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A Report on 4-days Faculty Development Program

Flyer:



Dr. Mahesh Bundele
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Director
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Stlapura, JAIPUR

- **TITLE AND DURATION:** "Mobile Robotics & Internet of Things" from 16th − 19th September 2020.
- **SPONSORS:** TEQIP-III, Rajasthan Technical University Kota.
- **SUPPORTERS:** Rajasthan Technical University Kota.
- ORGANIZERS: Rajasthan Technical University, Kota, and Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.
 OBJECTIVES:

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

EXPECTED OUTCOMES:

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

To provide use—case demonstrations, and research oriented discussion along with theoretical concepts, which shall facilitate the understanding of process through practical implementation in area of Mobile Robotics & Internet of Things.

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BROCHURE / POSTER / LEAFLET / FLYER:



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ABOUT TEOIP-III

The Project, third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelfth Five-year Plan objectives for Technical Education as a key component for Improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States and support to strengthen few affiliated technical universities to Improve their policy, academic and management practices.

RAJASTHAN TECHNICAL UNIVERSITY

Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. Itwas established in 2006 by the Government of Rajasthan. The University currently affiliates about 129 Engineering Colleges, 4 BArch, 41 MCA Colleges, 95 MBA Colleges, 44 MTech. Colleges and 3 Hotel Management and Catering Institutes. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the country.

POORNIMA COLLEGE OF ENGINEERING

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 of impress 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 ALCTE, New Delhi
- The most preferred NBA Accredited Engineering College withrunning 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 ascentre of excellence by IBM

DEPT. OF ELECTRONICS & COMM. ENGINEERING

The Department of Electronics and Communication Engineering (ECE) was established in year 2003. National Board of Accreditation (NBA) accredited the ECE department in the year 2009 & 2016 for subsequent three years. It has intake capacity of 180. It also offers M. tech in VLSI Design with intake capacity of 18 students. The department has highly qualified committed and research oriented faculty members. The department has laboratories as per Rajasthan Technical University Syllabus with State-of-the-Art facilities in diversified fields such as Electronic Circuits, VLSI Design, DSP (Digital signal processing), Embedded Systems, Advanced Wireless Communication and Microwave etc. Research is being carried out in the areas of Antenna Design and Wireless Communication, and VLSI design. The department also has to his credit three labs, (1) Microwave Engineering lab & (ii) Advance Antenna & Wireless Communication lab (iii) Advancement of Wireless and Optical Fiber Lab supported by MODROBS Grants of AICTE, New Delhi.

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

ABOUT FACULTY DEVELOPMENT PROGRAM

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

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

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

TOPICS TO BE COVERED

- · 10T Introduction
- · WirelessTechnologies
- · Embedded Systems
- IOT Protocols
- Security Issues
- · IoT with Cloud Computing
- Sensor Networks
 Wireless Communication
- Mobile Robotics
 Ortical Communication



FDP COMMITTEE

CHIEF PATRON

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

PATRON

Dr. Mahesh M. Bundele

Principal & Director, Poornima College of Engineering

RTU (ATU) TEQIP-III COORDINATOR

Prof. (Dr.) Dhirendra Mathur

RTU EVENT COORDINATOR

Mr. Pankaj Kumar (RTU, Kota)

RTU (ATU) TEOIP-III COMMITTEE

Dr.HarishSharma Nodalofficer
Prof.D.K.Sambariya NodalOfficer Procurement
Dr.S.D.Purohit NodalOfficer Finance
Dr.Irum Alvi Conference
Mr.Santosh Sharma Expert Lecture
Mr.Anshul Bansal GATE &Induction
Mr.Dinesh Kumar Workshop

HOST INSTITUTE COORDINATORS

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

Dr. Mahesh Bundele
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PROGRAM SCHEDULE:

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				munuication Engin		
Faculty development Program on "Mobile Robotics and Internet of Things"						
	09:30 AM -10:00 AM	10:00 AM -11:30 AM	10:30 AM -11:45 AM	11:45 AM - 01:00 PM	01:00 PM - 02:00 PM	02:00 PM - 03:15 PM
Wednesday 16.09.2020	Inaugral Seesion	Dr. Sudhan Majhi (IIT Patna) "Intelligent receiver design for 5G and beyond wireless communication."		Dr. Balwinder Singh (NITTTR Chandigarh) 'Introduction to Arduino Hardware and software"		Dr. Divyang Rawal (LNMIIT, Jaipur) "Performance of NOMA in IOT network"
Thrusday 17.09.2020		Dr. Arka Prokash Mazumdar (MNIT Jaipur) "ICN for IoT".	cak	Dr. Debasis Das (IIT, Jodhpur) "Internet of Things(IoT) Security for Smart Cities"	3reak	Dr. Abhishek Sharma (LNMIIT, Jaipur) "Interne of Things: Transforming Digital World"
Friday 18.09.2020		Dr. Aneek Adhya (IIT Kharagpur) "Use of Passive Optical Networks in Internet of Things applications"	Tea Break	Dr.D. Narendar Singh (Anurag University, Hyderabad) " Introduction to the Internet of Things and Its Applications"	Lunch Break	Dr. Pankaj Goswami (TMU, Moradabad) "antenna utility for IoT applications"
Saturday 19.09.2020		Dr. Sumit Kalra (IIT,Jodhpur) "Software Architectural perspective of IoT Data Analytical Systems"		Dr. Debashish Pal (Principal Scientist, CEERI, PILANI) "mm Wave antennas for wireless communication"		Dr. Suman Kr. Dey (NIT Rourkela) "Emerging wireless optical technologies for IoT and 5G/6G"

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• INAUGURAL SESSION:



RAJASTHAN TECHNICAL UNIVERSITY, KOTA



Poornima College of Engineering TEQIP-III RTU (ATU) SPONSORED Faculty Development Program on Mobile Robotics and Internet of Things (September 16-19, 2020)

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

Venue: Online

Q-Sheet- Inaugural Session

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

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DETAILS OF RESOURCE PERSONS:

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

GLIMPSES OF CONDUCTION:

Day 1: 16th September 2020:

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

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Inaugural Session

Welcome address by Dr. Payal Bansal (Coordinator FDP)

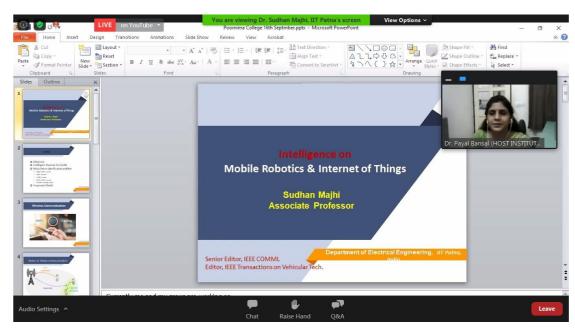




 $Motivational\ speech\ by\ Dr.\ Mahesh\ M\ Bundele\ (Director\ PCE)$

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



Vote of Thanks by Dr. Garima Mathur



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CONTENT DELIVERY / PRACTICAL SESSIONS:

Day 1: 16th September 2020:

Expert Talk-1

Topic: Intelligent receiver design for 5G and beyond wireless communication

Resource Person: Dr. Sudhan Majhi (IIT Patna)

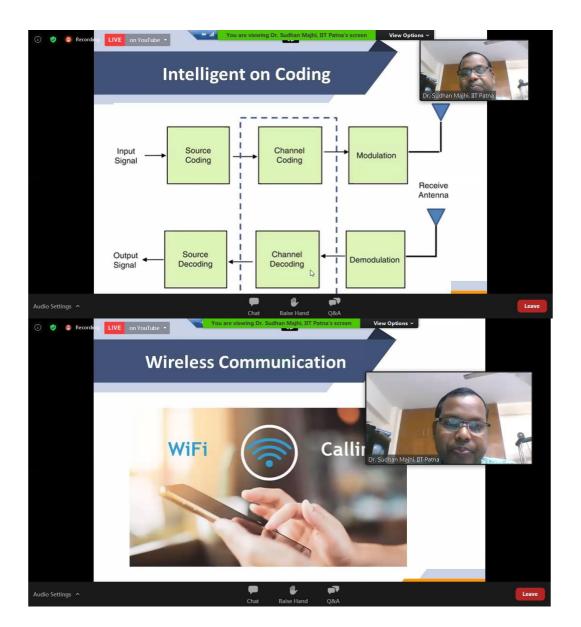
Venue: Online Via Zoom

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

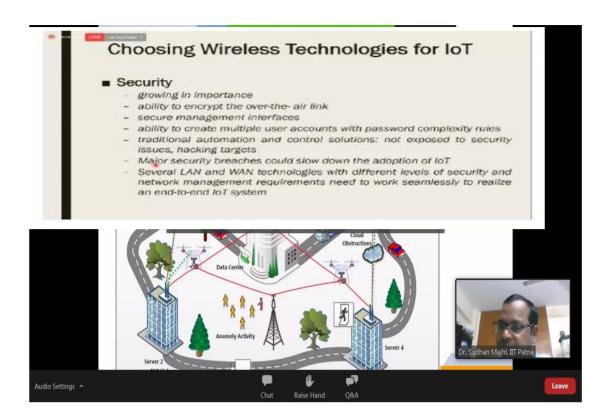


Session started by Dr. Sudhan Majhi

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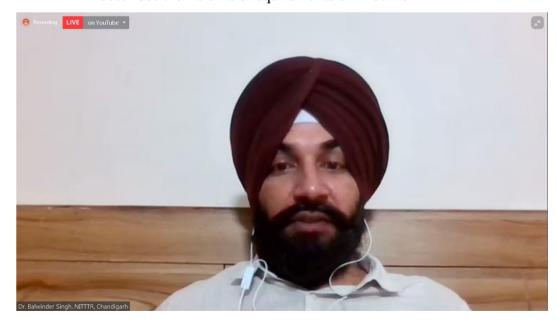


Topic: Introduction to Arduino Hardware and software

Resource Person: Dr. Balwinder Singh (NITTTR Chandigarh)

Venue: online

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



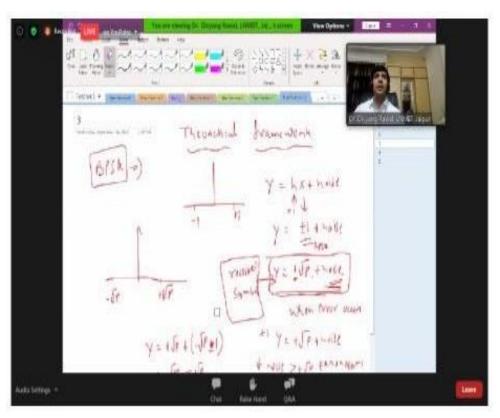
Dr. Balwinder Singh (NITTTR Chandigarh)

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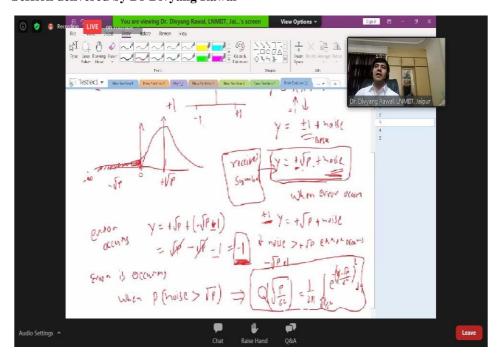
Topic: Performance of NOMA in IoT network

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

Venue: online



Session delivered by Dr Divyang Rawal



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Day 2: 17th September 2020:

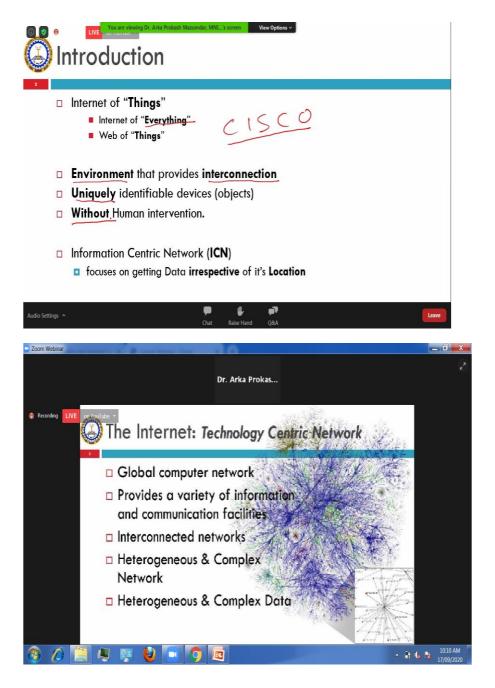
Expert Talk-3

Topic: ICN for IoT

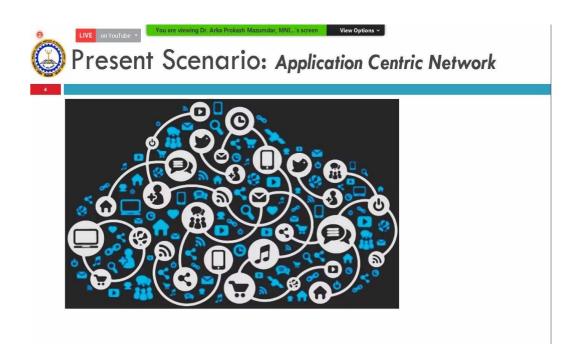
Resource Person: Dr. Arka Prokash Mazumdar (MNIT Jaipur)

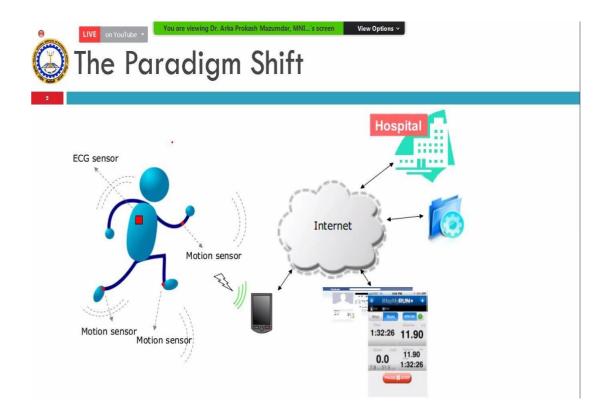
Venue: online

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



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Poornima College of Engineering - Activity Report - 2020-21

After Lunch valedictory session was held. Dr. Kota Soloman Raju. Chief Guest, Dr.

Mahesh M Bundele, Director, PCE, Jaipur, Mr. Pankaj Dhemla, Vice Principal, PCE,

Jaipur, Dr. Garima Mathur, Coordinator, PCE, participant, and faculty members attended

the session. It started with the felicitation of Chief Guest Dr. Kota Solomon Raju, by Dr.

Mahesh M Bundele, Principal & Director, PCE, Jaipur. A brief report on the workshop

was presented by Dr. Garima Mathur. Valuable feedback was taken from the participants.

The Certificate of participation was awarded to all the participants who successfully

completed the Program. Dr. Mahesh M Bundele congratulated the participants for taking

a keen interest in learning the new technologies in his address. He also appreciated the

organizing team. Dr. Kota Soloman Raju said that the active involvement of most

prominent speakers and delegates and their innovative ideas will create a stimulating

atmosphere for the further development of multi-disciplinary and convergent research in

the area of mobile network security and smart antenna. Dr. Anila Dhingra, Associate

Professor, ECE Deptt., PCE proposed the Vote of Thanks. At the end of the session, a

group photograph was taken with the Dignitaries including the participants.

Expert Talk-2

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

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

Venue: online

Dr. Debasis Das (IIT, Jodhpur) delievered his Talk on "Internet of Things (IoT) Security

for Smart Citie". Antennas for wireless communications are commonly developed in the

form of passive planar structures, which consist of a main radiating element, a supporting

ground plane, a supporting substrate, and a feeding structure. The design configurations,

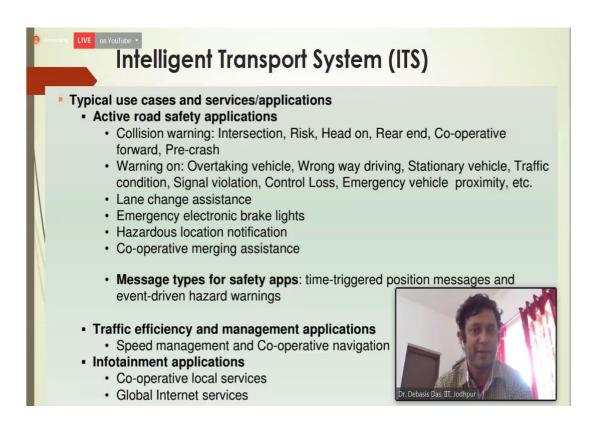
sizes and type of substrates will depend on the desired frequency of operation and its

radiation performances.





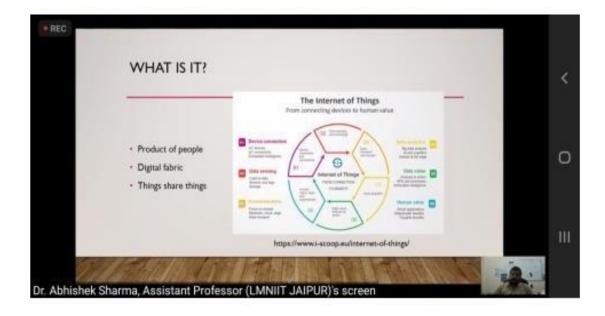
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Topic: Internet of Things: Transforming Digital World

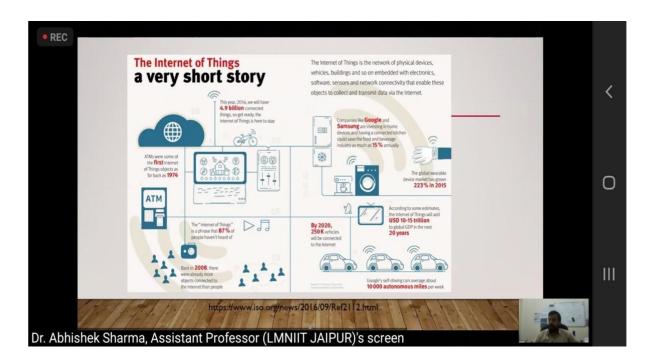
Resource Person: Dr. Abhishek Sharma (LNMIIT, Jaipur)

Venue: online



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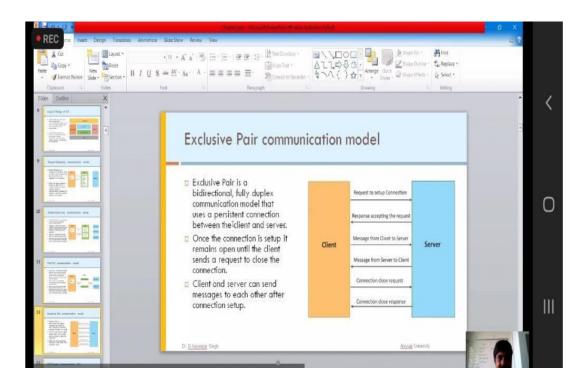
Day 3: 18th September 2020:

Expert Talk-1

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

Resource Person: Dr. Aneek Adhya (IIT Kharagpur)

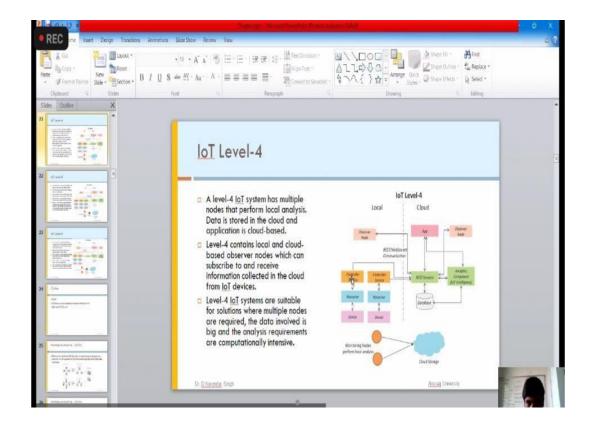
Venue: online Via Zoom



Session delivered by Dr. Aneek Upadhyay

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

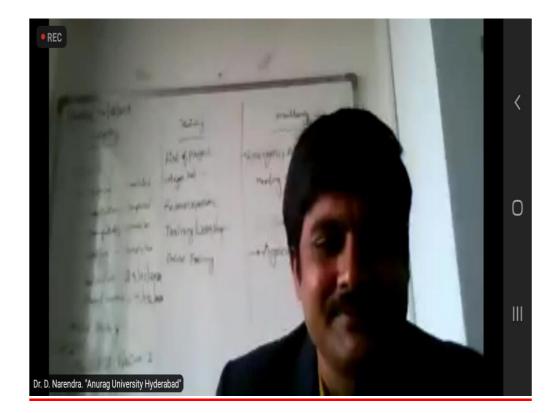


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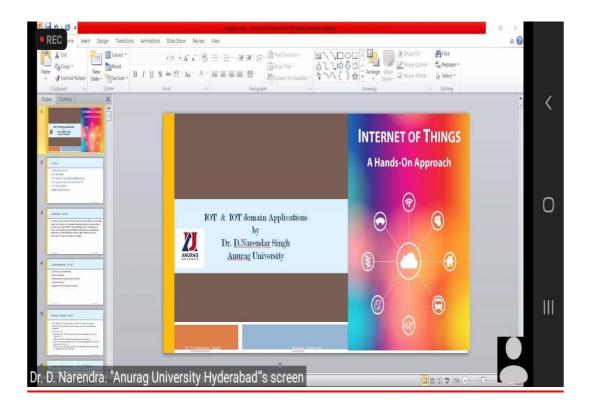
Topic: Introduction to the Internet of Things and Its Application

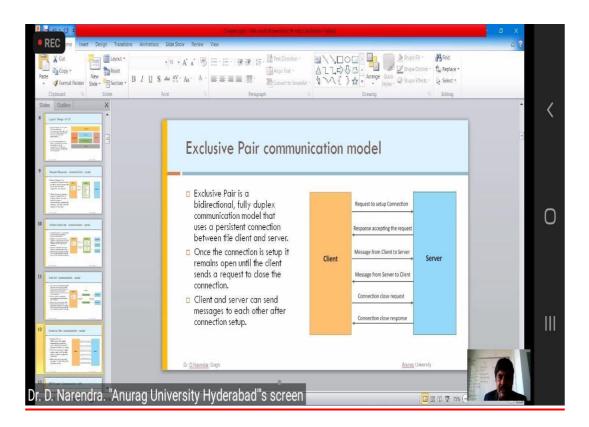
Resource Person: Dr. D. Narendar Singh (Anurag University, Hyderabad)

Venue: online Via Zoom



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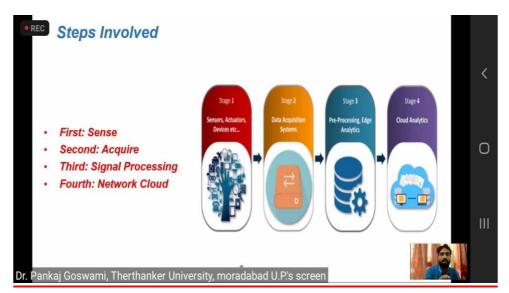
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Topic: Antenna utility for IoT application

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

Venue: online Via Zoom





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Day-4:- 19 September 2020

Expert Talk-1

Topic: Software Architectural perspective of IoT Data Analytical Systems

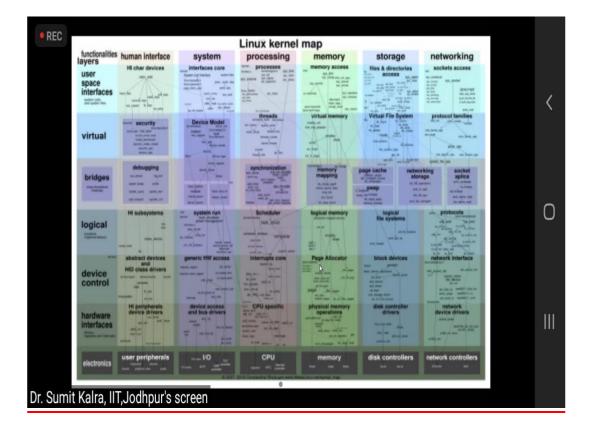
Resource Person: Dr. Sumit Kalra (IIT, Jodhpur)

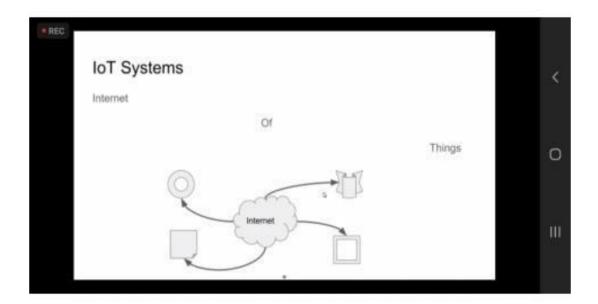
Venue: online Via Zoom



Session delivered by Dr. Sumit Kalra

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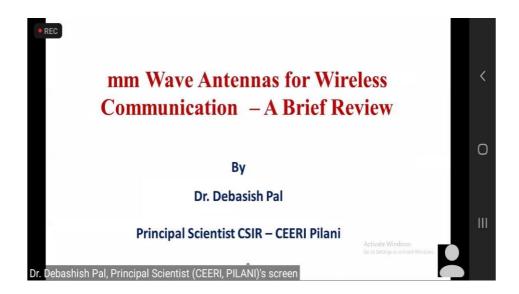


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Topic: mm Wave antennas for wireless communication

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

Venue: online Via Zoom



Session Delivered by Dr. Debashish Pal

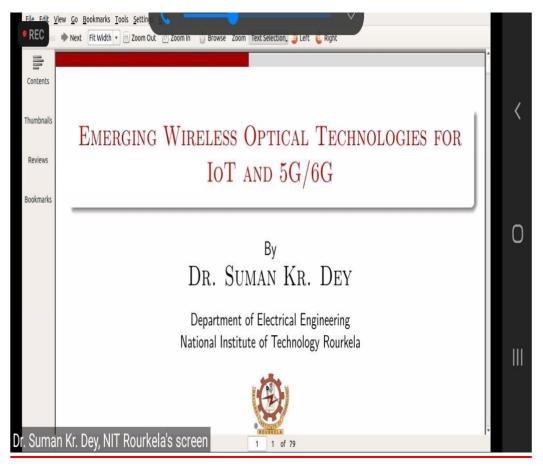


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Topic: Emerging wireless optical technologies for IoT and 5G/6G

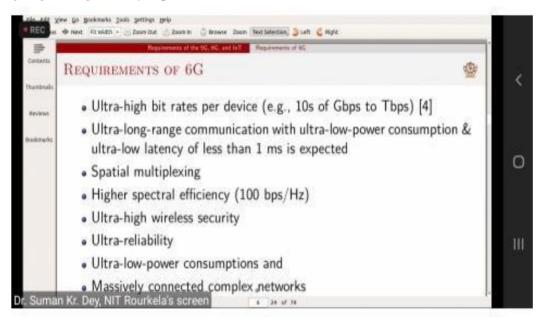
Resource Person: Dr. Suman Kr. Dey (NIT Rourkela)

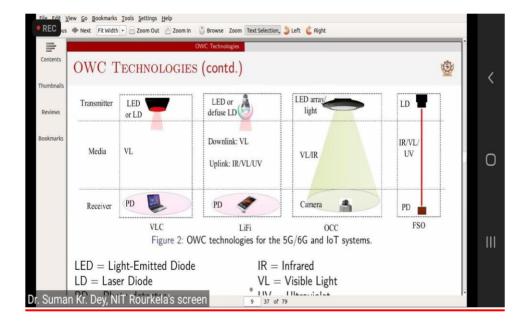
Venue: online Via Zoom



Session delivered by Dr. Suman Kr. Dey

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Poornima College of Engineering - Activity Report - 2020-21 Address by Dr. Mahesh M. Bundele





Report presented by Dr. Garima Mathur



Vote of Thanks by Dr. Payal Bansal

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Certification Distribution

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



LIST OF PARTICIPANTS:

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

22	MANISHA KUMAWAT	Poornima College of Engineering, Jaipur		
23		Poornima College of engineering		
24		Poornima College of Engineering, Jaipur		
25		Poornima college of engineering		
26		IEI Kolkata		
27		Synergy Institute of Engineering and Technology, Dhenkanal		
		Swami Keshvanand Institute of Technology, Management &		
28		Gramothan, Jaipur		
29		NPTI, NAGPUR		
30	RAHUL RATHI	Poornima College of Engineering		
31		Poornima College of Engineering		
32	RAJ KUMAR JAIN	Poornima college of engineering		
33	RAMESH CHAND MEENA	STPI, Ministry of Electronics and IT		
	RAVI PRAKASH	Rajasthan Technical University, Kota		
34	MEGHWANSHI			
35		UBS		
36		Rajasthan Technical University, Kota		
37	SAKSHI TIWARI	Arya college of engineering &IT		
38		Poornima college of engineering		
39		Jaipur National University		
40		Jaipur Engg College and Research Centre		
41		Rajasthan Technical University Kota		
42		Rajasthan technical Univercity		
43		Vidyasagar Metropolitan College		
		Regional College for Education, Research and Technology,		
44		Sitapura, Jaipur, Rajasthan		
45		Rajasthan Technical University Kota		
46		Ietr Soa Deemed To Be University, Odisha		
47		DRIEMS Autonomous Engineering College		
48	SUSHMA SHESHADRI	Mharaj Institute of technoplogy		
49		Poornima College of Engineering		
50	VINIT SHAH			
51		Rajasthan Technical University, Kota		
52		Research Scholar		
53		Shivam ITI Pvt. Ltd.		
54		M.B.M. Engineering College, Jodhpur		
55		Poornima College Of Engineering		
56	ASHISH VIJAY	Allen Carrier Institute		

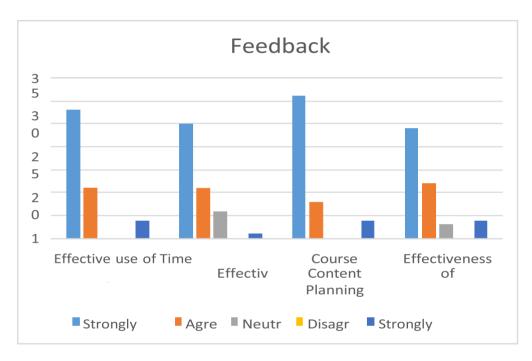
Online feedback

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

Dr. Mahesh Bundele
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FEEDBACK ANALYSIS:

	Effective use of Time	Effectiveness of Theoretical Session	Course Content Planning and Organization	Effectiveness of Hands-on Sessions
Strongly Agree	28	2 5	31	24
Agree	11	1 1	8	12
Neutral	0	6	0	3
Disagree	0	0	0	0
Strongly Disagree	4	1	4	4



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