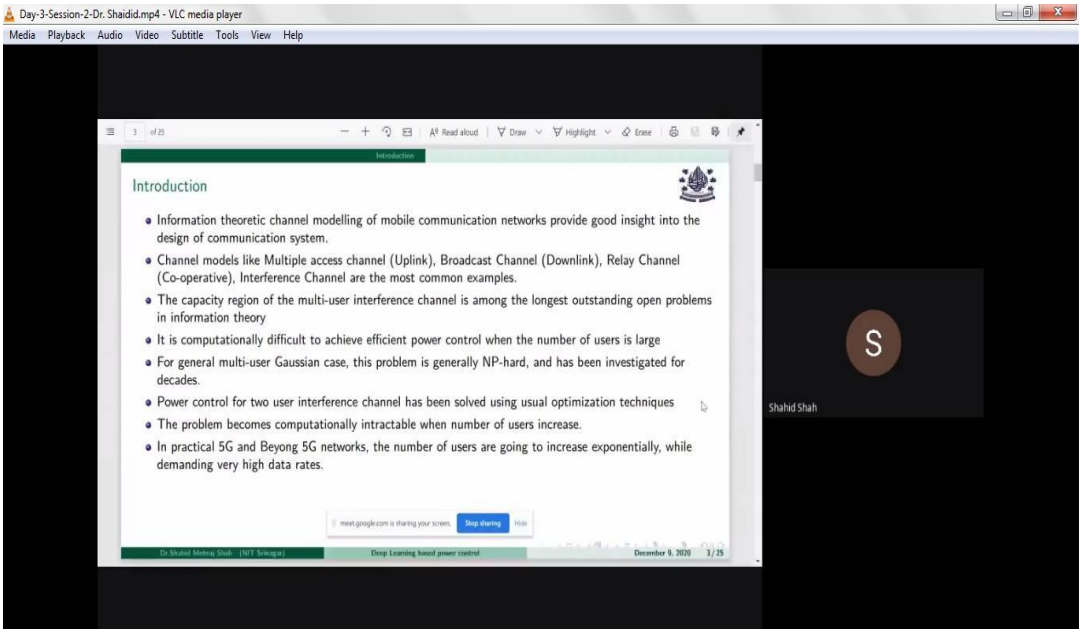
Resource Person: Dr. Shahid Mehraj Shah, Assistant Professor

Venue: online

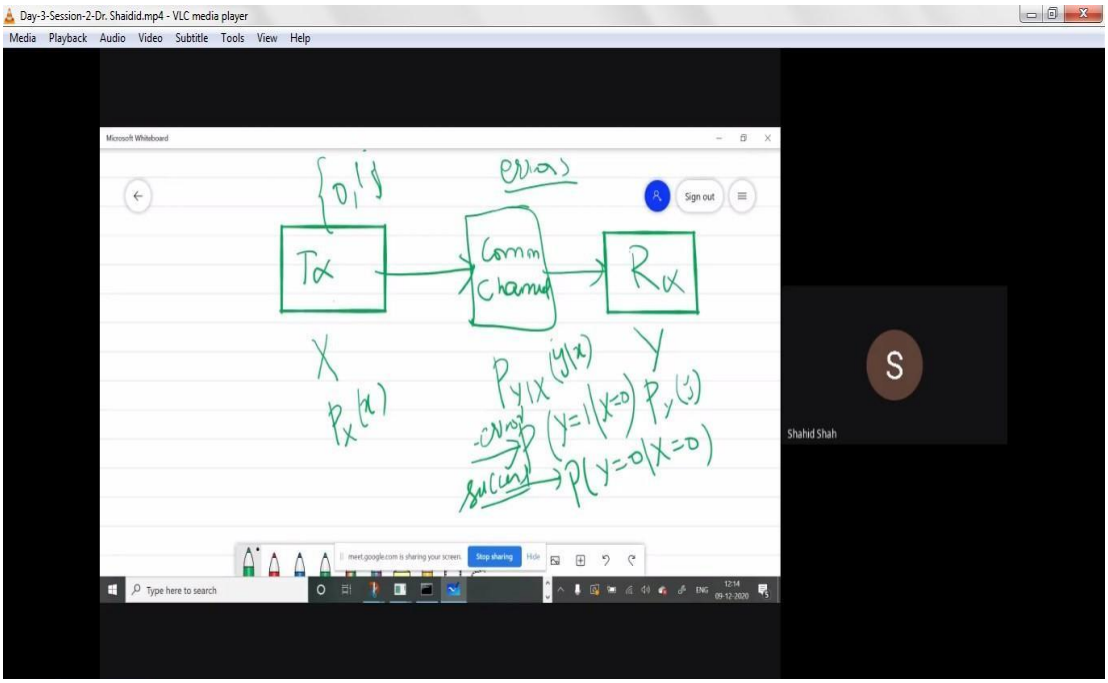


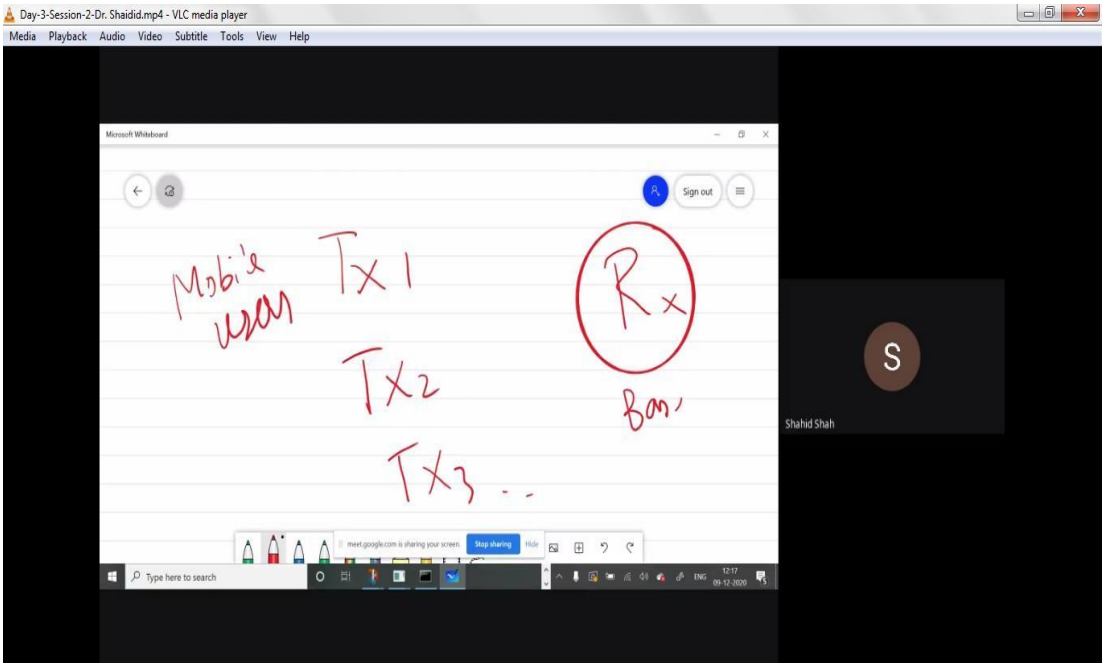
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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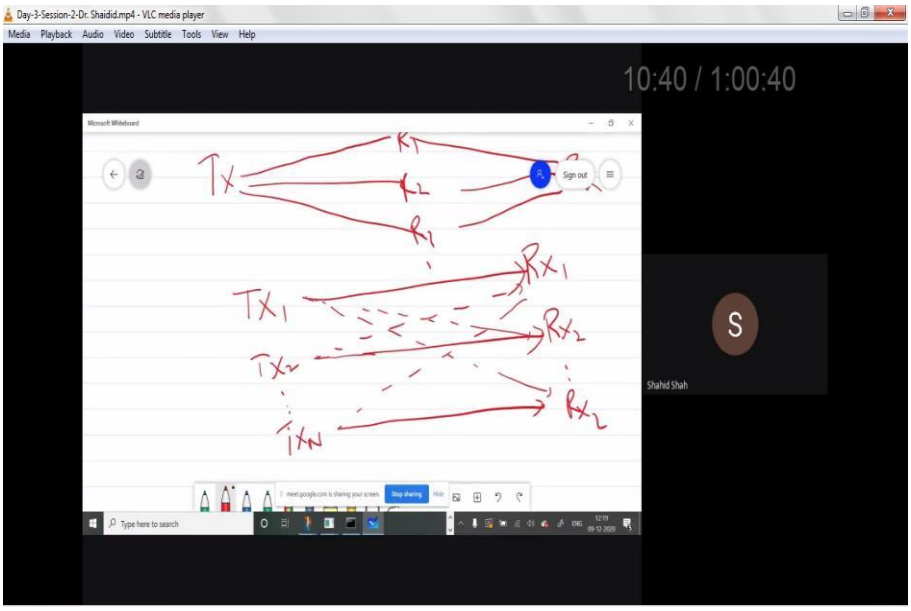


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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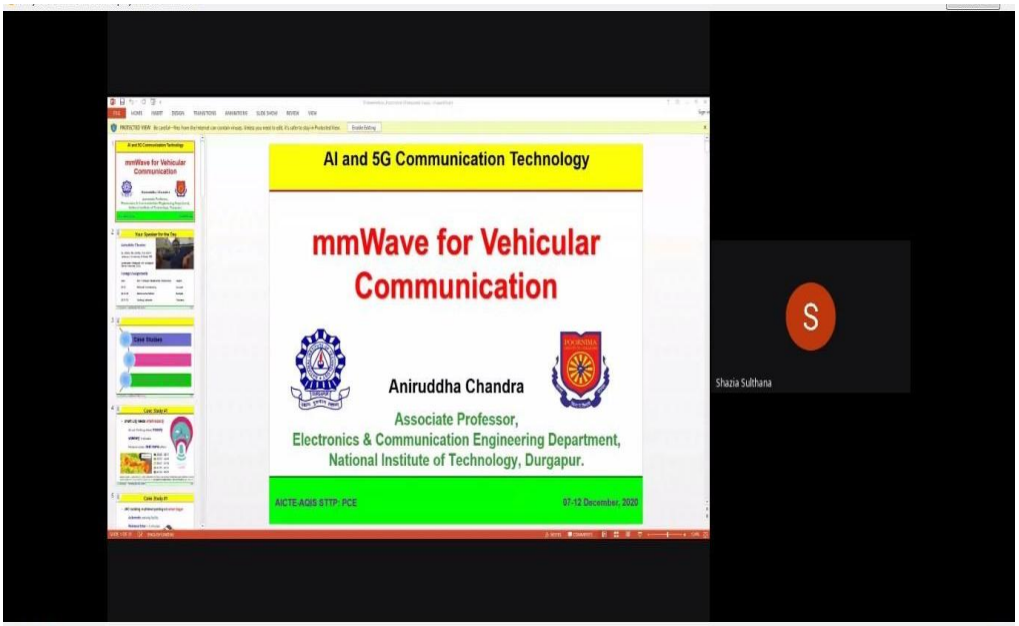


Expert Talk-9

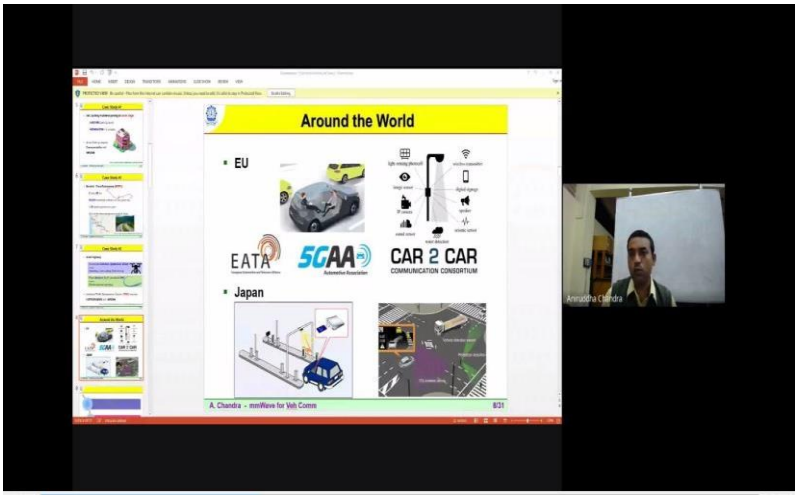
Topic: Mmwave for Vehicular Communication

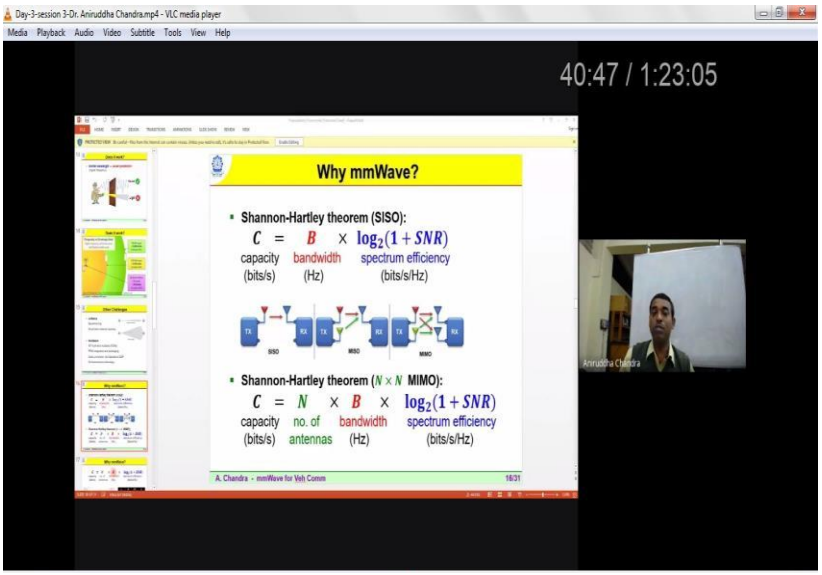
Resource Person: Dr. Aniruddha Chandra,

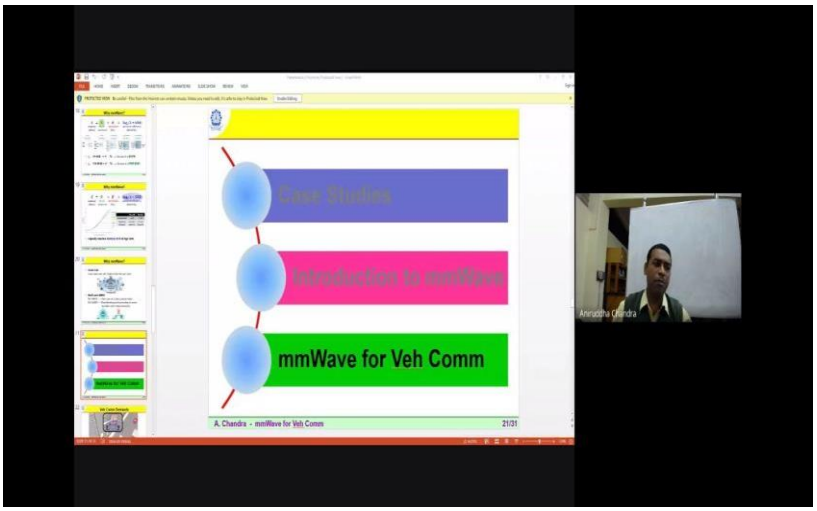
Associate ProfessorVenue: online



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B.E., M.E., Ph.D.
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Poornima College of Engineering
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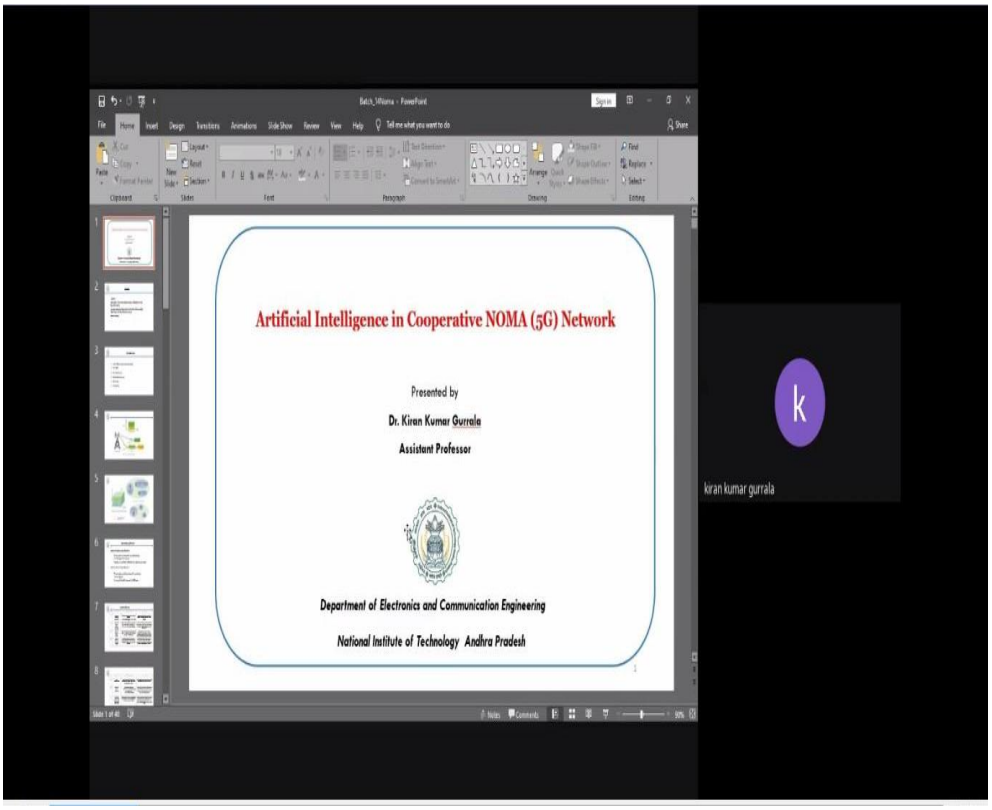
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B.E., M.E., Ph.D.
Director
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Expert Talk-10

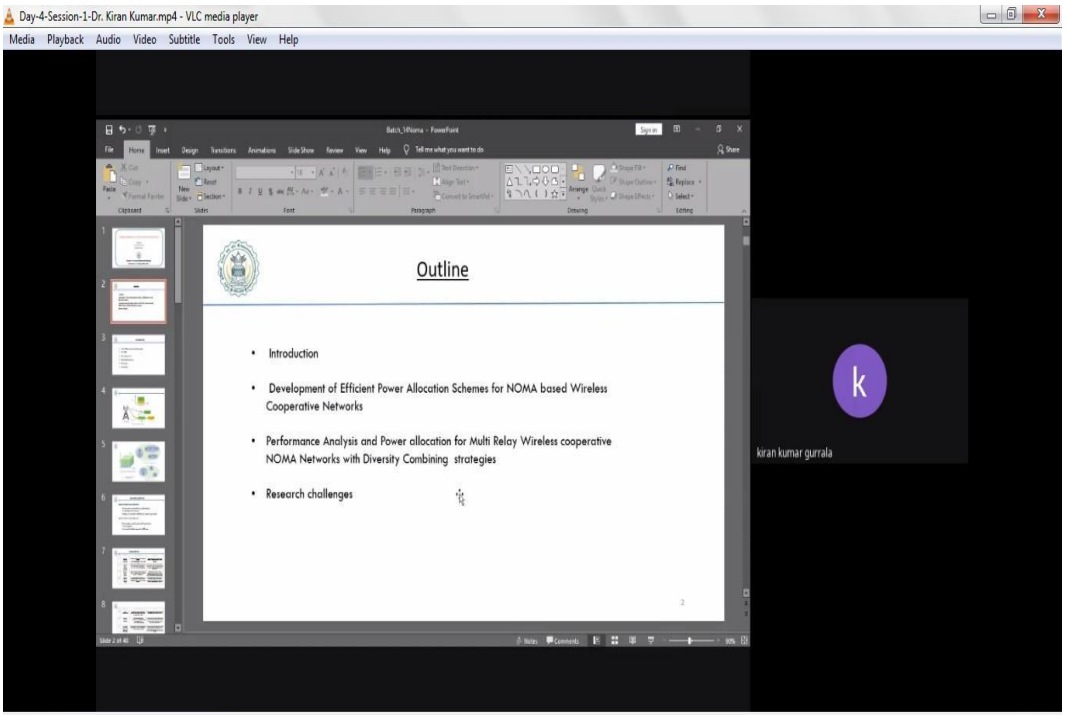
Topic: Artificial Intelligence in Cooperative Noma (5G) Network

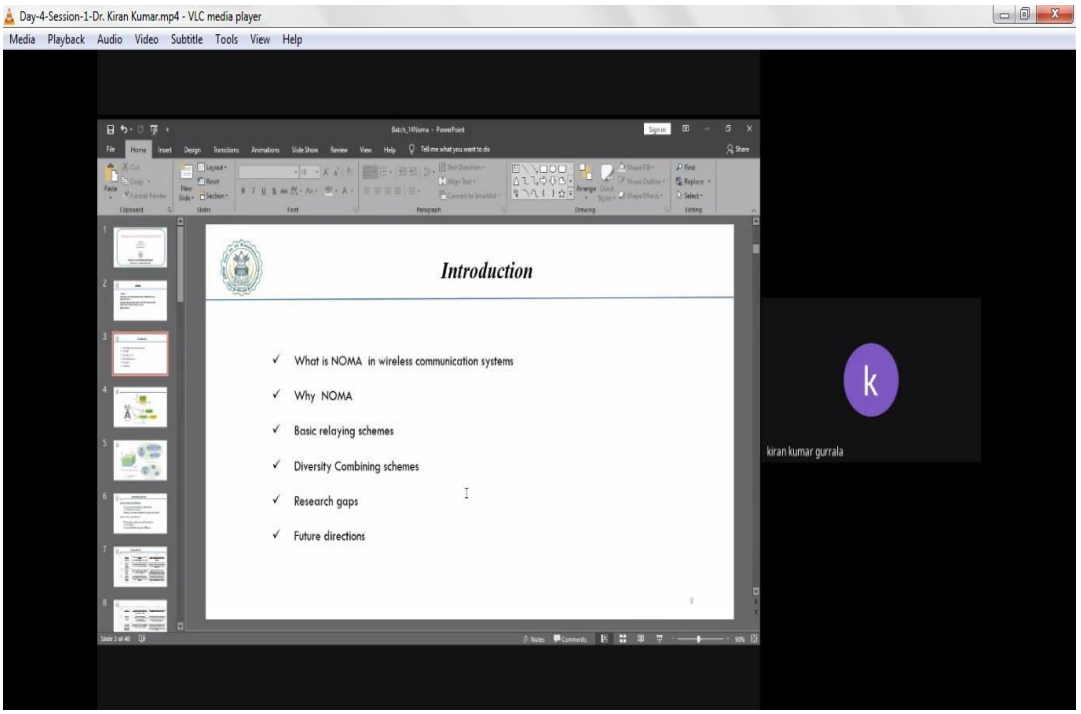
Resource Person: Dr. Kiran Kumar Gurrala, Assistant Professor

Venue: online

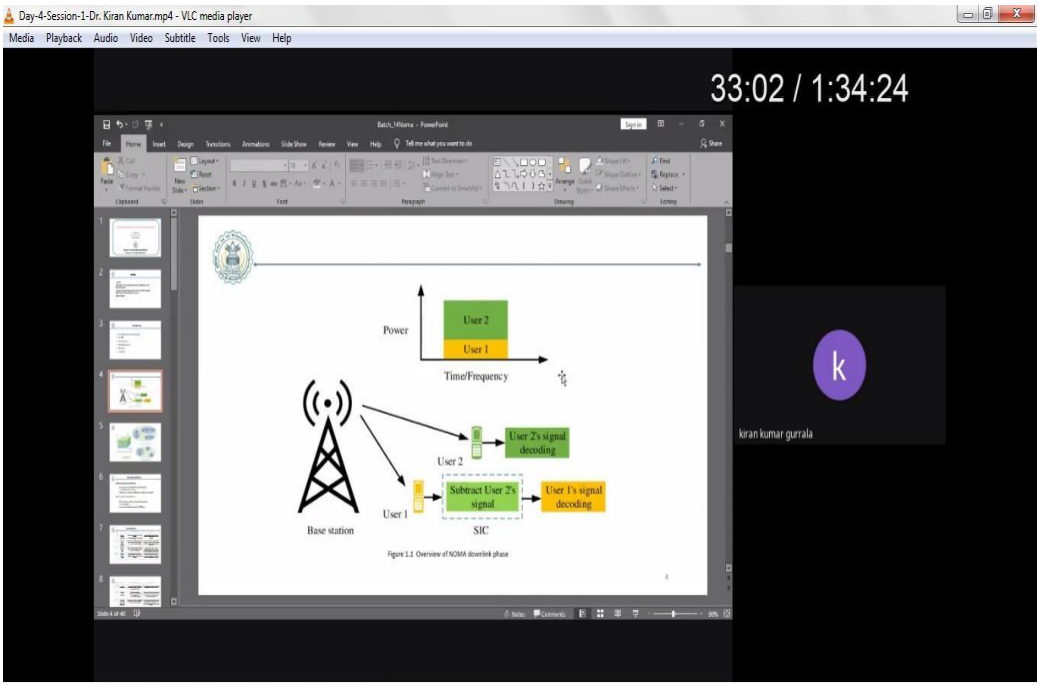


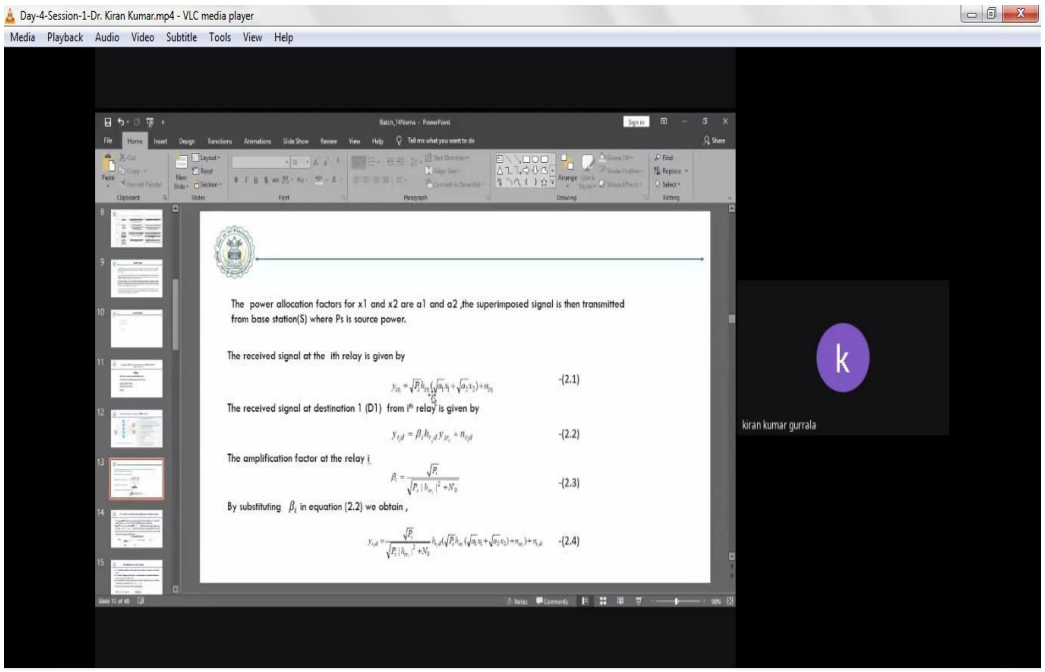
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Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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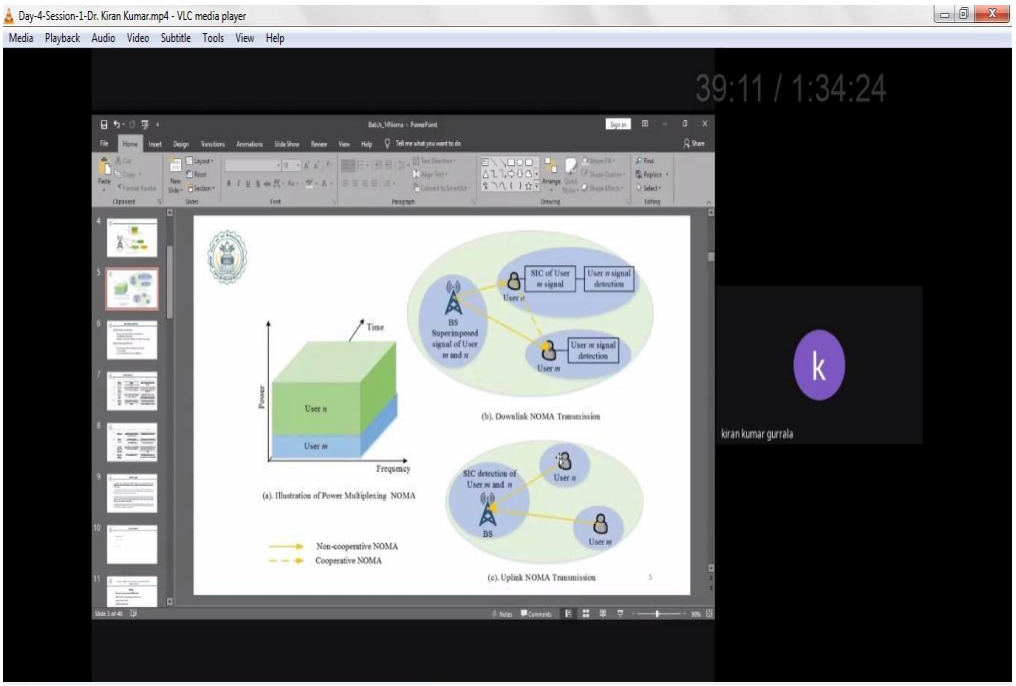


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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Poornima College of Engineering
ISI-6, RIICO Institutional Area
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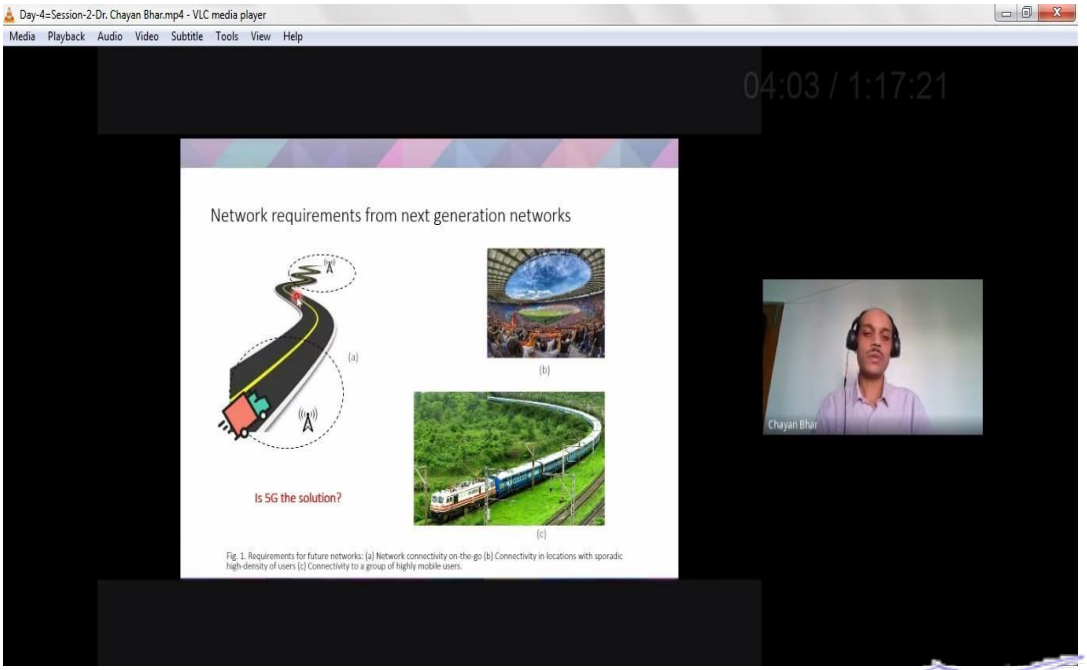


Expert Talk-11

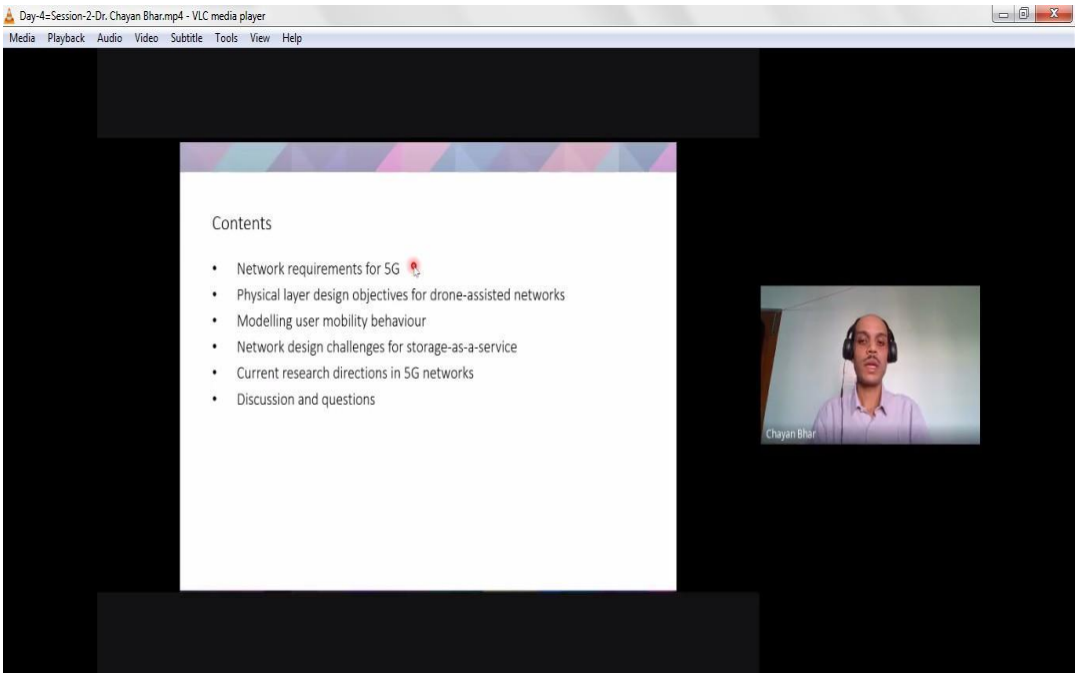
Topic: Drone Base Stations For 5G And Beyond

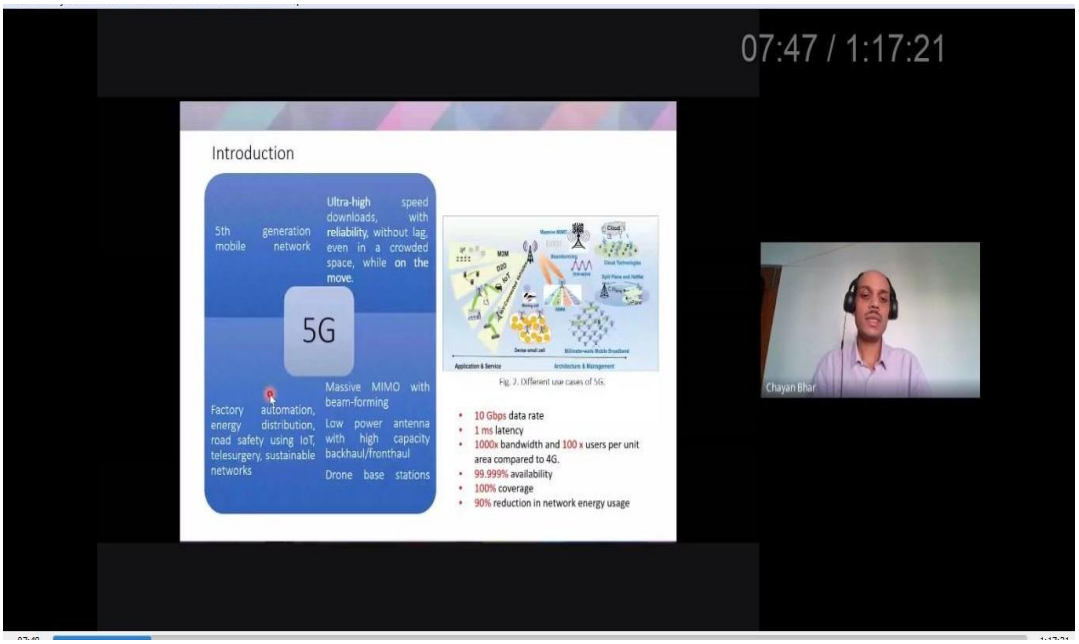
Resource Person: Dr. Chayan Bhar, Assistant Professor

Venue: online

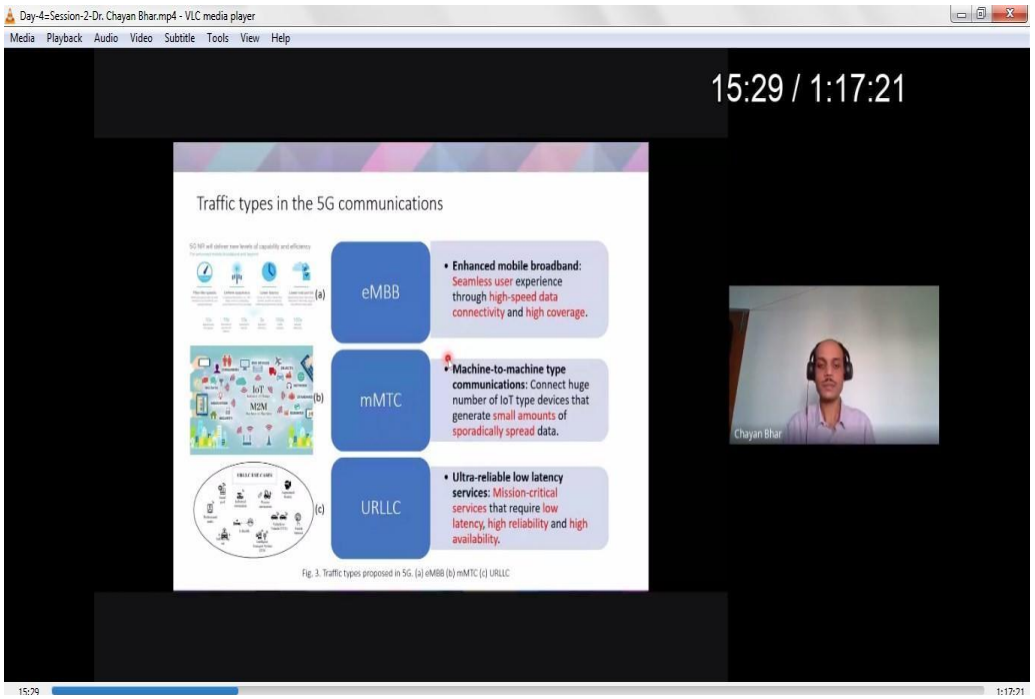


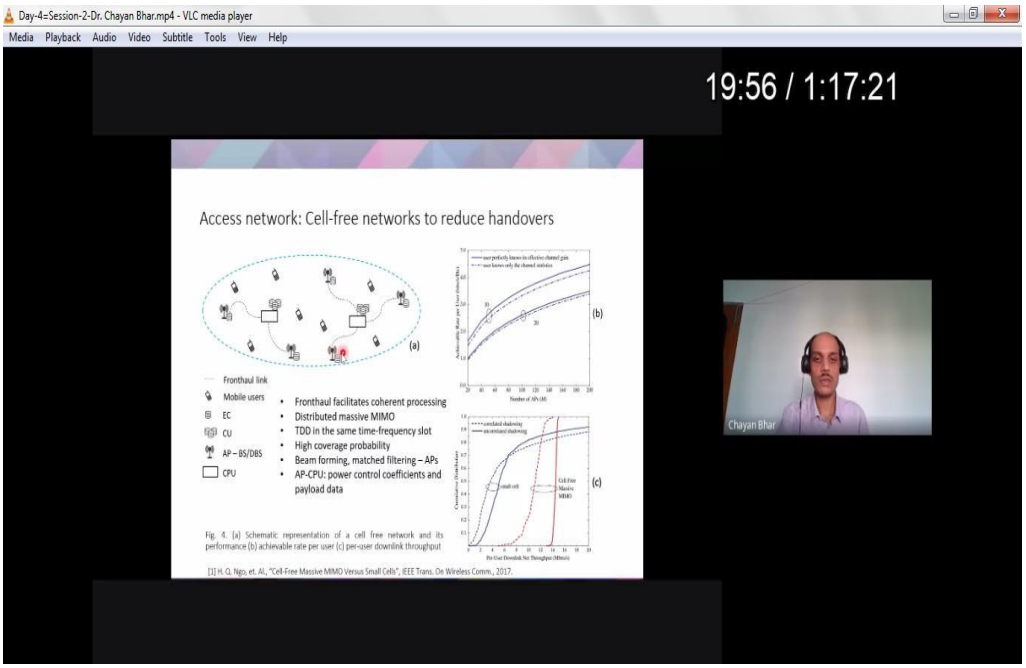
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





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

Expert Talk-12

Topic: Cooperation In Iot: A Multiuser Perspective

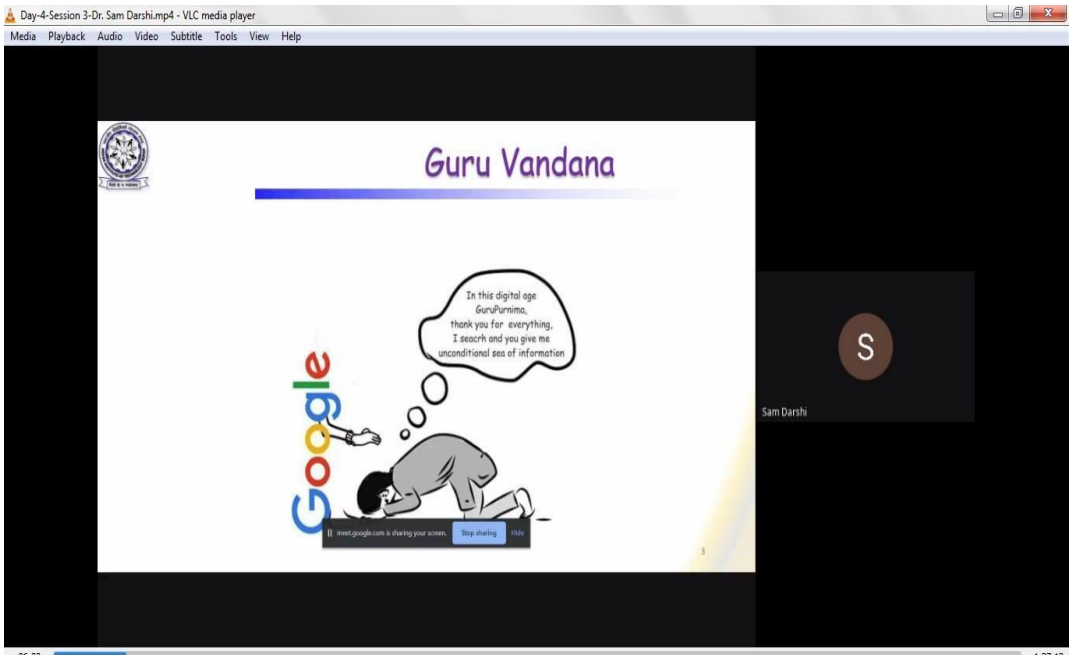
Resource Person: Dr. Sam Darshi, Assistant Professor

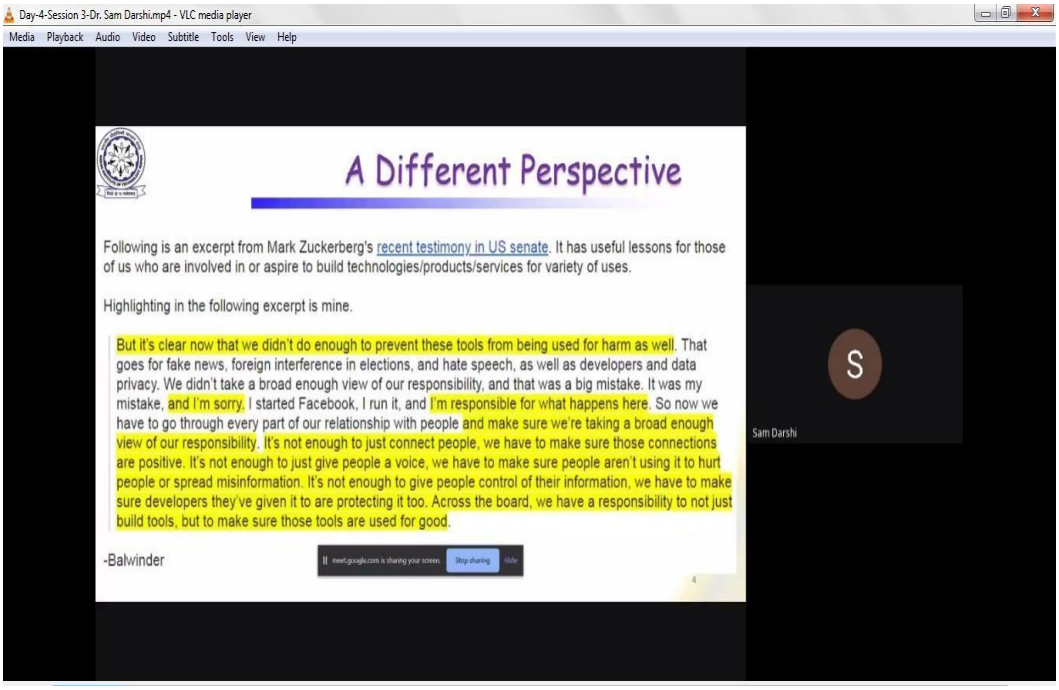
Venue: online



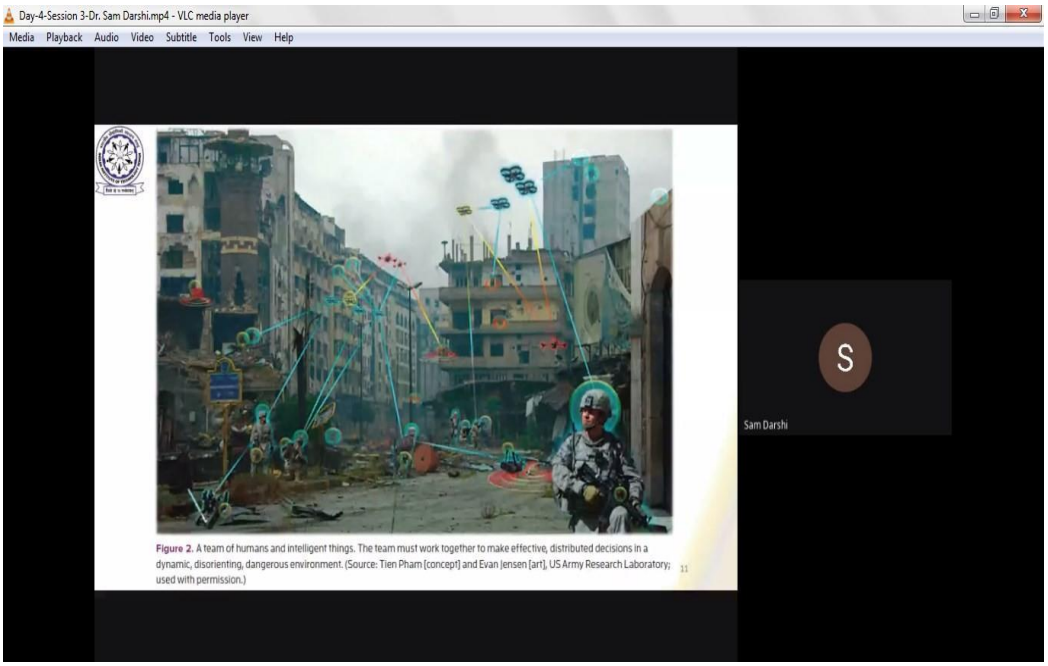


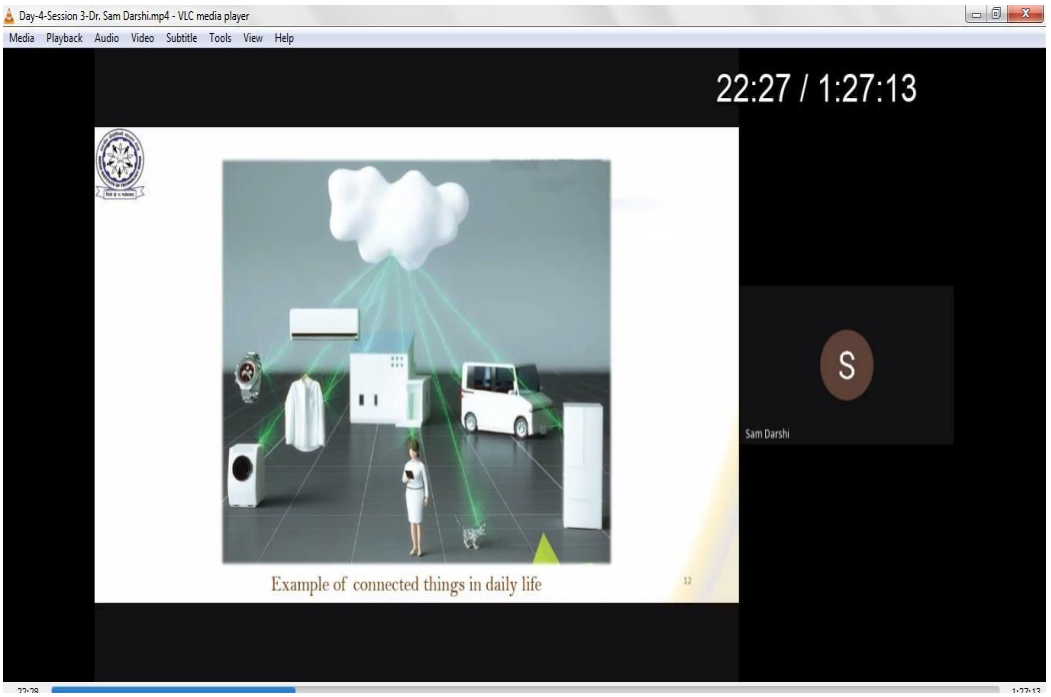
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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





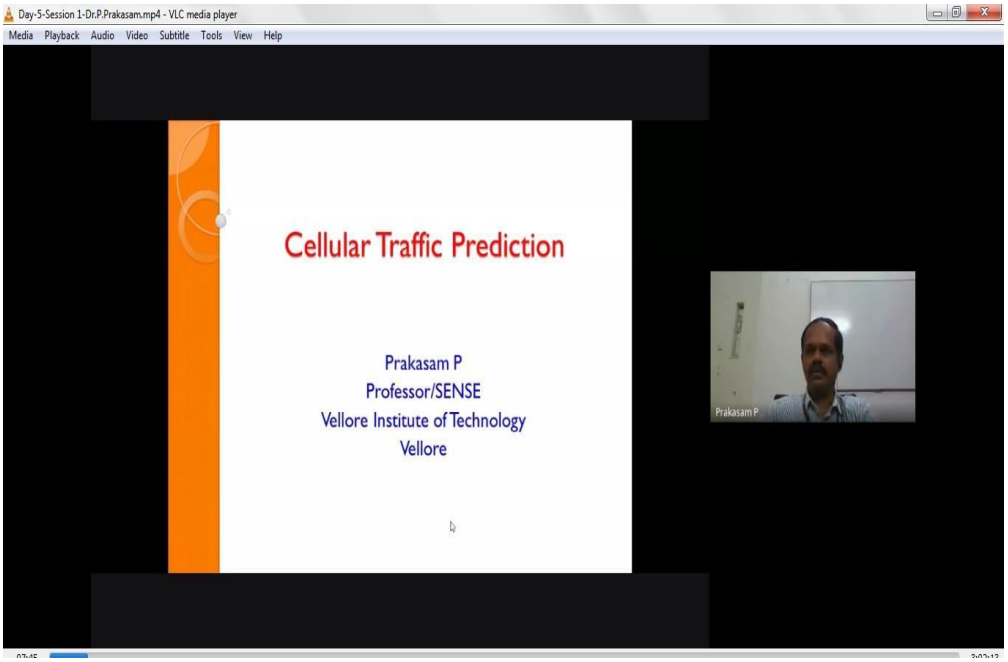
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

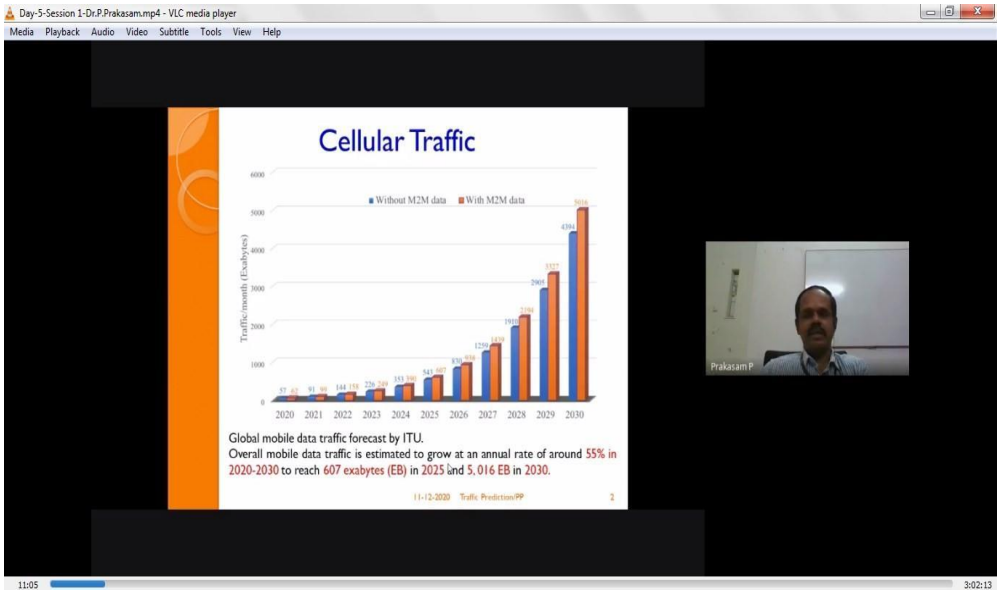
Expert Talk-13

Topic: Cellular Traffic Prediction Using Deep Learning

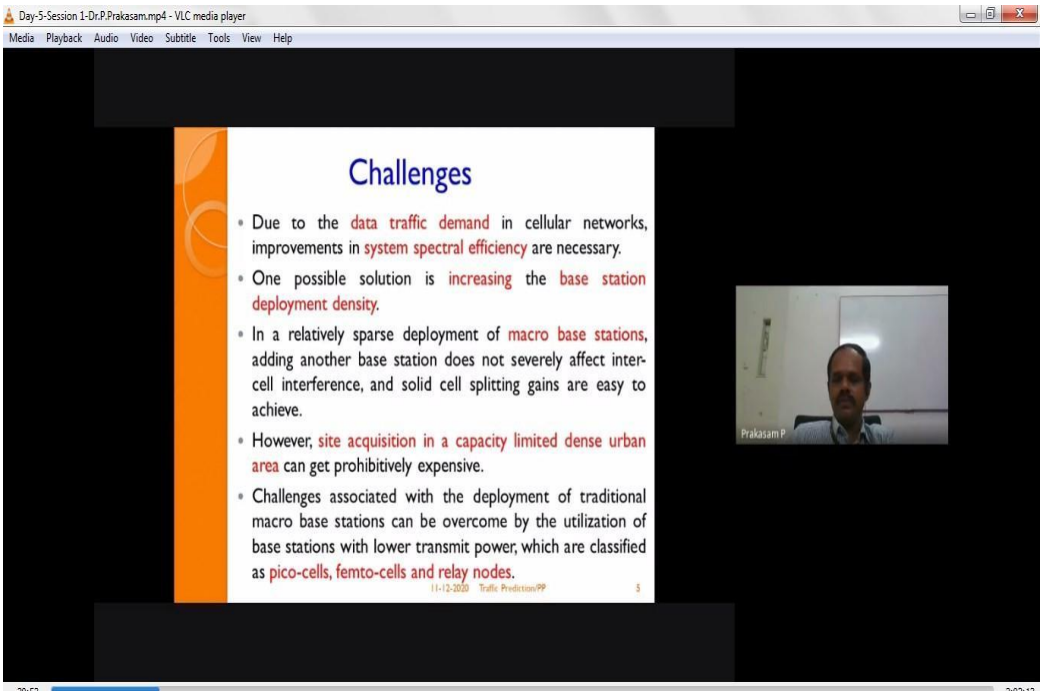
Resource Person: Dr. Prabhat Kumar Sharma, Professor& Head

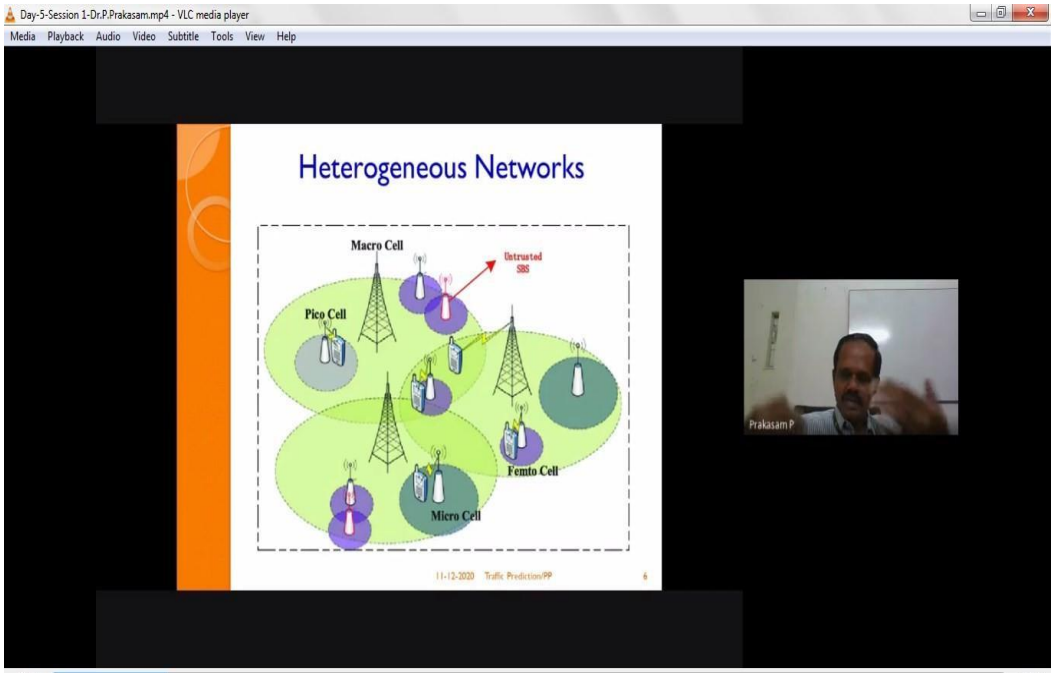
Venue: online





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



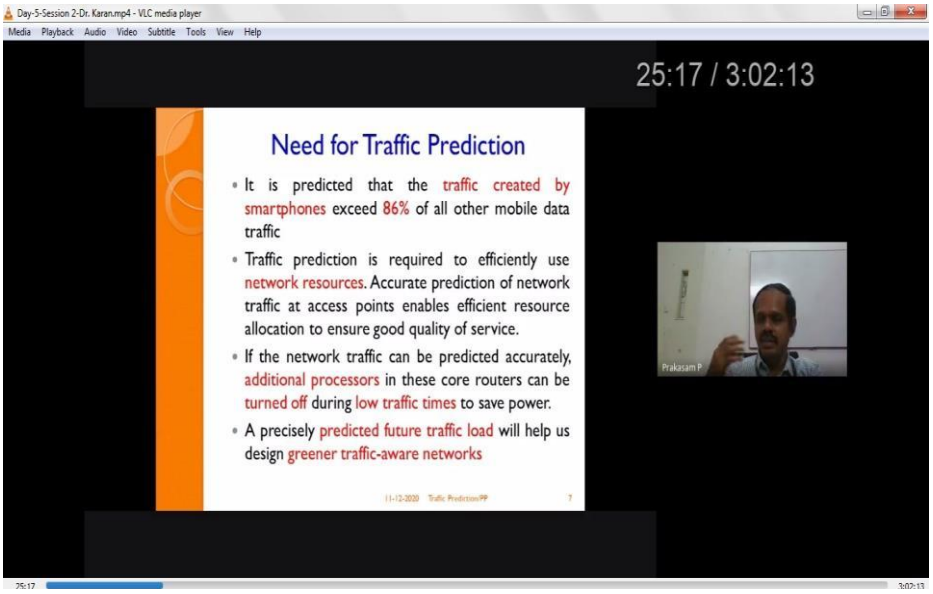


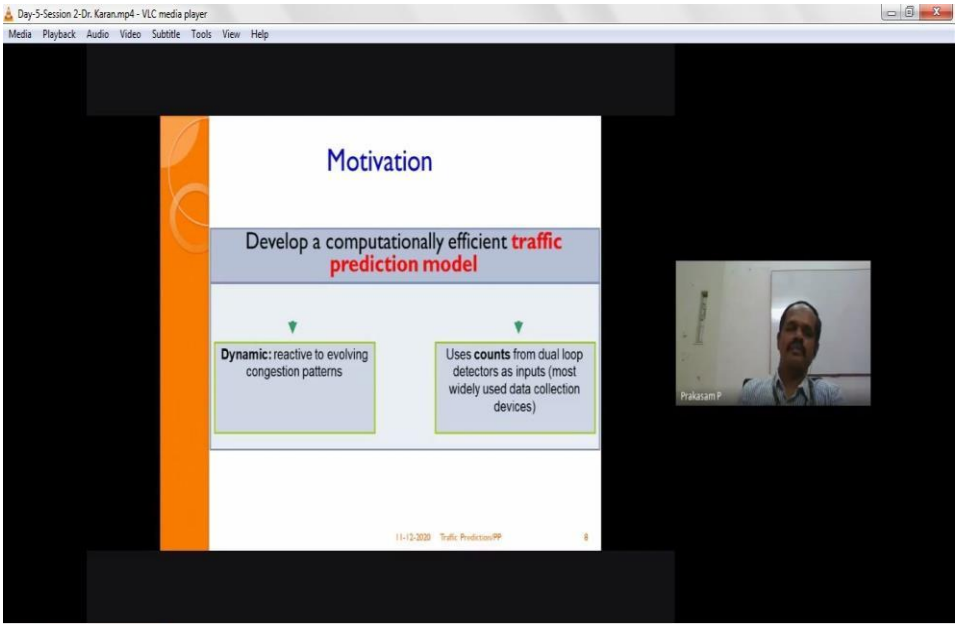
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

Expert Talk-14

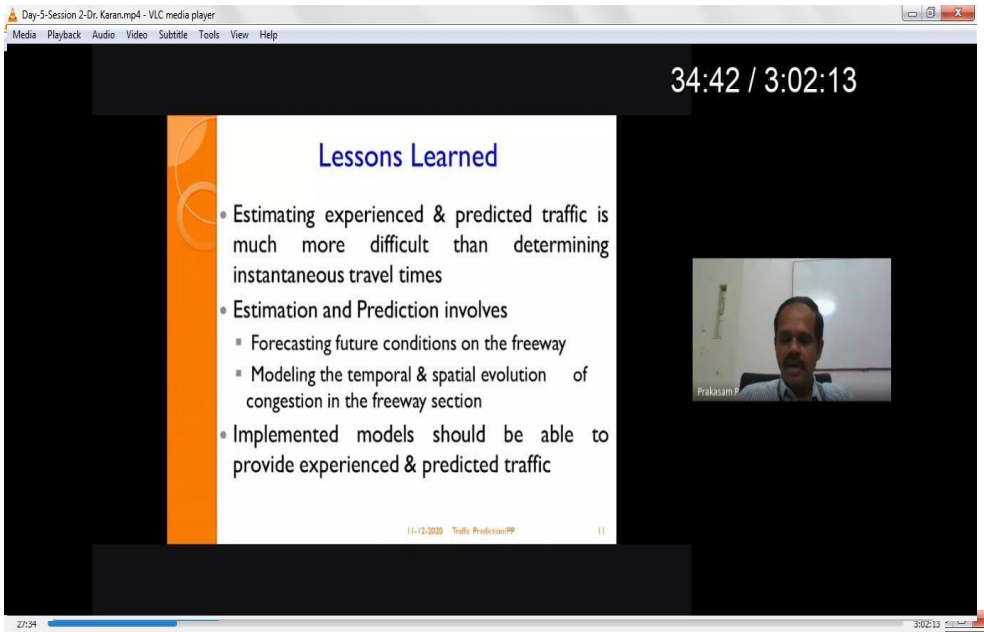
Topic: Security Issue with Mobile Ip
Resource Person: Dr. Karan Verma, Assistant Professor

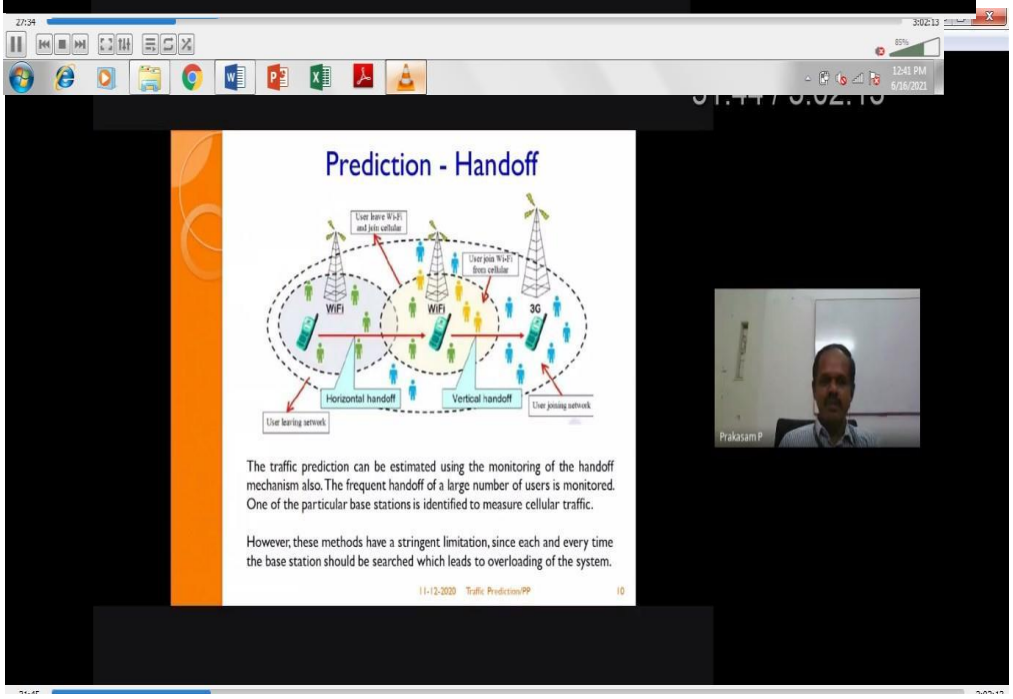
Venue: online



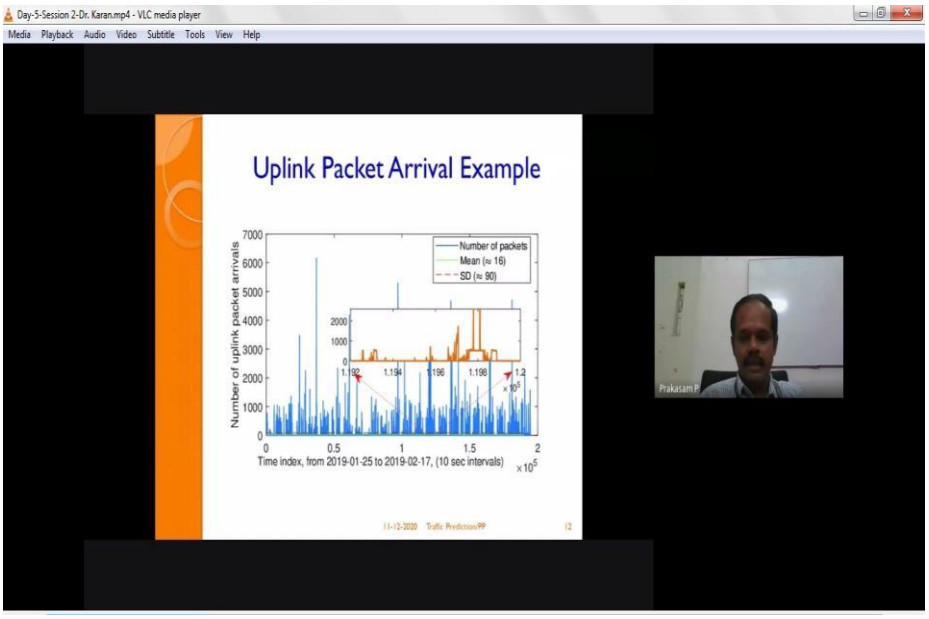


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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

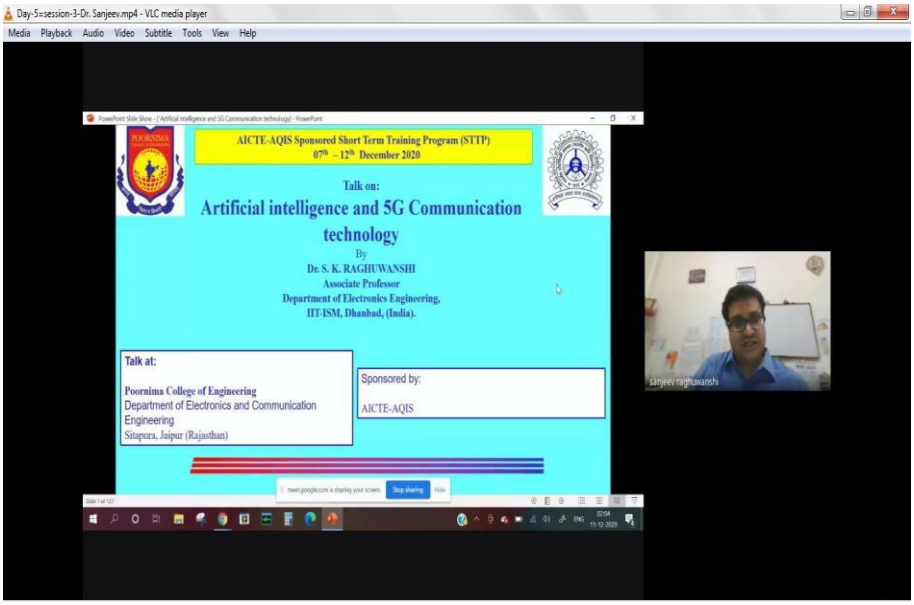


Expert Talk-15

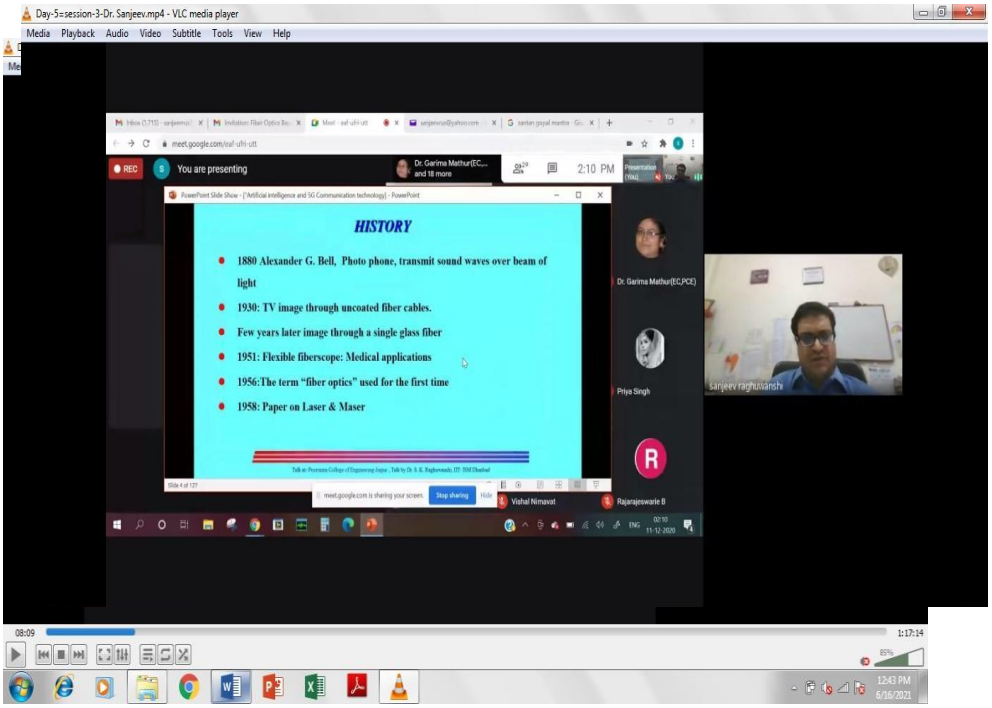
Topic: Fiber Optics Based Devices For High Speed Communication Systems

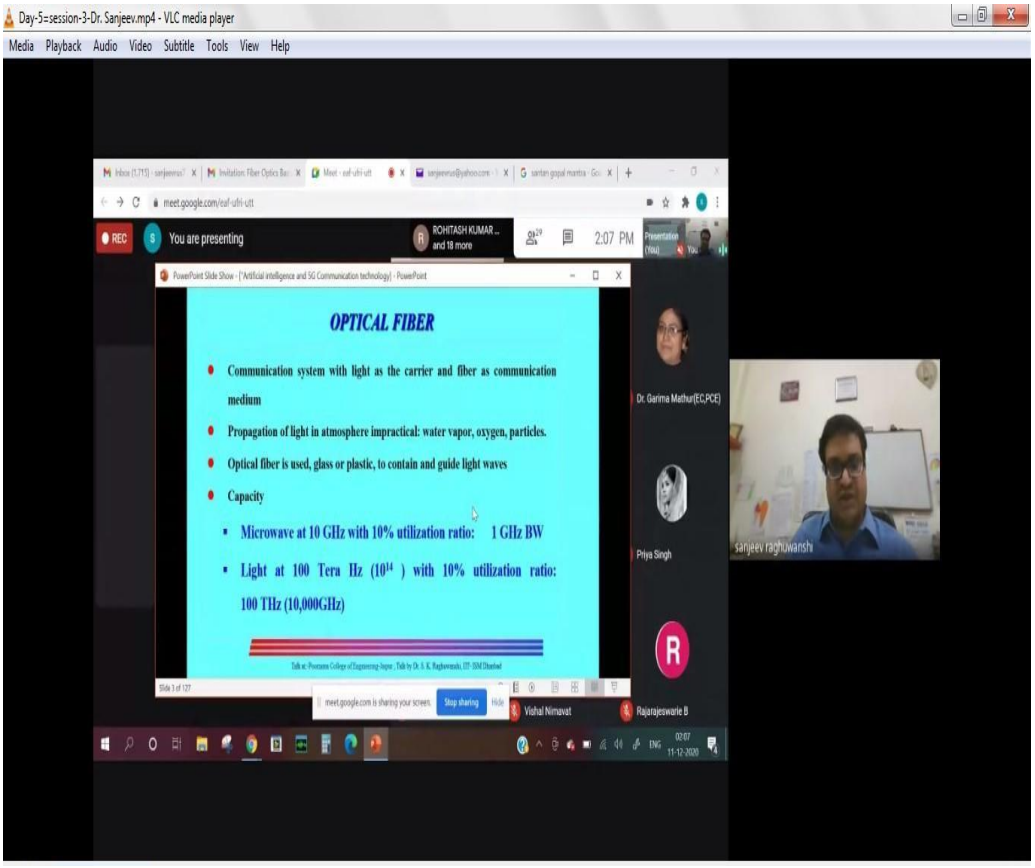
Resource Person: Dr. Sanjeev Kumar Raghuwanshi, Associate Professor

Venue: online

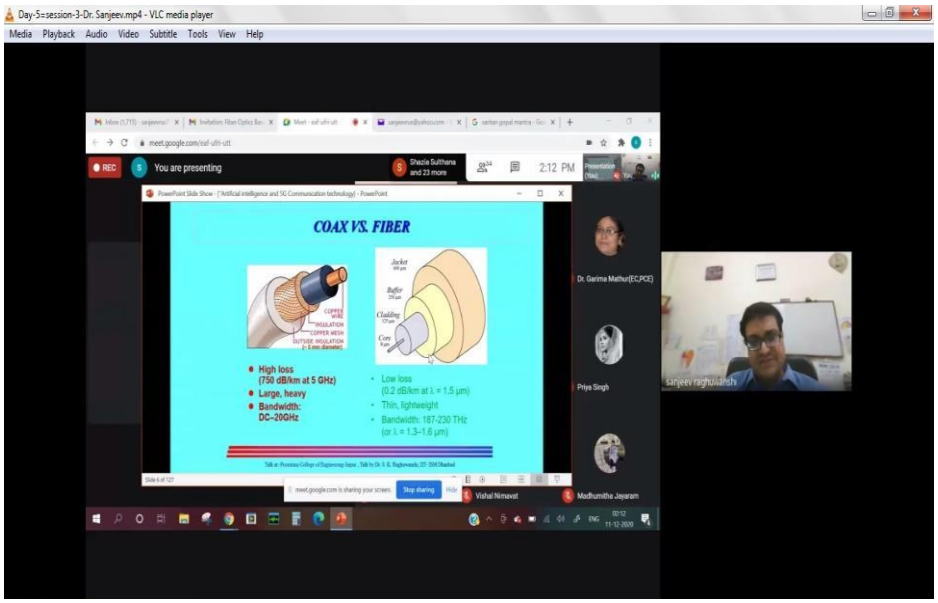


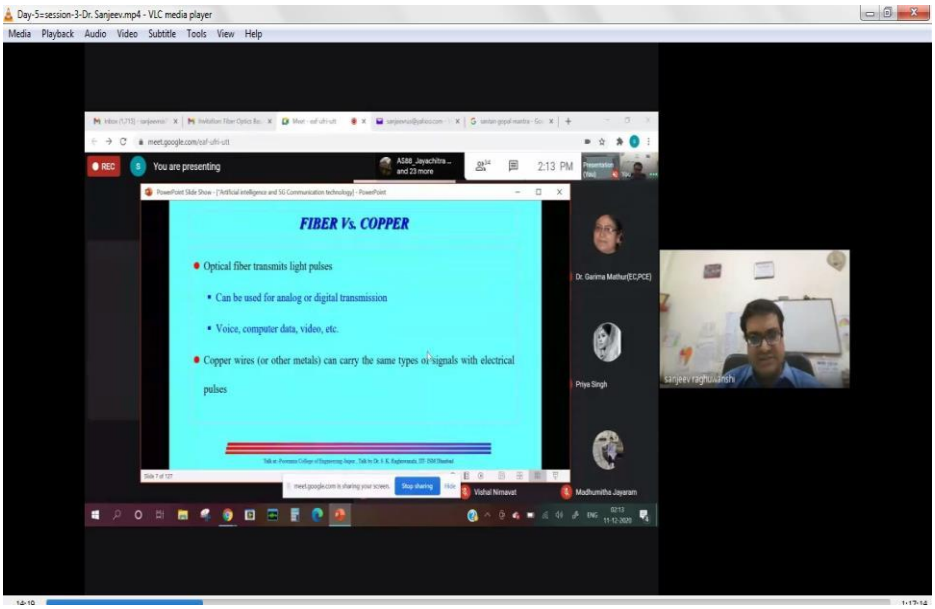
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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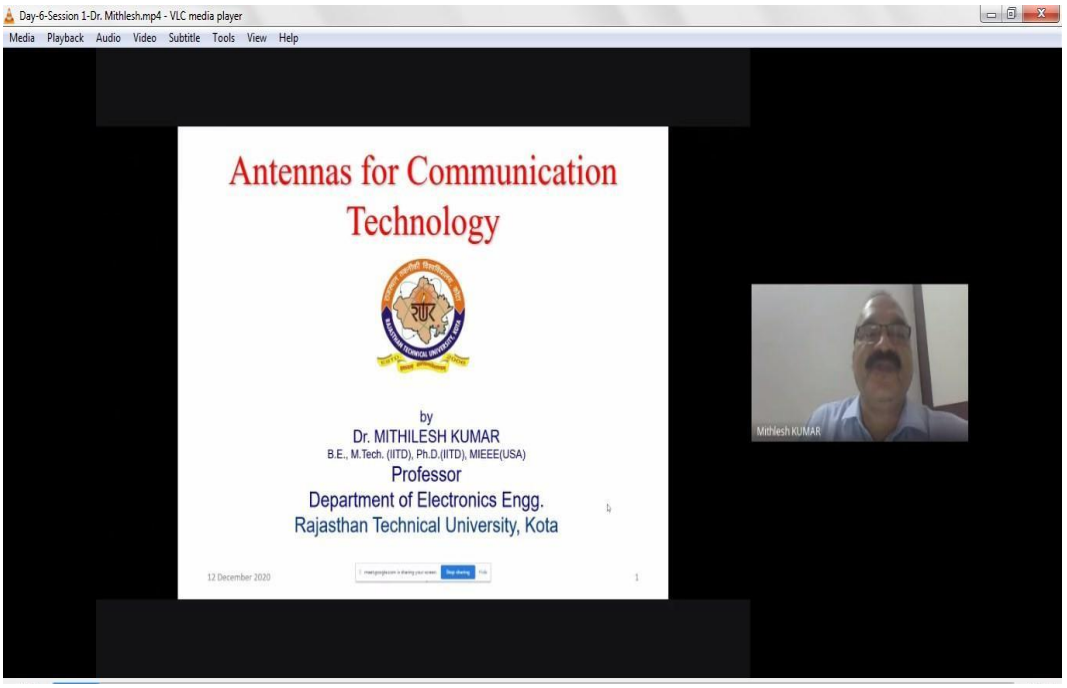




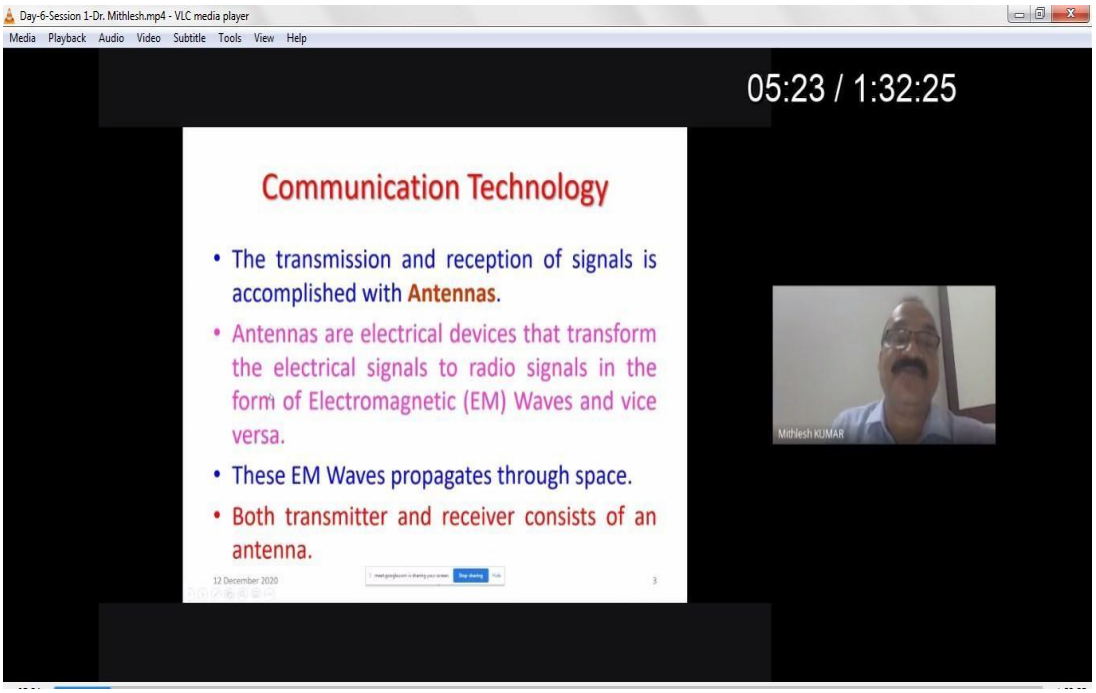
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B.E., M.E., Ph.D.
Director
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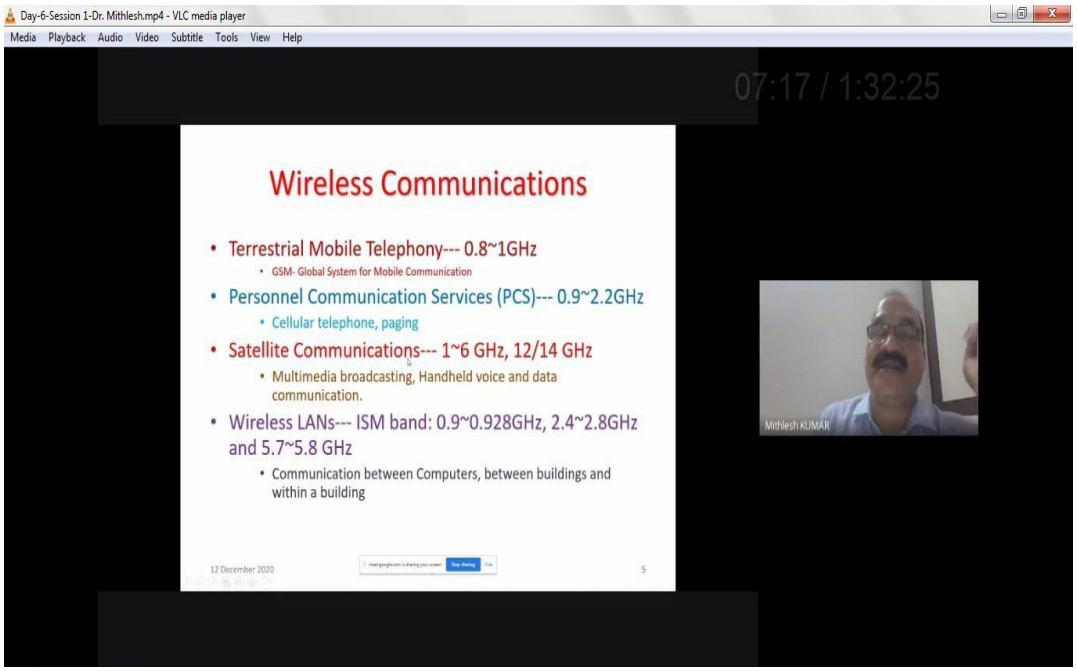
Expert Talk-16

Topic: Antennas For Communication echnologyResource Person: Dr. Mithilesh Kumar, ProfessorVenue: online

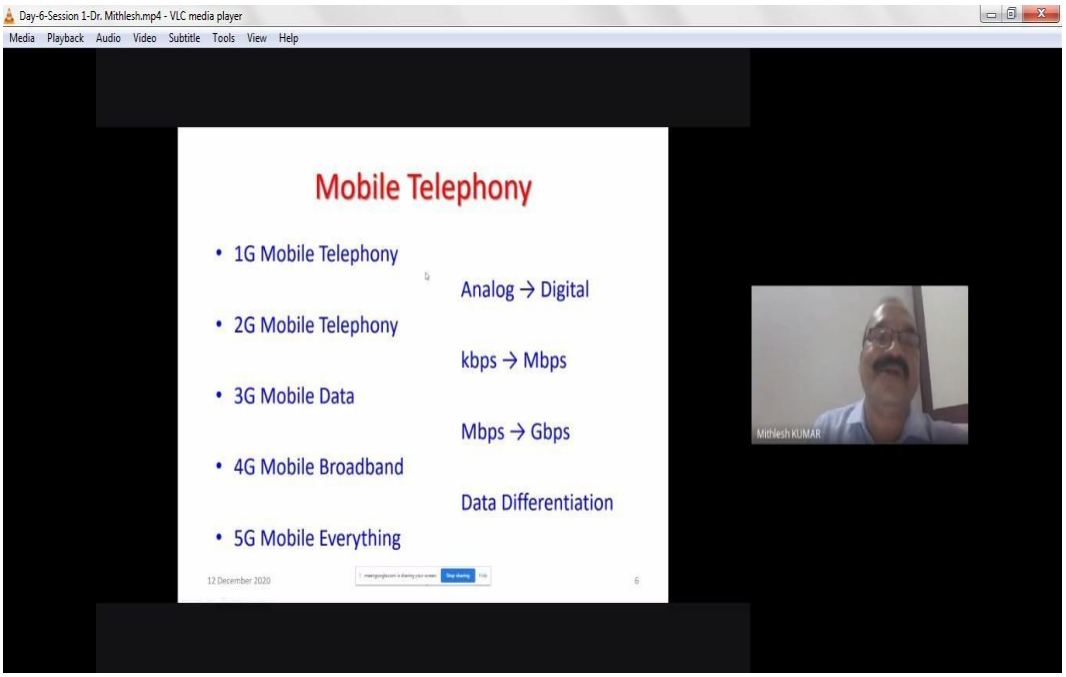


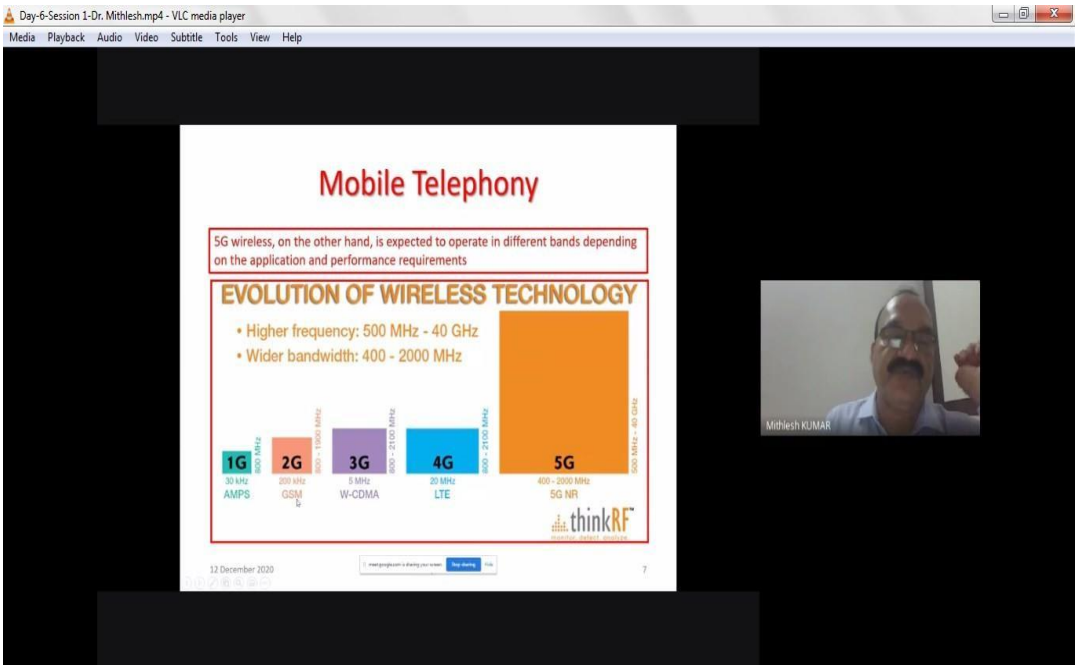
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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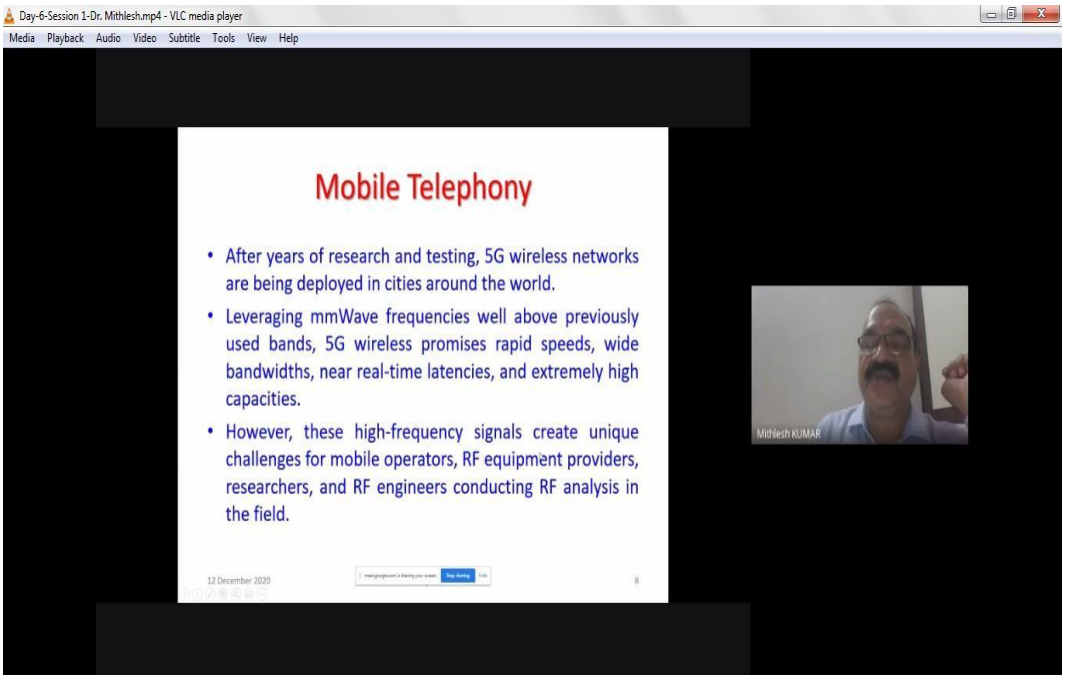


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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B.E., M.E., Ph.D.
Director
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Expert Talk-17

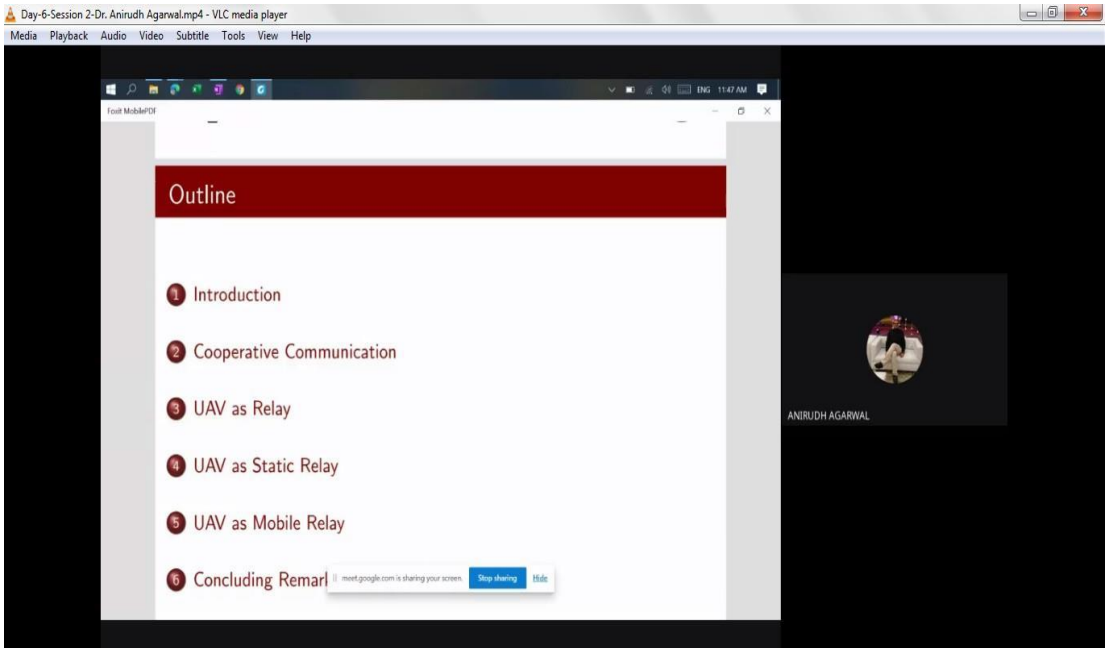
Topic: Uav Relaying Assisted Cooperative 5G Communication

Resource Person: Dr. Anirudh Agarwal, Assistant Professor

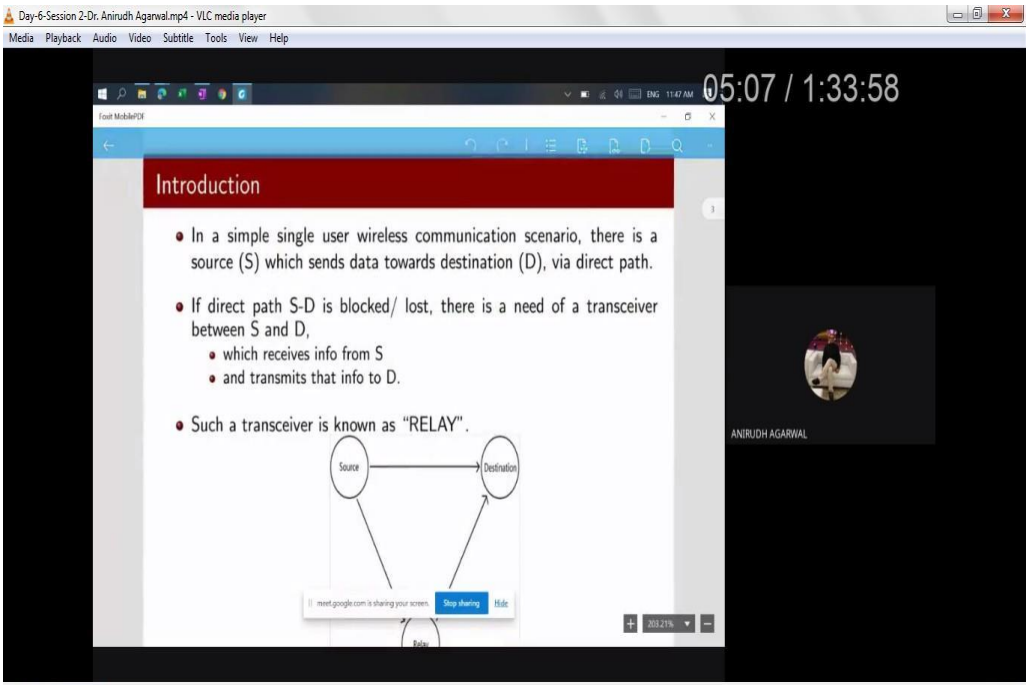
Venue: online

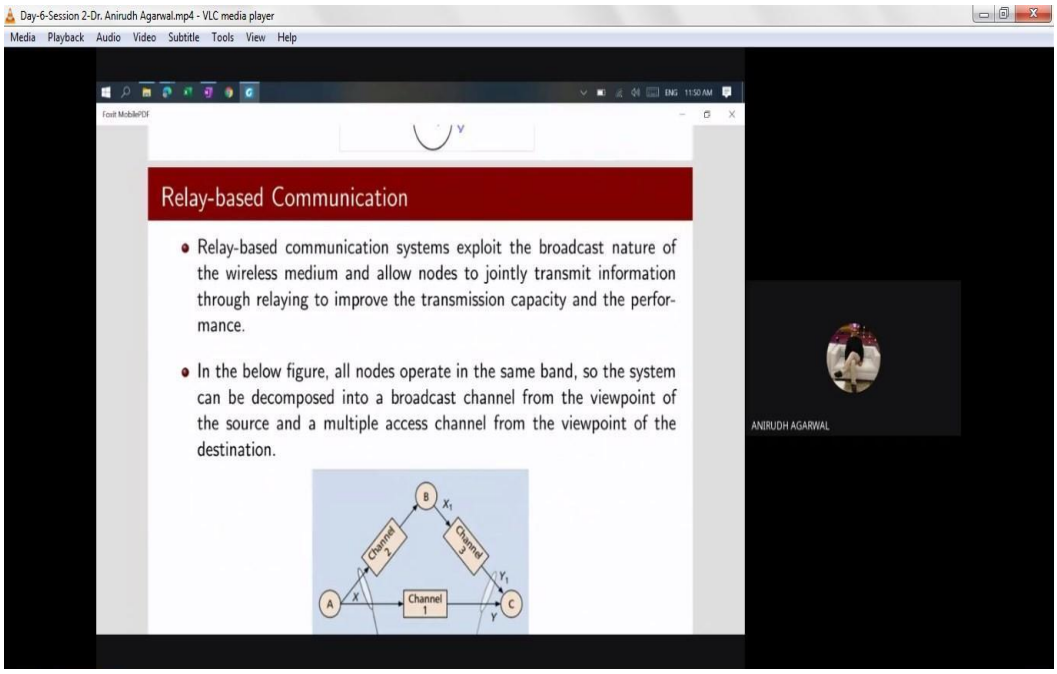


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B.E., M.E., Ph.D.
Director
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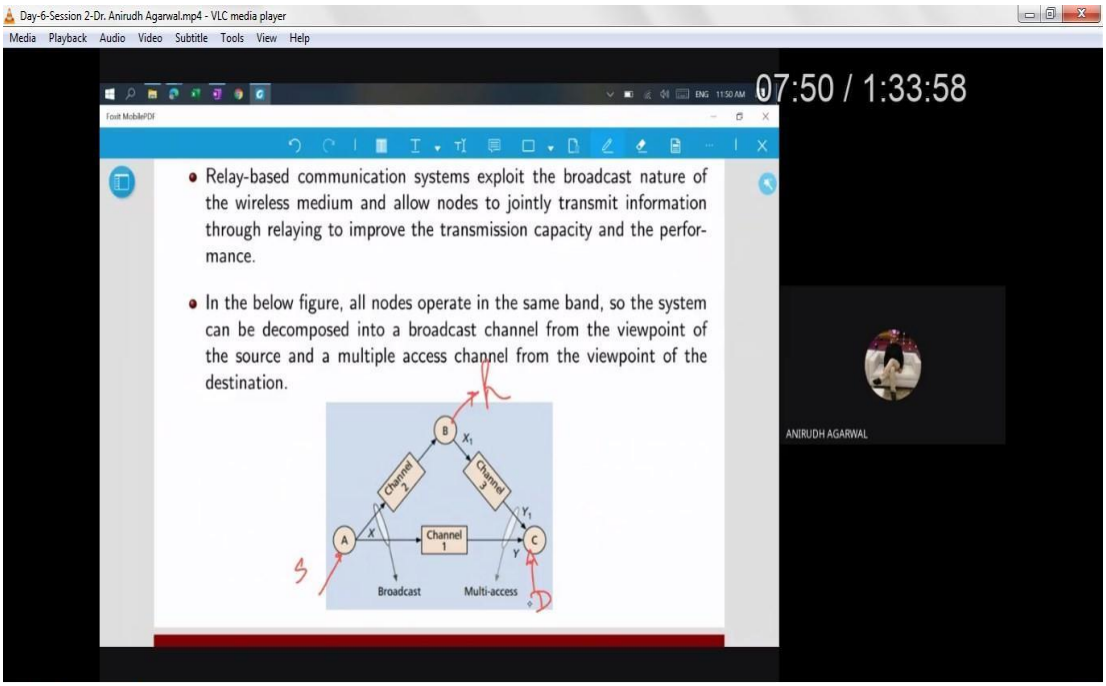


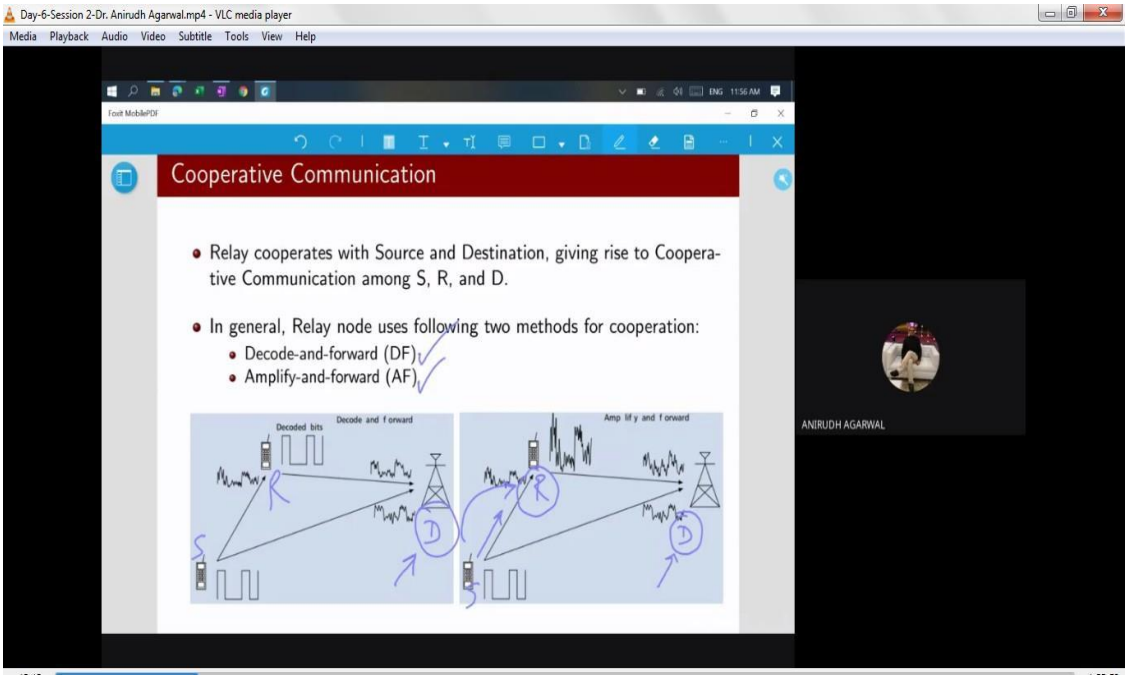
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR





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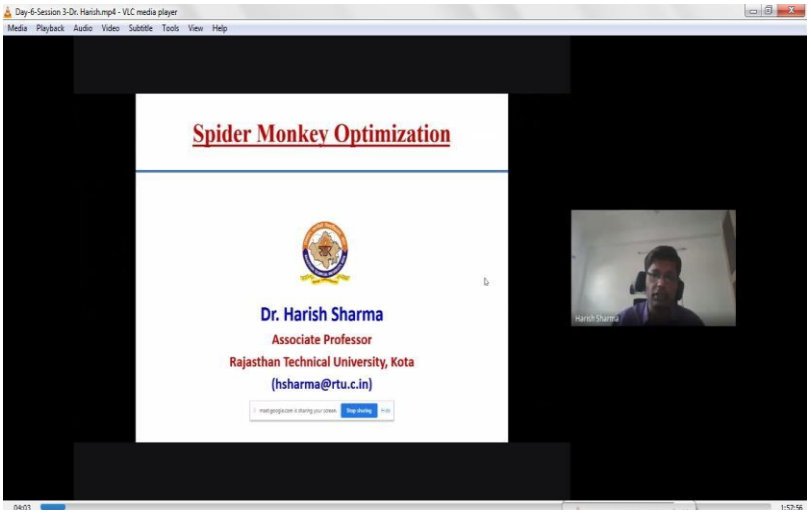


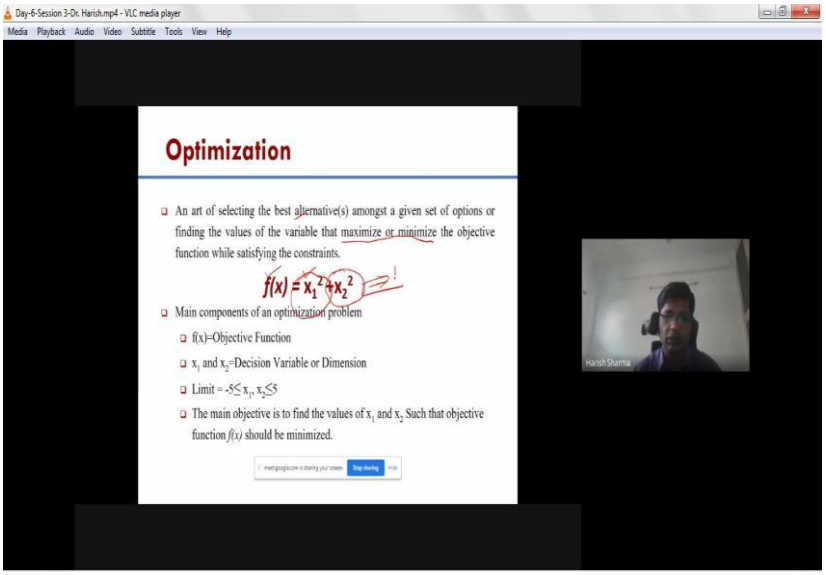
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Expert Talk-18

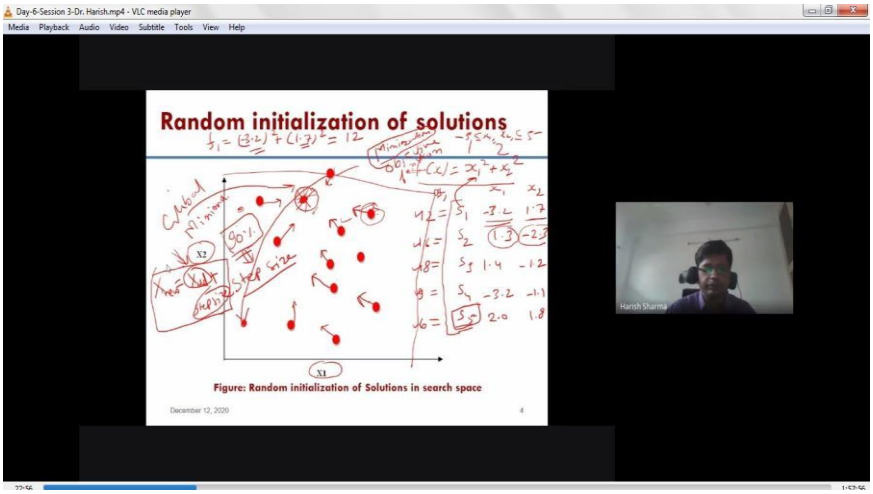
Topic: Advances in Spider Monkey Optimization Algorithm

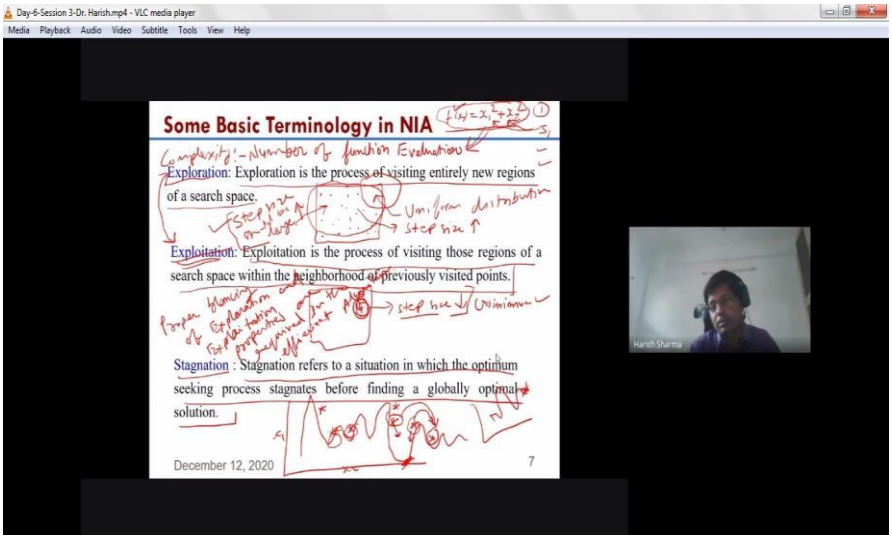
Resource Person: Dr. Harish Sharma, Associate ProfessorVenue: online





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





Valedictory session:-

After Lunch valedictory session was held. Dr. Harish Sharma, Associate Professor, RTU Kota Chief Guest, Dr. Mahesh M Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, VicePrincipal, PCE, Jaipur, Dr. Garima Mathur, Dr. Payal Bansal Coordinator, PCE, participants and faculty members attended the session. It started with the felicitation of Chief Guest Dr. Harish Kumar, by Dr. Mahesh M Bundele, Principal & Director, PCE, Jaipur. A brief report on worksop was presented by Dr. Payal Bansal, 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 participantsfor taking keen interest in learning the

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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new technologies in his address. He also appreciatedthe organizing team. Dr. Preetam Kumar 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 network security and smart antenna. Dr. Payal Bansal, Associate Professor, ECE Deptt., PCE proposed the Vote of Thanks. At the end of session a group photograph was taken with the Dignitaries including participants.

AICTE

Six Days Short Term Training Program

On

Artificial Intelligence & 5G Communication Technology

December 07 - 12, 2020

Organized by Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur

Date: December 12, 2020 Time: 03:30 PM - 04:00 PM

Venue: Online

Q- Sheet Valedictory Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Refresher Program by **Dr. Garima Mathur,** Head & Professor ECE, PCE • **Dr. Harish Sharma, Associate Professor, (Chief Guest)** • **Ar. Rahul Singhi**, Director, Poornima Group • **Dr. Mahesh Bundele,** Director & Principal, PCE • **Mr. Pankaj Dhemla,** Vice Principal, PCE	05 Min	03:30 PM - 03:35 PM
2.	Welcome address by **Dr. Mahesh Bundele**, Director & Principal, PCE	05 Min	03:35 PM - 03:40 PM

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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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3.	Motivational Words by **Ar. Rahul Singhi,** Director, Poornima Group	05 Min	03:40 PM - 03:45 PM
4.	Inaugural Address by **Chief Guest Dr. Harish Sharma, Associate Professor**	10 Min	03:45 PM - 03:55 PM
5.	Vote of Thanks by **Dr. Payal Bansal**, Associate Prof., ECE, PCE	05 Min	03:55 PM - 04:00 PM

Memories of Valedictory



ession



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

LIST OF PARTICIPANTS:

S. No.	Username	Name of Participant	Department	Name of Institute
1	divsmi@gmail.com	B. C. DIVAKARA	EC/CS/IT	Global academy of technology
2	jayachitra98@gmail.com	DR.A.JAYACHITRA	EC/CS/IT	Sri Manakula Vinayagar Engineering college
3	jay.pandey@srmu.ac.in	JAY KUMAR PANDEY	EC/CS/IT	SHRI RAMSWAROOP MEMORIAL UNIVERSITY
4	singh.priya15691@gmail.com	PRIYA SINGH	EC/CS/IT	SRMGPC, Lucknow
5	sanjay.skm97@gmail.com	SANJAY KUMAR MAURYA	EC/CS/IT	SRMCEM LUCKNOW
6	jananic@smvec.ac.in	C.JANANI	EC/CS/IT	Sri Manakula Vinayagar Engineering College
7	Chandranayakmysore@gmail.com	CHANDRANAYAK A I R	EC/CS/IT	Global academy of technology
8	sheikdawood7@gmail.com	M.SHEIK DAWOOD	EC/CS/IT	Sethu institute of technology
9	snehal.patil@rait.ac.in	MRS SNEHAL U PATIL	EC/CS/IT	RAMRAO ADIK INSTITUTE OF TECHNOLOGY(D Y PATIL)
10	rajarajeswarie.b@pec.edu	RAJARAJESWARIE. B	EC/CS/IT	Pondicherry Engineering College
11	anbunathan.sathiyapriya@gmail.com	SATHIYA PRIYA S	EC/CS/IT	PANIMALAR INTITUTE OF TECHNOLOGY
12	aarthidevacse@gmail.com	AARTHI D	EC/CS/IT	KARPAGAM COLLEGE OF ENGINEERING
13	ecanand15@gmail.com, anand_1921ee15@iitp.ac.in	ANAND KUMAR	EC/CS/IT	IIT Patna
14	chaluvadiin@gmail.com	DR. CHALUVADI BVL SUDHEER	EC/CS/IT	St.Mary's Group of Institutions Guntur
15	vishal500371@yahoo.co.in	DR. VISHAL SHRIVASTAVA	EC/CS/IT	ARYA COLLEGE OF ENGINEERING AND IT, JAIPUR
16	gaurav8a@gmail.com	DR.GAURAV VIJAY	EC/CS/IT	Career Point University
17	JAYADIPTILAL@yahoo.co.in	JAYA DIPTI LAL	EC/CS/IT	SHRI G. S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
18	krishnachaitanya.p@pragati.ac.in	KRISHNA CHAITANYA PIDUGU	EC/CS/IT	Pragati Engineering College
19	lenin.ram@gmail.com	LENIN SB	EC/CS/IT	Sri Manakula Vinayagar Engineering College
20	madhumithajayaram29@gmail.com	MADHUMITHA J	EC/CS/IT	College of Engineering, Guindy, Anna University

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

21	nileshkuchekar9@gmail.com	MR. KUCHEKAR NILESH DIGAMBAR	EC/CS/IT	PVG COET, 09, PARVATI, PUNE
22	saisudheer1978@gmail.com	MR. SAI SUDHEER KOTTA	EC/CS/IT	SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
23	vignesh.manohar@gmail.com	MR.VIGNESHWAR MANOHARAN	EC/CS/IT	Bharath Corporate, India
24	seemasrinivas01@gmail.com	SEEMA SRINIVAS	EC/CS/IT	Global Academy of Technology
25	elec.suvro@gmail.com	SUVRO KUNDU	EC/CS/IT	Tata Consultancy Services
26	umar@nitsri.net	UMAR MAJID	EC/CS/IT	NIT Srinagar
27	researchamardash@gmail.com	AMAR RANJAN DASH	EC/CS/IT	PARALA MAHARAJA ENGINEERING COLLEGE
28	anila.dhingra@poornima.org	DR. ANILA DHINGRA	EC/CS/IT	Poornima College of Engineering, Jaipur
29	vishal.nimavat.ec@vvpedulink.ac.in	DR. VISHAL DINESHCHANDRA NIMAVAT	EC/CS/IT	V.V.P. ENGINEERING COLLEGE, RAJKOT
30	dbhardwaj@bitmesra.ac.in	DR.DHEERAJ BHARDWAJ	EC/CS/IT	Birla Institute of Technology Mesra, Jaipur Campus
31	waishalipawar@gmail.com	MRS. SIDDHESHWARI S PATIL	EC/CS/IT	Sandur polytechnic
32	djyerolkar@aissmspoly.org.in	MS. DEEPA JIVANRAO YEROLKAR	EC/CS/IT	AISSMS Polytechnic, Pune
33	rs.20ec1103@phd.nitdgp.ac.in	RAJEEV SHUKLA	EC/CS/IT	NIT Durgapur
34	shazia.sulthana@gat.ac.in	SHAZIA SULTHANA	EC/CS/IT	Global Academy of Technology
35	sunilsharma96@gmail.com	SUNIL KUMAR SHARMA	EC/CS/IT	Engineering College Ajmer
36	Bohra.sunil1@gmail.com	SUNIL SHARMA	EC/CS/IT	Arya College of Engineering and I. T
37	hsdeepthi@gmail.com	DEEPTHI H S	EC/CS/IT	Global Academy of Technology
38	ps8335@srmist.edu.in	PAVITHRA S	EC/CS/IT	SRM institute of science and technology
39	Saijai2805@gmail.com	S. JAYALAKSHMY	EC/CS/IT	IFET COLLEGE OF ENGINEERING
40	sakenabenazer@gmail.com	S.SAKENA BENAZER	EC/CS/IT	Sethu institute of technology
41	sakargupta@gmail.com	SAKAR GUPTA	EC/CS/IT	Poornima College of Engineering,Jaipur
42	soundar1689@smvec.ac.in	SOUNDARARAJAN. J	EC/CS/IT	Sri Manakula Vinayagar Engineering College
43	shalini.puri@poornima.org	SHALINI PURI	EC/CS/IT	POORNIMA COLLEGE OF ENGINEERING, JAIPUR
44	ashokdbit2017@gmail.com	ASHOK KUMAR P S	EC/CS/IT	DBIT
45	ms271104@gmail.com	MRS. SONIKA SHRIVASTAVA	EC/CS/IT	SGSITS, Indore
46	rajoria.jjn@gmail.com	ROTASH KUMAR	EC/CS/IT	Government Engineering College Jhalawar

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

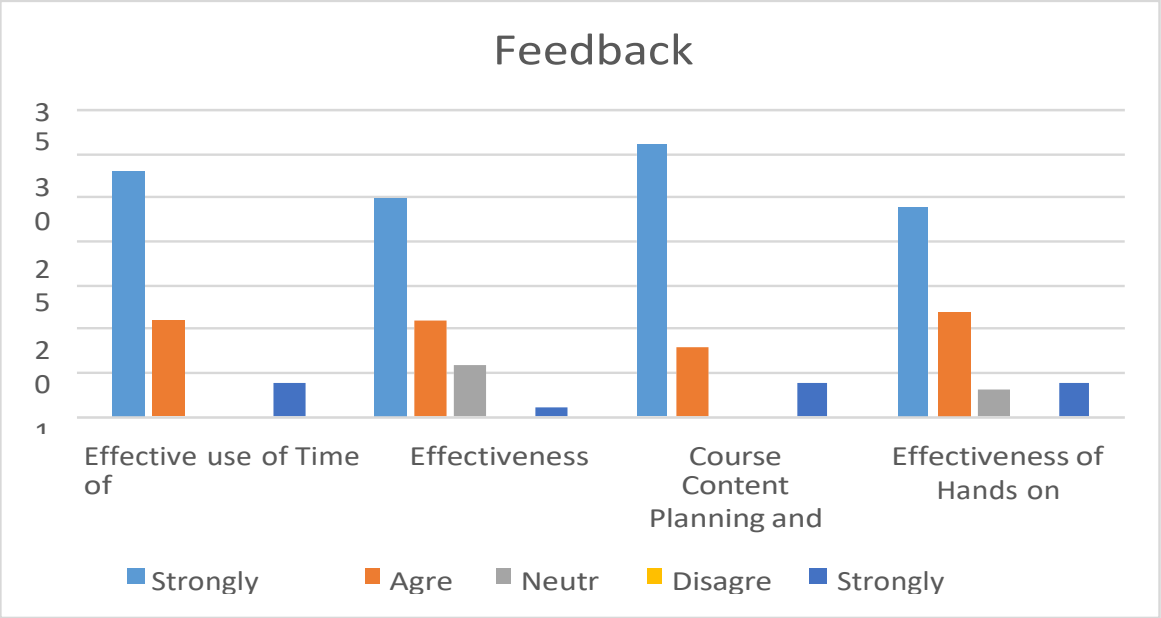
47	pradeepj@smvec.ac.in	DR. J. PRADEEP	EC/CS/IT	Sri manukula vinayakar engineering collage
48	kajla.ashok@poornima.org	DR. ASHOK KUMAR KAJLA	EC/CS/IT	Poornima College of Engineering
49	panx.16j@gmail.com	PANKAJ KUMAR SRIVASTAVA	EC/CS/IT	Jaypee Institute of Information Technology, Noida
50	shikha.sharma@poornima.edu.in	SHIKHA SHARMA	EC/CS/IT	Poornima University
51	swapna.revuri@gmail.com	SWAPNA REVURI	EC/CS/IT	VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE
52	jarunashanthi_it@mgit.ac.in	J.ARUNA SANTHI	EC/CS/IT	mahatma gandhi institute of technology
53	pradeepyadav.py3@gmail.com	PRADEEP SINGH YADAV	EC/CS/IT	Shri Shankaracharya Technical Campus
54	himani.goyal@poornima.org	HIMANI GOYAL SHARMA	EC/CS/IT	POORNIMA COLLEGE OF ENGINEERING
55	anuranjan.bit@gmail.com	ANURANJAN SINGH	EC/CS/IT	Central University of Jharkhand
56	nathansastra@gmail.com	SWAMINATHAN.S	EC/CS/IT	src,sastra
57	ashutoshpatelphd@gmail.com	ASHUTOSH PATEL	EC/CS/IT	Gujarat University
58	profdr.rizwanphd@gmail.com	DR P RIZWAN AHMED	EC/CS/IT	Mazharul Uloom College Ambur Tamil Nadu India
59	senarock500@gmail.com	RANJAN KUMAR SENAPATI	EC/CS/IT	RK University
60	pme932@gmail.com	PALLAVI SAPKALE	EC/CS/IT	RAIT
61	nandhini_svs@yahoo.com	NANDHINI VARADHARAJAN	EC/CS/IT	Bharath Corporate, India

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 has given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.

Dr. Mahesh Bundele
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Poornima College of Engineering
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- **FEEDBACK ANALYSIS:**

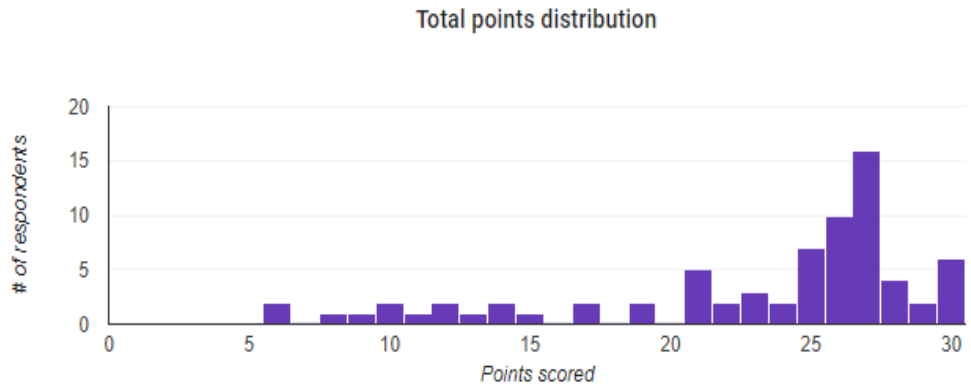
	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands on Sessions
Strongly Agree	28	25	31	24
Agree	11	11	8	12
Neutral	0	6	0	3
Disagree	0	0	0	0
Strongly Disagree	4	1	4	4



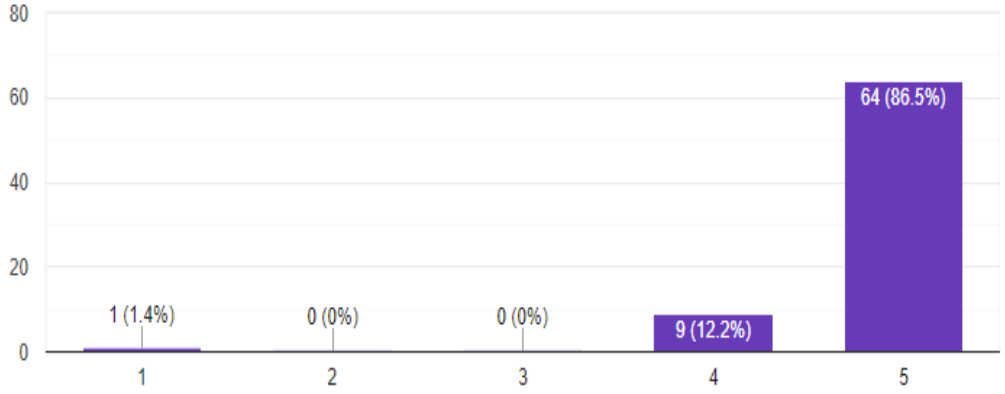
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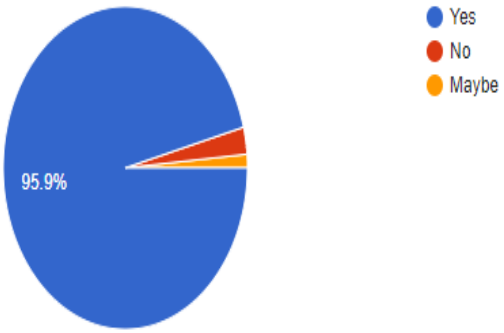
- **SWOT ANALYSIS:**

Average	Median	Range
22.91 / 30 points	26 / 30 points	6 - 30 points



How satisfied were you with the STTP content?





- **BUDGET & ACTUALS: NIL**

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

Report on 6-days Short Term Training Program

- **TITLE AND DURATION:** "Artificial Intelligence & 5G Communication Technology" from October 26-31, 2020.
- **SPONSORS:** AICTE Quality Improvement Scheme (AQIS)
- **SUPPORTERS:** Nil.
- **ORGANIZERS:** Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.
- **OBJECTIVES:** The objective of general AI is to design a system capable of thinking for itself just like humans do. Currently, general AI is still under research, and efforts are being made to develop machines that have enhanced cognitive capabilities.
- **EXPECTED OUTCOMES:**

1. Evaluate the advantages, disadvantages, challenges, and ramifications of human–AI augmentation.
2. Design and develop symbiotic human–AI systems that balance the information processing power of computational systems with human intelligence and decision making.
3. Explain the benefits, limitations, and tradeoffs of designing engaging and ethical conversational user interactions, including those supported by chat bots, smart speakers, and other AI-driven, voice-based technologies.
4. Design and evaluate conversational interfaces for different users and contexts of use.

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:**



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

SPEAKERS

Dr. Vimal Bhatiya
Professor, IIT Indore

Prof. R. Gangopadhyay
Research Professor, LNMIIT, Jaipur

Dr. Sushmita Das
Dean(FW), Professor, NIT, Rourkela

Dr. Priti Srinivas Sajja
Professor, Sardar Patel University Vallabh Vidyanagar Gujarat

Dr. Sanjay Singh
Principal Scientist, CEERI Pilani

Dr. Preetam Kumar
Associate Professor, IIT, Patna

Dr. Jagdish Chand Bansal
Associate Professor, South Asian University, New Delhi

Dr. Surbhi Sharama
Associate Professor, Thapar Institute of Engineering & Technology

Dr. Himanshu B. Mishra
Assistant Professor, IIT Dhanbad

Dr. Neelakandan Rajamohan
Assistant Professor, IIT Goa

Dr Manisha Bharti
Assistant Professor, NIT Delhi

Dr. Navin Kumar
Associate Professor, Amrita Vishwa Vidyapeetham, Bengaluru.

Dr. Swaminathan Ramabadran
Assistant Professor, IIT Indore

Dr. Amit Rathi
Associate Professor (Senior Scale), Manipal University, Jaipur

Dr. Prabhat Kumar Sharma
Assistant Professor, VNIT, Nagpur

Javad Baig D
Embedded Engineer, EdGate Technologies Pvt Ltd |, Bangalore

Jeevaprasath A
Embedded System Engineer, EdGate Technologies Pvt Ltd |, Bangalore

Mr. Puneet Mathur
AI CONSULTANT, Bengaluru, Karnataka, India

REGISTRATION AND FEE PARTICULARS

- Faculty/Research Scholars from Universities/ AICTE recognized Institutions are only eligible.
- No Registration Fees
- Last Date of Registration: **October 23, 2020**
- E-Certificates will be provided after successful completion of STTP
- Registration Link: **http://tiny.cc/aict2**

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of communication such as IITs, NITs, and other premier institutes.

IMPORTANT DATES

Last date for Registration	**October 23, 2020**
Intimation of selection by mail	**October 24, 2020**
STTP Duration	**October 26-31, 2020**

CORRESPONDENCE

Dr. Garima Mathur
Head, Department Electronics & Communication Engineering,
Poornima College of Engineering, Jaipur
✆ : +91-9829393517
✉ : drg.mathur@poornima.org



POORNIMA
COLLEGE OF ENGINEERING
ISI-6, RIICO Institutional Area, Sitapura, Jaipur
www.pce.poornima.org

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Artificial Intelligence and 5G Communication Technology

October 26-31, 2020

Sponsored by



Organized by
Department of
Electronics & Communication Engineering

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

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 DEPARTMENT

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 & 2018 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 STTP

The aim of this STTP is to enhance the AI research also overlaps with tasks such as robotics, control systems, scheduling, data mining, logistics, speech recognition, facial recognition and many others. Upgrading the new era in 5G to handle data from millions more IoT devices and install low-power sensors. 5G is not only important because it has the potential to support millions of devices at ultrafast speeds, but also because it has the potential to transform the lives of people around the world. Improvements in 5G technology can help make life better.

Course Modules

- Recent Trends in Cognitive Radio Communications
- 5G New Radio : Understanding IMT 2020 Radio Interface Technology
- 5G Communications : Specifications, Use cases, and PHY layer techniques
- A Survey of 5G Communication: Emerging Technologies & Future Aspects
- Novel Modulation Scheme for the Next Generation of Wireless Communications
- 5G, MSA and Optimization of MSA Using PARTICLE Swarm Optimization Operational Research Method
- Signal Processing in 5G mmWave Massive MIMO
- Metaheuristic based Artificial Intelligence for the Deployment of 5G
- Introduction to Python Programming
- Development of Real-time Intelligent Systems for Various Computer Vision Applications
- Artificial Intelligence and Machine Learning Applications on Post COVID Era
- Introduction to Machine Learning Model
- Wireless Communication systems for 5G or beyond
- Building IOT applications using Machine Learning
- Computational Intelligence Vs Artificial Intelligence
- Reliable communication in UWB Body Area Network
- Enabling Techniques for 5G - The New Radio
- 5G: Challenges and Enabling Technologies

OBJECTIVES OF STTP

- To provide an exposure to the participants regarding current scenario in advanced communication technologies & their applications.
- To provide the knowledge of cutting edge researches and developments carried out/observed by the Eminent Speakers in advance communication domains (from IITs, NITs, other Esteemed Institutions & Industry), for products having immediate industrial applications for self-reliance of the Country

PATRON

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

ADVISORS

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

Dr. Rekha Nair
Dean, First Year, Poornima College of Engineering, Jaipur

Mr. Devendra Somwanshi
Registrar, Poornima College of Engineering, Jaipur

CONVENOR

Dr. Garima Mathur
Head of Department ECE, Poornima College of Engineering

COORDINATORS

Dr. Payal Bansal
Associate Professor,
ECE, PCE

Mr. Tarun Mishra
Assistant Professor
ECE, PCE

CO-COORDINATOR

Mr. Jitendra Gupta
Assistant Professor, ECE, PCE

PCE ORGANIZING COMMITTEE

Dr. Anila Dingra	Associate Professor, ECE
Mr. Amit Kumar Jain	Assistant Professor, ECE
Mr. Durgesh Kumar	Assistant Professor, ECE
Mr. Manish Sharma	Assistant Professor, ECE
Ms. Manisha Kumawat	Assistant Professor, 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

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

Department of Electronics & Communication Engineering

Second AICTE-AQIS Sponsored Short Term Training Program (STTP) on Artificial Intelligence and 5G Communication Technology from October 26-31, 2020

	9:30 AM	10:00AM -11:30 AM	11:45 AM 01:15 PM	02:00 PM 03:30 PM
Monday (26.10.20)	**Inaugural Session Chief Guest**: Dr. Vimal Bhatiya, Professor, IIT Indore	**Recent Trends in Cognitive Radio Communications** Dr. Vimal Bhatiya, Professor, IIT Indore	**5G New Radio: Understanding IMT 2020 Radio Interface Technology** Dr. Navin Kumar, Associate Professor, Amrita Vishwa Vidyapeetham, Bengaluru.	**5G Communications: Specifications, Use cases, and PHY layer techniques** Dr. Swaminathan Ramabadran, Assistant Professor, IIT Indore
Tuesday (27.10.20)		**A Survey of 5G Communication: Emerging Technologies & Future Aspects** Dr. Manisha Bharti, Assistant Professor, NIT Delhi	**Novel Modulation Scheme for the Next Generation of Wireless Communications** Dr. Himanshu B. Mishra, Assistant Professor, IIT Dhanbad	**5G, MSA and Optimization of MSA Using PARTICLE Swarm Optimization Operational Research Method** Dr. Amit Rathi, Associate Professor (Senior Scale), Manipal University, Jaipur
Wednesday (28.10.20)		**Signal Processing in 5G mmWave Massive MIMO** Dr. Neelakandan Rajamohan, Assistant Professor, IIT Goa	**Metaheuristic based Artificial Intelligence for the Deployment of 5G** Dr. Surbhi Sharma, Associate Professor, Thapar Institute of Engineering & Technology	**Introduction to Python Programming** Javad Baig D, Embedded Engineer, EdGate Technologies Pvt. Ltd, Bangalore
Thursday (29.10.20)		**Development of Real-time Intelligent Systems for Various Computer Vision Applications** Dr. Sanjay Singh, Principal Scientist, CEERI Pilani	**Artificial Intelligence and Machine Learning Applications on Post COVID Era** Dr. Priti Srinivas Sajja, Professor, Sardar Patel University, Vallabh Vidyanagar, Gujarat	**Introduction to Machine Learning Model Jeevaprasath, Embedded System Engineer,** EdGate Technologies Pvt Ltd, Bangalore
Friday (30.10.20)		**Wireless Communication systems for 5G or Beyond** Dr. Prabhat Kumar Sharma, Assistant Professor, VNIT, Nagpur	**Building IOT Applications Using Machine Learning** Mr. Puneet Mathur, AI Consultant, Bengaluru, Karnataka	**Computational Intelligence Vs Artificial Intelligence** Dr. Jagdish Chand Bansal, Associate Professor, South Asian University, New Delhi
Saturday (10.10.20)		**Reliable communication in UWB Body Area Network** Dr. Sushmita Das, Dean(FW), Professor, NIT, Rourkela	**Enabling Techniques for 5G - The New Radio** Prof. R. Gangopadhyay, Research Professor, LNMIIT, Jaipur	**5G: Challenges and Enabling Technologies** Dr. Preetam Kumar, Associate Professor, IIT, Patna

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

- **INAUGURAL SESSION:**

SHORT TERM TRAINING PROGRAM

on

Artificial Intelligence & 5G Communication Technology

October 26 -31, 2020

Sponsored by AICTE Quality Improvement Scheme (AQIS)

Organized by Department of Electronics & Communication Engineering,

Poornima College of Engineering, Jaipur

Date: October 26, 2020 **Time: 09:30 – 10:05 AM**

Venue: Online (https://meet.google.com/eaf-ufri-utt)

Q- Sheet Inaugural Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of STTP by **Dr. Garima Mathur,** Head & Professor ECE, PCE • **Dr. Vimal Bhatia,** Professor, IIT Indore **(Chief Guest)** • **S Uday Kiran Reddy,** IES, INMMS, Joint Controller of Procurement (Naval stores), Kochi **(Guest of Honour)** • **Ar. Rahul Singhi**, Director, Poornima Group • **Dr. Mahesh Bundele,** Director & Principal, PCE, Jaipur • **Mr. Pankaj Dhemla,** Vice Principal, PCE, Jaipur	03 Min	09:30 am-09:33 am
2.	Welcome address by **Dr. Mahesh Bundele,** Director & Principal, PCE, Jaipur	05 Min	09:33 am-09:38 am
3.	Motivational Words by **Ar. Rahul Singhi,** Director, Poornima Group	05 Min	09:38 am- 09:43 am
4.	Welcome Address by **Guest of Honour S Uday Kiran Reddy,** IES, INMMS, Joint Controller of Procurement (Naval stores), Kochi	10 Min	09:43 am- 09:53 am
5.	Inaugural Address by **Chief Guest Dr. Vimal Bhatia, Professor, IIT Indore**	10 Min	09:53 am-10:03 am
6.	Vote of Thanks by **Dr. Payal Bansal**, Associate Professor, ECE, PCE	02 Min	10:03 am-10:05am

Dr. Mahesh Bundele
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- **DETAILS OF RESOURCE PERSONS:**

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Day 1: 26Th October, 2020:

Inaugural session witnessed the presence of Chief Guest Prof, Vimal Bhatia Professor IIT Indore, Guest of honour Mr. S. Uday Kiran Reddy, IES, INMMS, joint director controller of procurement, Kochi ,Dr. Mahesh Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur convenor of STTP & Dr. Payal Bansal Coordinator of STTP, PCE, participants along with the faculty members. The event started with the online inaugural ceremoney in presence of chief guest Prof. Vimal Bhatia Professor IIT Indore, Guest of honour Mr. S. Uday Kiran Reddy, IES, INMMS, joint director controller of procurement, Kochi & Dr. Mahesh Bundele, Director PCE. Dr Garima Mathur addressed the participants about the STTP & 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 Artificial Intelligence. Dr. Vimal Bhatia addressed the gathering with his knowledgeable words, & then after Mr. Reddy updated the participants about the new technologies to be on work. In last the inaugural session concluded by vote of thanks delivered by Dr. Payal Bansal.

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Director
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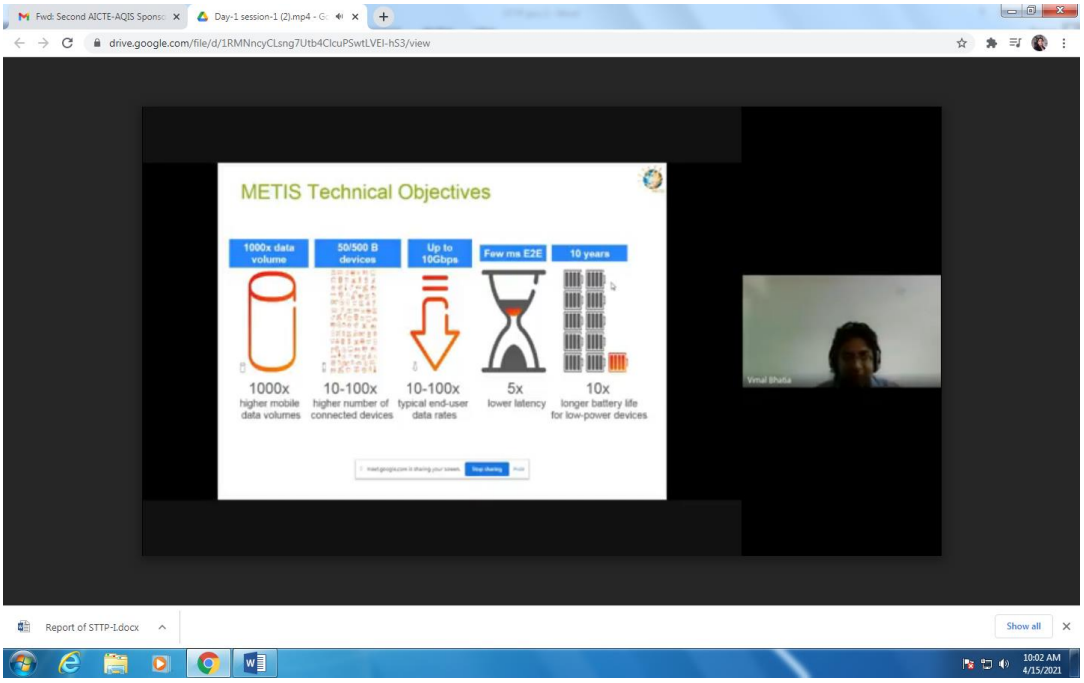
Expert Talk-1

Topic: Recent Trends in Cognitive Radio Communications

Resource Person: Prof. Vimal Bhatia, IIT Indore

Venue: Online Via Google Meet

Prof. Vimal Bhatia, IIT Indore delivered his talk on **Recent Trends in Cognitive Radio Communications**. He told us about the current radio, its applications etc. He also update about the new unique features bring some new challenges in the design of the new transreceivers with 5G Communication. Also brief about the security aspects of the 5G & its BW, Its advantages, its speed etc.



Expert Talk-2

Topic: 5G New Radio: Understanding IMT 2020 Radio Interface Technology

Resource Person: Dr. Navin Kumar, Associate Professor, Amrita Vishwa Vidyapeetham, Bengaluru.

Venue: online

Expert Talk-3

Topic: 5G Communications: Specifications, Use cases, and PHY layer techniques

Resource Person: Dr. Swaminathan Ramabadran, Assistant Professor, IIT Indore

Venue: online

Expert Talk-4

Topic: A Survey of 5G Communication: Emerging Technologies & Future Aspects

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

Resource Person: Dr Manisha Bharti, Assistant Professor, NIT Delhi

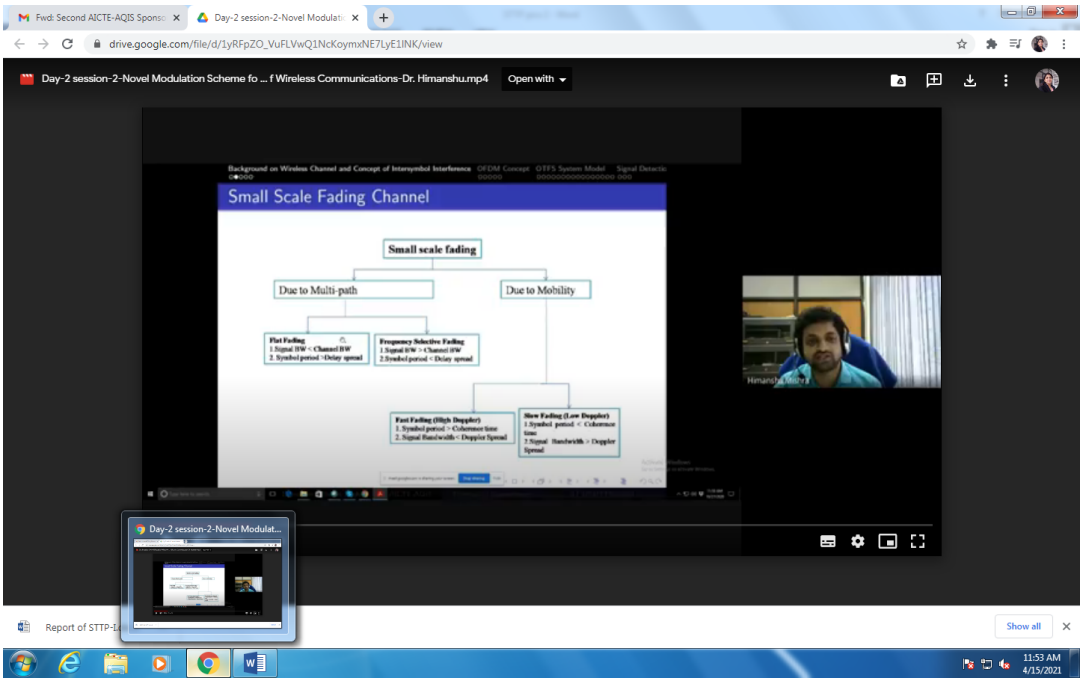
Venue: online

Expert Talk-5

Topic: Novel Modulation Scheme for the Next Generation of Wireless Communications

Resource Person: Dr. Himanshu B. Mishra, Assistant Professor, IIT Dhanbad

Venue: online



Expert Talk-6

Topic: 5G Communications: Specifications, Use cases, and PHY layer techniques

Resource Person: Dr. Amit Rathi , Associate Professor (Senior Scale), Manipal University, Jaipur

Venue: online

Expert Talk-7

Topic: Signal Processing in 5G mmWave Massive MIMO

Resource Person: Dr. Neelakandan Rajamohan, Assistant Professor, IIT Goa

Venue: online

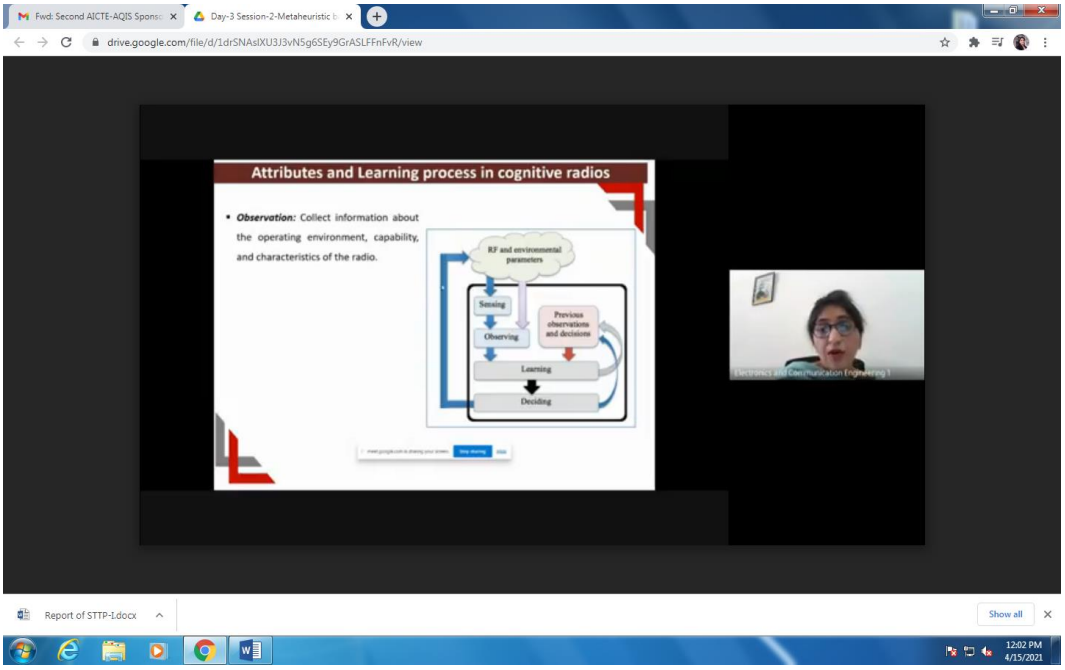
Expert Talk-8

Topic: Metaheuristic based Artificial Intelligence for the Deployment of 5G

Resource Person: Dr. Surbhi Sharama, Associate Professor, Thapar Institute of Engineering & Technology

Venue: online

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



Expert Talk-9

Topic: Introduction to Python Programming

Resource Person: Javad Baig D, Javad Baig D, EdGate Technologies Pvt Ltd|, Bangalore

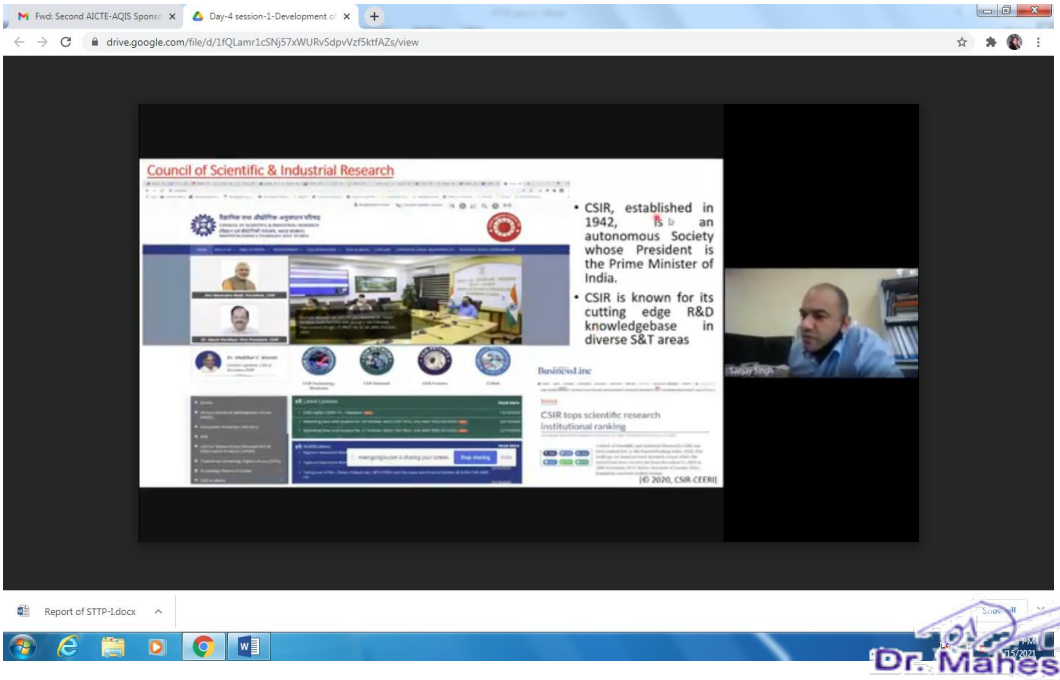
Venue: online

Expert Talk-10

Topic: Development of Real-time Intelligent Systems for Various Computer Vision Applications

Resource Person: Dr. Sanjay Singh, Principal Scientist, CEERI Pilani

Venue: online



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

Expert Talk-11

Topic: Artificial Intelligence and Machine Learning Applications on Post COVID Era

Resource Person: Dr. Priti Srinivas Sajja, Professor, Sardar Patel University,

Venue: online

Expert Talk-12

Topic: Introduction to Machine Learning Model

Resource Person: JEEVAPRASATH A, Embedded System Engineer, EdGate Technologies Pvt. Ltd, Bangalore.

Venue: online

Expert Talk-13

Topic: Wireless Communication systems for 5G or beyond

Resource Person: Dr. Prabhat Kumar Sharma, Assistant Professor, VNIT, Nagpur.

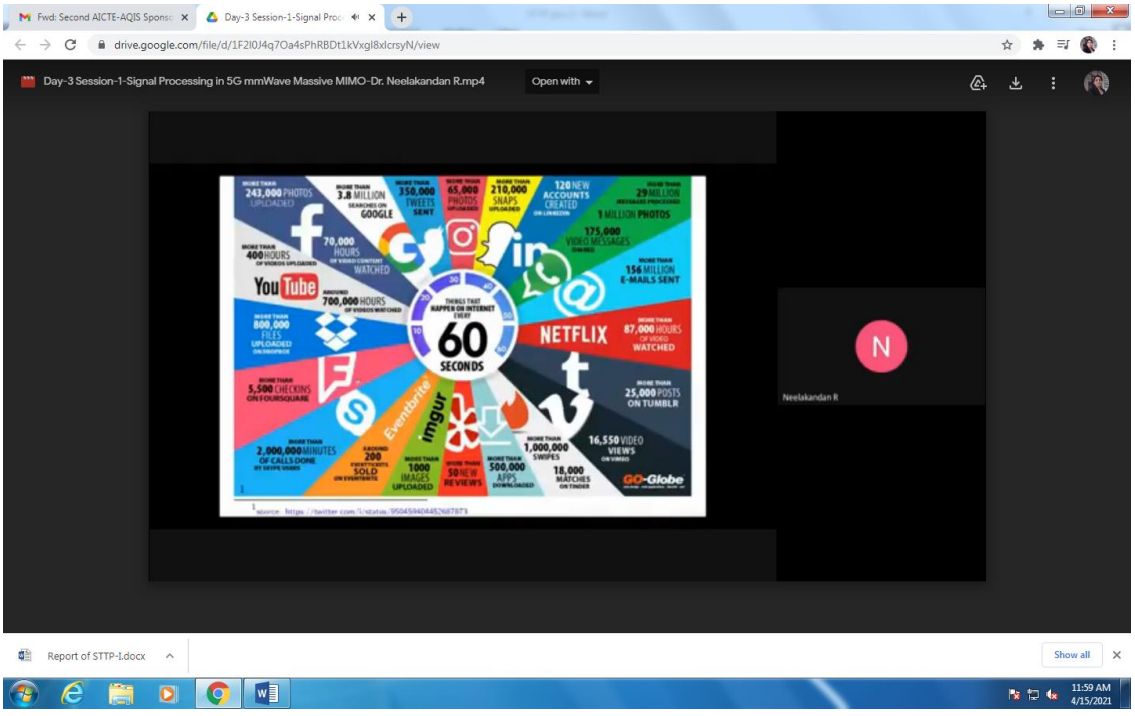
Venue: online

Expert Talk-14

Topic: BUILDING IOT APPLICATIONS USING MACHINE LEARNING

Resource Person: Dr. Sanjeev Yadav, HOD, Assistant Professor, GWEC, Ajmer

Venue: online



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

Expert Talk-15

Topic: Computational Intelligence v/s Artificial Intelligence

Resource Person: Dr. Jagdish Chand Bansal, Associate Professor, South Asian University, New Delhi

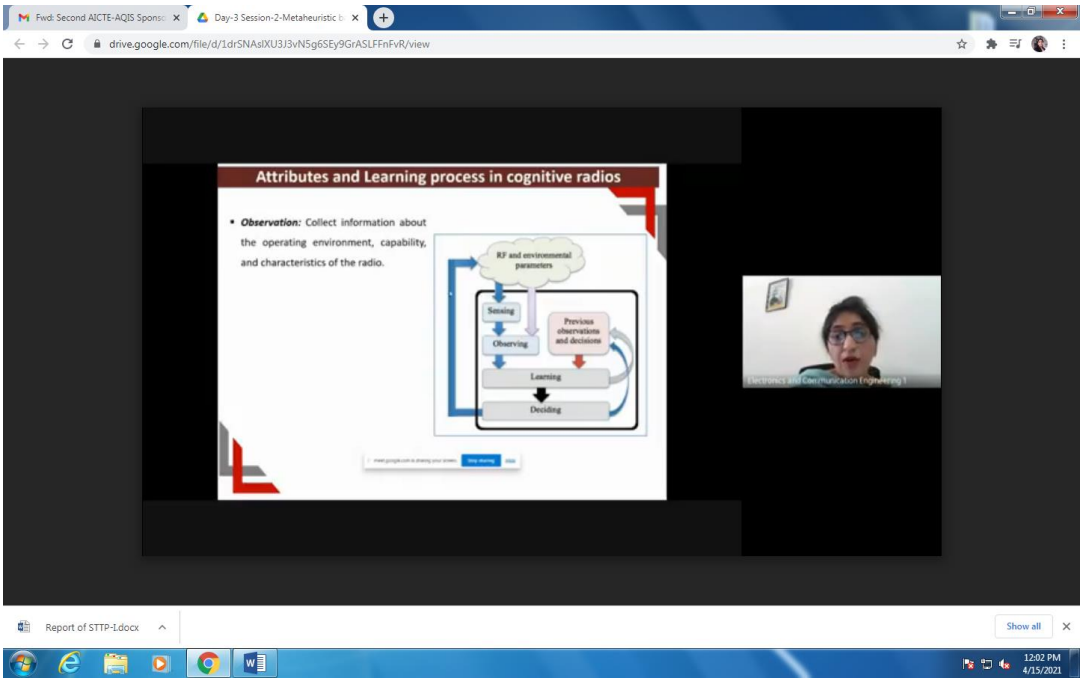
Venue: online

Expert Talk-16

Topic: Reliable communication in UWB Body Area Network

Resource Person: Dr. Sushmita Das, Dean (FW), Professor, NIT, Rourkela

Venue: online



Expert Talk-17

Topic: Enabling Techniques for 5G - The New Radio

Resource Person: Prof. R. Gangopadhyay, Research Professor, LNMIIT, Jaipur

Venue: online

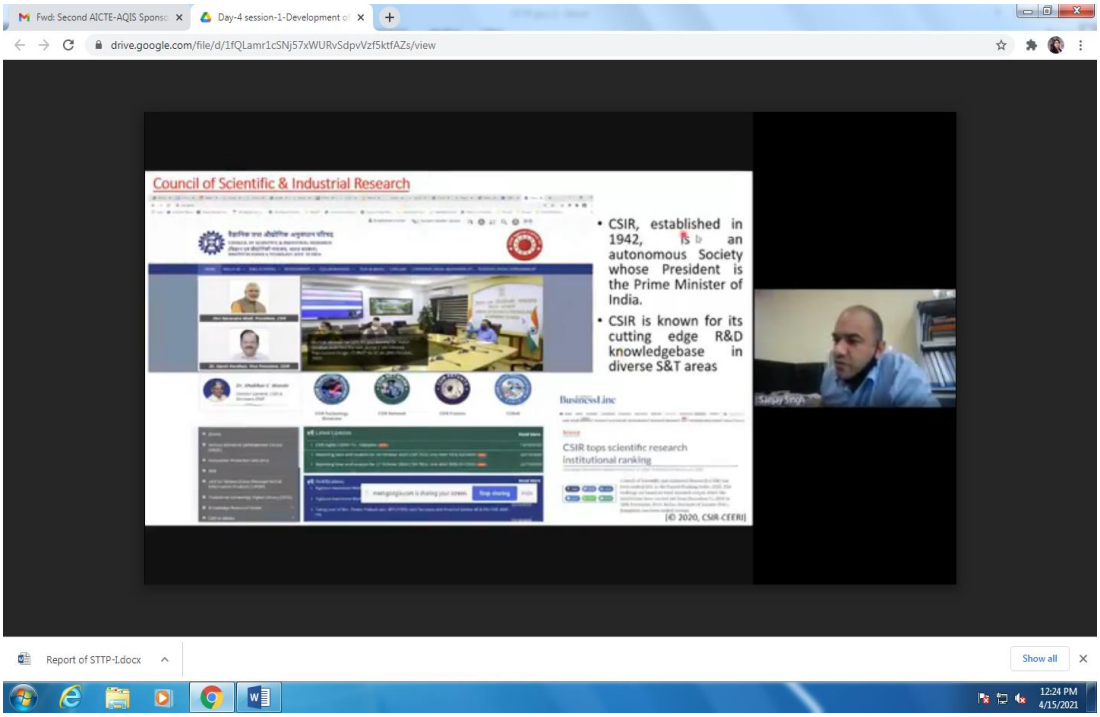
Expert Talk-18

Topic: 5G: Challenges and Enabling Technologies

Resource Person: Dr. Preetam Kumar (Final), Associate Professor, IIT, Patna

Venue: online

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



- **VALEDICTORY SESSIONS:**

After Lunch valedictory session was held. Dr. Preetam Kumar, Associate Professor, IIT Patna. Chief Guest, Dr. Mahesh M Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur, Dr. Payal Bansal Coordinator, PCE, participants and faculty members attended the session. It started with the felicitation of Chief Guest Dr. Preetam Kumar, by Dr. Mahesh M Bundele, Principal & Director, PCE, Jaipur. A brief report on worksop was presented by Dr. Payal Bansal, 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. Preetam Kumar 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 network security and smart antenna. Dr. Payal Bansal, Associate Professor, ECE Deptt., PCE proposed the Vote of Thanks. At the end of he session a group photograph was taken with the Dignitaries including participants.

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

Q- Sheet Valedictory Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of Refresher Program by Dr. Garima Mathur, Head & Professor ECE, PCE Prof. Vimal Bhatia, IIT Indore, (Chief Guest) Ar. Rahul Singhi, Director, Poornima Group Dr. Mahesh Bundele, Director & Principal, PCE Mr. Pankaj Dhemla, Vice Principal, PCE	05 Min	03:30 PM - 03:35 PM
2.	Welcome address by Dr. Mahesh Bundele, Director & Principal, PCE	05 Min	03:35 PM - 03:40 PM
3.	Motivational Words by Ar. Rahul Singhi, Director, Poornima Group	05 Min	03:40 PM - 03:45 PM
4.	Inaugural Address by Chief Guest Dr. Sudhir Kumar, Assistant Professor IIT Patna	10 Min	03:45 PM - 03:55 PM
5.	Vote of Thanks by Dr. Payal Bansal, Associate Prof., ECE, PCE	05 Min	03:55 PM - 04:00 PM

- **LIST OF PARTICIPANTS:**

S. No.	**Username**	**Name of Participant**	**Department**	**Name of Institute**
1	joohigrg@gmail.com	JOOHI GARG	EC/EE/CS/IT	MNIT
2	swapna.revuri@gmail.com	SWAPNA REVURI	EC/EE/CS/IT	VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE
3	upasana.abes@gmail.com	UPASANA SHARMA	EC/EE/CS/IT	ABES Engineering college, Ghaziabad, UP
4	deepa.b1@svcolleges.edu.in	BATTU DEEPA	EC/EE/CS/IT	SV Engineering College
5	rachna.sharma@nirmauni.ac.in	RACHNA SHARMA	EC/EE/CS/IT	Institute of Technology, Nirma University
6	chandani19nov@gmail.com	DR CHANDANI SHARMA	EC/EE/CS/IT	Quantum University
7	divsmi@gmail.com	B.C.DIVAKARA	EC/EE/CS/IT	Global academy of technology
8	lincynl@stpauls.ac.in	LINCY N L	EC/EE/CS/IT	St Pauls college kalamassery
9	nileshkuchekar9@gmail.com	KUCHEKAR NILESH DIGAMBAR	EC/EE/CS/IT	PVG COET, 09, PARVATI, PUNE

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

10	mangal.singh@nirmauni.ac.in	MANGAL SINGH	EC/EE/CS/IT	Nirma University
11	rahmaninaveed1981@gmail.com	RAHMANI NAVEED AKHTAR	EC/EE/CS/IT	Jamia Institute of Engineering and Management Studies
12	pme932@gmail.com	PALLAVI SAPKALE	EC/EE/CS/IT	Rait Nerul
13	rse2018508@iiita.ac.in	CHANDRAVILASH RAI	EC/EE/CS/IT	IIIT Allahabad
14	manishakumawat@poornima.org	MANISHA KUMAWAT	EC/EE/CS/IT	POORNIMA COLLEGE OF ENGINEERING
15	vinit11885@gmail.com	VINIT SHAH	EC/EE/CS/IT	FREEZCO CORPORATION
16	jay.pandey@srmu.ac.in	JAY KUMAR PANDEY	EC/EE/CS/IT	Shri Ramswaroop Memorial University
17	shreniks2k7@rediffmail.com	SHRENIK SURESH SARADE	EC/EE/CS/IT	Walchand College of Engineering, Sangli
18	srinu85@gmail.com	DR S SRINIVASULU RAJU	EC/EE/CS/IT	Velagapudi Ramakrishna Siddhartha Engineering College
19	rayala.ravi2015@gmail.com	RAYALA RAVI KUMAR	EC/EE/CS/IT	MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD
20	jigneshpatel.ce@indusuni.ac.in	JIGNESHKUMAR PATEL	EC/EE/CS/IT	IITE
21	dppalit@gmail.com	DEBRUPA PAL	EC/EE/CS/IT	Narula Institute of Technology
22	roshnipatel.ce@indusuni.ac.in	ROSHNI PATEL	EC/EE/CS/IT	Indus university
23	kapila.moon@gmail.com	MRS. KAPILA MUNENDRA MOON	EC/EE/CS/IT	R.A.I.T
24	aobeena@gmail.com	BEENA A.O.	EC/EE/CS/IT	SAINTGITS COLEGE OF ENGINEERING
25	ashutoshpatelphd@gmail.com	ASHUTOSH PATEL	EC/EE/CS/IT	Gujarat University
26	ram.rashmirekha14@gmail.com	RASHMIREKHA RAM	EC/EE/CS/IT	Siksha O Anusandhan (Deemed to be University)
27	bheemhh@msrit.edu	BHEEMAPPA H	EC/EE/CS/IT	MSRIT
28	mendgudle123@gmail.com	SUJATA MENDGUDLE	EC/EE/CS/IT	RAIT,DYPatil group ,Navi Mumbai
29	varthinevigna@gmail.com	K.PARVATHAVARTHINE	EC/EE/CS/IT	MANONMANIAM SUNDARANAR UNIVERSITY

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

30	arulraj121@gmail.com	T.ARUL RAJ	EC/EE/CS/IT	MANONMANIAM SUNDARANAR UNIVERSITY
31	vishal500371@yahoo.co.in	VISHAL SHRIVASTAVA	EC/EE/CS/IT	ARYA COLLEGE OF ENGINEERING AND IT
32	avkolapkar@kkwagh.edu.in	ANAND KOLAPKAR	EC/EE/CS/IT	K. K. Wagh Institute of Engineering Education and Research Nashik
33	mehradimple1512@gmail.com	DIMPLE RANI	EC/EE/CS/IT	Government P.G.College, Ambala Cantt
34	binduk.05@gmail.com	BINDU K	EC/EE/CS/IT	Global Academy of Technology
35	stpi.ramesh@gmail.com	RAMESH CHAND MEENA	EC/EE/CS/IT	Software Technology Parks of India
36	samar_thapa2005@yahoo.co.in	SAMAR THAPA	EC/EE/CS/IT	L & LR and RR & R Department, West Bengal
37	mathiyalagan.p@srec.ac.in	MATHIYALAGAN PALANIAPPAN	EC/EE/CS/IT	SRI RAMAKRISHNA ENGINEEIRNG COLLEGE
38	kajla.ashok@poornima.org	ASHOK KUMAR KAJLA	EC/EE/CS/IT	Poornima College of Engineering Jaipur
39	saraanjum17@gmail.com	SARA ANJUM	EC/EE/CS/IT	PDA engg college kalaburgi
40	alekhyareddy1@gmail.com	BADI ALEKHYA	EC/EE/CS/IT	RMD ENGINEERING COLLEGE
41	chinnusamykscout@gmail.com	CHINNUSAMY	EC/EE/CS/IT	VELAMMAL INSTITUTE OF TECHNOLOGY
42	krushna.sahoo@driems.ac.in	KRUSHNA CHANDRA SAHOO	EC/EE/CS/IT	DRIEMS AUTONOMOUS ENGINEERING COLLEGE
43	snehal.patil@rait.ac.in	SNEHAL PATIL	EC/EE/CS/IT	RAIT, NERUL
44	aarthidevacse@gmail.com	AARTHI D	EC/EE/CS/IT	Karpagam College of Engineering
45	amitjain.2102@poornima.org	AMIT KUMAR JAIN	EC/EE/CS/IT	Poornima College of Engineering
46	deepayerolkar@gmail.com	DEEPA JIVANRAO YEROLKAR	EC/EE/CS/IT	AISSMS Polytechnic
47	mehaboob311134@gmail.com	MEHABOOB MUJAWAR	EC/EE/CS/IT	Goa College of Engineering
49	dd.rcew@gmail.com	DEVENDER KUMAR DHAKED	EC/EE/CS/IT	RAJASTHAN COLLEGE OF ENGINEERING

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

50	anushareddy.kallem@gmail.com	K.ANUSHA	EC/EE/CS/IT	GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY
51	richakumari33@gmail.com	RICHA KUMARI	EC/EE/CS/IT	Zakir Husain College Of Engineering And Technology,Aligarh Muslim University
52	udayakumar.sujith@gmail.com	E.UDAYAKUMAR	EC/EE/CS/IT	KIT-Kalaignarkarunanidhi Institute of Technology
53	manikandan.mangai@gmail.com	MANIKANDAN J	EC/EE/CS/IT	Sri Sairam Engineering College
54	yuvaraj.k@svcolleges.edu.in	YUVARAJ K	EC/EE/CS/IT	SV ENGINEERING COLLEGE
55	james.wins82@gmail.com	JOECECIL R	EC/EE/CS/IT	SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY
56	satyendrap111@gmail.com	SATYENDRA PRASAD	EC/EE/CS/IT	DR AITH KANPUR
57	saisudheer1978@gmail.com	MR. SAI SUDHEER KOTTA	EC/EE/CS/IT	SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
58	kavithas@dayanandasagar.edu	KAVITHA S	EC/EE/CS/IT	Dayananda Sagar College of Arts, Science and Commerce
59	susantasarangi@soa.ac.in	SUSANTA KUMAR SARANGI	EC/EE/CS/IT	ITER SOA DEEMED TO BE UNIVERSITY ODISHA
60	sunil.agarwal@poornima.org	SUNIL KUMAR AGARWAL	EC/EE/CS/IT	POORNIMA COLLEGE OF ENGINEERING
61	ambujsrivastava2006@gmail.com	AMBUJ SRIVASTAVA	EC/EE/CS/IT	High Court, Allahabad
62	twinkle.bhavsar@nirmauni.ac.in	TWINKLE KUSHAL BHAVSAR	EC/EE/CS/IT	Nirma University
63	saikiran231091@gmail.com	AVUDURTHI SAIKIRAN	EC/EE/CS/IT	VAAGESWARI COLLEGE OF ENGINEERING
64	vinodalone4774@gmail.com	ALONE VINOD N	EC/EE/CS/IT	Vppcoe Sion Mumbai-22
65	drkiransree@gmail.com	KIRAN SREE POKKULURI	EC/EE/CS/IT	SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN
67	sheeja@sxcce.edu	SHEEJA	EC/EE/CS/IT	St.Xavier's

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

	.in	HEROBIN RANI C		Catholic College of Engineering
68	rajkumar.jain@poornima.org	RAJ KUMAR JAIN	EC/EE/CS/IT	Poornima college of engineering
69	sauravsingh09666@gmail.com	SAURAV SINGH	EC/EE/CS/IT	PIET
70	nathansastra@gmail.com	SWAMINATHAN.S	EC/EE/CS/IT	SRC SASTRA DEEMED UNIVERSITY
71	mahalakster@gmail.com	PVN LAKSHMI	EC/EE/CS/IT	Vlits
72	srdogiwal@skit.ac.in	S. R. DOGIWAL	EC/EE/CS/IT	SKIT, Jaipur
73	akbanerjee@biotech.buruniv.ac.in	AMAL KUMAR BANDYOPADHYAY	EC/EE/CS/IT	The University of Burdwan
74	2018pcecsgaurav57@poornima.org	GAURAV MISHRA	EC/EE/CS/IT	POORNIMA COLLEGE OF Engineering
75	mukeshchand19@poornima.org	MUKESH CHAND	EC/EE/CS/IT	POORNIMA COLLEGE OF ENGINEERING
76	ghufran.k@inurture.co.in	GHUFRAN KHAN	EC/EE/CS/IT	i-Nurture Education Solutions Pvt ltd Banglore (TMU,MBD)
77	neha.e9720@cumail.in	NEHA SHARMA	EC/EE/CS/IT	Chandigarh University
78	ancyroseann@gmail.com	ANCY C A	EC/EE/CS/IT	St Paul's College
79	anila.dhingra@poornima.org	ANILA DHINGRA	EC/EE/CS/IT	Poornima College of Engineering
80	monika.bhatt@poornima.ac.in	MONIKA BHATT	EC/EE/CS/IT	Poornima University
81	sayanpradhan392@gmail.com	SAYAN PRADHAN	EC/EE/CS/IT	Calcutta Institute of Technology
82	sunilsharma96@gmail.com	SUNIL KUMAR SHARMA	EC/EE/CS/IT	Engineering College Ajmer
83	rajeshbhattrtu@gmail.com	RAJESH BHATT	EC/EE/CS/IT	University Departments, Rajasthan Technical University, Kota
84	vignesh.manohar@gmail.com	VIGNESHWAR MANOKAR MANOHARAN	EC/EE/CS/IT	IIPS
85	anuranjan.bit@gmail.com	ANURANJAN SINGH	EC/EE/CS/IT	Central University of Jharkhand
86	ashokyadav88.jnu@gmail.com	ASHOK KUMAR YADAV	EC/EE/CS/IT	Rajkiya Engineering College Azamgarh UP
87	anu.dakhane10@gmail.com	ANURADHA DAKHANE	EC/EE/CS/IT	Rajiv Gandhi college of engineering research [illegible] technology

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

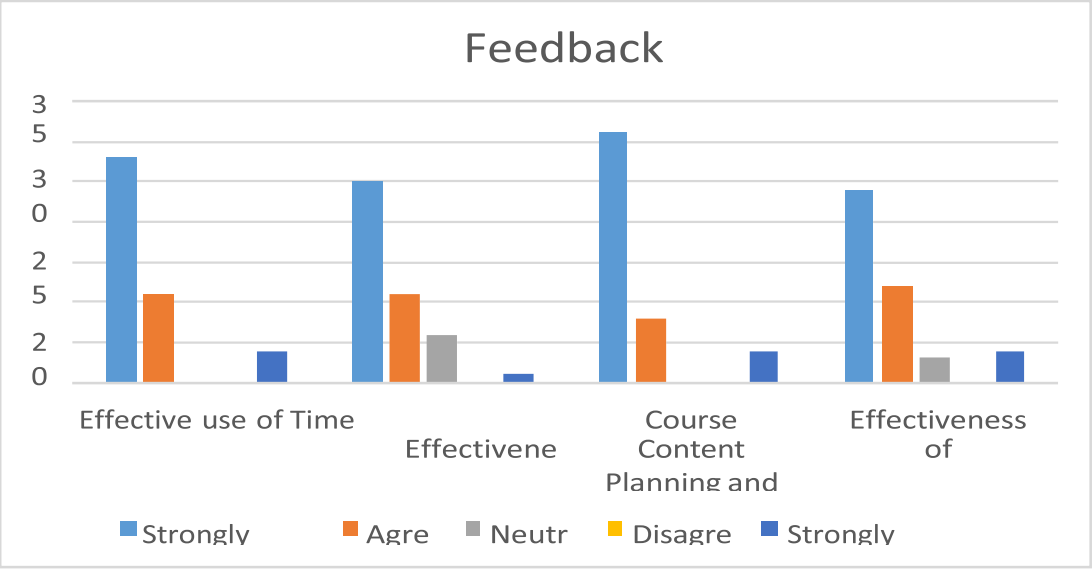
88	abhishek.dadhich@poornima.org	ABHISHEK DADHICH	EC/EE/CS/IT	Poornima Institute of Engineering and Technology
89	sujitha@sxcce.edu.in	S.MARIA SERAPHIN SUJITHA	EC/EE/CS/IT	St.XAVIERS CATHOLIC COLLEGE OF ENGG
90	reeja@sxcce.edu.in	Y.MARY REEJA	EC/EE/CS/IT	St Xavier's Catholic College of Engineering
91	erswathi@gmail.com	SWATHI SRIRAMOJU	EC/EE/CS/IT	Institute of Aeronautical Engineering
92	nandani@poornima.org	NANDANI SHARMA	EC/EE/CS/IT	poornima institute of engineering college
93	aishwarya.upadhyay@poornima.edu.in	AISHWARYA UPADHYAY	EC/EE/CS/IT	Poornima university

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 has given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.

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

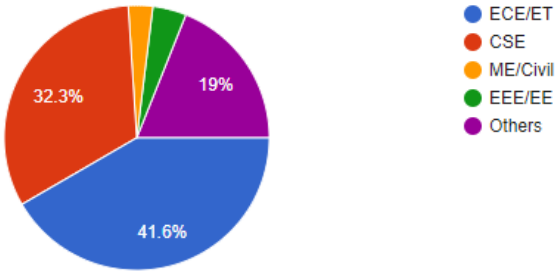
- **FEEDBACK ANALYSIS:**

	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

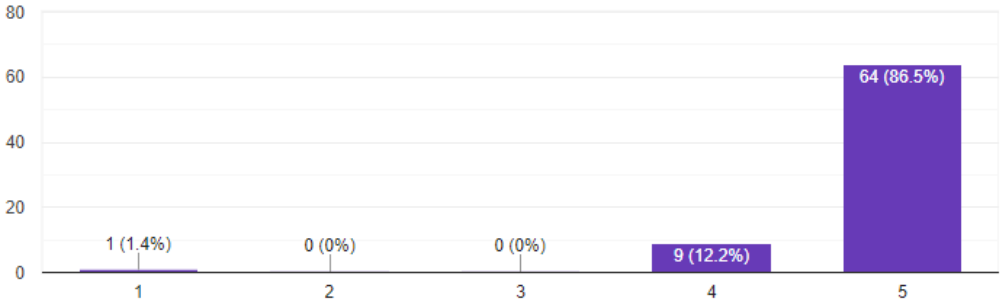


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

- **SWOT ANALYSIS:**

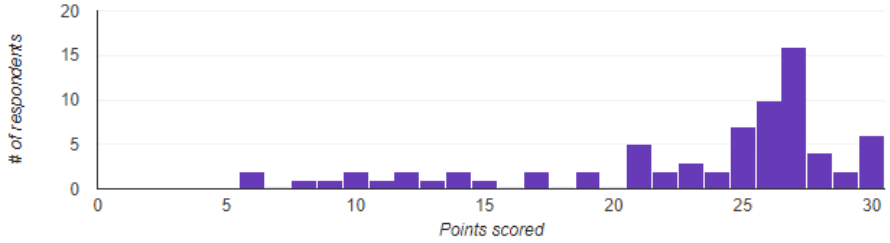


How satisfied were you with the STTP content?



Average	Median	Range
22.91 / 30 points	26 / 30 points	6 - 30 points

Total points distribution



- **BUDGET & ACTUALS: NIL**

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

A Report on six days short term training Program

- **TITLE AND DURATION:** "Developing R&D Culture in Educational Institutes through Project Based Learning" from October 19-24, 2020.

- **SUPPORTERS:** AICTE Quality Improvement Scheme.

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

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



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

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Developing R&D culture in Educational Institutes through Project Based learning

October 19-24, 2020

REGISTRATION FORM

Name: .....

Designation: .....

Department: .....

Institute: .....

Institute Address: .....

.....

.....

Mobile No.: .....

E-mail: .....

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

REGISTRATION AND FEE PARTICULARS

- There is no registration fee.
- The STTP is open to all faculties and research scholars from Universities/AICTE approved institutions.
- Registration for the program may be done by filling the registration form online via: **https://tinyurl.com/yyuubcz2**
- Join **https://chat.whatsapp.com/JvoihL4kKIBBWyWTS2zgPf**
- All the sessions will be conducted online only.
- After completion of the program, test will be conducted.
- E-certificates will be issued to those participants who have attended the program and qualify the test.

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of manufacturing such as IITs, IIITDMs, NITs, and other premier institutes.

IMPORTANT DATES

Last date for Registration	**October 17, 2020**
Intimation of selection by mail	**October 18, 2020**
FDP duration	**October 19-24, 2020**

CORRESPONDENCE

Dr. Himani Goyal Sharma
Professor, Department of Electrical Engineering
✆ : +91-9676974176, 9779065615
✉ : himani.goyal@poornima.org



POORNIMA
COLLEGE OF ENGINEERING
ISI-6, RIICO Institutional Area, Sitapura, Jaipur
www.pce.poornima.org

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Developing R&D Culture in Educational Institutes through Project Based Learning

October 19-24, 2020



Sponsored by

AICTE
New Delhi

All India Council For Technical Education
Under
AICTE Quality Improvement Schemes (AQIS)

Organized by

Department of Electrical Engineering

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

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 DEPARTMENT

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.

ABOUT THE PROGRAM

An intensive six days short term-training programme is being organized for faculty of technical institutions. It is also open to persons from industry and researchers of Indian organizations. The objective is to provide an exposure to the participants to the "Developing an Research and Development culture in Educational Institutes through Project Based Learning " through interaction with experts from premier institutions like IITs, NITs and Industry professionals.

OBJECTIVES OF STTP

The objective of this course to Impart skill based education Culture in the Institutes amongst the students as well as the Faculty members so that conceptual based understanding can be enhanced. This will form the basis for higher education too amongst Faculty and students.

Expected Outcome of the STTP course :

- This STTP Program will open new paths for our students and faculty to investigate innovative ways to assess the emerging trends in Technology in dynamic and collaborative setting.
- Organizing such programs is an essential step to achieve new targets & make a mark in the Technological Research at a Global level.
- This STTP Program will show higher horizons in the field of Research

Course Modules

- Innovative Teaching Methodology for Effective Learning
- Challenges in developing Research culture in the Institutes
- Road-Map for Research culture development.
- Alignment of Bloom's Taxonomy for Effective Outcome Based Education.
- Alignment of Assessment with Course Outcomes.

Abstract

One Week STTP Programme shall be organized for more than 100 participants from different Engineering and diploma colleges across India & Abroad. Eminent personalities across the country shall grace the sessions by their auspicious presence and deliver their lectures on Latest Technological enhancements taking place across the world as well as how to imbibe research and Development culture amongst the students through projects. These members have been contributing significantly to the improvement of the quality of engineering education. The major focus of the STTP will be on inculcating research and development culture through conceptual based understanding. This shall also be an added advantage to people from industry.

PATRON

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

ADVISORS

Mr. Pankaj Dhemla
Vice Principal, PCE, Jaipur

Dr. Rekha Nair
Dean, First Year, PCE, Jaipur

Mr. Devendra Somwanshi
Registrar, PCE, Jaipur

CONVENOR

Dr. Virendra Sangtani
HoD EE, PCE, Jaipur

COORDINATOR

Dr Himani Goyal Sharma
Professor, Department of Electrical Engineering PCE, Jaipur

CO-COORDINATORS

Md Asif Iqbal
Assistant Professor
EE, PCE, Jaipur

Dr Pravin Sonwane
Professor
EE, PCE, Jaipur

PCE ORGANIZING COMMITTEE

Mr. 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. Neeraj Tiwari	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

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

AICTE-AQIS Sponsored
Six days Short Term Training Program on
Developing R&D culture in Educational Institutes through Project Based learning
(Part - 1)

Inaugural Ceremony Oct 19, 2020

Q-Sheet

Time: 11:00 AM to 11:30 AM

S. No.	Day- I Inaugural Ceremony	Timings
1.	Welcome to the Guest, Speakers & all participants Chief Guest;- Col. B. Venkat, Director (Faculty Development) AICTE Guest of Honor: - Prof. (Dr.) D.P.Kothari, Former Director , IIT Delhi Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering (PCE), Jaipur. Mr. Pankaj Dhemla, Vice-Principal, PCE Ar. Rahul Singhi, Director, Poornima Group Dr. Virender Sangtani, Head, Department of Electrical Engineering, PCE Dr. Himani Goyal Sharma, STTP Coordinator , Department of Electrical Engineering, PCE	11:00 AM
2.	Introduction to the STTP, by Dr. Himani Goyal Sharma, STTP Coordinator , Department of Electrical Engineering, PCE	11:03 AM
3.	Welcome address by Dr. Mahesh Bundele, Director, PCE	11:05AM
4.	Address by Ar. Rahul Singhi, Director, Poornima Group	11:10 AM
5.	Address by Guest of Honor, Prof. (Dr.) D.P.Kothari, Chairman, Board of Governors, THDC Institute of Hydropower Engineering and Technology, Tehri, Uttarakhand	11:15 AM
6.	Words of Wisdom by Prof. Col. B. Venkat, Director (Faculty Development) AICTE	11:20 AM
7.	Vote of Thanks by Dr. Virender Sangtani, Head, Department of Electrical Engineering, PCE	11:30 AM

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Poornima College of Engineering

AICTE Quality Improvement Schemes (AQIS) SPONSORED

"Developing R&D culture in Educational Institutes through Project Based learning"

Six days Short Term Training Program

(October 19-24, 2020)

Venue: Online

Program Schedule

S.No.	Date	Session		Time	Speaker	Designation	Institute
1	Monday October 19, 2020	Monday Inaugural Address (11.00 AM)					
2		Session I	Research Opportunities and Funding through AICTE	11:40 am till 01.15 pm	Col B Venkat	Director(Faculty Development)	AICTE New Delhi
3		Session II	Consultancy-A Tool for Project based Teaching & Learning	02:00 pm till 3.30 pm	Dr Arun Dwivedi	Professor and Dean	Sandip University, Nashik
4	Tuesday 20,2020	Session I	Challenges in developing Research culture in the Institutes	10.00 am till 11.30 am	Prof. Subrat Kar	Department of Electrical Engineering	IIT Delhi
5		Session II	Road-Map for Research culture development.	11:45 am till 01.15 pm	Nishchal K. Verma	Professor, Department of Electrical Engineering	IIT Kanpur
6		Session III	Alignment of Assessment with Course Outcomes.	02:00 pm till 3.30 pm	Dr Rahul Agarwal	Associate Professor	Sandip University Nashik
7	Wednesday 21,2020	Session I	A discussion on Plans, Programmes and Strategy to banish poverty and Unemployment from India in the next five years at no cost to the exchequer	10.00 am till 11.30 am	Dr A S Goyal	Ex-Vice Chancellor	APG Shimla University
8		Session II	Road-Map for Research culture development.	11:45 am till 01.15 pm	Prof. Y. N. Singh	Department of Electrical Engineering	IIT Kanpur
9		Session III	Road-Map for Research culture development.	02:00 pm till 3.30 pm	Dr Tripta Thakur	Professor, EE	NIT, MANIT-Bhopal
10	Thursday 22,2020	Session I	Challenges in developing Research culture in the Institutes	10.00 am till 11.30 am	Dr. M. Hanmandlu	Professor EE	IIT Delhi
11		Session II	Road-Map for Research culture development.	11:45 am till 01.15 pm	Dr R P Saini	Professor, Department of Hydro and Energy Centre	IIT Roorkee
12		Session III	Challenges in developing Research culture in the Institutes	02:00 pm till 3.30 pm	Dr. Anirudh Pratap Singh	Dean (R & D)	I.K.G. Punjab Technical University
13	Friday 23,2020	Session I	Innovative Teaching Methodology for Effective Learning	10.00 am till 11.30 am	Dr Gagandeep Kaur	Associate Prof.	Electrical and Instrumentation Engineering Department, Thapar Institute of Engineering & Technology, Patiala.
14		Session II	Road-Map for Research culture development.	11:45 am till 01.15 pm	Dr. D. P. Kothari	Former Director	IIT Delhi
15		Session III	Writing Survey or Review Papers	02:00 pm till 3.30 pm	Dr Ravindra Munje	Associate Professor, EE,	K K Wagh Institute of Engineering Education and Research, Maharashtra
16	Saturday 24,2020	Session I	Road-Map for Research culture development.	10.00 am till 11.30 am	Dr Arun Kumar	Associate Professor	MNIT Jaipur
17		Session II	Challenges in developing Research culture in the Institutes	11:45 am till 01.15 pm	Dr Jagdish Chand Bansal	Associate Professor	South Asian University, New Delhi,India
18		Session III		02:00 pm till 3.30 pm	Test to be conducted(2:00 pm to 2:45 pm)	Valedictory 2:45 pm Onwards	Online Feedback is to be taken along with Group Photograph

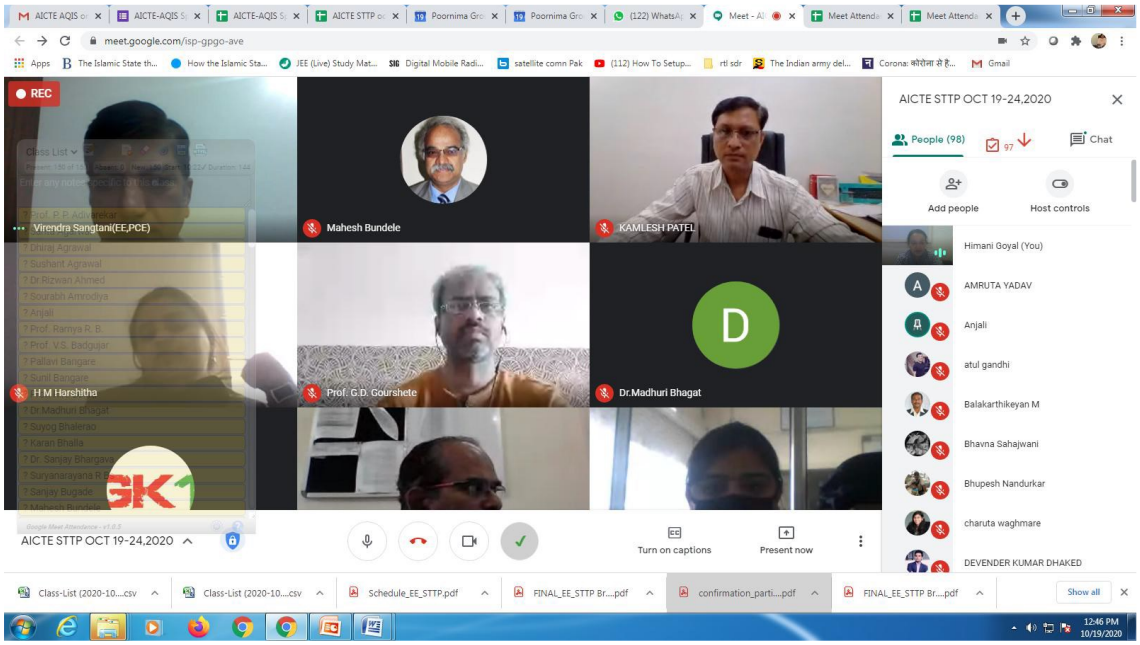
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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GLIMPSES OF THE SESSION:

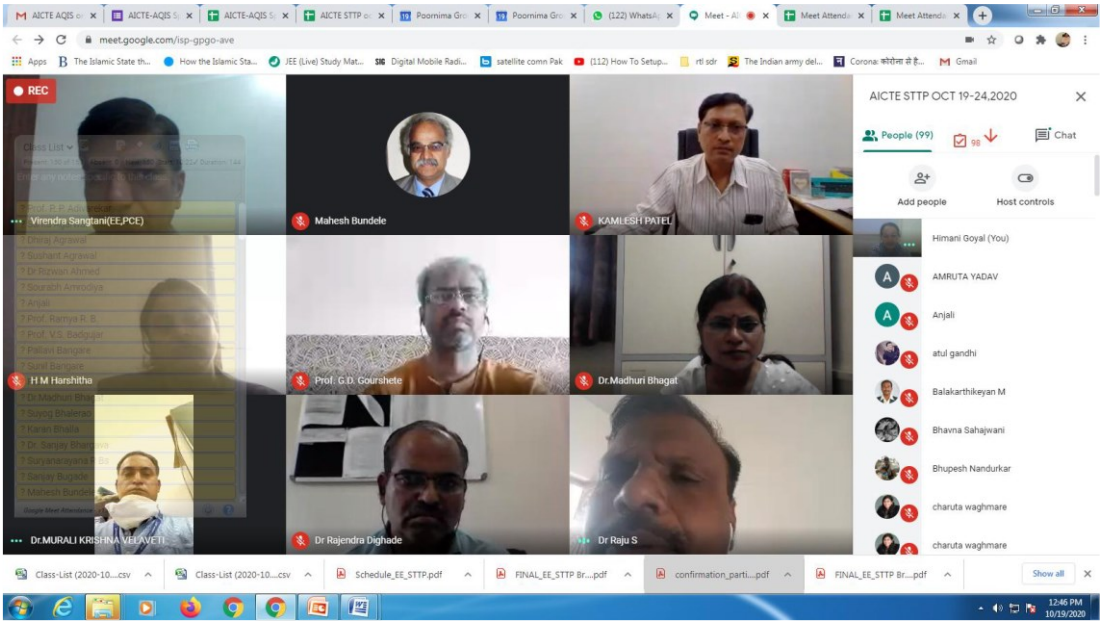
Day 1: 19 October, 2020

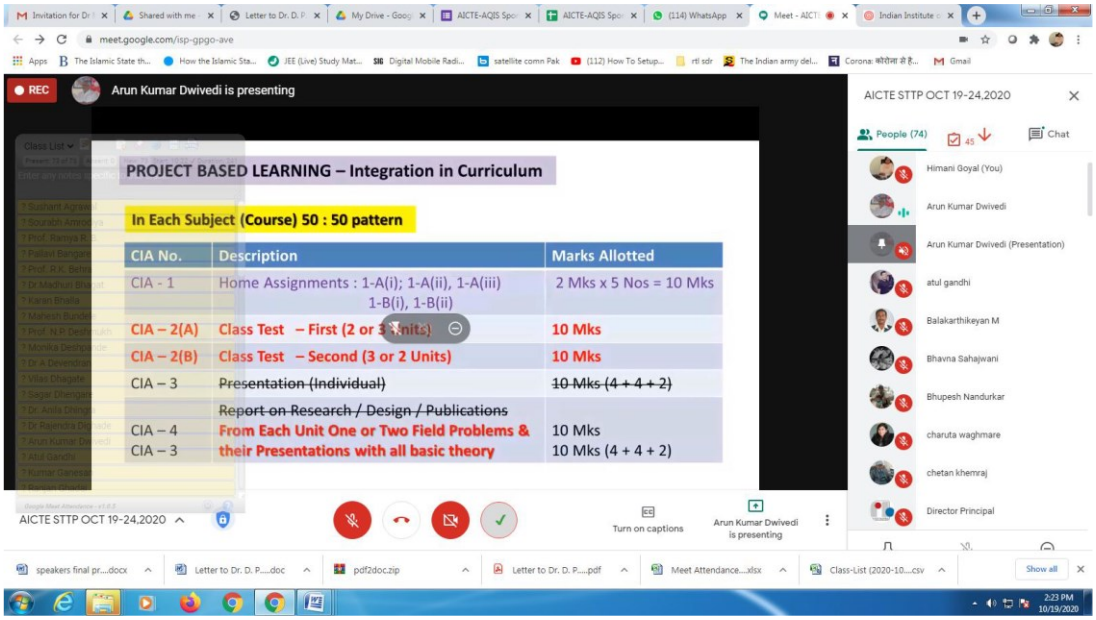
Inaugural session witnessed the presence of Chief Guest Col. B. Venkat, Director (Faculty Development) AICTE New Delhi, Guest of Honor, Prof. (Dr.) D.P.Kothari, Chairman, Board of Governors, THDC Institute of Hydropower Engineering and Technology, Tehri, Uttarakhand, Dr. Mahesh Bundele, Principal &Director, PCE, Jaipur, Er. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Ar. Rahul Singhi, Director, Poornima Group, Dr. Virendra Sangtani (HOD, EE& Dr.Himani Goyal Sharma, Professor, EE,coordinators of STTP, PCE, participants along with the faculty members. Dr. Himani Goyal Sharma, Professor, EE addressed the participants about the workshop & its area of learning and its content. In welcome address Dr. Mahesh M. Bundele, Director, PCE, update the participants about the uses and significance of Bloom's Texonomy for preparation of exam papers.

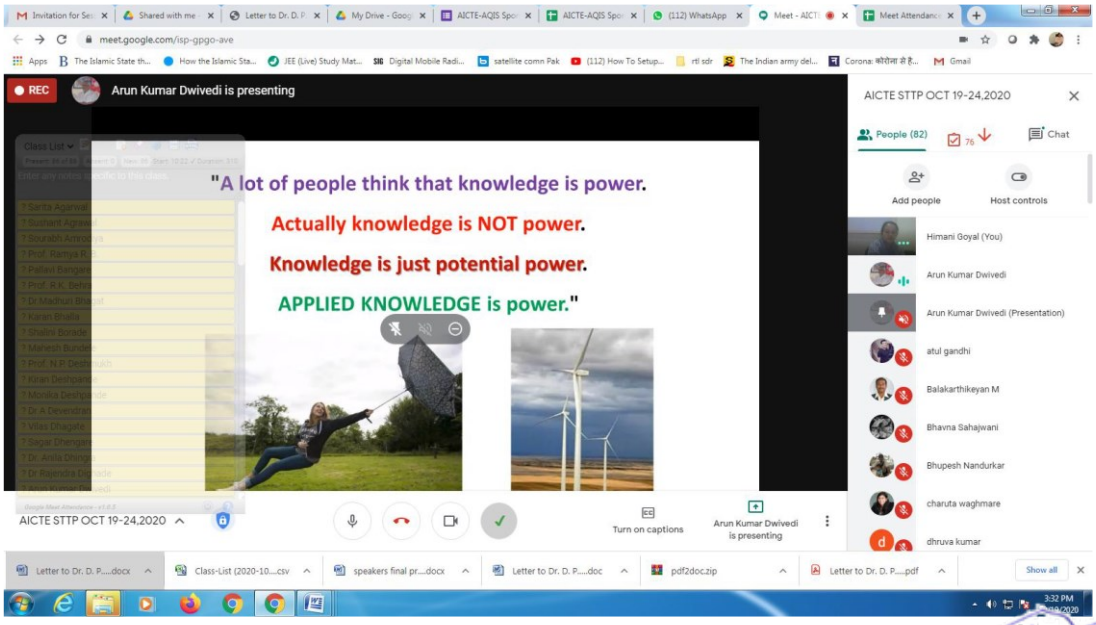
Day 1: October 19, 2020 11:45 am till 01.15 pm Col. B. Venkat, Director (Faculty Development) AICTE, New Delhi had taken the first Session on the topic, "Research Opportunities and Funding through AICTE". Over 100 participants joined through Google meet and similar number of Faculty from India and Abroad participated through Youtube/Poornima TV.



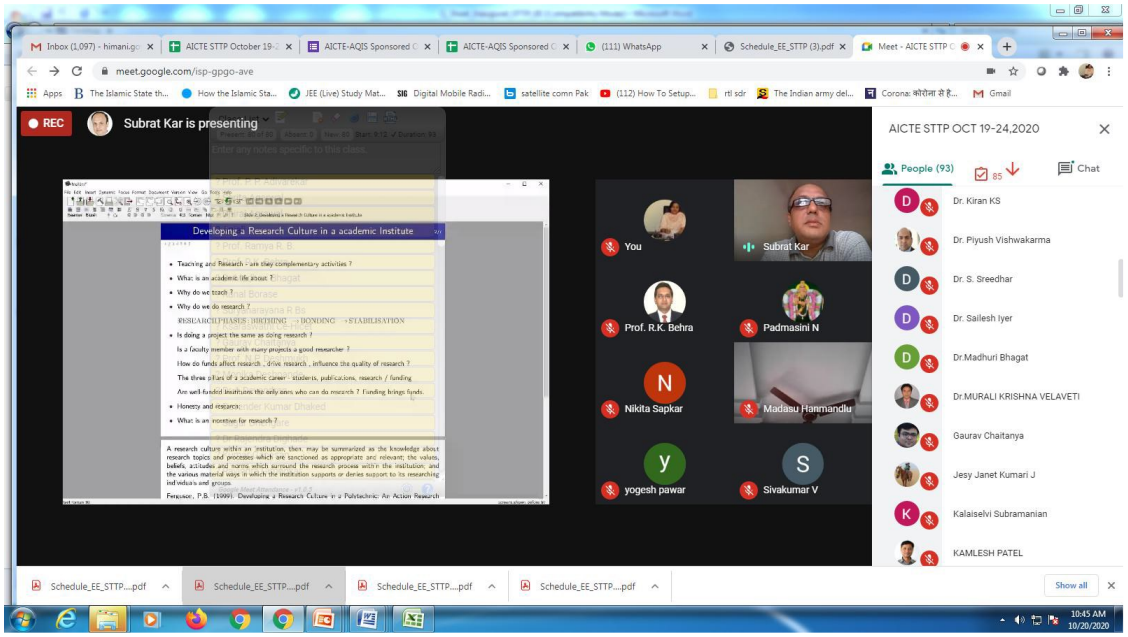
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ISI-6, RIICO Institutional Area
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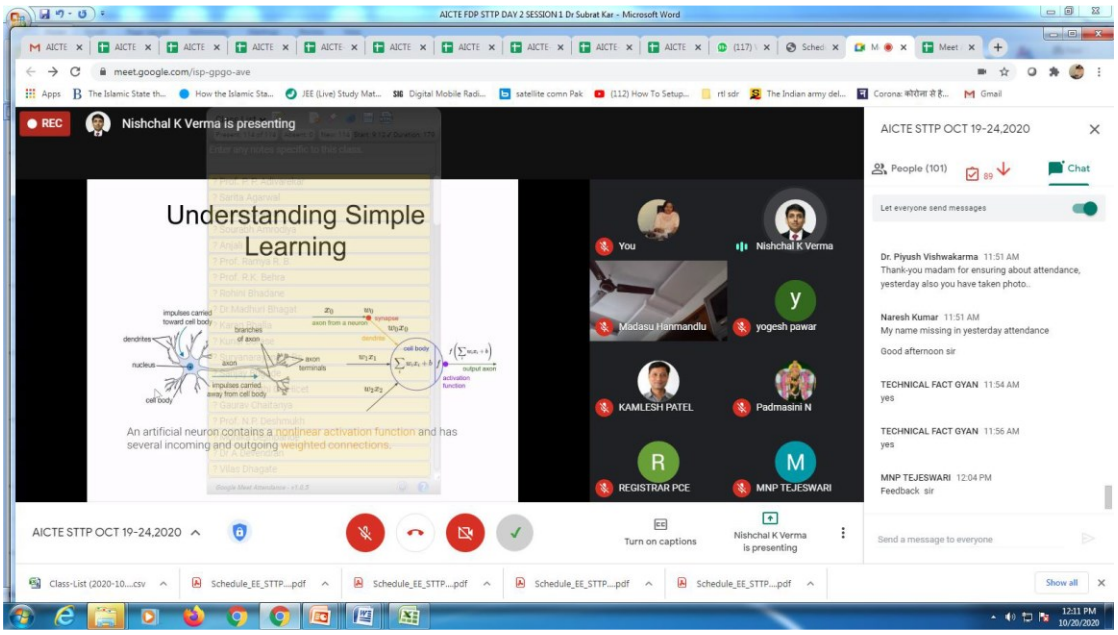


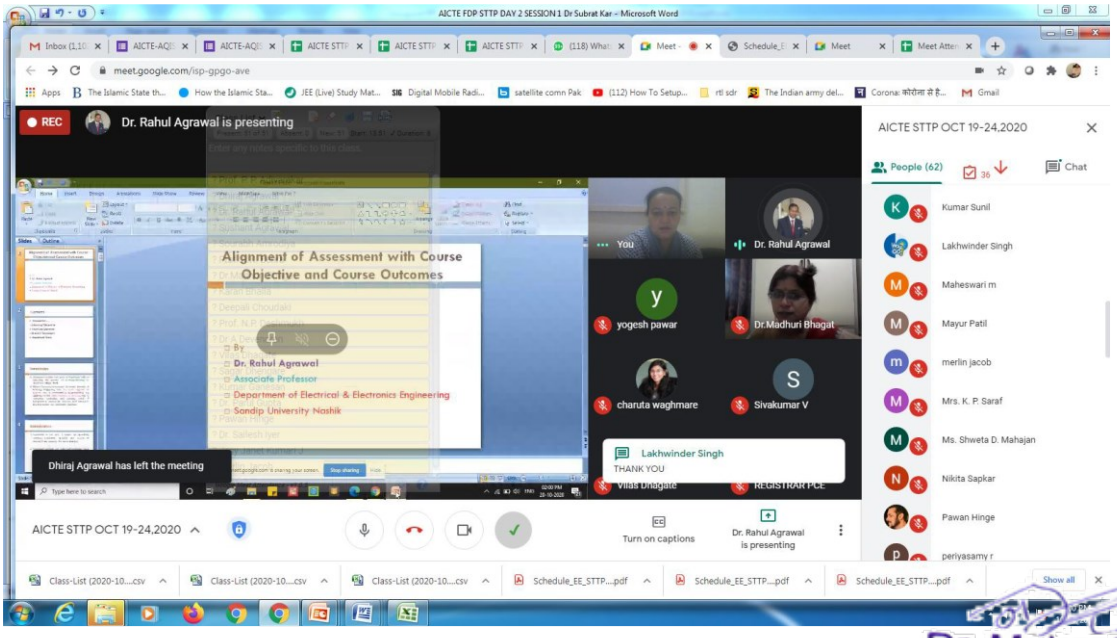




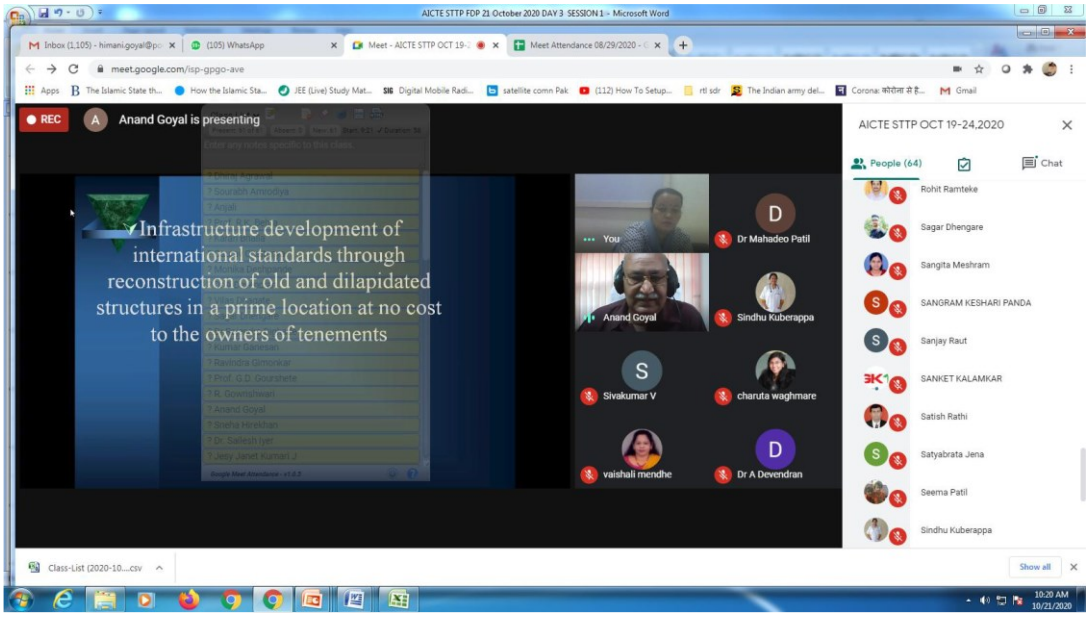
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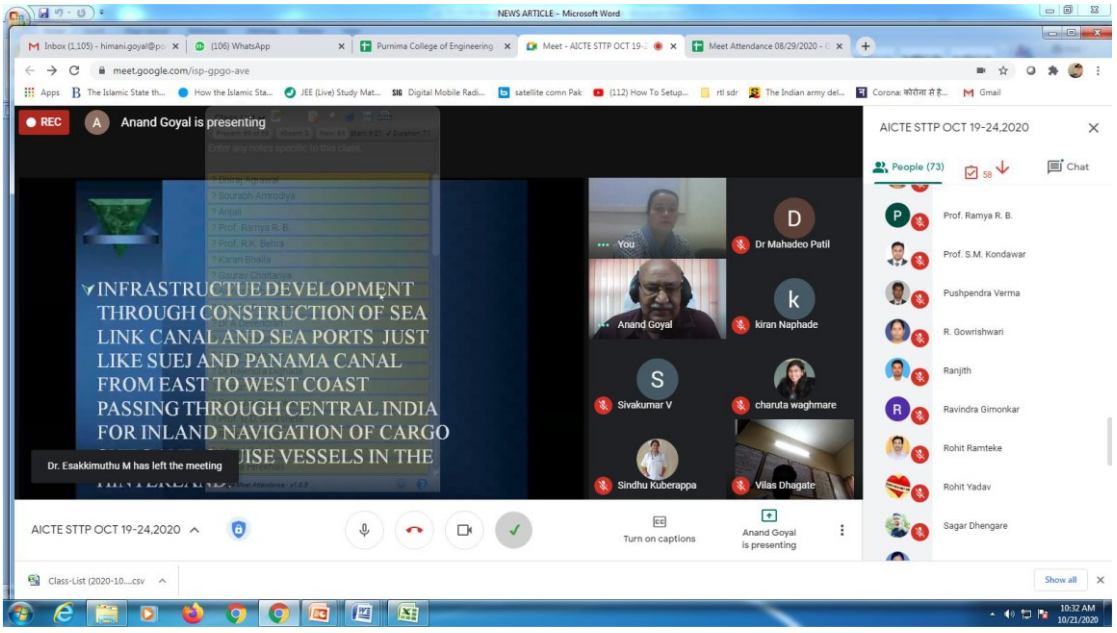


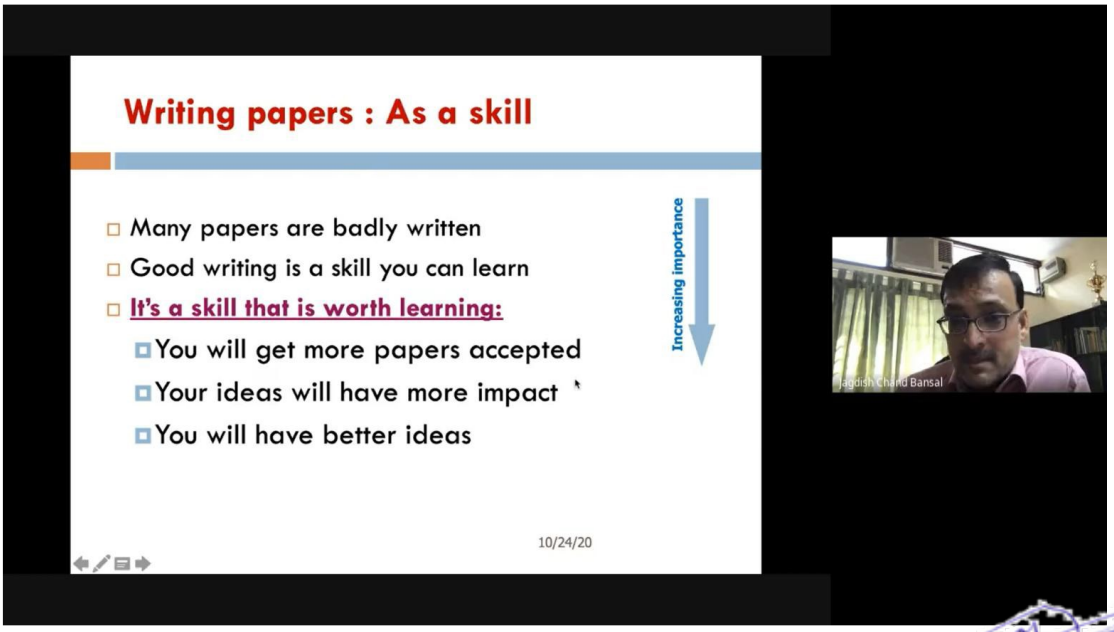




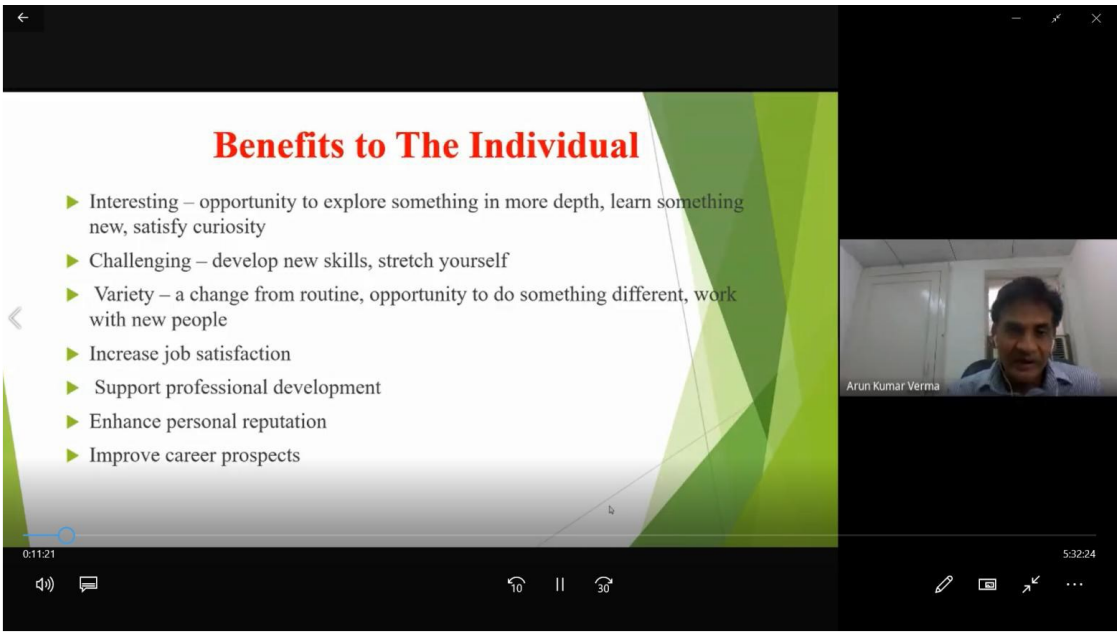
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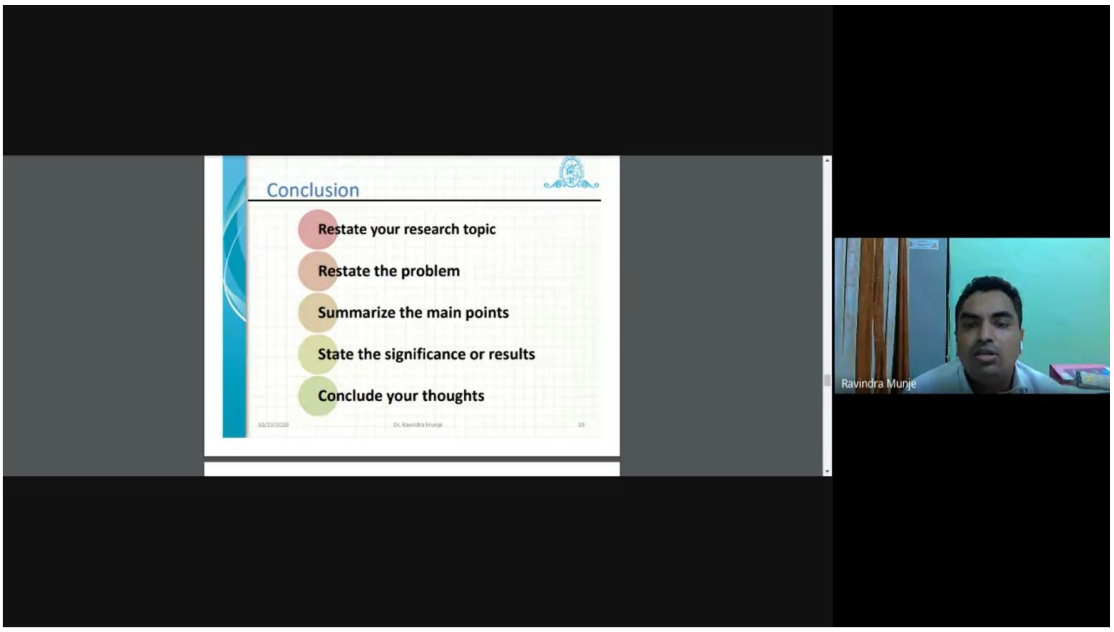






Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR







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

ONLINE FEEDBACK :

Feedbacks are shared by participants via google spreadsheet about the STTP. The STTP has successfully fulfilled the objectives of the STTP set forth. All the participants in their feedback have given positive remarks in all respects and shown their satisfaction over all the arrangements and the time management.



8/23/2021 AICTE-AQIS Sponsored Online Short Term Training Program (STTP) on "Developing R&D culture in Educational Institutes through ...

AICTE-AQIS Sponsored Online Short Term Training Program (STTP) on "Developing R&D culture in Educational Institutes through Project Based learning" from October 19-24, 2020

FEEDBACK

* Required

1. Email *
2. Email address *
3. Name (in BLOCK LETTERS) *
4. Designation *
5. Department *
6. College/Organization *

https://docs.google.com/forms/d/1jHLOGR6fM_GlN8bS6FgF-lFuGVNgdFHp84rpkaozgMI/edit 1/3

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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7. Contact Address *

8. Mobile Number *

9. Whether the participant Institution is approved by AICTE? * *

Mark only one oval.

- Yes
- No

10. How was the Session ? *

11. Can you name some scheme named by the Speaker in the Session which are available for benefit of Faculty member ? *

12. Can you name some scheme (at least 5) named by the Speaker in the Session which are available for benefit of Institutes? *

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

CERTIFICATE FORMAT :



LIST OF PARTICIPANTS :

Sr. No.	Name of Participants	Sr. No.	Name of Participants
1	Dr.V.SIVAKUMAR	91	MERLIN PRIYA JACOB
2	LAKHWINDER SINGH	92	PROF. AJEET BHAGWAT BHANE
3	Dr.G.ANJALI	93	NAGARATHNA K
4	Dr. A. DEVENDRAN	94	PRAVIN RAVINDRA BHOLE
5	DR. MOTI LAL RINAWA	95	HIREN kATHIRIYA
6	Udit Mamodiya	96	NARENDRA LALCHAND LOKHANDE
7	SUNIL KUMAR	97	Madhuri S. Bhagat
8	LOKENDRA KUMAWAT	98	Mrs.NIKITA ATUL AMODKAR
9	MR. NISHITH J. SHAHU	99	VAIBHAV YAVALKAR
10	SHRIPATI VYAS	100	SHALINI RAOSAHEB BORADE
11	Mr.DEVENDER KUMAR DHAKED	101	SHRUTI R GUNAGA
12	Gowriswari S	102	SUSHANT K. AGRAWAL
13	ASHISH KASHYAP	103	DHIRAJ GIRIDHARILAL AGRAWAL
14	KISHALAY RAJ	104	SATISH OMPRAKASH RATHI
15	Dr.KS KIRAN	105	SANGLE SANKET VITTHAL
16	Dr. GHANSHYAM BARMAN	106	Mr.SATYABRATA JENA
17	Dr. RANJITH. D	107	Dr RAJENDRA R DIGHADE
18	KANAGASABAPATHY G	108	RAVINDRA GIMONKAR

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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19	Dr. Gaurav Jain	109	SUNIL L. BANGARE
20	Dr. S. Sadhik	110	Dr. Mrs. Archana Nimkar
21	Dr. V MURALI KRISHNA	111	YOGESH SHIVAJI PAWAR
22	VIGNESH R	112	PALLAVI SUNIL BANGARE
23	M.N.P.TEJESWARI	113	Naresh Kumar
24	Bhawna Sahjwani	114	Mr.ARUN FRANCIS G
25	KOMAL SHARMA	115	Awab Habib Fakih
26	Regis Anne W	116	CHETANA NITISH PURKAR
27	KARTHICKRAJA E	117	KUNAL HIRAMAN BORASE
28	Mr. ASHFAQ HUSSAIN	118	AMRUTA YADAV
29	ATUL GANDHI	119	uttamwaghmode61@gmail.com
30	JYOTHY G VIJAYAN	120	POOJA SHARMA
31	Dr. PAYAL BANSAL	121	MAYUR JAGDISH PATIL
32	Dr M Surekha	122	SOURABH AMRODIYA
33	Rahul Pradhan	123	Sanket Kalamkar
34	MEGHA VYAS	124	Dr. ANILA DHINGRA
35	SARITA AGARWAL	125	Dr. Shashidhara M S
36	Dr. RAJESH BHATT	126	Ms JESY JANET KUMARI J
37	KUMAR AVINASH CHANDRA	127	AMIT KUMAR JAIN
38	Prof.(Dr.) Parul Gupta	128	USHASREE R
39	DR. D. HEENA COWSAR	129	Dharamvir
40	Dr. SINDHU K.	130	Achutha JC
41	Prof.Dr.Chetan Khemraj	131	MRIDULA SHUKLA
42	Nandkishor Gupta	132	MANISH SHARMA
43	DR. R. SURYANARAYANA	133	KANCHAN SHARMA
44	Mr.ARUN FRANCIS G	134	PANKAJ BAVISKAR
45	NARESH KUMAR	135	MONIKA DESHPANDE
46	PRAVEEN KUMAR D S	136	DR. KIRAN EKNATH SURYAVANSHI
47	Vinod B R	137	KALAISELVI S
48	Dr. VIKAS GUPTA	138	UDHAYAKUMARI D
49	S.KANNADHASAN	139	Mrs PADMASINI N
50	Dr P RIZWAN AHMED	140	SEEMA PATIL
51	AMRITLAL PARIHAR	141	Mr. RANJIT ARJUN KATKAR
52	PRADEEP KUMAR MISHRA	142	Dr. PATIL MAHADEO DNYANOBA
53	Dr. SANTHOSH N	143	SACHIN SHEWALE
54	Dr. SANCHARI SAHA	144	GAURAV CHAITANYA
55	SANDEEP SURESH BODKE	145	S.VISALINI
56	Dr.M.Velan	146	OM PRAKASH KUMAWAT
57	Dr R Gowri Shankar Rao	147	SHOBHA T
58	sulakshana Mane	148	MERLIN PRIYA JACOB
59	KRISHNA PRASAD R	149	RAMYA R B
60	DR.DEEPALI UBALE	150	DR.MADHURI RAHUL MULAY
61	DR. SUMA SREEDHAR	151	BRIJRAJ SINGH SOLANKI
62	Dr.Pravin Prakash Adivarekar	152	RAKSHA KHANDARE
63	UMAIS MUKHTAR AHMAD MOMIN	153	ROHINI ASHOK BHADANE
64	KRUPI SARAF	154	AMARNATH D LANDE
65	SWAPNIL M	155	M.BALAKARTHIKEYAN

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

	KONDAWAR		
66	RAJESH K. BEHRA	156	SAUMYA PHILIP
67	ROHIT G. RAMTEKE	157	KARAN BHALLA
68	SANJAY RAUT	158	R PADMAVATHI
69	Dr. Vilas Meshram	159	DHIVYA BAKTHAVATCHALAM
70	Monali Rewashankar Wagh	160	Nikita Atul Amodkar
71	SANGITA SHIVCHARAN MESHRAM	161	Deepak Paliwal
72	SAGAR DHENGARE	162	SANDEEP KUMAR
73	HARSHAL NIKHADE	163	saloni
74	VAISHALI MENDHE	164	Pawan Hinge
75	DILIP V. KUNTE	165	Bhupesh Nandurkar
76	SNEHAL KAMBLE	166	VAISHALI R BHARAMBE
77	MS. CHARUTA S. WAGHMARE	167	HARSHIT TIWARI
78	SNEHA HIREKHAN	168	PARAMASIVAM P
79	SHEETAL S. PANDYA	169	Dr. Amit Shrivastava
80	NEHA DESHMUKH	170	Dr. Rupali Shrivastava
81	RUJATA CHAUDHARI	171	KIRAN NAPHADE
82	KAUSHIKI UPADHYAYA	172	saloni
83	VIJAY KASHINATH SURYAWANSHI	173	kiran naphade
84	KALPESH ANIL ISAI		
85	SACHIN PRABHAKAR BADGUJAR		
86	GEETANJALI ROHAN KALME		
87	Shweta Mahajan		
88	GANESH D GOURSHETE		
89	RAMYA R B		
90	Sahebrao Narsingrao Patil		

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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A Report on 6-days Short Term Training Program

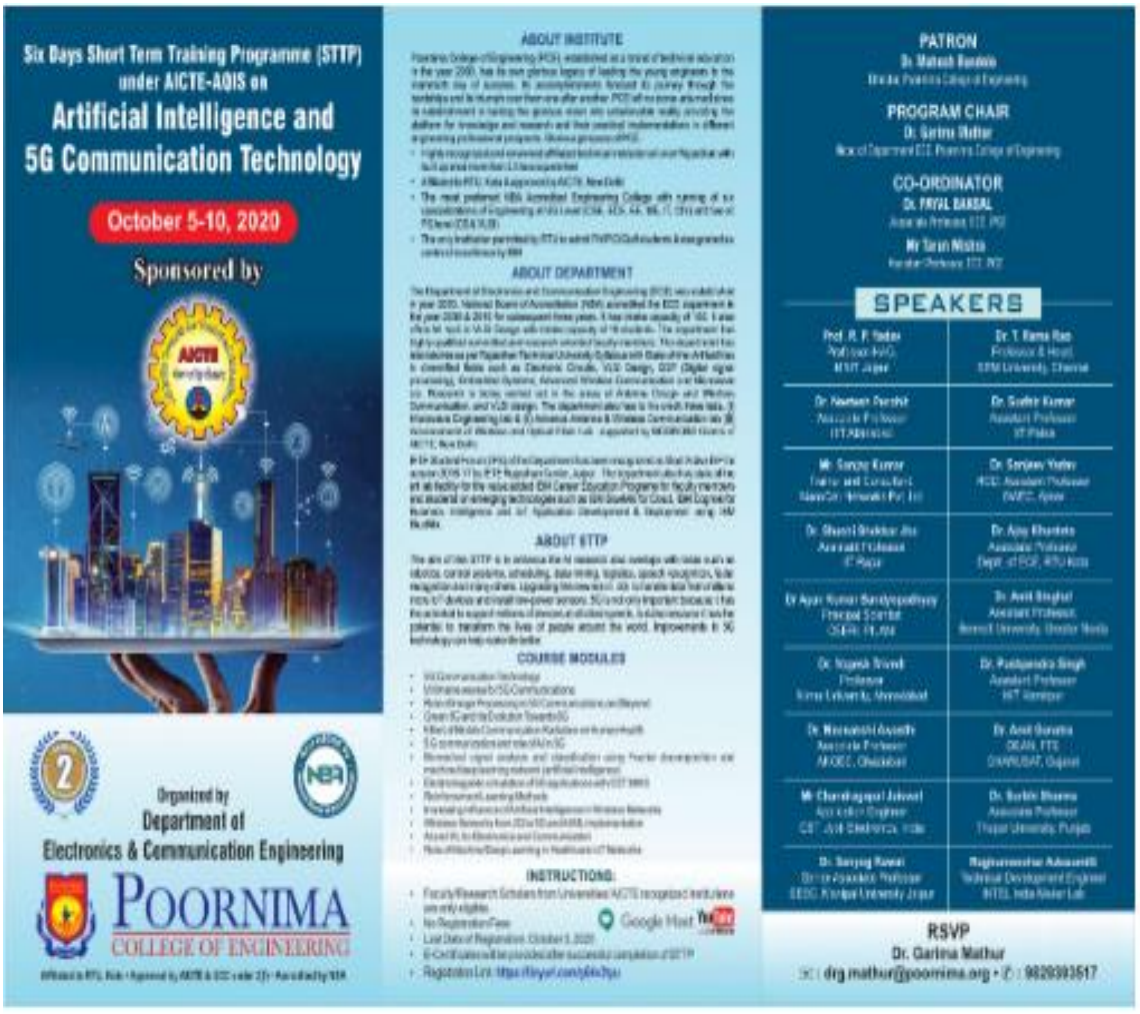
- **TITLE AND DURATION:** "Artificial Intelligence & 5G Communication Technology" from October 5-10, 2020.
- **SPONSORS:** AICTE Quality Improvement Scheme (AQIS)
- **SUPPORTERS:** Nil.
- **ORGANIZERS:** Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.
- **OBJECTIVES:** The objective of general AI is to design a system capable of thinking for itself just like humans do. Currently, general AI is still under research, and efforts are being made to develop machines that have enhanced cognitive capabilities.
- **EXPECTED OUTCOMES:**
  1. Evaluate the advantages, disadvantages, challenges, and ramifications of human–AI augmentation.
  2. Design and develop symbiotic human–AI systems that balance the information processing power of computational systems with human intelligence and decision making.
  3. Explain the benefits, limitations, and tradeoffs of designing engaging and ethical conversational user interactions, including those supported by chatbots, smart speakers, and other AI-driven, voice-based technologies.
  4. Design and evaluate conversational interfaces for different users and contexts of use.

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:**



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

Department of Electronics & Communication Engineering

First AICTE-AQIS Sponsored Short Term Training Program (STTP) on Artificial Intelligence and 5G Communication Technology from October 05-10, 2020

	9:30 AM	10:00 AM 11:30 AM	11:45 AM 01:15 PM	02:00 PM 03:30 PM
Monday (5.10.20)	**Inaugural Session Chief Guest: Prof. R. P. Yadav, Professor-HAG, MNIT, Jaipur**	**5G Communication Technology** **Prof. R. P. Yadav,** Professor-HAG, MNIT, Jaipur	**5G Technologies & Beyond - An Overview** **Dr Ayan Kumar Bandyopadhyay,** Principal Scientist, CEERI, PILANI	**Electromagnetic Simulation of 5G Applications with CST MWS** **Mr. Chandragopal Jaiswal,** Application Engineer, CST, Jyoti Electronics, India
Tuesday (6.10.20)		**Role of Image Processing in 5G Communications and Beyond** **Dr. Amit Singhal,** Assistant Professor, Bennett University, Greater Noida	**Millimeter Waves for 5G Communications** **Prof. Dr. T. Rama Rao,** Professor & Head, SRM Institute of Science & Technology, Chennai	**Electromagnetic Simulation of 5G Applications with CST MWS** **Mr. Chandragopal Jaiswal,** Application Engineer, CST, Jyoti Electronics, India
Wednesday (7.10.20		**Nature Inspired Antennas for Modern Communication Systems** **Dr. Sanyog Rawat,** Senior Associate Professor, SEEC, Manipal University Jaipur	**5G Communication for IoT Applications** **Dr. Yogesh Trivedi,** Professor, Nirma University, Ahmadabad	**Biomedical Signal Analysis & Classification Using Fourier Decomposition & ML/DL Network (AI)** **Dr. Pushpendra Singh,** Assistant Professor, NIT Hamirpur
Thursday (8.10.20)		**Green 5G & Its Evolution Towards 6G** **Dr. Meenakshi Awasthi,** Associate Professor, AKGEC, Ghaziabad	**5 G Communication & Role of AI in 5G** **Dr. Ajay Khunteta,** Associate Professor, Deptt. of ECE, RTU Kota	**Reinforcement Learning Methods** **Dr. Shashi Shekhar Jha,** Assistant Professor, IIT Ropar
Friday (9.10.20)		**Effect of Mobile Communication Radiation on Human Health** **Dr. Sanjeev Yadav** HOD, Assistant Professor, GWEC, Ajmer	**Increasing Influence of Artificial Intelligence in Wireless Networks** **Dr. Neetesh Purohit** Associate Professor, IIIT Allahabad	**Wireless Networks From 2G to 5G & AI/ML Implementation** **Sanjay Kumar,** Trainer and Consultant, NanoCell Networks Pvt. Ltd.
Saturday (10.10.20)		**AI and ML for Electronics and Communication** **Dr. Amit Ganatra** DEAN, FTE, CHARUSAT, Gujarat	**Introduction to CNN's and Edge Deployments** **Raghumanohar Adusumilli** Technical Development Engineer INTEL India Maker Lab, Bengaluru	**Role of Machine/Deep Learning in Healthcare IoT Networks** **Dr. Sudhir Kumar,** Assistant Professor, IIT Patna

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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♦ **INAUGURAL SESSION:**

SHORT TERM TRAINING PROGRAM

on

Artificial Intelligence & 5G Communication Technology

October 5 -10, 2020

Sponsored by AICTE Quality Improvement Scheme (AQIS)

Organized by Department of Electronics & Communication Engineering,

Poornima College of Engineering, Jaipur

Date: October 5, 2020 **Time: 09:30 – 10:05 AM**

Venue: Online (https://meet.google.com/eaf-ufri-utt)

Q- Sheet Inaugural Session

S. No	Activity	Duration	Time
1.	Welcome of Dignitaries and Introduction of STTP by **Dr. Garima Mathur**, Head & Professor ECE, PCE • **Prof. R. P. Yadav**, Professor-HAG, MNIT, Jaipur **(Chief Guest)** • **Dr. Meghendra Sharma**, Secretary, Vigyan Bharti , Rajasthan **(Guest of Honour)** • **Ar. Rahul Singhi**, Director, Poornima Group • **Dr. Mahesh Bundele**, Director & Principal, PCE, Jaipur • **Mr. Pankaj Dhemla**, Vice Principal, PCE Jaipur	03 Min	09:30 am-09:33 am
2.	Welcome address by **Dr. Mahesh Bundele**, Director & Principal, PCE, Jaipur	05 Min	09:33 am-09:38 am
3.	Motivational Words by **Ar. Rahul Singhi**, Director, Poornima Group	05 Min	09:38 am- 09:43 am
4.	Welcome address by **Guest of Honour Dr. Meghendra Sharma**, Secretary, Vigyan Bharti, Rajasthan	10 Min	09:43 am- 09:53 am
5.	Inaugural Address by **Chief Guest Prof. R. P. Yadav**, Professor-HAG, MNIT, Jaipur	10 Min	09:53 am-10:03 am
6.	Vote of Thanks by **Dr. Payal Bansal**, Associate Prof., ECE, PCE	02 Min	10:03 am-10:05 am

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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♦ **DETAILS OF RESOURCE PERSONS:**

POORNIMA
COLLEGE OF ENGINEERING
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Department of Electronics & Communication Engineering

First AICTE-AQIS Sponsored Short Term Training Program (STTP) on Artificial Intelligence and 5G Communication Technology from October 05-10, 2020

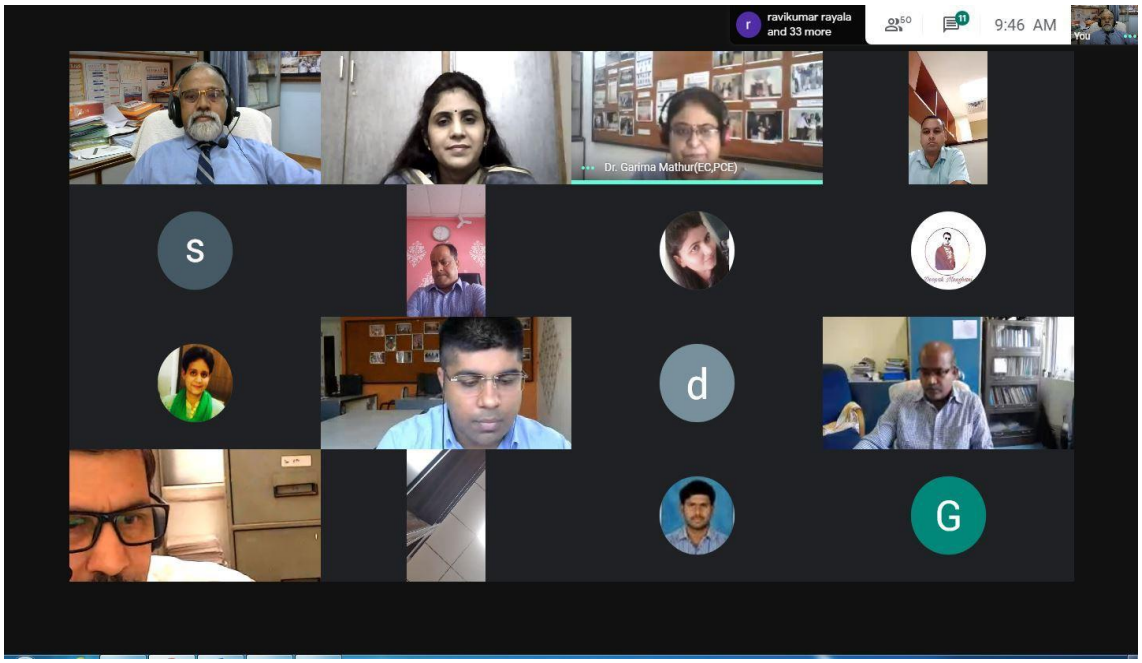
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Tuesday (6.10.20)		**Role of Image Processing in 5G Communications and Beyond** **Dr. Amit Singhal,** Assistant Professor, Bennett University, Greater Noida	**Millimeter Waves for 5G Communications** **Prof. Dr. T. Rama Rao,** Professor & Head, SRM Institute of Science & Technology, Chennai	**Electromagnetic Simulation of 5G Applications with CST MWS** **Mr. Chandragopal Jaiswal,** Application Engineer, CST, Jyoti Electronics, India
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<u>Day 1: 5th October, 2020</u>:

Inaugural session witnessed the presence of Chief Guest Prof, R. P. Yadav, MNIT Jaipur, Guest of honour Dr. Magendra Sharma Secretary vigyan Bharti Rajasthan, Dr. Mahesh Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur convener of STTP & Dr. Payal Bansal Coordinator of STTP, PCE, participants along with the faculty members. The event started with the online inaugural ceremony in presence of chief guest Prof. R. P. Yadav MNIT Jaipur, Guest of honor Dr. Magendra Sharma Secretary vigyan Bharti Rajasthan & Dr. Mahesh Bundele, Director PCE. Dr. Garima Mathur addressed the participants about the STTP & 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 Artificial Intelligence. Dr. R. P Yadav addressed the gathering with his knowledgeable words, & then after Dr. Magendra Sharma updated the participants about the new schemes of vigyan bharti. In last the inaugural session concluded by vote of thanks delivered by Dr. Payal Bansal.

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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♦ **GLIPMSES OF CONDUCTION:**



♦ **CONTENT DELIVERY / PRACTICAL SESSIONS:**

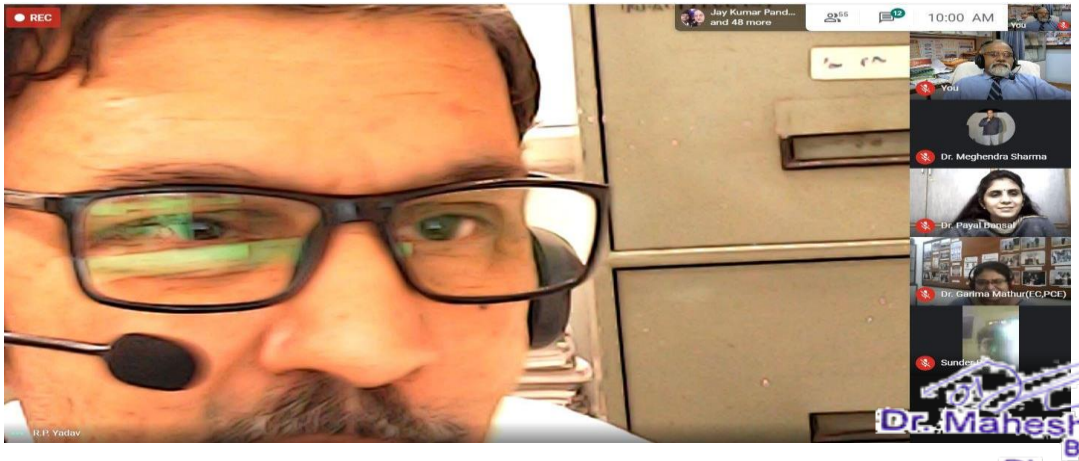
Expert Talk-1

Topic: 5G Communication Technology

Resource Person: Prof. R. P. Yadav, Professor-HAG, MNIT, Jaipur

Venue: Online Via Google Meet

Prof. R. P. Yadav, Professor-HAG, MNIT, Jaipur delivered his talk on 5G Communication Technology. He told us about the designing of receiver, its applications etc. He also update about the new unique features bring some new challenges in the design of the new trans receivers with 5G communication. Also brief about the security aspects of the 5G & its BW, Its advantages, its speed etc.



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B.E., M.E., Ph.D.
Director
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Expert Talk-2

Topic: 5G Technologies and beyond - An Overview

Resource Person: Dr Ayan Kumar Bandyopadhyay

Venue: online via Google meet

Dr. Ayan Kumar Bandyopadhyay has delivered his talk on 5G New Radio: Understanding IMT 2020 Radio Interface Technology. He describes about the new radio technology, new advancement in radio communication. He addressed the gathering about the new antenna technologies used in transmission & receiving the radio waves. Apart of this he discussed various live project problems in the related field.

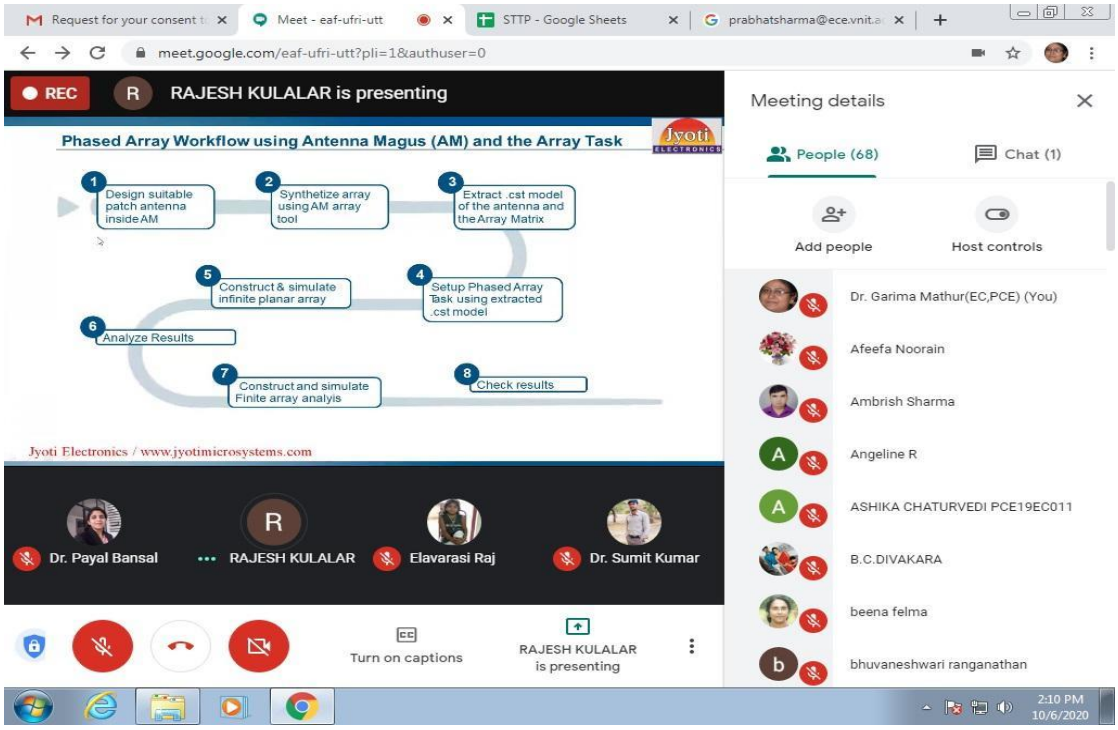
Expert Talk-3

Topic: Electromagnetic simulation of 5G applications with CST MWS

Resource Person: Mr Chandragopal Jaiswal

Venue: online Via Google meet

Third session of first day is delivered by Mr. Chandragopal Jaiswal. He is application engineer in CST, Jyoti Electronics, India. His session was the live demonstration session on CST studio. He deliver the real time practical applications as well as the designing criteria.



Dr. Mahesh Bundele
B.E., M.E., Ph.D.
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Expert Talk-4

Topic: Role of Image Processing in 5G Communications and Beyond

Resource Person: Dr. Amit Singhal Assistant Professor Bennett University, Greater Noida

Venue: Online

Second session is delivered by Dr. Amit Singhal. He is Assistant Professor in Bennett University, Greater Noida. He is very knowledgble Professor in his own field. He discuss about Different Techniques of digital Image Processing. Also discuss about the 5G communication technology. In this he explain about image expansion &its filtrations techniques.

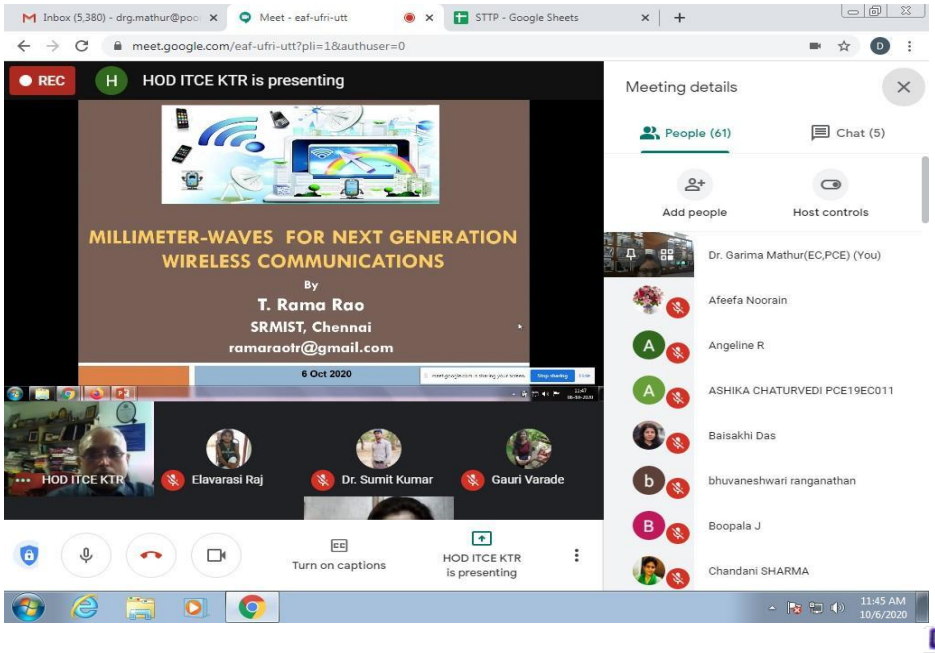
Expert Talk-5

Topic: Millimetre waves for 5G Communications

Resourse Person: Prof. Dr. T. Rama Rao (Professor & Head) SRM Institute of Science & Technology, Chennai

Venue: Online

The afternoon talk of second day is delivered by Dr. T. Rama Rao (Professor & Head) SRM Institute of Science & Technology, Chennai. His title of talk is Millimeter waves for 5G Communications. He discuss about the millimeter waves in RF communication. This is very important in radio communication.



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B.E., M.E., Ph.D.
Director
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Expert Talk-6

Topic: Electromagnetic simulation of 5G applications with CST MWS

Resource Person: Mr Chandragopal Jaiswal

Venue: online Via Google meet

Third session of first day is delivered by Mr. Chandragopal Jaiswal. He is application engineer in CST, Jyoti Electronics, India. His session was the live demonstration session on CST studio. He deliver the real time practical applications as well as the designing criteria.

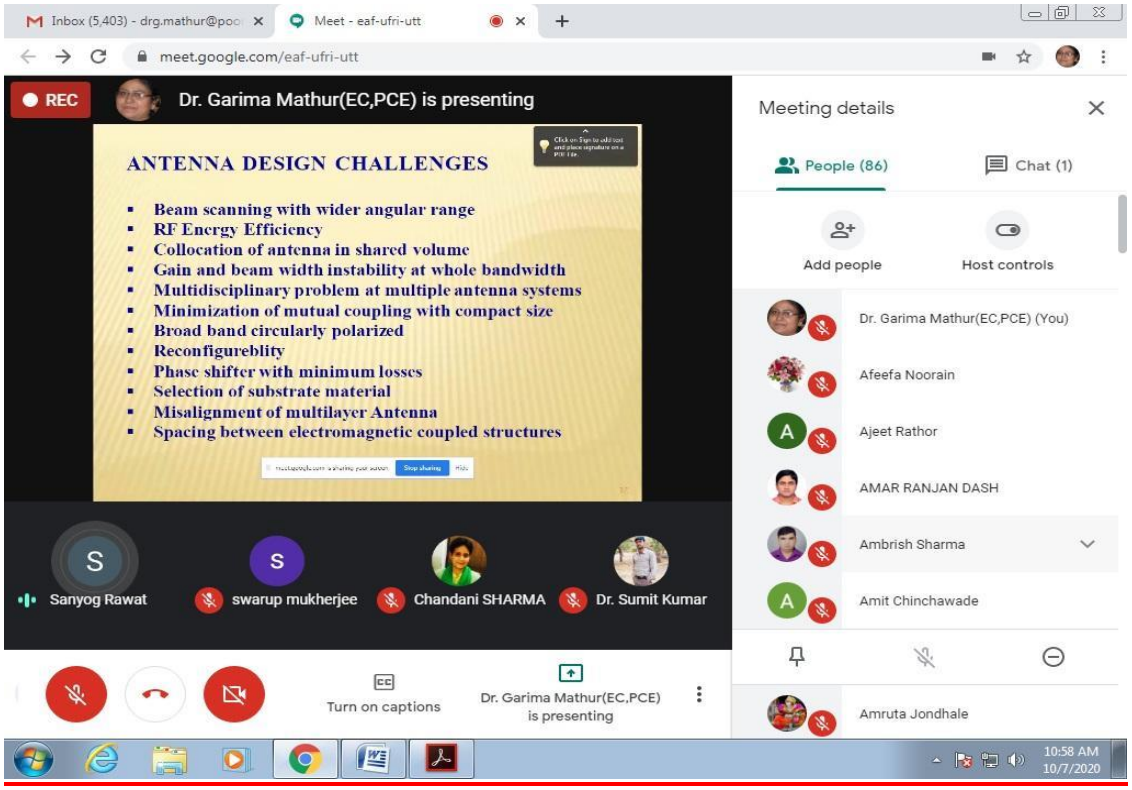
Expert Talk-7

Topic: Nature Inspired Antennas for Modern Communication Systems

Resourse Person: Dr. Sanyog Rawat Senior Associate Professor SEEC, Manipal University Jaipur

Venue: Online

Morning talk of third day of the STTP is delivered by Dr. Sanyog Rawat Senior Associate Professor SEEC, Manipal University Jaipur. His title of talk is Nature Inspired Antennas for Modern Communication Systems. This is very important in current synario. Whar are the uses of this antenna & what are the application in the green & ecofriendly environment was discussed from the speaker side.



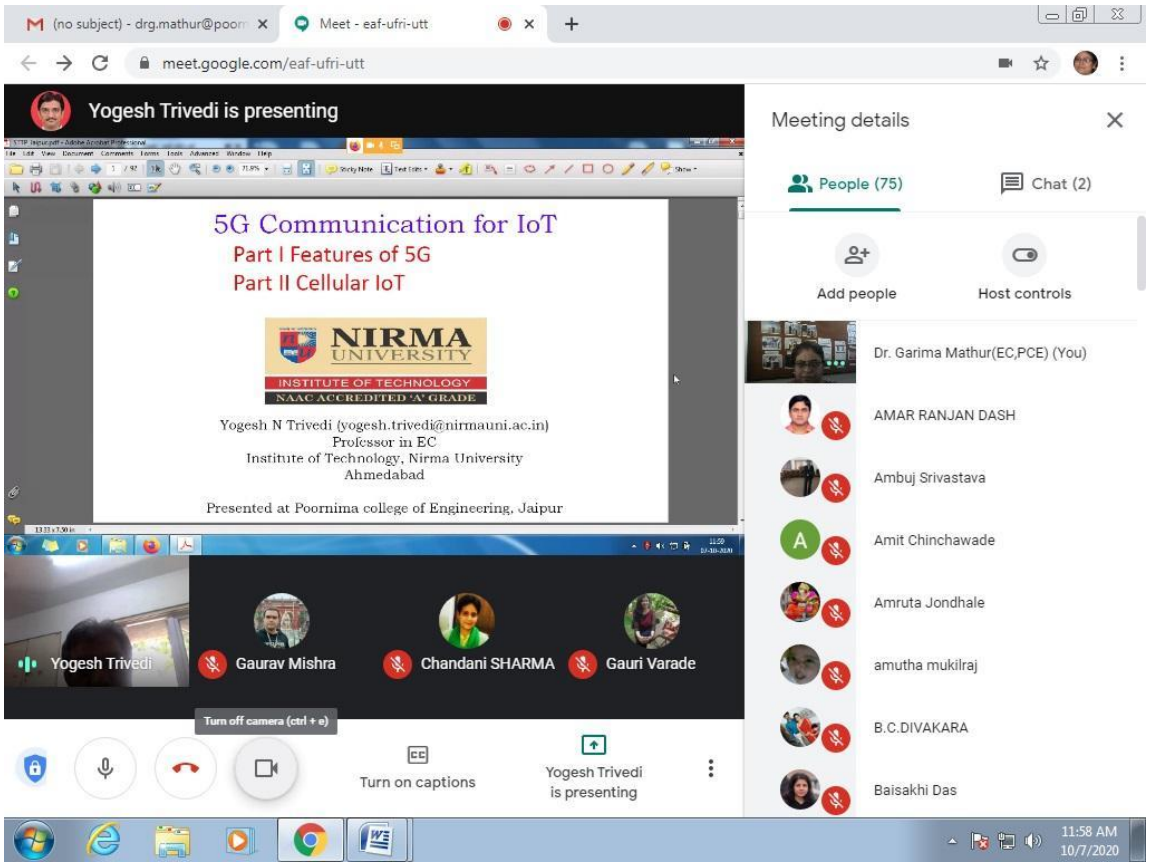
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B.E., M.E., Ph.D.
Director
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Expert Talk-8

Topic: 5G Communication for IoT Applications

Resourse Person: Dr. Yogesh Trivedi (Professor Nirma University, Ahmedabad)

Venue: Online



Expert Talk-9

Topic: Biomedical signal analysis and classification using Fourier decomposition and machine/deep learning network (artificial intelligence)

Resourse Person: Dr. Pushpendra Singh (Assistant Professor NIT Hamirpur)

Venue: Online

The last talk of third day was delivered by Dr. Pushpendra Singh. He is an Assistant Professor in NIT Hamirpur. His talk is based on the Artificial Intelligence. How to analyse the biomedical signals, & how to process it, all is descrbed the the eminent speaker.

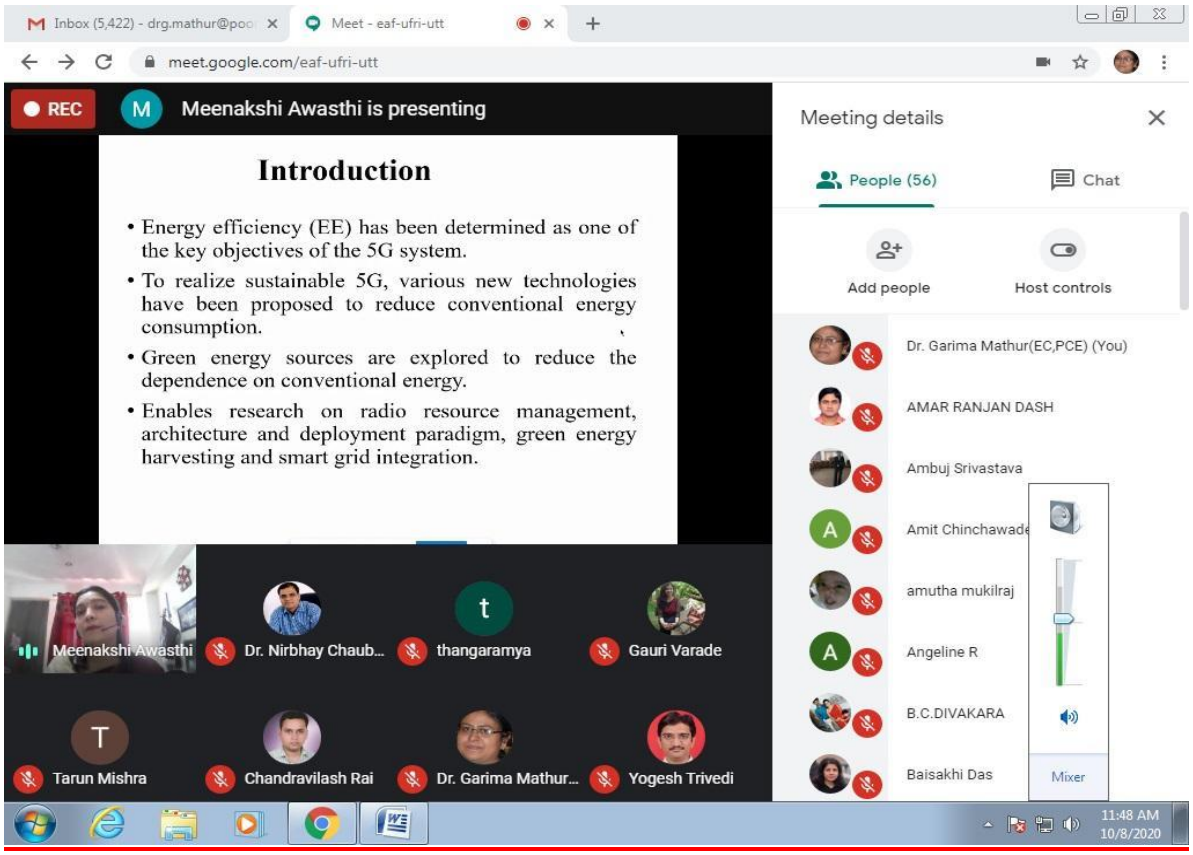
Expert Talk-10

Topic: Green 5G and Its Evolution Towards 6GResourse Person: Dr. Meenakshi Awasthi (Associate Professor AKGEC, Ghaziabad)

Venue: Online

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
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The fourth morning is started by Dr. Meenakshi Awasthi. She is an Associate Professor in AKGEC, Ghaziabad. Her talk was based on 5G & 6G. How 5G is beneficial for socity, its advantages & its disadvantages.



Expert Talk-11

Topic: 5 G communication and role of AI in 5G

Resourse Person: Dr. Ajay Khunteta (Associate Professor, Deptt. of ECE, RTU Kota)

Venue: Online

Afternoon Talk of this day was delivered by Dr. Ajay Khunteta. He is an Associate Professor in the Deptt. Of ECE, RTU Kota. His title of talk is based on 5 G communication and role of AI in 5G. He shows his his research in this area. He discussed about, how 5G important with Artificial Intelligence**.**

Expert Talk-12

Topic: Reinforcement Learning Methods

Resourse Person: Dr. Shashi Shekhar Jha, Assistant Professor IIT Ropar

Venue: Online

The last talk of this day was delivered by Dr. Shashi Shekhar Jha . He is an Assistant Professor in IIT Ropar. His talk was based on Reinforcement Learning Methods.

Expert Talk-13

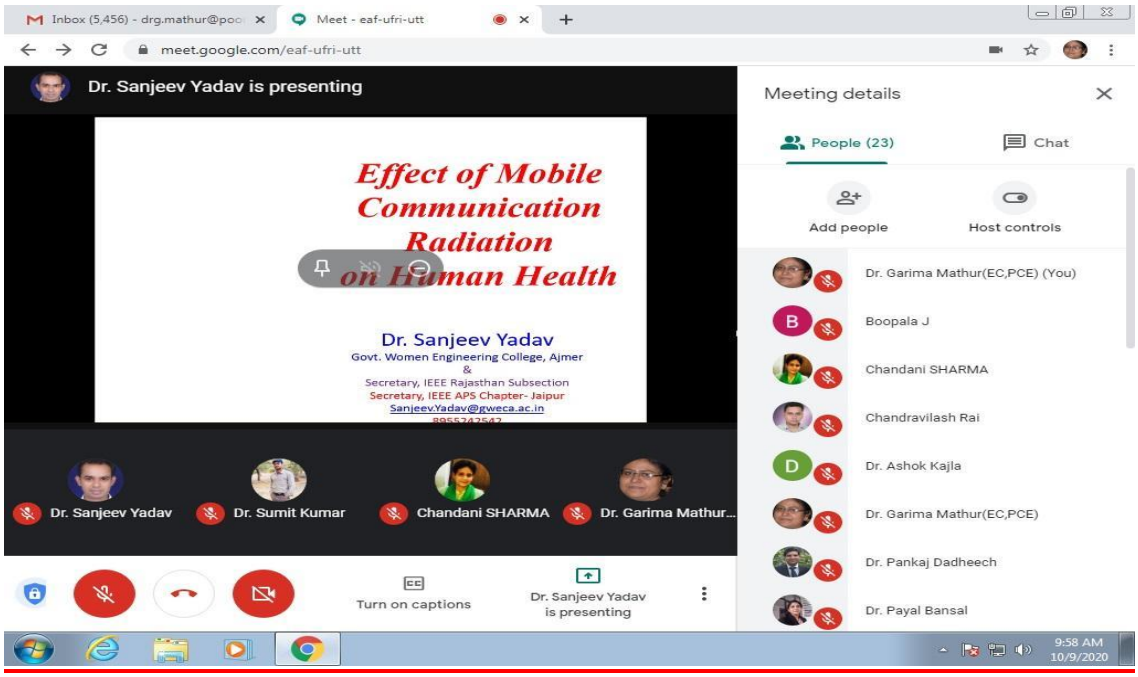
Topic: Effect of Mobile Communication Radiation on Human Health

Resourse Person: Dr. Sanjeev Yadav HOD, Assistant Professor GWEC, Ajmer

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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Venue: Online

The fifth Morning talk was delivered by Dr. Sanjeev Yadav. He is an Assistant Professor GWEC, Ajmer. His talk was based on different tchniques of Communication. He explain how the radiation is hazards for human health.



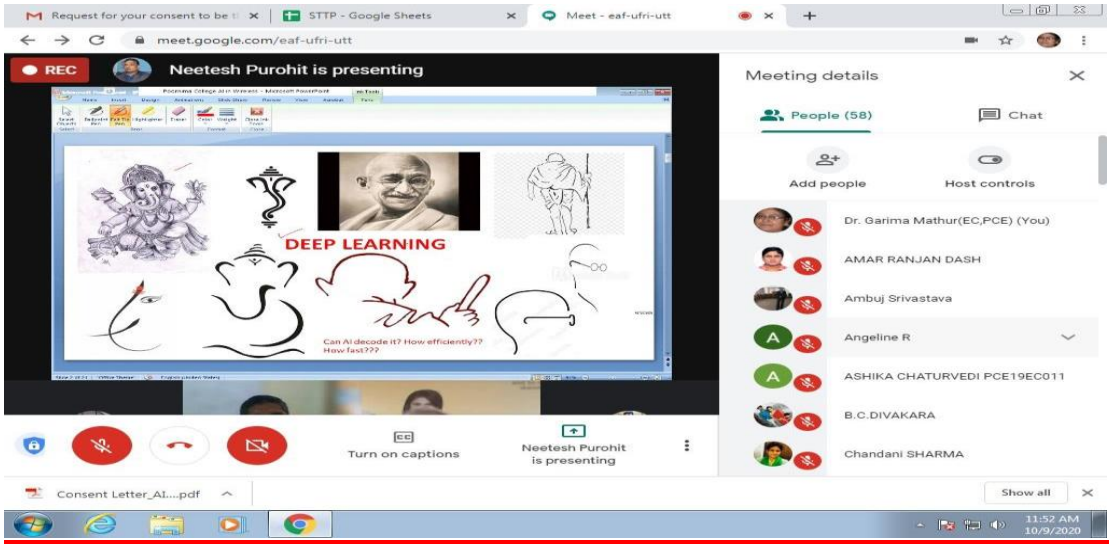
Expert Talk-14

Topic: Increasing Influence of Artificial Intelligence in Wireless Networks

Resource Person: Dr. Neetesh Purohit Associate Professor IIIT Allahabad

Venue: Online

The afternoon talk was delivered by Dr. Neetesh Purohit. He is an Associate Professor in IIIT Allahabad. His talk was based on Increasing Influence of Artificial Intelligence in Wireless Networks



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B.E., M.E., Ph.D.
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Expert Talk-15

Topic: Wireless Networks form 2G to 5G and AI/ML Implementation

Resourse person: Sanjay Kumar (Trainer and Consultant NanoCell Networks Pvt. Ltd.)

Venue: Online

Last talk of fifith day is the live demonstration session & delivered by Mr. Sanjay Kumar. He is Trainer and Consultant in NanoCell Networks Pvt. Ltd. He presents live session with software implementation.

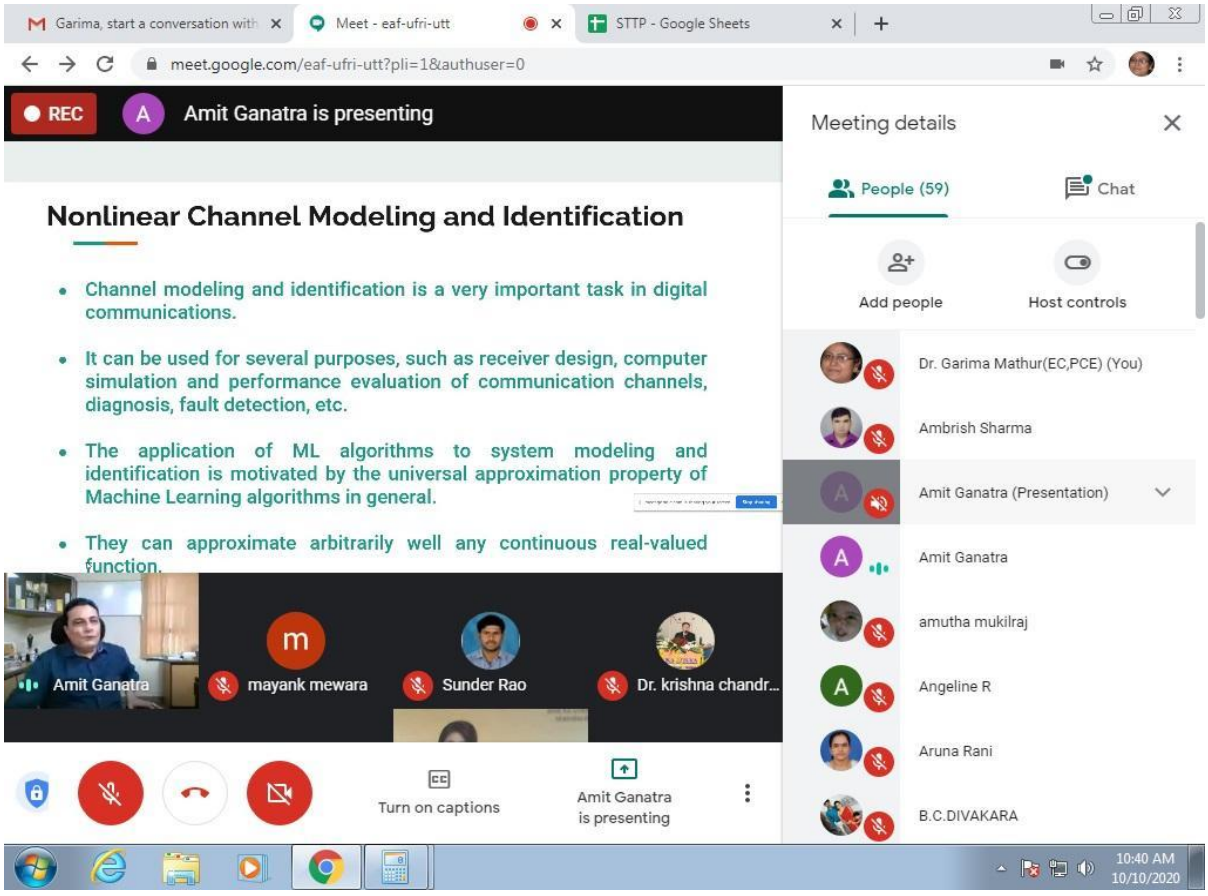
Expert Talk-16

Topic: AI and ML for Electronics and Communication

Resource Person: Dr. Amit Ganatra (DEAN, FTE CHARUSAT, Gujarat)

Venue: Online

The last day has started with atalk delivered by Dr. Amit Ganatra. He is holding a post of DEAN, FTE CHARUSAT, and Gujarat. His talk was based on AI and ML for Electronics and Communication.



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B.E., M.E., Ph.D.
Director
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Expert Talk-17

Topic: Introduction to CNN's and Edge Deployments

Resource Person: Raghumanohar Adusumilli, Technical Development Engineer INTEL India Maker Lab

Venue: Onlline

This talk is delivered by Mr. Raghumanohar Adusumilli. He is Technical Development Engineer in INTEL India Maker Lab. He demonstrate the live session.

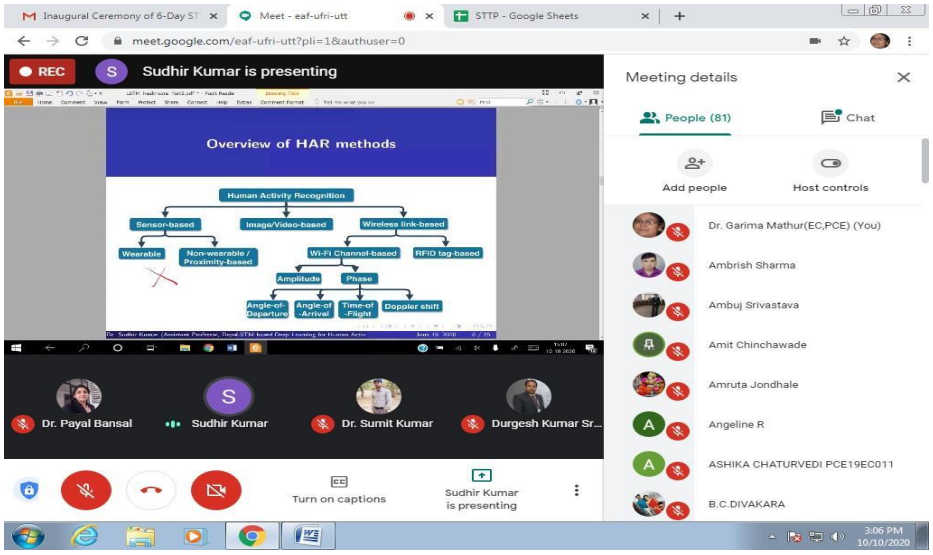
Expert Talk-18

Topic: Role of Machine/Deep Learning in Healthcare IoT Networks

Resource Person: Dr. Sudhir Kumar, Assistant Professor IIT Patna

Venue: Online

The last session was delivered by Dr. Sudhir Kumar. He is an Assistant Professor in IIT Patna. His talk was based on Role of Machine/Deep Learning in Healthcare IoT Networks.



After completing all talks, the valedictory session was held. Dr. Sudhir Kumar was the Chief Guest, Dr. Mahesh M Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, Dr. Garima Mathur, convener & HOD (ECE, PCE) & Dr. Payal Bansal coordinator of STTP, participants and faculty members attended the session. It started with the virtual welcome of Chief Guest Dr. Sudhir Kumar, by Dr. Mahesh M Bundele, Principal & Director, PCE, Jaipur. A brief report on STTP was presented by Dr. Garima Mathur. Valuable online feedback was taken from the participants. 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. Sudhir Kumar 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...

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research in the area of mobile network security and smart antenna. Dr. Payal Bansal, 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 (online).



Address by Dr. Mahesh M. Bundele



Report presented by Dr. Garima Mathur

Dr. Mahesh Bundele
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♦ **VALEDICTORY SESSIONS:**

Six Days Short Term Training Program

On

Artificial Intelligence & 5G Communication Technology

October 05 - 10, 2020

Organized by Department of Electronics & Communication Engineering,

Poornima College of Engineering, Jaipur

Date: October 10, 2020 Time: 03:30 PM - 04:00 PM

Venue: Online

Q- Sheet Valedictory Session

Activity	Duration	Time
Welcome of Dignitaries and Introduction of Refresher Program by **Dr. Garima Mathur,** Head & Professor ECE, PCE ● **Dr. Sudhir Kumar, Assistant Professor IIT Patna (Chief Guest)** ● **Ar. Rahul Singhi**, Director, Poornima Group ● **Dr. Mahesh Bundele,** Director & Principal, PCE ● **Mr. Pankaj Dhemla,** Vice Principal, PCE	05 Min	03:30 PM - 03:35 PM
Welcome address by **Dr. Mahesh Bundele**, Director & Principal, PCE	05 Min	03:35 PM - 03:40 PM
Motivational Words by **Ar. Rahul Singhi,** Director, Poornima Group	05 Min	03:40 PM - 03:45 PM
Inaugural Address by **Chief Guest Dr. Sudhir Kumar, Assistant Professor IIT Patna**	10 Min	03:45 PM - 03:55 PM
Vote of Thanks by **Dr. Payal Bansal**, Associate Prof., ECE, PCE	05 Min	03:55 PM - 04:00 PM

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

♦ LIST OF PARTICIPANTS:

S. No.	Username	Name of Participant	Department	Name of Institute
1	jay.pandey@srmu.ac.in	JAY KUMAR PANDEY	ECE/ET	Shri Ramswaroop Memorial University
2	divsmi@gmail.com	MR. B. C. DIVAKARA	ECE/ET	Global academy of technology
3	aobeena@gmail.com	DR. BEENA A.O.	ECE/ET	SAINTGITS COLLEGE OF ENGINEERING
4	aanitha@sxcce.edu.in	MS. A. ANITHA	ECE/ET	St.Xaviers Catholic College of Engineering
5	baishnobi123@gmail.com	MS. BAISHNOBI DASH	CSE	VIGNAN INSTITUTE OF TECHNOLOGY & MANAGEMENT
6	deepayerolkar@gmail.com	MS. DEEPA JIVANRAO YEROLKAR	ECE/ET	AISSMS Polytechnic
7	nileshkuchekar9@gmail.com	MR. KUCHEKAR NILESH DIGAMBAR	ECE/ET	PVG COET, 09,PARVATI, PUNE
8	caroline@sxcce.edu.in	MS. S. CAROLINE	ECE/ET	St. Xavier's Catholic College of Engineering
9	amber.sharma2008@gmail.com	AMBRISH KUMAR SHARMA	CSE	Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV)
10	monikamalik@jssaten.ac.in	MS. MONIKA MALIK	ECE/ET	JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA
11	jmpatel@bbit.ac.in	MR. JIGAR MAHESHBHAI PATEL	ECE/ET	BHAILALBHAI AND BHIKHABHAI INSTITUTE OF TECHNOLOGY (GIA)
12	29shweta.agarwal@gmail.com	Shweta Agrawal		
13	nirbhay.chaubey@ganpatuniversity.ac.in	DR. NIRBHAY KUMAR CHAUBEY	CSE	Ganpat University
14	i.rana80@gmail.com	DR. INDU BALA	EEE/EE	Lovely Professional University
15	baisakhi.das@iemcal.com	DR. BAISAKHI DAS	Others	IEM
16	swarupfrnd@gmail.com	MR. SWARUPANANDA MUKHERJEE	ECE/ET	Asansol Engineering College
17	reeja@sxcce.edu.in	DR. Y. MARY REEJA	ECE/ET	ST XAVIER'SCATHOLIC COLLEGE OF ENGINEERING
18	rajshri.gupta@raisoni.net	MRS. RAJSHRI GUPTA	Others	G H Raisoni College of Engineering
19	mendgudle123@gmail.com	MS. SUJATA MENDGUDLE	EEE/EE	Ramrao Adik Institute Of Technology
20	nahidmalik271@gmail.com	NAHID MALIK	ECE/ET	ZAKIR HUSAIN COLLEGE OF ENGINEERING AND TECHNOLOGY
21	amuthamukilraj@gmail.com	DR. S. AMUTHA	CSE	PSR Engineering College
22	bidisha859@gmail.com	BIDISHA CHOWDHURY	ECE/ET	Kalyani government engineering college
23	swapna.revuri@gmail.com	MRS. SWAPNA REVURI	ECE/ET	VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE
24	richakumari33@gmail.com	RICHA KUMARI	ECE/ET	Zakir Husain College Of Engineering And Technology,Aligarh Muslim University
25	pswathi_it@vnrvjiet.in	P. SWATHI	Others	VNRVJIET
26	vadirajmanvi@gmail.com	Vadiraj Manvi	Others	Maharani Lakshmi Ammanni College For Women
27	ram.rashmirekha14@gmail.com	DR. RASHMIREKHA RAM	ECE/ET	Siksha O Anusandhan Deemed to be University
28	dr.kcroy@gmail.com	Dr. KRISHNA CHANDRA ROY	EEE/EE	kautilya Institute of Technology and Engineering

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

29	boopalacse@gmail.com	MS. J. BOOPALA	CSE	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
30	researchamardash@gmail.com	MR. AMAR RANJAN DASH	CSE	PARALA MAHARAJA ENGINEERING COLLEGE
31	pandeykamal.1976@gmail.com	DR. KAMAL PRAKASH PANDEY	ECE/ET	Shambhunath Institute of Engineering & Technology Prayagraj
32	gaurav8a@gmail.com	Dr. Gaurav Vijay	ECE/ET	Career Point University
33	jwalithagoud@gmail.com	PARISA JWALITHA	ECE/ET	KKR & KSRInstitute of Technology and Sciences
35	malladi.sunderrao@gmail.com	MR. MALLADI SUNDER RAO	ECE/ET	HOLY MARY INSTITUTE OF TECHNOLOGY AND SCIENCE
36	femila@sxcce.edu.in	MS. V.FEMILA SAVIO	ECE/ET	St.Xavier's Catholic College of Engineering
37	chandani19nov@gmail.com	DR CHANDANI SHARMA	ECE/ET	Quantum University
38	saisuneel.adem@gmail.com	MR. A SAI SUNEEL	ECE/ET	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
39	sujitha@sxcce.edu.in	DR. S. MARIA SERAPHIN SUJITHA	ECE/ET	St.Xaviers Catholic College of Engg
40	dhuramesh@gmail.com	MR. RAMESH DHULIPUDI	CSE	GIET COLLEGE OF ENGINEERING
41	vishal.nimavat.ec@vvpedulink.ac.in	DR. VISHAL DINESHCHANDRA NIMAVAT	ECE/ET	V. V. P. ENGINEERING COLLEGE, RAJKOT
42	neha.e9720@cumail.in	MS NEHA SHARMA	CSE	Chandigarh University
43	anbunathan.sathiyapriya@gmail.com	DR. SATHIYA PRIYA S	ECE/ET	PANIMALR INSTITUE OF TECHNOLOGY
44	skarthik.star@gmail.com	MR. S. KARTHIKEYAN	ECE/ET	PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY
45	bswetha_it@mgit.ac.in	MS. SWETHA BACHUWAR	Others	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
46	arunrs9848@gmail.com	MR.DHUPAM ARUN KUMAR	ECE/ET	\RAGHU INSTITUTE OF TECHNOLOGY(AUTONOMOUS)
47	parul.pathak5@gmail.com	MS. PARUL PATHAK	ECE/ET	JECRC University Jaipur
48	pme932@gmail.com	PALLAVI SAPKALE	ECE/ET	RAIT
49	walid.cse15@gmail.com	MR. MD. ABUL ALA WALID	CSE	Bangabandhu Sheikh Mujibur Rahman Science & Technology University
50	srivi@svce.ac.in	MS. K. SRIVIDHYA	ECE/ET	Sri Venkateswara college of Engineering
51	ermayank1978@gmail.com	MR. MAYANK MEWARA	ECE/ET	Government engineering college jhalawar
52	rachna.sharma@nirmauni.ac.in	Rachna Sharma		
53	rzafar@skit.ac.in	DR. RUKHSAR ZAFAR	ECE/ET	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
54	dd.rcew@gmail.com	MR. DEVENDER KUMAR DHAKED	CSE	Rajasthan College of Engineering For Women
55	anushareddy.kallem@gmail.com	MRS K.ANUSHA	CSE	geetanjali college of engineering and technology
56	sidhjasleen@gmail.com	JASLEEN KAUR	CSE	P P Savani University
57	d.khandelwal2021@yahoo.co.in	DEEPENDRA KHANDELWAL	ECE/ET	JEC, Kukas-Jaipur
58	varadegauri03@gmail.com	MS. GAURI ARUN VARADE	ECE/ET	Sir Visvesvaraya Institute of Technology
59	manikandan.maai@gmail.com	DR. MANIKANDAN J	ECE/ET	Sri Sairam Engi...

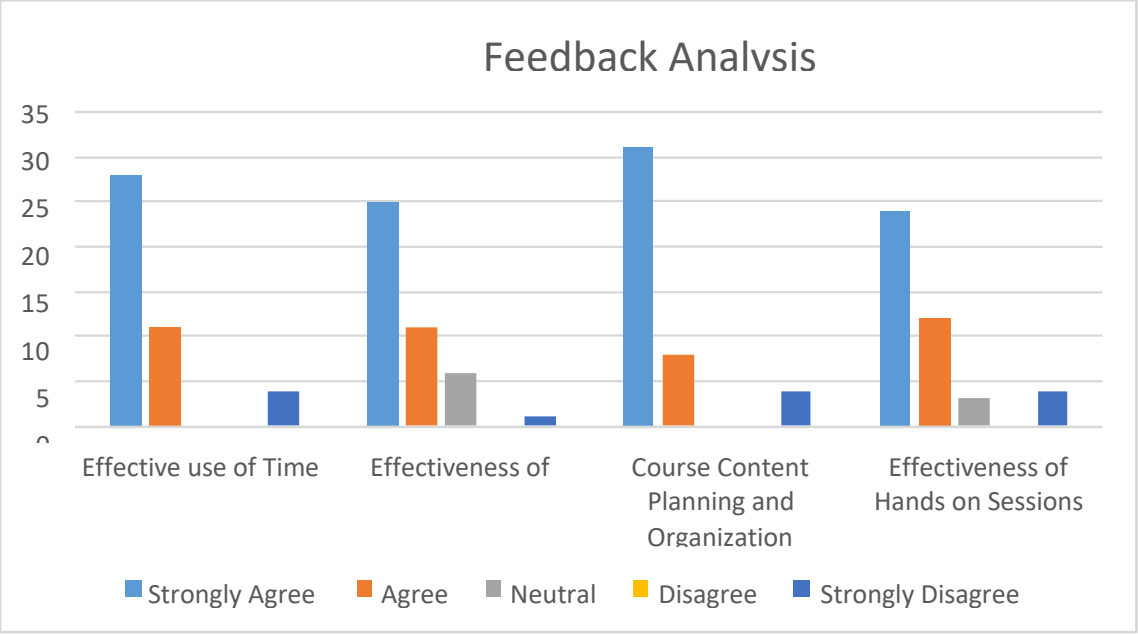
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

60	shivaji.sinha@jssaten.ac.in	MR. SHIVAJI SINHA	ECE/ET	JSS Academy of Technical Education, Noida
61	drkiransree@gmail.com	DR. POKKULURI KIRAN SREE	CSE	Shri Vishnu Engineering College for Women
62	mehaboob311134@gmail.com	MR. MEHABOOB MUJAWAR	ECE/ET	Goa College of Engineering
63	saisudheer1978@gmail.com	MR. SAI SUDHEER KOTTA	ECE/ET	SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
64	anila.dhingra@poornima.org	DR. ANILA DHINGRA	ECE/ET	Poornima College of Engineering
65	dppanditwit@gmail.com	Darshan Pradeep Pandit		
66	kajla.ashok@poornima.org	DR. ASHOK KUMAR KAJLA	EEE/EE	Poornima College of Engineering
67	ramyaraki786@gmail.com	RAMYA R	ECE/ET	SVNIT
68	tvsbalashakil@gmail.com	DR. SUGANTHI SANTHANAM	ECE/ET	K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
69	pratishthasingh27@gmail.com	MS. PRATISHTHA BOWADE	Others	Sagar Institute of Research & Technology(SIRT)
70	mboharupi@gmail.com	DR. SARIKA KHAPRE	Others	Dr.D.Y.Patil Institute of technology Pimpri pune
71	kavyashreemk@sjce.ac.in	MS. KAVYASHREE M K	ECE/ET	JSS Science and Technology University
72	mitra.dipra@gmail.com	MR. DIPRA MITRA	CSE	Chandigarh university
73	alphonse.kinol@gmail.com	DR. A. MARY JOY KINOL	ECE/ET	Sathyabama Institute of science and technology
74	srinu85@gmail.com	DR. S. SRINIVASULU RAJU	ECE/ET	Velagapudi Ramakrishna Siddhartha Engineering College
75	monika_c3@rediffmail.com	MONIKA RANI	ECE/ET	IKGPTU
76	pankaj@skit.ac.in	DR. PANKAJ DADHEECH	CSE	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
77	srdogiwal@skit.ac.in	DR. S. R. DOGIWAL	CSE	SKIT
78	sunilsharma96@gmail.com	MR. SUNIL KUMAR SHARMA	ECE/ET	Engineering College Ajmer
79	bhuvi.saakshu@gmail.com	MS. BHUVANESHWARI R	CSE	CEG CAMPUS ANNA UNIVERSITY
80	raviguptabtp@gmail.com	DR. RAVI GUPTA	ECE/ET	Govt Engineering College Bharatpur Rajasthan
81	shreniks2k7@rediffmail.com	MR. SHRENIK SURESH SARADE	ECE/ET	Walchand College of Engineering, Sangli
82	kapila.moon@gmail.com	MRS. KAPILA MUNENDRA MOON	ECE/ET	R.A.I.T
83	susantasarangi@soa.ac.in	DR. SUSANTA KUMAR SARANGI	ECE/ET	ITER SOA DEEMED TO BE UNIVERSITY ODISHA
84	vinit11885@gmail.com	MR. VINIT SHAH	Others	FREEZCO CORPORATION
85	thangaramya112@gmail.com	MS. K.THANGARAMYA	CSE	College of Engineering, Guindy Campus, Anna University
86	mahalakster@gmail.com	Ms. Vn Lakshmi Pabbisetty	ECE/ET	Vlits
87	satyendrap111@gmail.com	MR SATYENDRA PRASAD	Others	DR AITH KANPUR
88	spandy3303@gmail.com	MS. T L SPANDANA	ECE/ET	RAGHU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
89	papan.ec11@gmail.com	MR. BHASKAR ROY	Others	Asansol Engineering College
91	drnmalarvizhi@gmail.com	DR MALARVIZHI N	CSE	Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology
92	ancyroseann@gmail.com	MS. ANCY C A	Others	St Paul's College

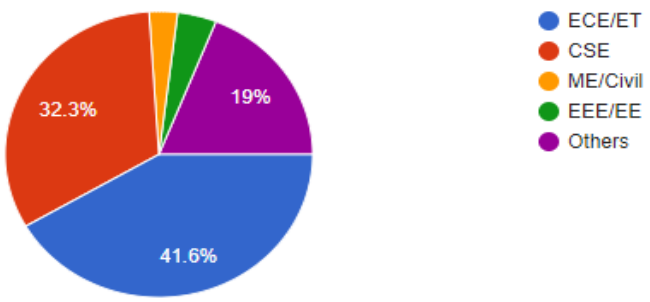
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

♦ 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	1
Neutral	0	6	0	3
Disagree	0	0	0	0
Strongly Disagree	4	1	4	4

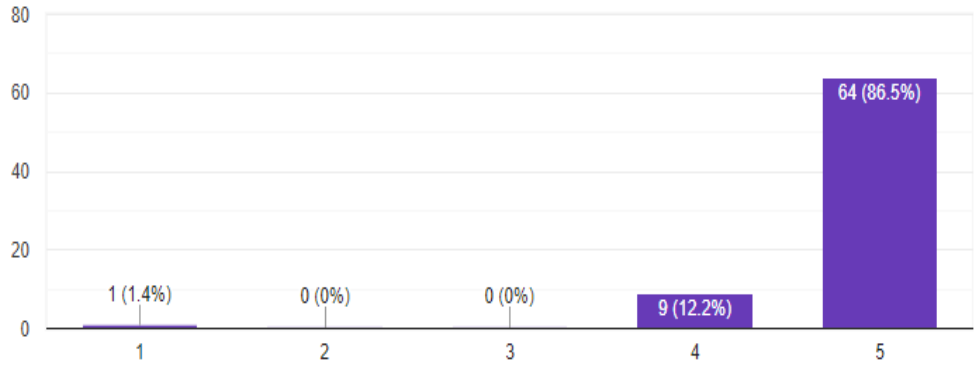


♦ SWOT ANALYSIS:



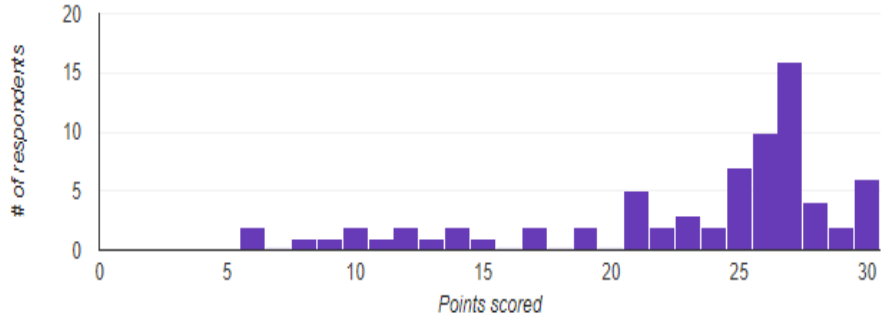
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

How satisfied were you with the STTP content?



Average	Median	Range
22.91 / 30 points	26 / 30 points	6 - 30 points

Total points distribution



- **BUDGET & ACTUALS: NIL**

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

A Report on Six Days Short Term Training Programme (STTP)

TITLE AND DURATION: "Eclectic Research Trends in Manufacturing (Part -1) (5th October – 10th October 2020)

SPONSORS: AICTE sponsored Under AICTE Quality Improvement Scheme

ORGANIZERS: Department of Mechanical Engineering, Poornima College of Engineering, Jaipur.

OBJECTIVES: The event aims to provide a forum to exchange views, ideas of eclectic trends 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 newer technologies, enthusiasts, and faculty to discuss the Latest issues and possible solutions in area of manufacturing.

Identifying Industry challenges and sensitize about latest trends and technologies in area of manufacturing.

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:

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Eclectic Research Trends in Manufacturing

(Part -1)

October 05-10, 2020

REGISTRATION FORM

Name: .....

Designation: .....

Department: .....

Institute: .....

Institute Address: .....

.....

.....

Mobile No. : .....

E-mail: .....

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

REGISTRATION AND FEE PARTICULARS

- There is no registration fee.
- The STTP is open to all faculties and research scholars from Universities/AICTE approved institutions.
- Registration for the program may be done by filling the registration form online via: **https://tinyurl.com/STTP-ERTM-1-2020**
- All the sessions will be conducted online only.
- After completion of the program, test will be conducted.
- E-certificates will be issued to those participants who have attended the program and qualify the test.

RESOURCE PERSONS

The resource persons will be from reputed institutions and industries in the area of manufacturing such as IITs, IIITDMs, NITs, and other premier institutes.

IMPORTANT DATES

Last date for Registration	**October 02, 2020**
Intimation of selection by mail	**October 03, 2020**
FDP duration	**October 05-10, 2020**

CORRESPONDENCE

Dr. Yashpal

Associate Professor, Department of Mechanical Engineering

✉ : yashpal.kaushik@poornima.org • ✆ : +91-9468748006



POORNIMA
COLLEGE OF ENGINEERING

ISI-6, RIICO Institutional Area, Sitapura, Jaipur

www.pce.poornima.org

Six Days Short Term Training Programme (STTP) under AICTE-AQIS on

Eclectic Research Trends in Manufacturing

(Part -1)

October 05-10, 2020



Sponsored by

New Delhi

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Under

AICTE Quality Improvement Schemes (AQIS)

Organized by

Department of Mechanical Engineering

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COLLEGE OF 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, CM) 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 DEPARTMENT

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. 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 THE PROGRAM

Recent developments in advance engineering materials and their applications in aerospace, defense, nuclear reactor, medical and electronics industries have significantly transformed the manufacturing industries.

Advance manufacturing industries are facing challenges of creating miniature features of complex shapes in advance engineering materials having superior properties. Further to produce products with minimal harm to the environment, at competitive price, customized features and quick response to the change in demand is also essential requirement of industries. Moreover to elect the appropriate manufacturing process for processing of specific advanced materials, optimum parameters are required. However meet such challenges and accelerate the growth of manufacturing especially in the campaign of "MAKE IN INDIA". Manufacturing industries are moving towards intelligent manufacturing processes/systems. These processes/systems are advanced manufacturing processes, sustainable manufacturing and smart manufacturing technologies. Therefore, Engineering Graduates need to know about the eclectic research trends in manufacturing.

TOPICS TO BE COVERED

- Advanced Manufacturing Processes
- Applications of AMP's in Industry
- Advanced Finishing / Forming Technologies
- Advanced Joining Technologies
- Fabrication of macro & micro components
- Micro & Nano Machining Processes
- Optimization of Advanced Manufacturing Processes

OBJECTIVES OF STTP

- To provide an exposure to the participants regarding current scenario in manufacturing techniques.
- To provide the knowledge of cutting edge researches and developments carried out/observed by the Eminent Speakers in advance manufacturing domains, for products having immediate industrial applications for self-reliance of the Country.

PATRON

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

ADVISORS

Mr. Pankaj Dhemla
Vice Principal, PCE, Jaipur

Dr. Rekha Nair
Dean, First Year, PCE, Jaipur

Mr. Devendra Somwanshi
Registrar, PCE, Jaipur

CONVENOR

Dr. Narayan Lal Jain
Professor & HoD, ME, PCE, Jaipur

COORDINATOR

Dr. Yashpal
Associate Professor, ME, PCE, Jaipur

CO-COORDINATORS

Dr. Surendra Kumar Saini
Associate Professor
ME, PCE, Jaipur

Dr. Akshay Jain
Assistant Professor
ME, PCE, Jaipur

Mr. Shailendra Kasera
Assistant Professor
ME, PCE, Jaipur

Mr. Sanjay Kumawat
Assistant Professor
ME, PCE, Jaipur

PCE ORGANIZING COMMITTEE

Dr. Rahul Sen	Assoc. Professor, ME
Dr. Sagar Kumar	Assoc. Professor, ME
Dr. Rajkumar Satankar	Assoc. 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. Ashwani Kapoor	Asst. Professor, ME
Mr. Buddhi P. Panwar	Asst. Professor, ME
Mr. Ratnesh Sharma	Asst. Professor, ME
Mr. Kalpit Jain	Asst. Professor, ME
Mr. Rahul Sharma	Asst. Professor, ME

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

PROGRAM SCHEDULE:



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

INAUGURAL SESSION:





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



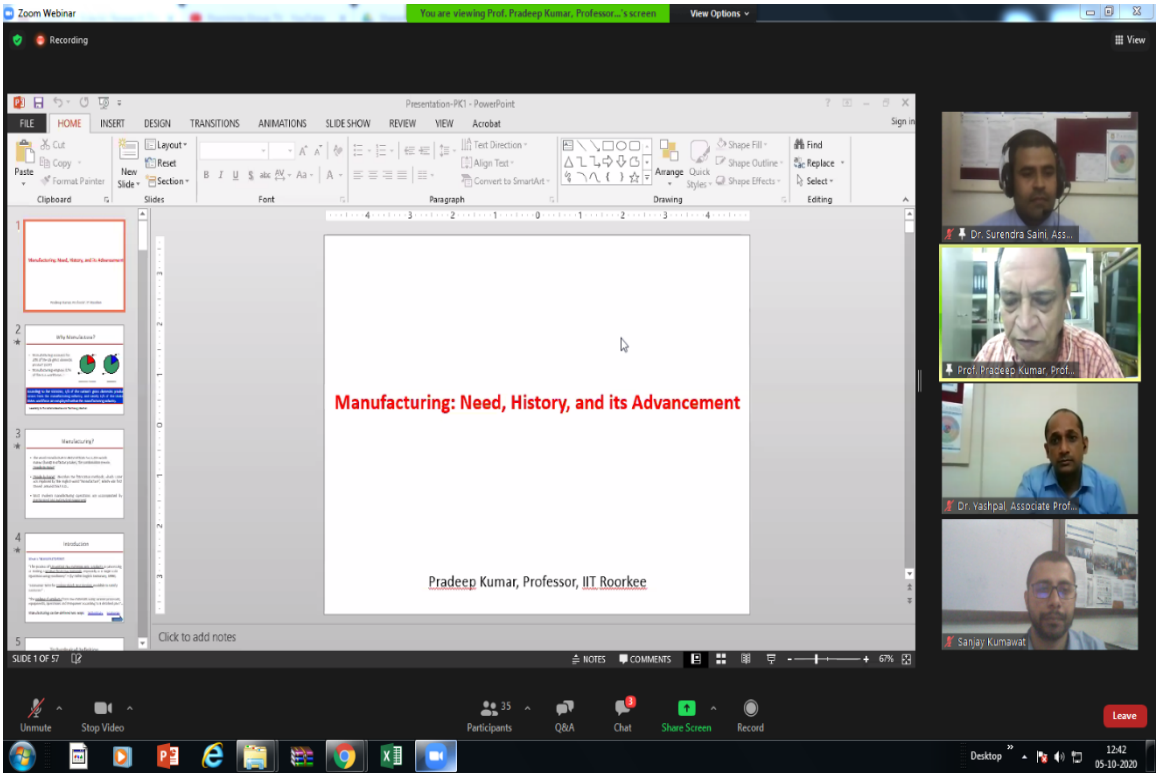


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

DETAILS OF RESOURCE PERSONS:

Prof. Pradeep Kumar, IIT, Roorkee
Prof. Alakesh Manna, Punjab Engineering College, Chandigarh
Dr. Ankur Gupta, Assistant Professor from IIT, Jodhpur
Prof. A. K. Sharma sir from IIT, Roorkee
Dr. Anup Malik, MNIT, Jaipur
Dr. Satish Tailor, Chief Scientist & Head R & D Metalizing Co. Pvt. Ltd. Jodhpur
Dr. C. S. Jawalkar, Associate Professor, Punjab Engineering College, Chandigarh
Dr. Suman Kant, Associate Professor, Punjab Engineering College, Chandigarh
Dr. Perumalla Janki Ramulu, Associate Professor, ASTU, Ethiopia
Dr. P S Rao, NITTTR, Chandigarh
Dr. Joy Prakash Mishra, Assistant Professor from NIT, Kurukshetra
Dr Vivek Jain, Assoc. Professor, Thapar Institute of Engineering & Technology, Patiala
Dr. Ankur Gupta, Assistant Professor, IIT Jodhpur
Prof. R S Walia, Professor & Head, Department of P & I, Punjab Engineering College, Chandigarh
Dr Anand Pandey, Associate Professor from Manipal University Jaipur

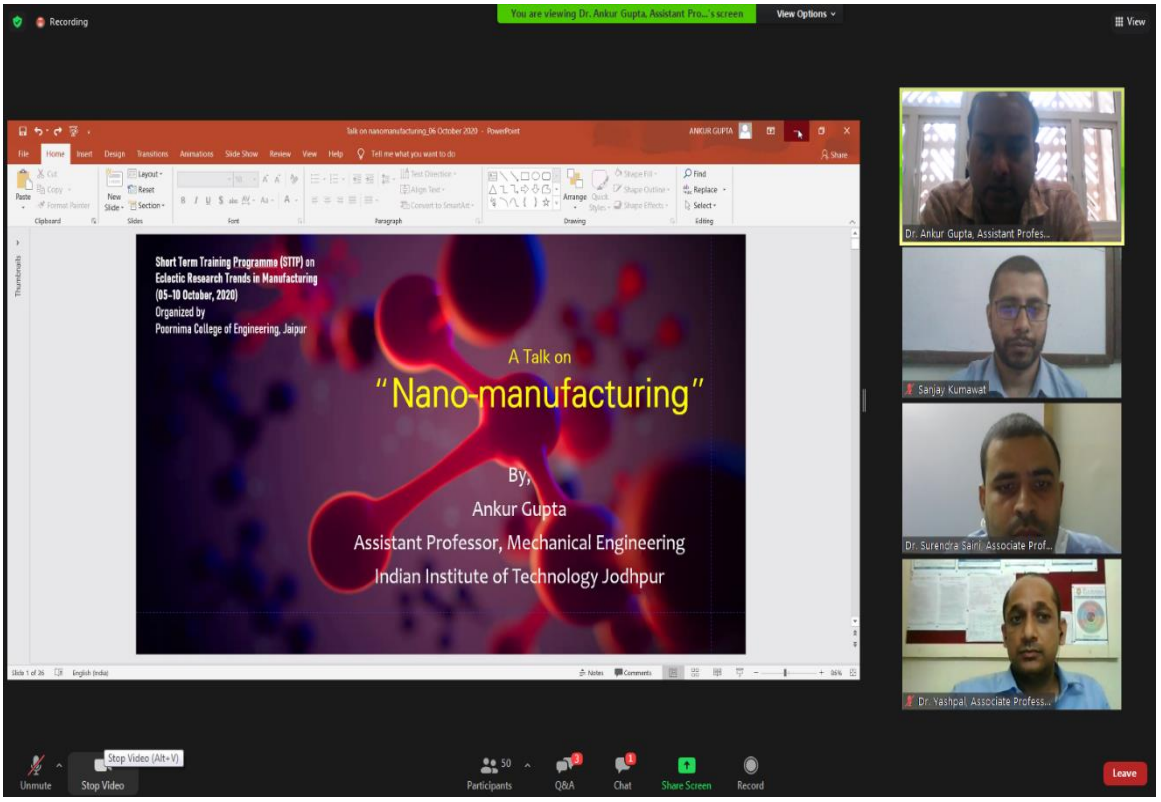
- **GLIPMSES OF CONDUCTION:**



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

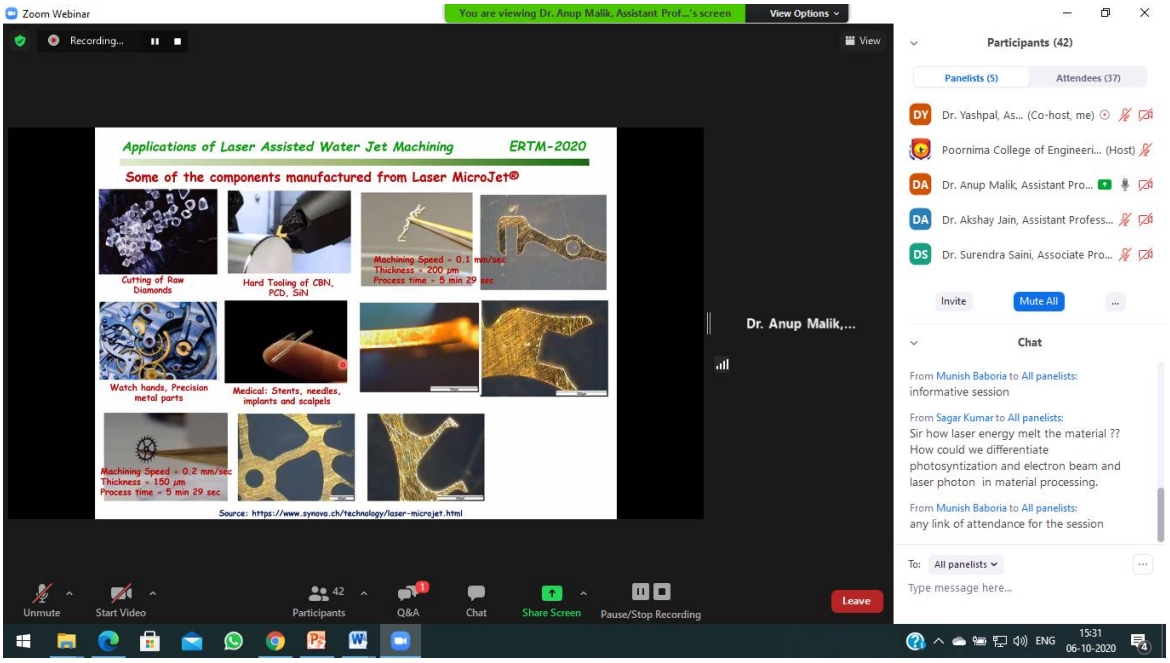
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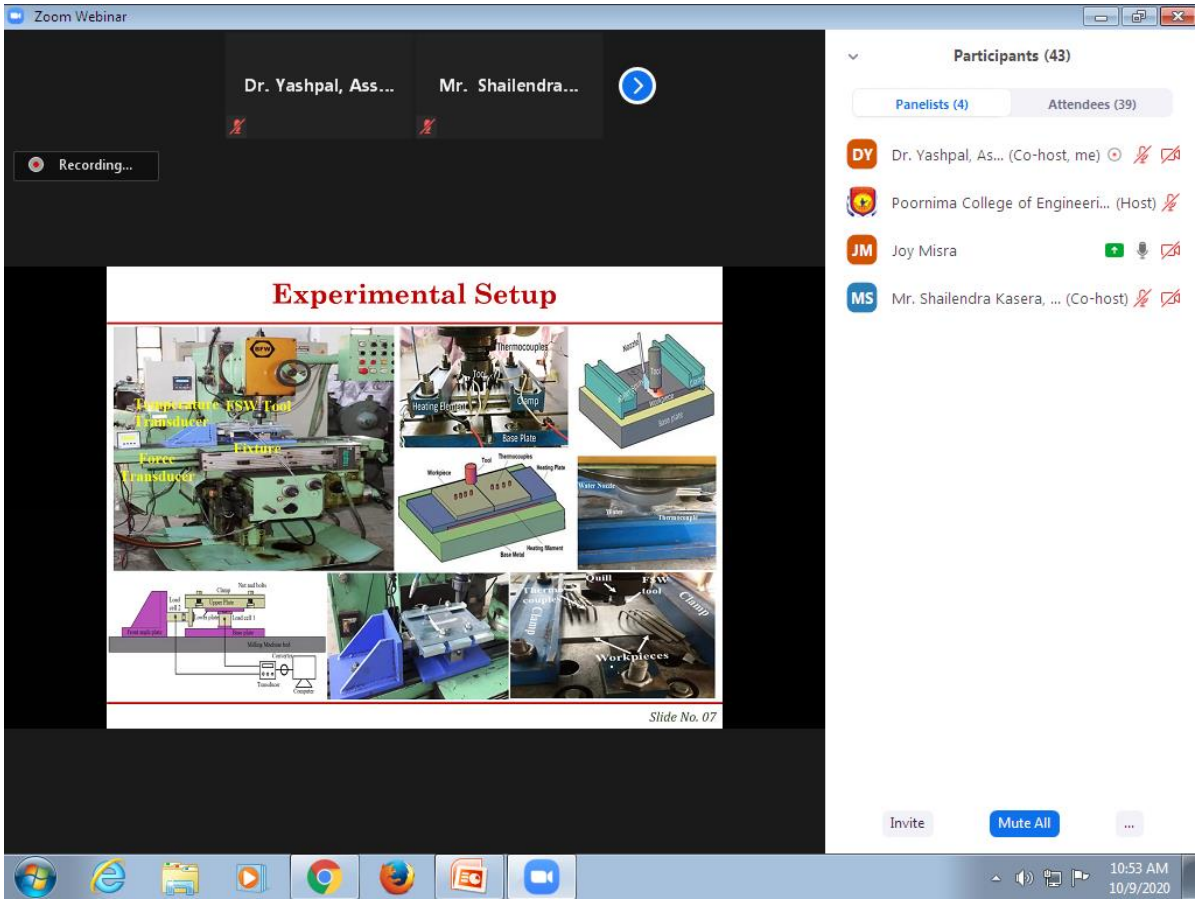


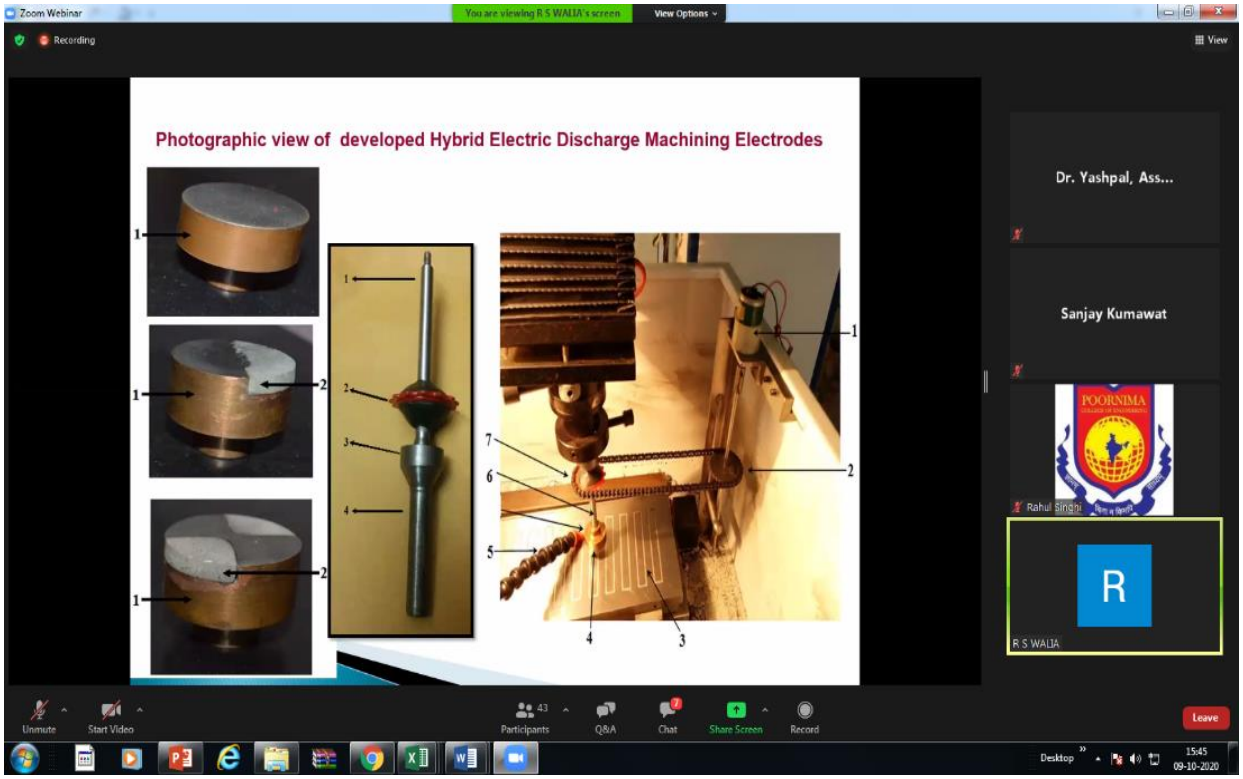
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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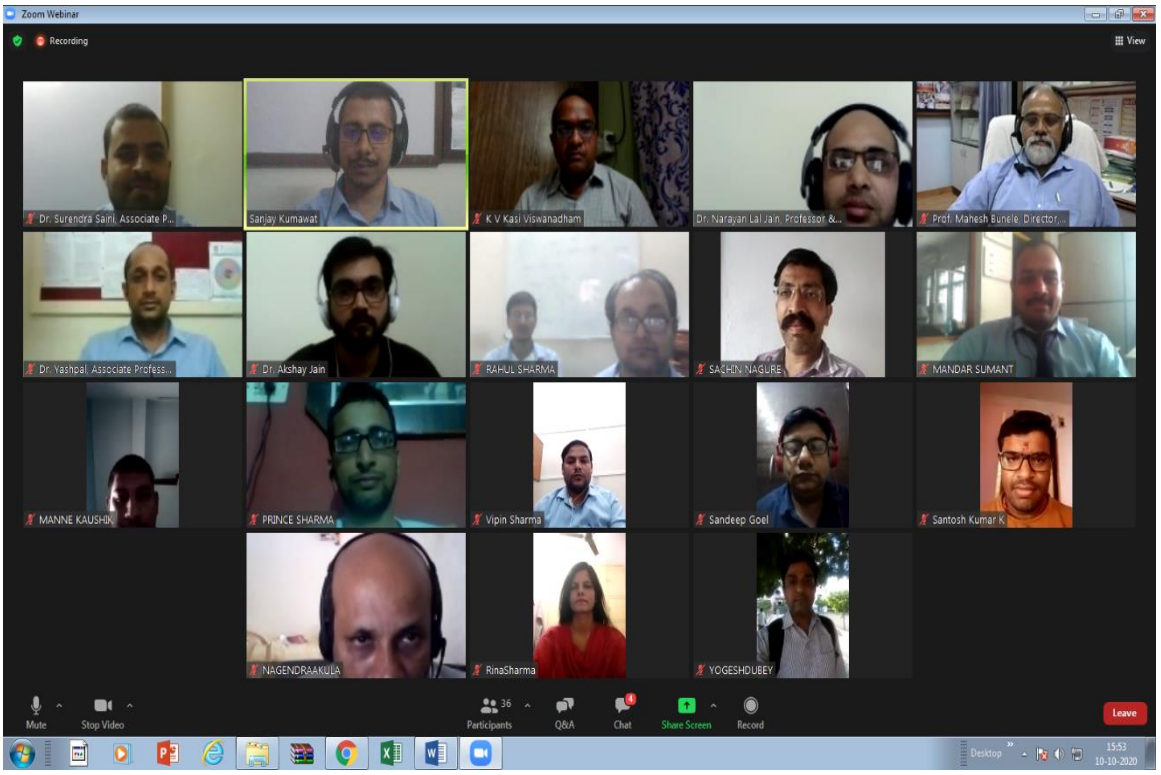
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

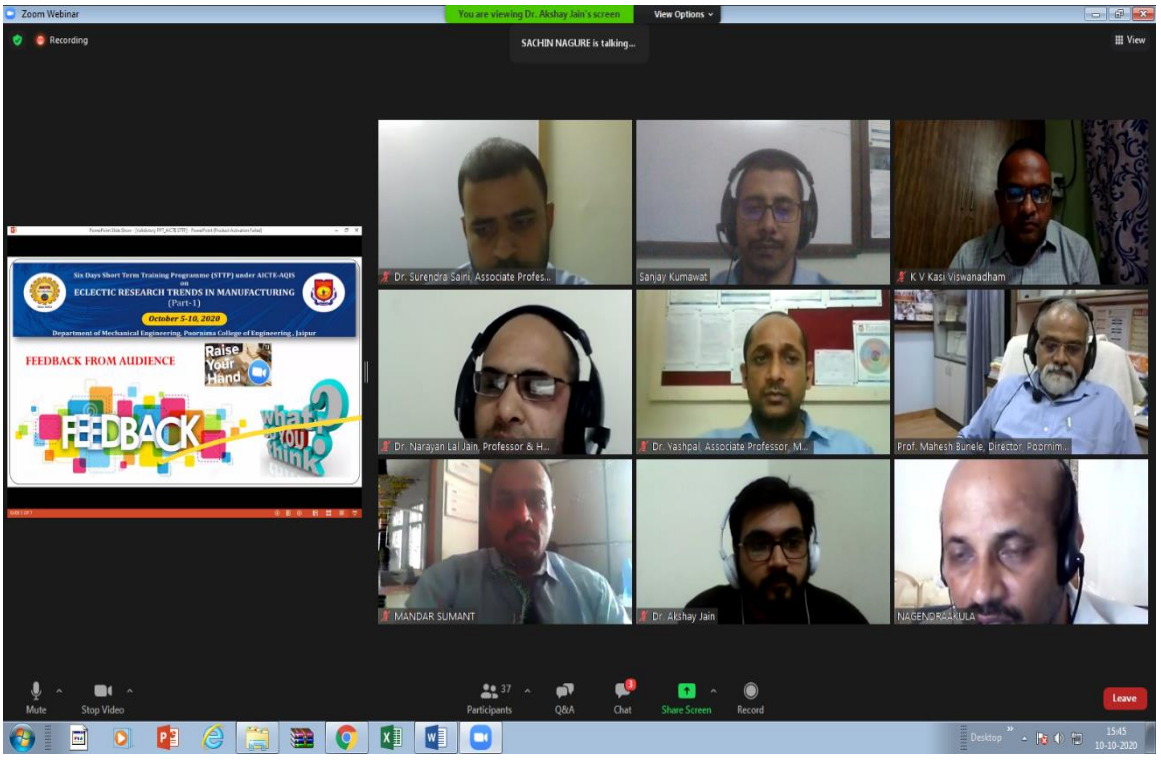




Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

VALEDICTORY SESSIONS:





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

- **LIST OF PARTICIPANTS:**

S. No.	Name	Email	Institute
1	Abdul Gani Abdul Raheman	97gani.ar@gmail.com	Capital Engineering College, Bhubaneswar
2	Abhishek Barua	abhishekbarua69@gmail.com	Centre for Advanced Post Graduate Studies, BPUT, Rourkela
3	Abhishek Charak	abhi.charak0021@gmail.com	Punjab Engineering College, Chandigarh
4	Abhishek Dixit	dixitabhishek1188@gmail.com	JIET Jodhpur (Rajasthan)
5	Ajay Lalbhai Desai	ald01@ganpatuniversity.ac.in	Ganpat Universitty, Mehsana
6	Ajay Soni	ajay.mvm01@gmail.com	SAGE University, Bhopal
7	Ajoy Krishna Dutta	dutta.krishna@gmail.com	Jorhat Engineering College, Assam
8	Akhil Sharma	2017pcemeakhil701@poornima.org	Poornima College of Engineering, Jaipur
9	Akshay Kumar Chaudhry	akki016@gmail.com	Punjab Engineering College, Chandigarh
10	Amandeep Singh Bhandari	singh.amandeep183@gmail.com	Punujabi University, Patiala
11	Amit K Mandal	amit.mandal@poornima.org	Poornima College of Engineering, Jaipur
12	Anil Kumar Yadav	anilkumarout@gmail.com	Yagyavalkya Institute of Technology, Jaipur
13	Ankit Sharma	ankitshrma000@gmail.com	Arya Group of Colleges, Jaipur
14	Anup Anil Junankar	anup87junankar@gmail.com	Poornima University, Jaipur
15	Ashabai S Kumawat	asha.kumawat@poornima.org	Poornima College of Engineering, Jaipur
16	Ashok Kumar Saini	ashokksaini99@gmail.com	Engineering College Bikaner
17	Atul Sharma	atul220749@gmail.com	Rajasthan Technical University, Kota
18	Ayush Goyal	ayush.goyal@poornima.org	Poornima Institute of Engineering & Technology, Jaipur
19	Bandita Sahu	banditasahu521@gmail.com	Indira Gandhi Institute of Technology, Odisha
20	Bharat Ankur Dogra	bharatdogra.786@gmail.com	UPES, Dehradun
21	Bhavanesh sharma	bhavaneshsharma2009@gmail.com	Arya College of Engineering and IT, Jaipur
22	Bhuvnesh Sharma	bhuvnesh.sharma@poornima.org	Poornima College of Engineering, Jaipur
23	Bishnu Narayan Mahapatra	bnm@cet.edu.in	College of Engineering and Technology, Bhubaneswar
24	Buddhi Prakash Panwar	buddhi.prakash@poornima.org	Poornima College of Engineering, Jaipur
25	Chandrashekhar Jawalkar	csjawalkar@pec.edu.in	Punjab Engineering College, Chandigarh
26	Debananda Behera	debacom.behera@gmail.com	Capital Engineering College, Bhubaneswar
27	Debesh Swain	debeshswain26@gmail.com	Govt. College of Engineering Kalahandi, Bhawanipatna
28	Deepak Kumar Prajapat	Dprajapat.dk30@gmail.com	MNIT, Jaipur
29	Dhananjay Kumar	dhananjay.kumar@poornima.org	Poornima College of Engineering, Jaipur
30	Dheeraj Nimawat	dheerajnimawat@gmail.com	Bal Krishna Institute of Technology, Kota
31	Dilip Kumar Bagal	dilipbagal90@gmail.com	Govt. College of Engineering Kalahandi, Bhawanipatna
32	Divakara Murthy Ketha	divakar.ketha@gmail.com	St. Peter's Engineering College, Hyderabad
33	Harish Kumar Banga	drhkbanga@gmail.com	GNDEC, Ludhi[illegible]

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

34	Narinder Kumar	narinderkumar@ctuniversity.in	School of Engineering & Technology, CT University, Ludhiana
35	Ghodke Mangesh S.	mangeshsghodke@gmail.com	R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur
36	Narayan Lal Jain	narayan.jain@poornima.org	Poornima College of Engineering, Jaipur
37	Peeyush Vats	peeyushvatsscholar@gmail.com	IIMT College of Engineering
38	Piyush Vishwakarma	piyush.vishwakarma@gmail.com	Lingaya's Vidyapeeth
39	Rishi Pareek	rishi.pareek@outlook.com	Jaipur Engineering College and Research Centre (JECRC), Jaipur
40	Shivinder Singh	shivinder519@gmail.com	NIT, Jalandhar
41	Surendra Kumar Sharma	sharma_sk2006@rediffmail.com	S S Jain Subodh PG Autonomous College, Jaipur
42	Vishal Shrivastava	Vishal500371@yahoo.co.in	Arya College of Engineering and IT, Jaipur
43	Farook Bashir Sayyad	fbsayyad@gmail.com	Dr D Y Patil School of Engineering, Pune
44	Gajendra Singh	deepurajawat.singh7@gmail.com	Vedant College of Engineering and Technology, Bundi
45	Ganesh Shrirang Nale Satarkar	ganeshnale0@gmail.com	LAW College, Phaltan
46	Gaurav Tiwari	cipetjprgauravtiwari@gmail.com	CIPET, Jaipur
47	Gopal Krishan Prajapat	krishan3629@gmail.com	BK Birla Institute of Engineering and Technology, Pilani
48	Gunjan Singh	singhgunjan92@gmail.com	Babu Banarasi Das University, Lucknow
49	Gyanendra Kumar Arvind	gyan.arvind@gmail.com	Suman Pvt. Industrial Training Institute, Manohar Thana
50	Hardik Jain	hardikjain465@gmail.com	DRIT, JAIPUR
51	Harshit Lohar	2017pcemeharshit043@poornima.org	Poornima College of Engineering, Jaipur
52	Himani Goyal Sharma	himani.goyal@poornima.org	Poornima College of Engineering, Jaipur
53	Himanshu Khandelwal	monty.khandelwal95@gmail.com	Modi Institute of Technology, Kota
54	Himmat Singh	himmatsingh91rawat@gmail.com	CIPET, Jaipur
55	Ishu Monga	ishumonga1986@gmail.com	Government Polytechnic, Dhangar, Fatehabad
56	Kalpit Jain	kalpit.jain@poornima.org	Poornima College of Engineering, Jaipur
57	Khushal Deep Verma	2014pcemekhushal@poornima.org	The Hi-Tech Gear Ltd., Bhiwadi, Rajasthan
58	Khushboo Dadhich	khusboodadhich@gmail.com	CIPET, Jaipur
59	Mafidur Rahman	mrahman1234@rediffmail.com	Jorhat Engineering College, Assam
60	Sumant Mandar Mukundrav	mandarsumant.me@bitseducampus.ac.in	Babaria Institute of Technology, Vadodara
61	MANI T N	tnmani@pacrpoly.org	P.A.C.Ramasamy Raja Polytechnic College, Tamil Nadu
62	Manish Prakash	manish.prakash@poornima.org	Poornima College of Engineering, Jaipur
63	Manisha Saxena	manishasaxena879@gmail.com	CIPET, Jaipur
64	Manoj Kumar	mnjbrd.02@gmail.com	Punjab Engineering College, Chandigarh
65	Md Azharuddin	constantineazhar786@gmail.com	Govt. Engineering College, Bikaner
66	Meenu Rani	shmeenu172@gmail.com	Arya College of Engineering & IT, Jaipur
67	Monisha Pathak	mamup@yahoo.co.in	Jorhat Engineering College, Assam
68	Mrinal Gautam	mrinalgautam35@gmail.com	Rajasthan Technical University, Kota (Rajasthan)

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

69	Mukesh Choubisa	Mukesh.choubisa@iar.ac.in	Institute of Advanced Research, Gandhinagar
70	Munush Baboria	munish0005@gmail.com	Yogananda College of Engineering and Technology, Jammu
71	Nagender Kumar Chandla	nagender.mechengg@gmail.com	Punjab Engineering College, Chandigarh
72	Naveen Kumar Sharma	naveen31.sharma@gmail.com	I. K. G. Punjab Technical University, Kapurthala, Punjab
73	Neelabh Gupta	neelabhgupta05@gmail.com	Modi Institute of Technology, Kota
74	Nitin Verma	nitinverma3.nv@gmail.com	Poornima College of Engineering, Jaipur
75	Achole Pandurang Bapurao	pbachole@gmail.com	Azad Mahavidyalaya, Ausa
76	Pinky Mourya	pink.mits1986@gmail.com	Jaipur Engineering College, Jaipur
77	Pradeep Kumar Meena	paru.meena@gmail.com	Delhi Technological University, Delhi
78	Pooja Rani	poojarani1982.11@gmail.com	Govt PG College, Mahendergarh
79	Pradeep Sahu	psahu2104@gmail.com	CIPET, Jaipur
80	Pramod Kumar	pramodfaujdar1984@gmail.com	Vivekananda Institute of Technology, Jaipur
81	Prashant kumar	prashant.kumar@anandice.ac.in	Anand International College of Engineering, Jaipur
82	Pratish Rawat	pratish.rawat@poornima.edu.in	Poornima University, Jaipur
83	Praveen Gupta	praveen.gupta@poornima.org	Poornima College of Engineering, Jaipur
84	Prince Sharma	prince.isgec2015@gmail.com	ISGEC Hitachi Zosen Ltd., Yamuna Nagar
85	Priyanshu Mohan	priyanshumohan@gmail.com	Panjab University, Chandigarh
86	Puneet Kumar	puneet.kumar@miet.ac.in	MIET,Meerut
87	Pushpendra Kumar Sharma	sharma.pkskit@gmail.com	Stani Memorial Collage of Enginering & Technology, Jaipur
88	Rahul Sen	rahul.sen@poornima.org	Poornima College of Engineering, Jaipur
89	Rahul Sharma	rahul.sharma@poornima.org	Poornima College of Engineering, Jaipur
90	Rakesh Kumar Sahu	rakesh.cttc@gmail.com	Capital Engineering College, Bhubaneswar
91	Rakesh Ranjan Tripathy	rakeshranjantripathy777@gmail.com	Government College of Engineering, Bhawanipatna
92	Rakesh Kumar Sahu	sahu65724@gmail.com	Government College Of Engineering, Keonjhar
93	Ravi Yadav	ravi.1127@gmail.com	Jaipur Engineering College and Research Centre (JECRC), Jaipur
94	Ravindra Mahawar	ravindra.mahawar@poornima.org	Poornima College of Engineering, Jaipur
95	Richa Gupta	1richagupta@gmail.com	University of Jammu, Kathua
96	Richa Kumari	2019rcp9531@mnit.ac.in	Malaviya National Institute of Technology Jaipur
97	Rishabh Gupta	rishabh0412mech@gmail.com	Government Polytechnic, Kathua
98	Rajendra M. Belokar	rmbelokar@pec.ac.in	Punjab Engineering College, Chandigarh
99	Sagar Kumar	sagar.kumar@poornima.org	Poornima College of Engineering, Jaipur
100	Samar Thapa	samar_thapa2005@yahoo.co.in	Salesian College, Sonada, Darjeeling
101	Sandeep Dixit	sandeep_dixit1983@rediffmail.com	CIPET:CSTS, Jaipur
102	Sandhyarani Mohapatra	sandhyaamohapatra.96@gmail.com	College of Engineering and Technology,Bhubaneswar
103	Sanjay Choudhry	sccipet@gmail.com	CIPET IPT, Jaipur
104	Sanjeev Gupta	fdpsanjeevpreeti@gmail.com	Government College of Engineering and Technology, Jammu

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

105	Sanjeev Varshney	sanjeev.varshney@ipec.org.in	Inderprastha Engineering College, Ghaziabad
106	Saran Theja Manige	urstrulysaran@gmail.com	Jawaharlal Nehru Technology University, Anantapuramu
107	Sarin Xavier	sarinxavierkurisingal@gmail.com	NIT, Calicut
108	Sarita Ola	sarita.ola06@gmail.com	Arya College of Engineering and Information Technology, Jaipur
109	Saurabh Rawat	saurabh.rawat@juit.ac.in	Jaypee University of Information Technology, Waknaghat
110	Shaikh Nazrul	nazrulshaikh523@gmail.com	North Orissa University, Baripada, Odisha
111	Shailendra Kasera	shailendrakasera@poornima.org	Poornima College of Engineering, Jaipur
112	Sharwan kumar sharma	sharma.sharwan@gmail.com	Arya College of Engineering & IT, Jaipur
113	Shrawan kumar bairwa	shrawanbairwa@gmail.com	Arya Group of Colleges, Jaipur
114	Shripad Bharatrao Kulkarni	shripadcoolkarni@gmail.com	CIPET CSTS, Jaipur
115	Sourabh Jain	sourabh.jain@anandice.ac.in	Anand International College of Engineering, Jaipur
116	Sunil Kumar Dehariya	sunil_mech786@rediffmail.com	Govt. Polytechnic College, Betul, Madhya Pradesh
117	Sushanto Mahato	mahato.sushanto33@gmail.com	Shrinathji Institute of Technology and Engineering, Nathdwara
118	Uday Chandra A	2019rec9546@mnit.ac.in	Malaviya National Institute of Technology, Jaipur
119	Umeshkannan Pethanna	umeshkannan.p@poornima.org	Poornima College of Engineering, Jaipur
120	Vibha Bhatia	vibhabhatia29@gmail.com	Punjab Engineering College, Chandigarh
121	Vijay Mohan Shrimal	Vijay2007shrim@gmail.com	Jagannath University, Jaipur
122	Vikas Kumar	vdhanda07@gmail.com	UIET (P.U.), Chandigarh
123	Vikash	Vikasjangra281@gmail.com	TIT&S, Bhiwani
124	Vineet Kumar	smartvineet32@gmail.com	Aryabhatta College of Engineering & Research Center, Ajmer
125	Vinit Shah	vinit11885@gmail.com	FREEZCO Corporation, Vadodara
126	Vishal Rameshbhai Baraiya	vishalrjm@gmail.com	Rai University, Dholka
127	Vishal Pawar	vishi44@gmail.com	SKITM, Indore
128	Vivek Pandey	vivekpandey.22@gmail.com	Mody University of Science and Technology,Laxmangarh, Sikar
129	Yogesh Kumar Yadav	yogeshyadav.jit@gmail.com	Jaipur Institute of Technology, Jaipur
130	Yogesh Mishra	yogeshmishranhr@gmail.com	Malaviya National Institute of Technology, Jaipur
131	Akshay Jain	akshay.jain@poornima.org	Poornima College of Engineering, Jaipur
132	Narender Panwar	narender.16k@gmail.com	VJTI, Mumbai
133	Piyush Sharma	piyush138090@gmail.com	MBM Ebgineering College, Jodhpur
134	Raj Kumar Satankar	rajkumar.satankar@poornima.org	Poornima College of Engineering, Jaipur
135	Suman Kant	writetosumankant@gmail.com	Punjab Engineering College, Chandigarh
136	Jayant Prohit	jkp.research01@gmail.com	Poornima College of Engineering, Jaipur
137	Surendra Kumar Saini	surendra.kumar@poornima.org	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

- **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

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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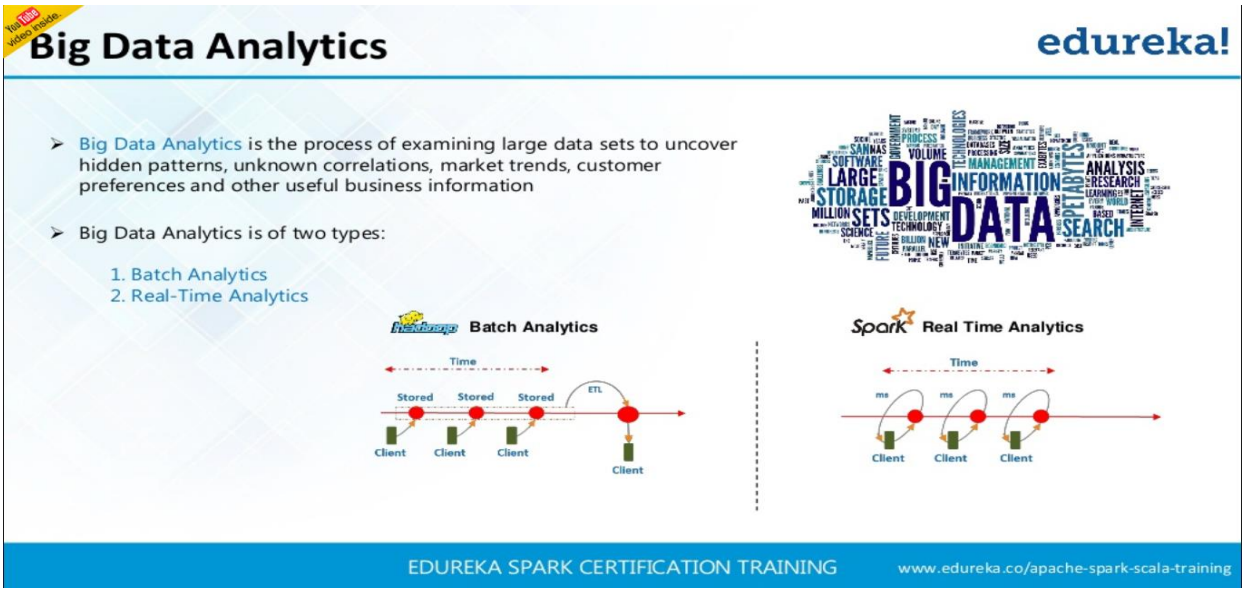
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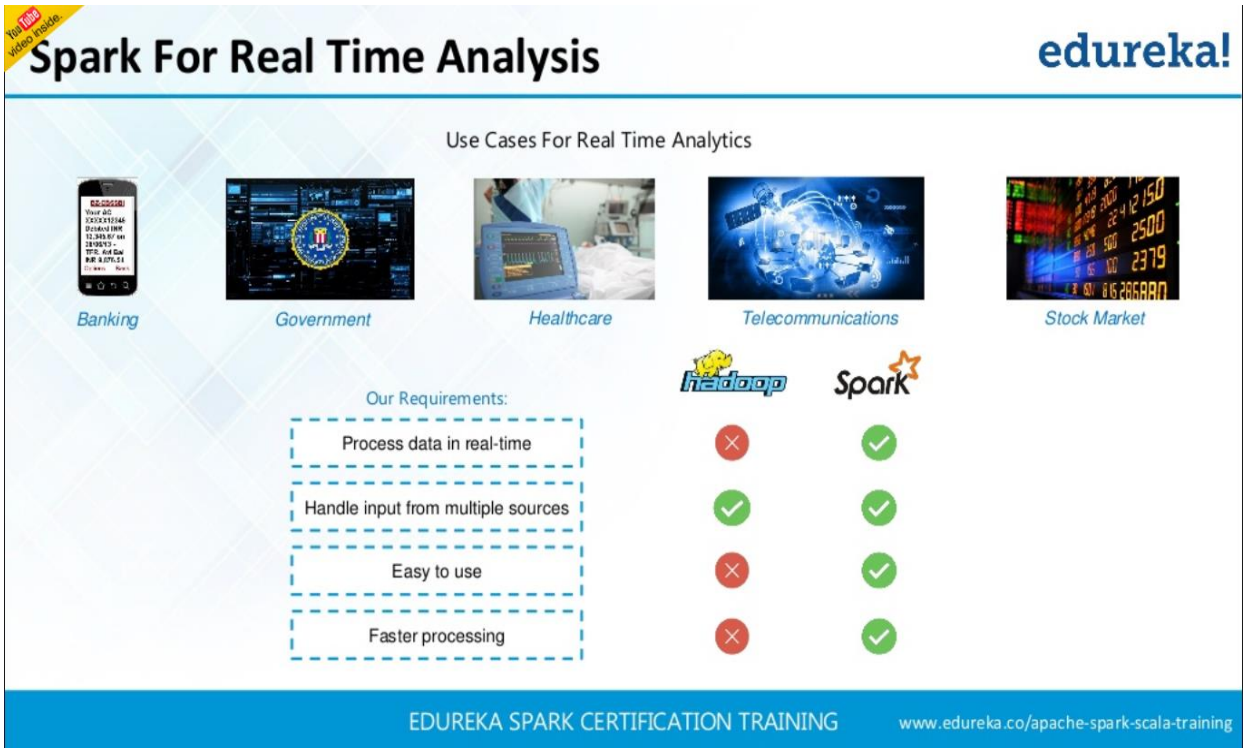
A Report on 5-days Faculty Development Program

- **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.

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:**





- **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

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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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

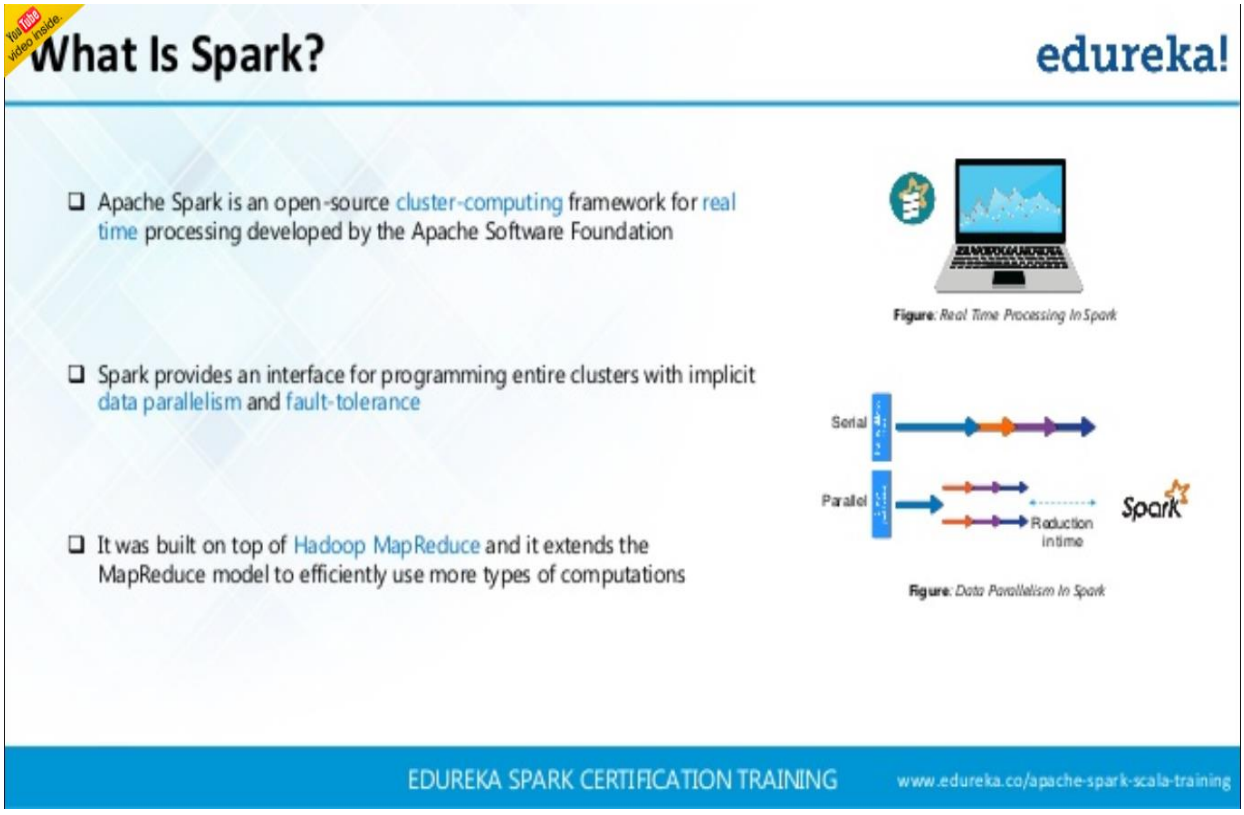
S. No	Activity
1.	Reporting and Registration of Delegates
2.	Welcome of Dignitaries by the anchors
3.	Request the dignitaries for lighting of lamp (Parallel Sarasvati Vandana) Introduction to Big Data Analytics (Prof. Mala Kalra)
4.	Data Analytics using Python (Er. Shano Solanki) Machine Learning Techniques for Big Data Analytics

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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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

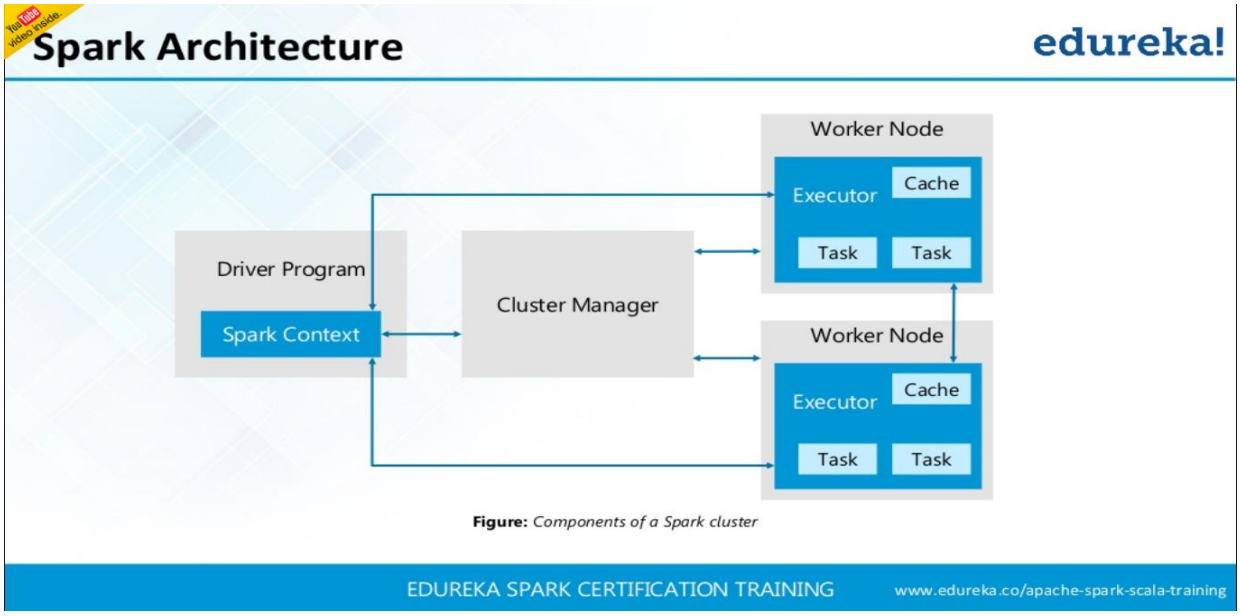
- **DETAILS OF RESOURCE PERSONS:**
  - Prof. Mala Kalra (Coordinator), NITTTR, Chandigarh
  - Er. Shano Solanki, Assistant Professor, NITTTR Chandigarh
  - Er. Amit Doegar, Assistant Professor, NITTTR Chandigarh
  - Er. Vipin Gupta, Sr. Consultant, U-Net Solutions, Moga
  - Dr. Gaurav Kumar, Director, Magma Research & Consultancy Pvt. Ltd., Ambala
  - Er. Shruti Wadhwa, CEO, Nidus Technologies, Chandigarh

- **GLIPMSES OF CONDUCTION:**

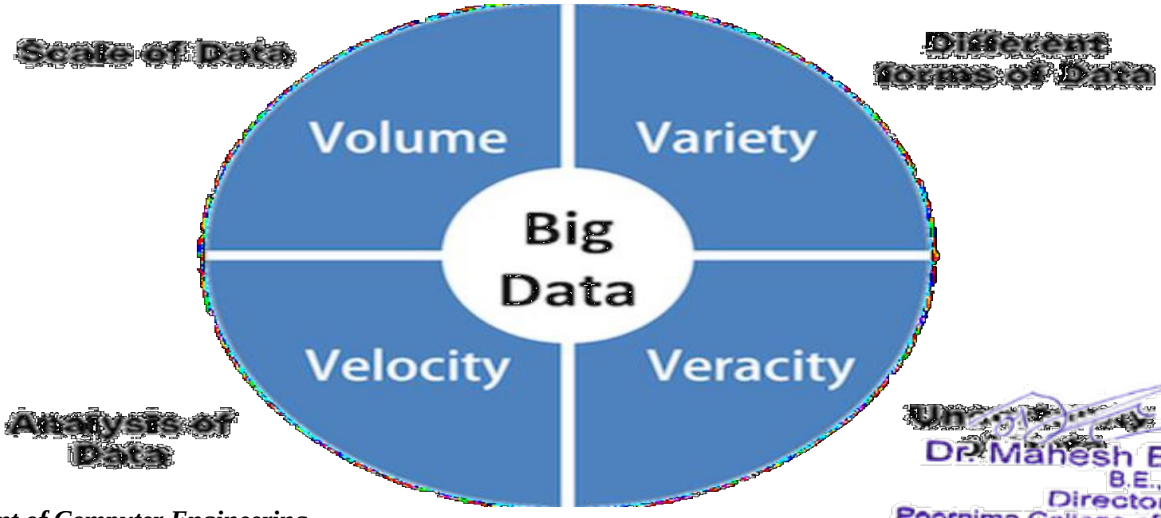


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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- **FACTORS OF BIG DATA:**



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

- **FOUR VS OF BIG DATA:**



- **APACHE HADOOP:**

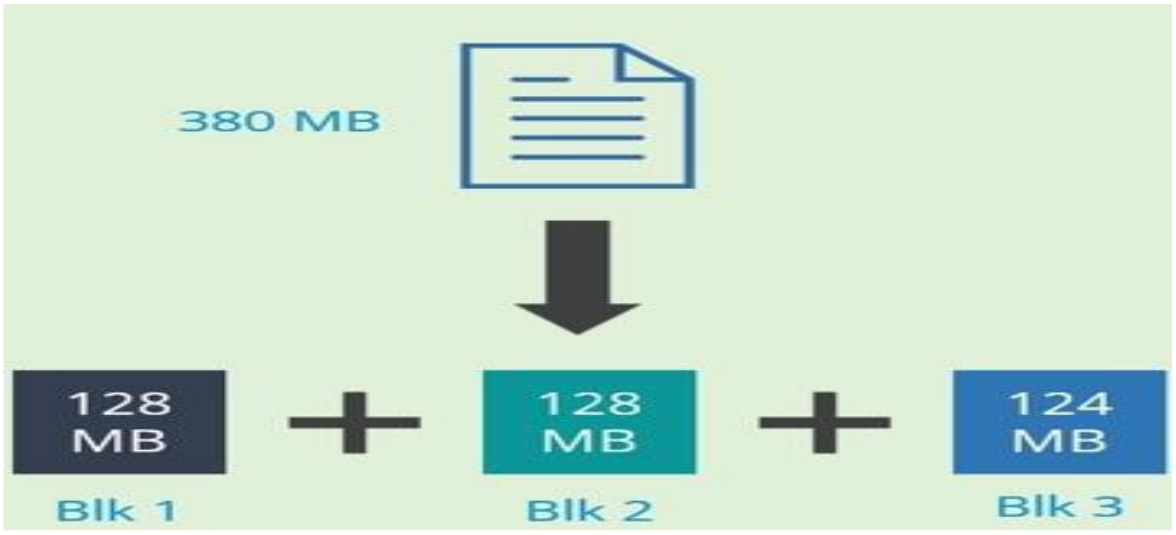


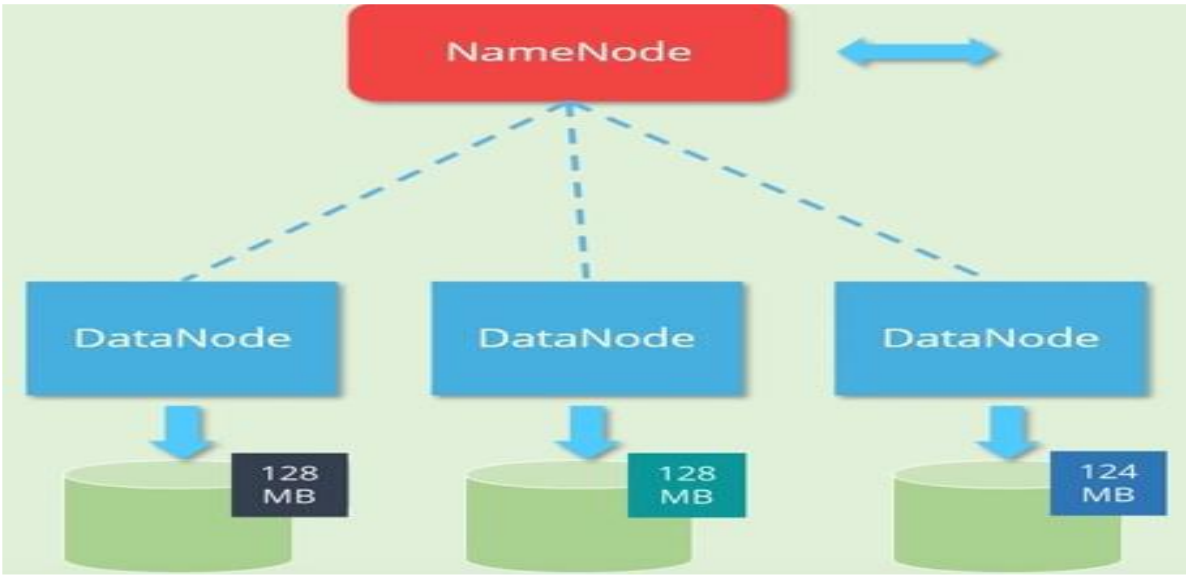


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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CONTENT DELIVERY / PRACTICAL SESSIONS:

- **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
```

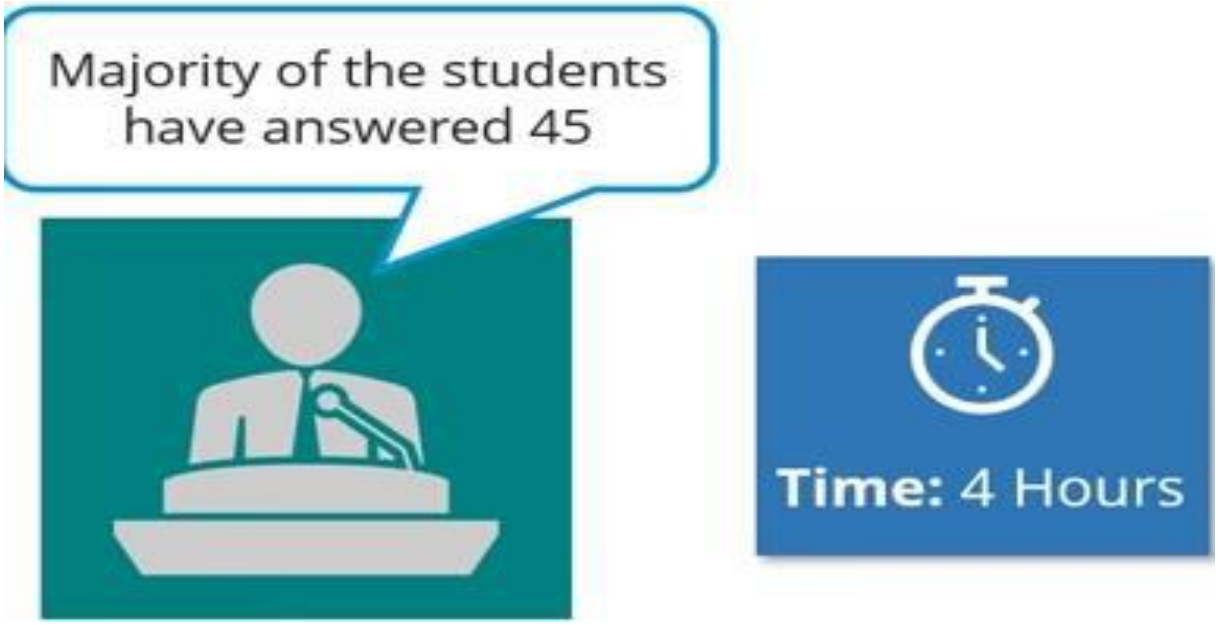
- **Remove file from HDFS:**

```
[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 ~]$
```

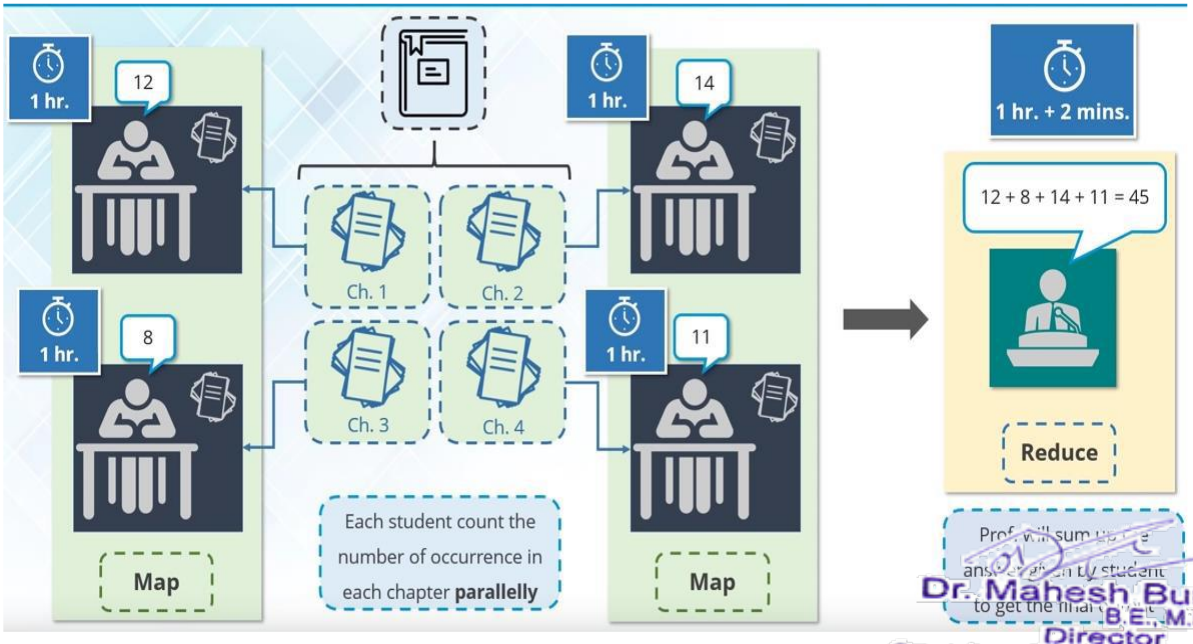
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B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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- **MAPREDUCE:**



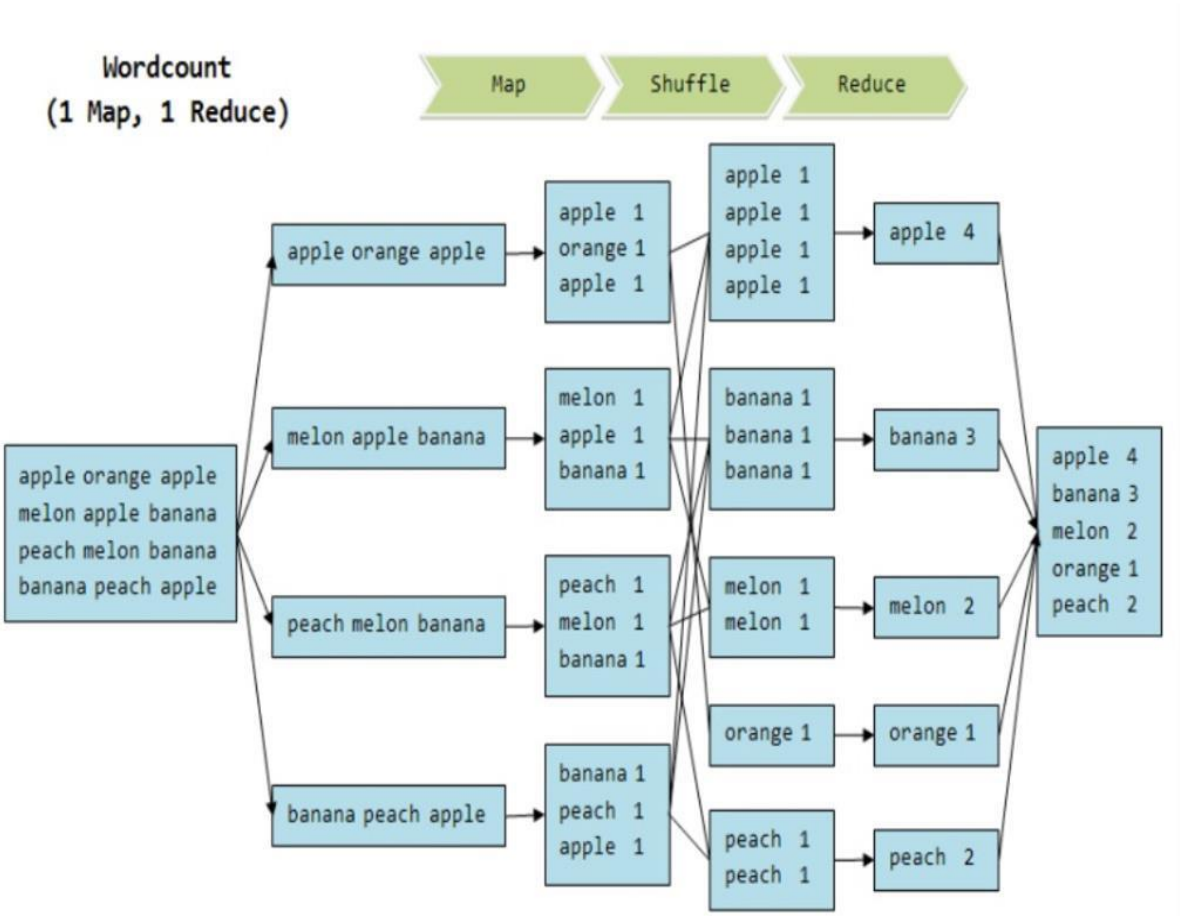


- **EFFECTIVE SOLUTION:**

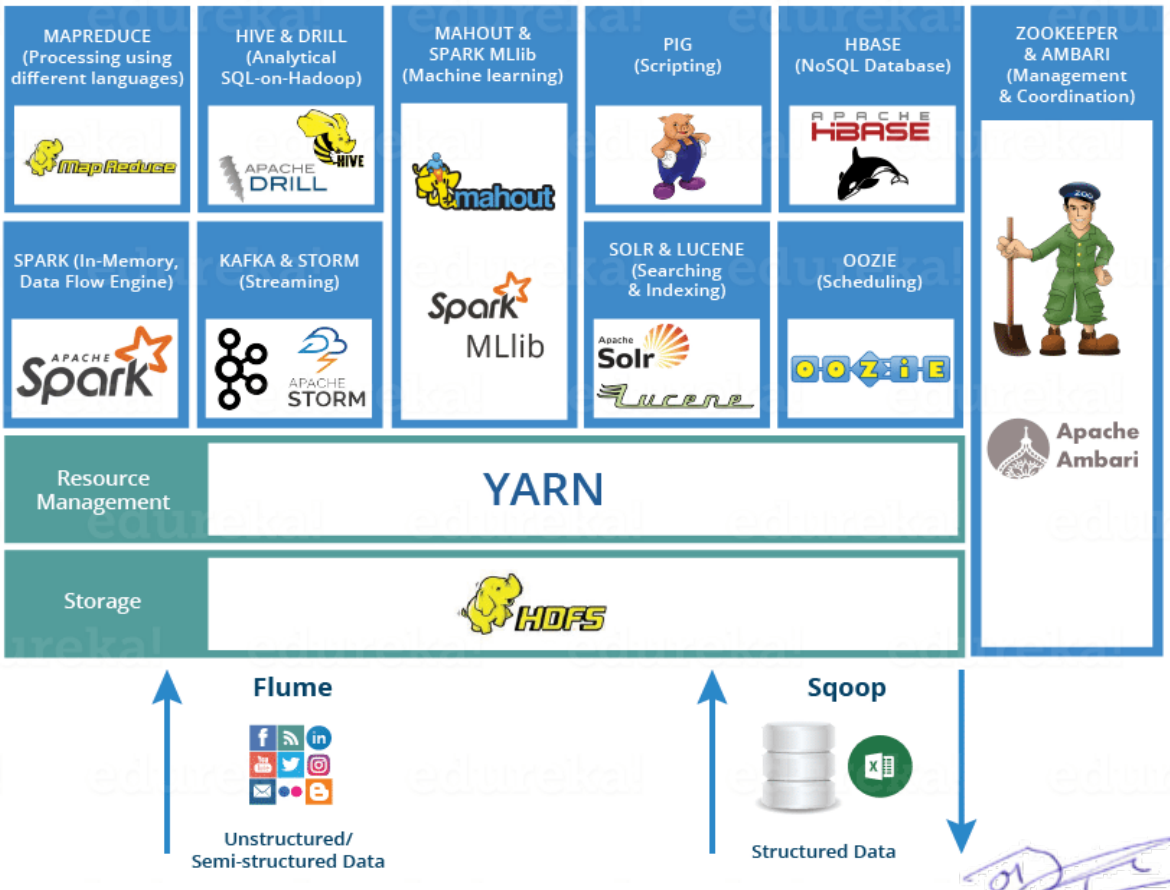


Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, JAIPUR

♦ MAP REDUCE WORD COUNT PROBLEM AND SOLUTION:



♦ HADOOP ECOSYSTEM:



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

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:

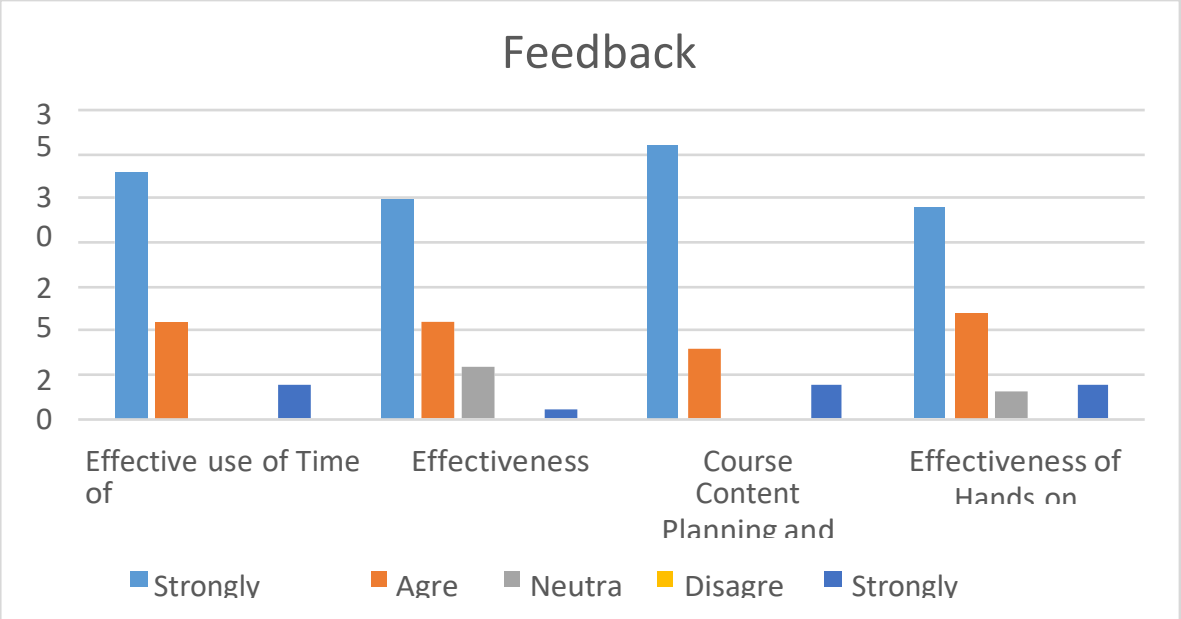
S. No.	Name	Organization
1	Mr. Satpal Singh	Manipal University Jaipur
2	Mr. Amit Kumar Jha	Poornima College Of Engineering, Jaipur
3	Mrs. Deepika Sharma	Manipal University Jaipur
4	Mr. Amit Kumar Jain	Poornima College Of Engineering, Jaipur
5	Mr. Manish Dubey	Poornima College Of Engineering, Jaipur
6	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

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

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



Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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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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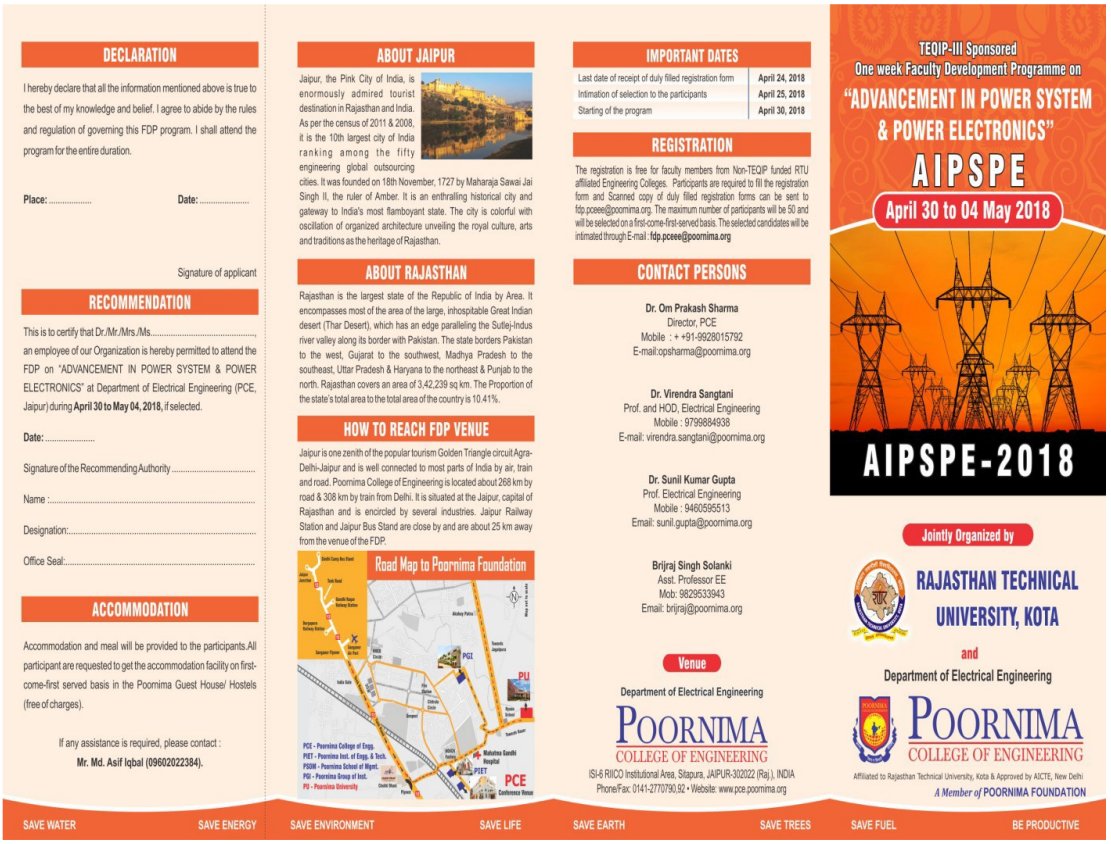
A Report on two week Short Term Training Program

- **TITLE AND DURATION:** "Advancement in Power system & Power Electronics" from 30 April to 04 May 2018.

- **SUPPORTERS:** TEQIP III

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

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



DECLARATION

I hereby declare that all the information mentioned above is true to the best of my knowledge and belief. I agree to abide by the rules and regulation of governing this FDP program. I shall attend the program for the entire duration.

Place: ..... Date: .....

Signature of applicant

RECOMMENDATION

This is to certify that Dr./Mr./Mrs./Ms..... an employee of our Organization is hereby permitted to attend the FDP on "ADVANCEMENT IN POWER SYSTEM & POWER ELECTRONICS" at Department of Electrical Engineering (PCE, Jaipur) during **April 30 to May 04, 2018,** if selected.

Date: .....

Signature of the Recommending Authority .....

Name :.....

Designation:.....

Office Seal:.....

ACCOMMODATION

Accommodation and meal will be provided to the participants.All participant are requested to get the accommodation facility on first-come-first served basis in the Poornima Guest House/ Hostels (free of charges).

If any assistance is required, please contact :
Mr. Md. Asif Iqbal (09602022384).

ABOUT JAIPUR

Jaipur, the Pink City of India, is enormously admired tourist destination in Rajasthan and India. As per the census of 2011 & 2008, it is the 10th largest city of India ranking among the fifty engineering global outsourcing cities. It was founded on 18th November, 1727 by Maharaja Sawai Jai Singh II, the ruler of Amber. It is an enthralling historical city and gateway to India's most flamboyant state. The city is colorful with oscillation of organized architecture unveiling the royal culture, arts and traditions as the heritage of Rajasthan.

ABOUT RAJASTHAN

Rajasthan is the largest state of the Republic of India by Area. It encompasses most of the area of the large, inhospitable Great Indian desert (Thar Desert), which has an edge paralleling the Sutlej-Indus river valley along its border with Pakistan. The state borders Pakistan to the west, Gujarat to the southwest, Madhya Pradesh to the southeast, Uttar Pradesh & Haryana to the northeast & Punjab to the north. Rajasthan covers an area of 3,42,239 sq km. The Proportion of the state's total area to the total area of the country is 10.41%.

HOW TO REACH FDP VENUE

Jaipur is one zenith of the popular tourism Golden Triangle circuit Agra-Delhi-Jaipur and is well connected to most parts of India by air, train and road. Poornima College of Engineering is located about 268 km by road & 308 km by train from Delhi. It is situated at the Jaipur, capital of Rajasthan and is encircled by several industries. Jaipur Railway Station and Jaipur Bus Stand are close by and are about 25 km away from the venue of the FDP.

Road Map to Poornima Foundation

PCE - Poornima College of Engg.
PIET - Poornima Inst. of Engg. & Tech.
PSOM - Poornima School of Mgmt.
PGI - Poornima Group of Inst.
PU - Poornima University

IMPORTANT DATES

Last date of receipt of duly filled registration form	April 24, 2018
Intimation of selection to the participants	April 25, 2018
Starting of the program	April 30, 2018

REGISTRATION

The registration is free for faculty members from Non-TEQIP funded RTU affiliated Engineering Colleges. Participants are required to fill the registration form and Scanned copy of duly filled registration forms can be sent to fdp.pceee@poornima.org. The maximum number of participants will be 50 and will be selected on a first-come-first-served basis. The selected candidates will be intimated through E-mail : **fdp.pceee@poornima.org**

CONTACT PERSONS

Dr. Om Prakash Sharma
Director, PCE
Mobile : + +91-9928015792
E-mail:opsharma@poornima.org

Dr. Virendra Sangtani
Prof. and HOD, Electrical Engineering
Mobile : 9799884938
E-mail: virendra.sangtani@poornima.org

Dr. Sunil Kumar Gupta
Prof. Electrical Engineering
Mobile : 9460595513
Email: sunil.gupta@poornima.org

Brijraj Singh Solanki
Asst. Professor EE
Mob: 9829533943
Email: brijraj@poornima.org

Venue

Department of Electrical Engineering
POORNIMA COLLEGE OF ENGINEERING
ISI-6 RIICO Institutional Area, Sitapura, JAIPUR-302022 (Raj.), INDIA
Phone/Fax: 0141-2770790,92 • Website: www.pce.poornima.org

TEQIP-III Sponsored
One week Faculty Development Programme on
"ADVANCEMENT IN POWER SYSTEM & POWER ELECTRONICS"
AIPSPE
April 30 to 04 May 2018
AIPSPE-2018

Jointly Organized by
RAJASTHAN TECHNICAL UNIVERSITY, KOTA
and
Department of Electrical Engineering
POORNIMA COLLEGE OF ENGINEERING
Affiliated to Rajasthan Technical University, Kota & Approved by AICTE, New Delhi
A Member of POORNIMA FOUNDATION

SAVE WATER SAVE ENERGY SAVE ENVIRONMENT SAVE LIFE SAVE EARTH SAVE TREES SAVE FUEL BE PRODUCTIVE

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

ABOUT THE STTP:

Department of Electrical Engineering, Poornima College of Engineer-ing, Jaipur is organizing a TEQIP-III Sponsored One week Faculty Development Programme On "ADVANCEMENT IN POWER SYSTEM & POWER ELECTRON-ICS" in association with Rajasthan Technical University, Kota from 30 April to 04 May 2018.

In this connection, we take this opportunity to invite your good-self and faculties to participate and make the RTU (ATU) TEQIP-III FDP on ADVANCEMENT IN POWER SYSTEM & POWER ELECTRON-ICS Successful.

The global energy crisis occasioned by the gradual increase in the world population, climate change, and the need for cleaner productions has generated much interest on renewable energy sources, including solar power (photovoltaic, thermal, and concentrated), wind power, hydropower, tidal power, wave power, geothermal, biofuels, biomass, and the renewable part of waste. The use of renewable energy sources helps to reduce air pollution and climate change, thanks to the production of fewer greenhouse gas emissions. Other benefits of renewable energy include a higher energy security, economic growth, and a movement away from the reliance on fossil fuels (oil and gas).

Renewable energy can be converted to electricity, which is transported to residential, commercial, industrial, and administrative buildings for use. Nowadays, approximately 20% of the globally produced electricity comes from renewable sources. This is the reason the renewable energy-based generation of electricity is currently experiencing rapid growth in power grids. Moreover, the increasing use of renewable sources has promoted the development of microgrids, smart grids, and distributed generation systems. For example, distributed generation, that is, small power generating units near end-users, allows for reducing the amount of electricity that must be generated at centralized power plants and transported using the power grid.

In parallel to the development of modern microprocessors and advanced control strategies, power electronic devices are essential for renewable energy systems. In particular, power electronics and controllers play an important role in renewable energy conversion, as it requires the use of power electronic converters to convert the electrical waveform generated by wind turbine generators, PV cells, and so on (direct current—DC), to that required by electric grids and loads (usually alternate current—AC), while ensuring the stability and power quality of the grid (frequency, voltage, power factor, harmonics, etc.). Furthermore, as renewable energy systems provide intermittent electricity, power electronic devices are also used to store the energy in batteries.

This Special Issue aims to receive high-quality submissions with significant technical contributions related to the emerging technologies, techniques, and applications of power electronics in renewable energy systems (RES). Topics of interest include, but are not limited to, the following:

- Advances in power electronic technologies and techniques for RES
- Advances in power electronic interfaces for RES

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
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- Power electronic converters (including inverters, rectifiers, cyclo-converters, etc.) in RES
- Power electronics and energy storage systems in RES
- Power electronics and power quality in RES
- Power electronics and distributed generation
- Power electronics in microgrids and smart grids
- Power electronics control (generator level, plant level, and transmission level)
- Optimization in power electronics with applications to RES
- Intelligent power electronics in RES

GLIMPSES OF THE EVENT:





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





Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
Poornima College of Engineering
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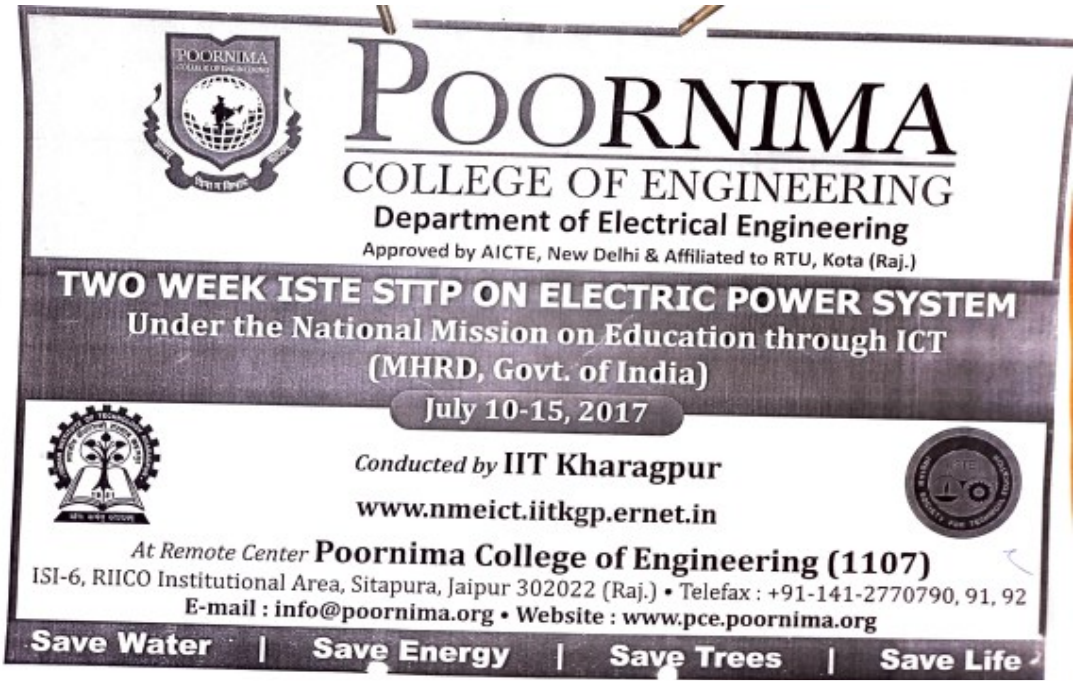
Dr. Mahesh Bundele
B.E., M.E., Ph.D.
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Poornima College of Engineering
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A Report on two week Short Term Training Program

- **TITLE AND DURATION:** "Electric Power System" from 10-15 July 2017.
- **SUPPORTERS:** National mission on Education through ICT (NMEICT)
- **ORGANIZERS:** Electrical Engineering Department, Poornima College of Engineering, Jaipur.
- **BROCHURE / POSTER / LEAFLET / FLYER:**



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

Teaching Faculty

Professor N K Kishore
Department of Electrical Engineering, IIT Kharagpur
email: kishor@ee.iitkgp.ernet.in

Professor Shreevardhan A Soman
Department of Electrical Engineering, IIT Bombay
email: soman@ee.iitb.ac.in

Professor Gautam Bandyopadhyay
Department of Electrical Engineering, IIEST Kolkata
email: gautamkabi@hotmail.com

Eligibility

1) He/ she must be a faculty member in the Department of Electrical Engineering /Electrical and Electronics Engineering with basic understanding of Electric Circuits, Signals and Systems, Electric Machines, Power Electronics, Power Systems, Energy Science and High Voltage Engineering related Departments and Centres.
2) B.E. / B. Tech. or equivalent degree holders in the above mentioned disciplines with minimum teaching experience of 2 years and moderate teaching experience in the area of Power and Energy Systems
3) M.E / M.Tech. degree holders in the above mentioned disciplines with minimum teaching experience of 1 year and moderate teaching experience in the area of Power and Energy Systems.
4) Ph.D. degree holders should have a minimum teaching experience of 1 year and moderate teaching experience in the area of Power and Energy Systems.

Who may benefit

The workshop is likely to benefit regular/visiting faculty colleagues who are teaching subjects like Electric Machines, Power Electronics, Power Systems, Energy Science and High Voltage Engineering etc.

Note

Please note that this ISTE STTP is conducted under the CEP IIT Kharagpur. Live recording of the course and other created contents will be released under Open Source through a portal. The recorded CD/DVD of the course lectures will be available for distribution, at cost, to any individual or institution. All participants are required to sign an undertaking for such release of contents contributed by them during and after the STTP. The recognition and citation will naturally be made for all contributors.

Course Fee

This ISTE STTP on Electric Power System is funded by the on Education through ICT (MHRD, Government of India), therefore there is no course fee for participation.

Accommodation and other Support for outstation Participants

Remote Centers are being funded to provide tea/lunch on each day of the workshop, and for accommodation, wherever available, for a limited number of outstation participants. **Travel expenses up to Rs. 1000/- one way and one-time will be reimbursed against proof of actual expenditure, for participants beyond a distance of 100 Km from the Remote Centre.**

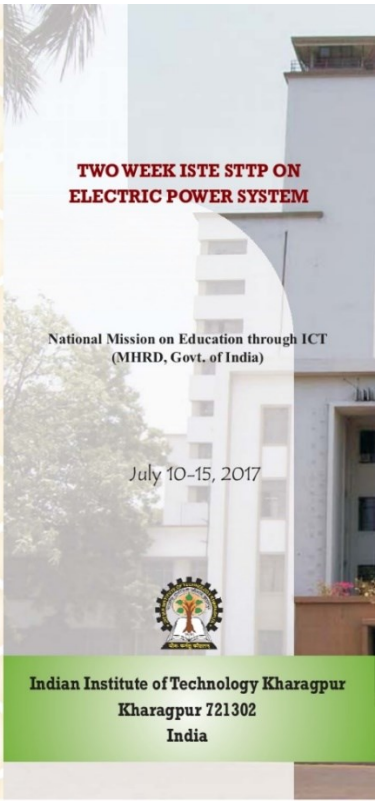
How to Apply

Those wishing to attend this course should register online http://www.nmeict.iitkgp.ernet.in/epsmain.php

Online registration open on 12th May, 2017

Address for Communication

Admin Team,
Project "T10KT", IIT Kharagpur
Vikramshila Building, Ground floor, Kalidas Auditorium
IIT Kharagpur, Kharagpur-721302
Contact Numbers:
Admin Team : +91 3222-281497
Account Team : +91 3222-281498
Moodle Team : +91 3222-281070
A-View Team : +91 3222-281072
Mobile : +91 8145226903
email: office_nmeict@iitkgp.ac.in



TWO WEEK ISTE STTP ON ELECTRIC POWER SYSTEM

National Mission on Education through ICT (MHRD, Govt. of India)

July 10-15, 2017

Indian Institute of Technology Kharagpur
Kharagpur 721302
India

Introduction

IIT Kharagpur and IIT Bombay are working together with Engineering Colleges of India to enhance the teaching skills of our faculty colleagues in core Engineering and Science subjects by conducting ISTE Short Term Training Programmes (STTPs) under Train Ten Thousand Teachers (T10KT) project using 353 established remote centers across India. Participating teachers attend live lectures at a remote center close to their own college, and also attend tutorial and lab sessions conducted in the same centers. The lecture transmission and live interaction takes place in distance mode using A-VIEW technology through Internet at the selected remote centers across the country. Since December 2009, a number of two-week ISTE STTPs were conducted on various Engineering subjects. We have reached out to more than 1,00,000 teachers and helped them to enhance their teaching skills in these subjects.

In order to run these STTP at selected remote centers, we invite expert faculty members from various remote centres to a five-day Coordinators' training programme held at IIT Kharagpur or at IIT Bombay, at least two months before the main STTP. The trained Coordinators then act as Workshop Coordinators during the main STTP liaising between the participants at their Remote Centers and IIT Kharagpur / IIT Bombay from where the interactive lectures are transmitted live. During the main STTP, the workshop Coordinator at every center supervises the tutorials and laboratories. All the lectures and tutorial sessions are recorded at IIT Kharagpur or at IIT Bombay. The final edited audio-visual contents, along with other course material are released under Open Source. The contents can be freely used later by all teachers, students and other learners.

In the backdrop of the success of these STTPs, we now announce another 6 day ISTE STTP on **"Electric Power System"** during July 10 – July 15, 2017 under Blended MOOCs (Massive Open Online Courses) model. Here,

1. The participating teachers will complete the equivalent of two-week full time work online, spread over 6 physical weeks where video lectures and assignments will be uploaded beforehand.
2. After completing the online assignments spread over 4 to 5 weeks the participants will assemble at the selected Remote Centers for 6 days face to face interaction and lecture sessions through A-VIEW and will complete team assignments, tutorials, quizzes etc.
3. Offline assignments will be uploaded and the participants will have to complete these assignments within a stipulated time.
4. There will also be a system of students' feedback in the Main STTP.

The above proposed model is tentative and subjected to minor changes

Course Justification

Electricity is the third most important commodity, next only to Air and water for survival of human beings. The course on Electric Power System is a very important course in an electrical engineering curriculum on all aspects of Electricity right from Generation to utilization. Every graduate in broad area of Electrical Engineering needs to have a detailed exposure to (a) Elements of Power System (b) Importance of Renewables and (c) Importance of ICT in reliable operation of Power System.

Course Overview

Electrical Power System is a core course for any undergraduate programme in Electrical Engineering. It is expected to be the first course on this topic and is typically meant for participants who already have some introductory knowledge of Electric Circuits, Electric Machines and Control Systems. The course shall cover the basic foundations of Power System Analysis. which can be used to assess effective Electric Power Delivery in practice. An awareness of available software tools for the purpose. Need for renewable energy resources will also be brought out. Participants are exposed to usefulness of employing ICT in developing smart grids. Through this course a participant is expected to be able to learn to properly identify as to what comprises an Electric Power System, examine its inherent complexity and explore different ways to develop an algorithmic solution by analyzing the various alternatives to finally develop a good practical solution that is supported by logical and theoretical justification.

Course Objective

Participants pursuing this course should be able to :

1. Identify as to what Comprises a Power System
2. Realize the need for Renewable Energy Sources for Electric Power Supply.
3. Become aware of usefulness of ICT in reliable operation of Electric Power System.
4. Be able to carry out all essential analyses necessary to have reliable operation of Electric Power System.

Course Modules

1. Introduction and Components of Power System
2. Steady State Operation of Power System
3. Power Flow Analysis
4. Symmetrical Components
5. Symmetrical Faults
6. Un-symmetrical Faults
7. Power System Stability
8. Economic Operation of Power System
9. Power System Protection
10. Application of Software for Power System Analysis
11. Recent Trends and Application of ICT in Power System Operation
12. Overview of a Laboratory Course on Power Systems
13. Control of Power Systems
14. Renewable Energy Issues

The learning begins by reading a good text book on the subject. This is to be followed by solving problems, including peers in a group learning effort. Discuss and interpret the results obtained. All the three are important to achieve success. In addition, it is important to be able to be aware of available softwares for the analysis. Practice some real life situations , execute them and compare their performances to check whether theoretical analysis confirms with experimentation. A text-book must be available for study. It is preferred to generally follow a single text-book. However, referring to other text-books at times to understand different topics may be preferred. While studying in a group, it is useful if individual members follow different books so that a variety of inputs are obtained. Web and video resources are good additional inputs. The steps include reading the chapters relevant, watching the video, discussing the concepts in a group and then solving a set of problems. The solutions to the problems solved by the group can be discussed together and one or more final versions may be accepted. Trying to check, other member's solutions are a very important aspect of learning any subject.

Duration and Venue

Duration : The duration of the STTP will be six working days. It will start on **Monday 10th July, 2017 at 9:30 AM** and will end on **Saturday 15th July, 2017**.The participants must report to the respective remote centres by 8:00 AM on 10th July, 2017.

Venue: 194 remote centers located in different parts of the country. The list of participating remote centers is given along with online application form.

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

S. No.	Program	Timings
1.	Registration of the participants	08:00 am to 08:10 am
2.	Welcome of Guests	08:10 am to 08:15 am
2.	Garlanding and Lamp Lighting of Maa Saraswati by Dr. Om Prakash Sharma, Campus Director, PCE Dr. Ajay Khunteta, Remote center coordinator. Dr.Virendra Sangtani, HOD, EE Mr. Brijraj Singh Solanki (Dy. HOD,EE) Md. Asif Iqbal (Dy. Admin, EE) Mr. Harbeer Singh	08:15 am to 08:20 am
3.	Welcome of Dr. Om Prakash Sharma, Director, PCE with a Bouquet by Dr. Ajay Khunteta, Remote center coordinator	08:20 am to 08:25 am
4.	Introduction of workshop schedule during 10th -15th July, 2017 by Vikash Kumar Saini, Workshop Coordinator.	08:25 am to 08:30 am
5.	Progress of ICT MHRD Program at PCE by Dr. Ajay Khunteta, Remote Center Coordinator	08:30 am to 08:35 am
6.	Words of Blessings by Dr. Om Prakash Sharma, Director, PCE	08:35 am to 08:45 am
7.	Vote of Thanks by Dr. Virendra Sangtani, HOD EE	08:45 am to 08:50 am
8.	Poornima gaan followed by National Anthem	08:50 am to 08:55 am
9.	Photo Session	08:55 am to 9:00 am
10.	Transmission of Remote Center program from IIT Kharagpur	09:00 am to 11:00 am
11.	Tea Break	11:00 am to 11:15 am

Dr. Mahesh Bundele
B.E., M.E., Ph.D.
Director
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Time Table for Two-Week ISTE STTP Electric Power System
10th July to 15th July 2017

Date	Days	Morning					Afternoon		
July 10, 2017	Monday	Inauguration 9.00AM to 9.30AM	Introduction (NKK/SAS/GB) 9.30AM to 11.00 AM	Tea Break 11.00 AM to 11.15 AM	Components of Power System (SAS) 11.15 AM to 12.45 PM	Lunch Break 12.45 PM to 1.45 PM	Steady State Operation of Power System I (GB) 1.45 PM to 3.15 PM	Tea Break 3.15 PM to 3.30 PM	Symmetrical Faults (GB) 3.30 PM to 5:00 PM
July 11, 2017	Tuesday	Power Flow Analysis (SAS) 9.30AM to 11:00AM			Symmetrical Components (GB) 11.15 AM to 12.45 PM		Un-symmetrical Faults (GB) 1.45 PM to 3.15 PM		Economic Operation of Power System (GB) 3.30 PM to 5.00 PM
July 12, 2017	Wednesday	Power System Stability I (SAS) 9.30AM to 11.00 AM			Power System Stability II (SAS) 11.15AM to 12.45PM		Power System Protection I (GB) 1.45 PM to 3.15 PM		Power System Protection II (GB) 3.30 PM to 5.00 PM
July 13, 2017	Thursday	Application of Software for Power System Analysis I (NKK) 9.30AM to 11.00AM			Application of Software for Power System Analysis II (NKK) 11.15AM to 12.45PM		Recent Trends (SAS/RN) 1.45 PM to 3.15 PM		Application of ICT in Power System Operation (SAS/RN) 3.30 PM to 5.00 PM
July 14, 2017	Friday	Overview of a Laboratory Course on Power Systems (NKK) 9.30AM to 11.00AM			QUIZ (NKK) 11.15AM to 12.45PM		Control of Power Systems I (SAS) 1.45 PM to 3.15 PM		Renewable Energy Issues (NKK) 3.30 PM to 5.00 PM
July 15, 2017	Saturday	Control of Power Systems II (NKK) 9.30AM to 11.00AM			SciLab (KMM) 11.15AM to 12.45PM		Feedback & Valedictory (2:00 PM to 5:00 PM)		

(NKK: Professor N K Kishore, SAS: Professor S A Soman, GB: Professor Gautam Bandyopadyay, RN: Mr. Narayanan R, KMM: Professor Kannan M Moudgalya)
Note: Every Lecture will include 15 Minutes Discussion at the End

ABOUT THE STTP:

Two-Week ISTE STTP on "ELECTRIC POWER SYSTEM" National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Kharagpur, 10th July – 15th July 2017

Sub: Invitation for the Inaugural Session of Two-Week ISTE STTP on "ELECTRIC POWER SYSTEM" National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Kharagpur

Respected Sir/Madam,

We are pleased to inform you that Department of Electrical Engineering, Poornima College of Engineering is organizing a Two-Week ISTE STTP on "ELECTRIC POWER SYSTEM" National Mission on Education through ICT (MHRD, Govt. of India) Conducted by IIT Kharagpur from 10th July – 15th July 2017.

It is expected to be the first course on this topic and is typically meant for participants who already have some introductory knowledge of Electric Circuits, Electric Machines and Control Systems. The course will cover the basic foundations of Power System Analysis. which can be used to assess effective Electric Power Delivery in practice. An awareness of available software tools for the purpose, need for renewable energy resources will also be brought out. Participants are exposed to usefulness of employing ICT in developing smart grids.

In this connection, we take this opportunity to invitation/request your gracious presence for the Inaugural Session of Two-Week ISTE STTP on "ELECTRIC POWER SYSTEM" National Mission on Education through ICT (MHRD, Govt. of India)

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

Venue: CG-07 QEEE Seminar Hall, Poornima College of Engineering ISI-6, Sitapura, Jaipur

Time: 8:00 am to 9:00 am

The enclosed Q-sheet, Time Table and Brochure will provide all necessary details about the STTP. In case any further information is required, kindly feel free to contact the undersigned.

Waiting for your positive response.

With best regards,

Dr. Om Prakash Sharma

Director, PCE

Mob. No.: +91-9928015792

Email: opsharma@poornima.org

Introduction

IIT kharagpur and IIT Bombay are working together with Engineering Colleges of India enhance the teaching skills of our faculty colleagues in core Engineering and Science subjects by conducting ISTE Short Term Training Programmes (STTPs) under Train Ten Thousand Teachers (TiOKT) project using 353 established remote centers across lndia. Participating teachers attend live lectures at a remote center close to their own
College, and also attend tutorial and lab sessions conducted in the same centers. T'he lecture transmission and live interaction takes place in distance mode using A-VIEW technology through Intenet at the selected remote centers across the country. Since December 2009, a number of two-week ISTE STTPs were conducted on various Engineering subjects. We have reached out to more than 1,00,000 teachers and helped them to enhance their teaching skills in these subjects. In order to run these STTP at selected remote centers, we invite expert faculty members from various remote centres to a five-day Coordinators' training programme held at IIT Kharagpur or at IT Bombay, at least two months before the main STTP. The trained Coordinators then act as Workshop Coordinators during the main STTP liaising between the participants at their Remote Centers and IIT Kharagpur/ IIT Bombay from where the interactive lectures are transmitted live. During the main STTP, the workshop Coordinator at every center supervises the tutorials and laboratories. All the lectures and tutorial sessions are recorded at IIT Kharagpur or at IIT Bombay. The final edited audio-visual contents, along with other course material are released under Open Source. The contents can be freely used later by all teachers, students and other learners.

In the backdrop of the success of these STTPs, we now announce another 6 day ISTE STTP on"Electric Power System" during July 10 July 15, 2017 under Blended MOOCs (Massive Open Online Courses) model. Here,
1. The participating teachers will complete the equivalent of two-week full time work online, spread over 6 physical weekS where video lectures and assignments will be uploaded beforehand.

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

2. After completing the online assignments spread over 4 to 5 weeks the participants will assemble at the selected Remote Centers for 6 days face to face interaction and lecture sessions through A-VIEW and will complete team assignments, tutorials, quizzes etc.
3. Offline assignments will be uploaded and the participants will have to complete these assignments within a stipulated time.

Course Justification-

proposed model is tentative and subjected to minor changes. ectricity is the third most important commodity, next only to Air and watc To va of human beings. The course on Electric Power System is a very important se in an electrical engineering curriculum on all aspects of Electricity right from eneration to utilization. Every graduate in broad area of Electrical Engineering needs o have a detailed exposure to (a) Elements of Power System (b) lmportance of newables and (c) Importance of ICTin reliable operation of Power System.

Course Overview

Eiectrical Power System is a core course for any undergraduate programme in Electrical Engineering. It is expected to be the first course on this topic and is typically meant for participants who already have some introductory knowledge of Electrie Circuits, Electric Machines and Control Systems. The course shall cover thebasic foundations of Power System Analysis,Which can be used to assess effective Electric Power Delivery in practice. An awareness of available software tools for the purpose. Need for renewable energy resources will also be brought out. Participants are exposed to usefulness of employing ICT in developing smart grids. Through this course a participant is expected to be able to learn to properly identify as to what comprises an Electric Power System, examine its inherent complexity and explore different ways to develop an algorithmic solution by analyzing the various alternatives to finally develop a good practical solution that is supported by logical and theoretical justification.

Course Objective

Participants pursuing this course should be able to:
1. Identify as to what Comprises a Power System
2. Realize the need for Renewable Energy Sources forElectric Power Supply.
3. Become aware of usefulness of ICT in reliable operation of Electric Power System.
4. Be able to carry out all essential analyses necessary to have reiable operation of Electric Power System.

Course Modules

1. Introduction and Components of Power System
2. Steady State Operation of Power System
3. Power FlowAnalysis
4. Symmetrical Components
5. Symmetrical Faults
6. Un-symmetrical Faults
7. Power System Stability
8. Economic Operation of Power System
9. Power System Protection
10. Apphication ofSoftware for Power SystemAnalysis

Dr. Mahesh Bundele
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11. Recent Trends and Application of ICT in Power System Operation
12. Overview of a Laboratory Course on Power Systems

- **GLIMPSES OF THE EVENT:**





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PARTICIPANT CERTIFICATE:

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

PCE/ADMIN/2016-17/3249 **24th May, 2017**

From,
Dr. Om Prakash Sharma
Director,
Poornima College of Engineering
Jaipur

To,
The Project Co-ordinator
Project "T10KT", IIT Kharagpur
Vikramshila Building,
Ground floor, Kalidas Auditorium
IIT Kharagpur, Kharagpur – 721302

Permission letter for Two Week ISTE STTP on Electric Power System

This is to certify that the following participants are regular teaching employees of our Institute with one of the following designation :- (Jr. Lecturer/ Lecturer/Sr. Lecturer/Asst. Professor/Associate Professor/ Professor/HOD/ Reader/Vice- Principal/Visiting Faculty/ Teaching Fellow).

S. No.	Name of Members	Designation	Department
1	Mr. Dinesh Kumar Sharma	Assistant Professor	Electrical Engineering
2	Mr. Gaurav Srivastava	Assistant Professor	Electrical Engineering
3	Ms. Dayana P.	Assistant Professor	Electrical Engineering
4	Mr. Harbeer Singh	Assistant Professor	Electrical Engineering
5	Mr. Khushaldeep Sharma	Assistant Professor	Electrical Engineering
6	Mr. Krishankant Katara	Assistant Professor	Electrical Engineering
7	Mr. Pravin Kumar	Assistant Professor	Electrical Engineering
8	Mr. Rajendra Singh	Assistant Professor	Electrical Engineering
9	Ms. Raksha Goyal	Assistant Professor	Electrical Engineering
10	Mr. Ravi Shankar Singh	Assistant Professor	Electrical Engineering

The faculty members are allowed to attend the workshop on Electric Power System under the National Mission on Education through ICT (MHRD, Govt. of India) from dated 10/07/2017 to 15/07/2017 in the Poornima College of Engineering, Jaipur (II07).
The Institute has no objection to his/ her participation in the workshop. We would make sure that **no official duties** will be delegated which may affect his/ her participation, during workshop.

Thank You,

24.05.17

Dr. Om Prakash Sharma
Director, PCE

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

- **LIST OF PARTICIPANTS:**

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

DEPARTMENT OF ELECTRICAL ENGINEERING
TWO-WEEK ISTE STTP ON ELECTRIC POWER SYSTEM
National Mission on Education through ICT (MHRD, Govt. of India)
ISTE STTP on Electric Power System

Attendance Sheet Format for Working Team Members

RC ID :1107

Sl No	Name	Designation	10.07.2017	11.07.2017	12.07.2017	13.07.2017	14.07.2017	15.07.2017
1	Dr.Ajay Khunteta	Remote Center Coordinator						
2	Mr. Vikash Kumar Saini	Workshop Coordinator						
3	Dr. Om Prakash Sharma	Teaching Assistant						
4	Mr.Dharmendra Kumar bansal	Teaching Assistant						
5	Ms. Shital R Shegokar	System Administrator						
6	Mr.Avinash Meena	System Administrator						
7	Mr.Shivraj Rajawat	A-VIEW Coordinator						
8	Mr. Mahendra Singh	Support staff, Helpers	Mahendra	Mahendra	Mahendra	Mahendra	Mahendra	Mahendra

Institute Head's Signature

15/7/17
Dr. Om Prakash Sharma
M.E., Ph.D
Director
Poornima College of Engineering
ISI-6, RIICO Institutional Area
Sitapura, Jaipur (Rajasthan)-302022

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

DEPARTMENT OF ELECTRICAL ENGINEERING
TWO-WEEK ISTE STTP ON ELECTRIC POWER SYSTEM
National Mission on Education through ICT (MHRD, Govt. of India)
ISTE STTP on Electric Power System

RC- ID 1107

Attendance sheet 1

Participant's ID	Name of the Participants	10/07/2017 (Day 1)				11/07/2017(Day 2)				12/07/2017 (Day 3)			
		Before Tea break 1	Before Lunch	After Lunch	After Tea Break 2	Before Tea break 1	Before Lunch	After Lunch	After Tea Break 2	Before Tea break 1	Before Lunch	After Lunch	After Tea Break 2
1253	Amba Lal Mathur												
2347	Amit Kumar Jain												
1254	Anil Pratap Singh												
819	Ankit Patel												
2635	Ankita Bhatia												
1258	Bhuwan Pratap Singh												
1855	Brajesh Kumar Goyal												
4673	Brijmohan Prajapat												
2352	ChainSukh Morodia												
1250	Dayana P												
2262	Deepika Chauhan												
1261	Devendra Singh												
227	Dharmendra Kumar Bansal												
4845	Dhaval Patel												
2259	Dinesh Kumar Sharma												
1587	Gaurav srivastava												
2354	Hanuman Kharol												
1266	Harbeer Singh												
1535	Kalyan Ranjan												
1268	Krishankant Katara												
1267	Kushaldeep Sharma												

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2326	Manish Sharma
1257	mohammad asif iqbal
2333	Murari Kumar
3629	Naveen Sharma
1263	Neeraj Tiwari
1275	Neha Nigam
1586	Nemichand Koli
1317	Nirban Chakarbarti
1937	Prabeit Bandyopadhyay
5635	Praveen Agrawal
1269	Pravin Kumar
1270	Rajendra singh
2077	Rajnish Saxena
1271	Raksha Goyal
4996	Ravishankar Kumar Sinha
1251	Richa A
1312	Samart Saha
2357	Shital R Shegokar
1320	Shubhajit Pal
1311	Sudip Halder
1273	Sumer Chand Prasad
228	Sweta Singh
5100	Tarang Jayswal
2338	Tarun Mishra
1274	Udit mamodiya
1264	Virendra Swaroop Sanglani
Signatures	Workshop Coordinator Mr. Vikash Kumar Saini
	Remote Centre Coordinator Dr. Ajay Khuteta

POORNIMA COLLEGE OF ENGINEERING, JAIPUR

DEPARTMENT OF ELECTRICAL ENGINEERING

TWO-WEEK ISTE STTP ON ELECTRIC POWER SYSTEM

National Mission on Education through ICT (MHRD, Govt. of India)

ISTE STTP on Electric Power System

RC- ID 1107

Attendance 2

Participant's ID	Name of the Participants	13/07/2017 (Day 4)				14/07/2017 (Day 5)				15/07/2017 (Day 6)			
		Before Tea break 1	Before Lunch	After Lunch	After Tea Break 2	Before Tea break 1	Before Lunch	After Lunch	After Tea Break 2	Before Tea break 1	Before Lunch	After Lunch	After Tea Break 2
1253	Amba Lal Mathur												
2347	Amit Kumar Jain												
1254	Anil Pratap Singh												
819	Ankit Patel												
2635	Ankita Bhatia												
1258	Bhuwan Pratap Singh												
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Signatures:	Workshop Coordinator : Mr. Vikash Kumar Soni												
	Remote Centre Coordinator : Dr. Ajay Khatela												

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