TEQIP-III SPONSORED FACULTY DEVELOPMENT PROGRAM ON

"EMERGING TOOLS AND TECHNIQUES IN COMMUNICATION SYSTEMS (ETTCS-2020)"

SEPTEMBER 14-18, 2020

Organized by

Rajasthan Technical University, Kota

&

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

SKIT

असतो मा सद्गमय

Host Institute

Department of Electronics & Communication Engineering

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur-302017

www.skit.ac.in

A
Report
on
Five Days
Faculty Development Program
Emerging Tools and Techniques in Communication Systems
ETTCS-2020
14th – 18th September 2020
Sponsored by TEQIP III

RTU Event Coordinator:

Dr. D.K Sambariya

Host Institute Coordinators:

Prof. Mukesh Arora
Dr. Monika Mathur
Mr. Harshal Nigam
Ms. Manju Choudhary

Organized By

Rajasthan Technical University, Kota
&
Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur

Host Institute

Department of Electronics and Communication Engineering
Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur

Approval Letter

Notice

No. RTU/TEQIP-II/F(56)/2020-21/4892-97 **Date: 05/08/20**

Hon'ble Vice-Chancellor is pleased to approve the FDP program to be conducted in online mode at the affiliated college under subhead 1.2.2.4 of RTU (ATU) TEQIP-III Action plan as per the mentioned Schedule.

RAJASTHAN TECHNICAL UNIVERSITY
Rawatbhata Road, Akelgarh, Kota-324 010
TEQIP III-RTU(ATU) OFFICE
Phone: 0744-247 3960 Fax: 247 3962 Email: rtuteqip@rtu.ac.in

No. RTU/TEQIP III/F(56)/2019-20/ 5181-91 DATE: 12/8/20

OFFICE ORDER

Hon'ble Vice Chancellor is pleased to approve following faculty development programme to be conducted at the affiliated engineering colleges under subhead 1.2.2.4 of RTU (ATU) TEQIP-III Action plan as per the mentioned schedule.

S.No.	Name of Institute	Dates	Title of the FDP	RTU Co-ordinator
1	SKIT Jaipur	14/09/20 to 18/09/20	Emerging Tools and Techniques in Communication system	Dr. D.K. Sambariya
2	SKIT Jaipur	21/09/20 to 27/09/20	Application of Mathematical Science in Engg. And Technology	Dr. S.D. Purohit and Dr. Kamlesh Jangid
3	Geetanjali Institute of Technical Studies Udaipur	21/09/20 to 25/09/20	Advances in Nature Inspired Algorithms	Dr Harish Sharma
4	Poornima College of Engineering, Jaipur	28/09/20 to 30/09/20	Latest Mathematics in Sanskrit Context	Dr Kamesh Jangid & Dr. S.D. Purohit

The respective institute has to conduct the mentioned program as per the TEQIP-III norms under direction of RTU event coordinator.

Coordinator
TEQIP III, RTU (ATU)

Copy to:-

1. P.S. to Hon'ble Vice Chancellor
2. Registrar
3. Comptroller
4. Dean FA
5. Head, HEAS Dept./Head, CS Dept.
6. Concerned RTU Event Coordinator
7. Principals of Host Institutes through official Email
8. Guard File

Coordinator
TEQIP III, RTU (ATU)

Objective of ETTCS-2020

The emergence of a variety of new technologies such as fast and inexpensive hardware for processing of data/ information had a significant impact on implementation of communication systems. This program has been organized to fully explore the recent technologies used in communication systems.

The objectives of this FDP include:

- To introduce recent trends in Communication technologies
- Establish basic concepts about the recent technologies in Communications along with their tools and techniques
- To provide a platform for interaction among academicians and our experts to discuss new technologies, developments, challenges and research activities in the field of communication

The aim of this course is to provide an in-depth exposure to the faculty members and research scholars to different communication systems and the techniques to implement the system

FDP Program

- The program is split into various lectures.
- Assignment for enhanced learning.
- Interaction and learning with experts from academia.
- Certificate to the participants by TEQIP III and RTU Kota.

Content of the FDP

Recent Advances in Antennas

Recent Trends in Microstrip Antennas

Internet of Things

Renewable Energy

LTCC and e-grain technologies for communication systems: An overview

Non Linear Optical Phenomena

Artificial Intelligence and Deep Learning

Modelling of Systems

Advancement in RF and Microwave systems

Design of Reconfigurable Antennas for Ultra-Wideband applications

Wireless Body Area Network (WBAN) Antennas: Concept, Design and Challenges

How to do VLSI design using open source tools

Emerging trends in Nano Technology

Digitally Assisted Multi-Octave Filter-less Transmitter

Plasmonic based optical sensing technique

Expert Details

1. **Dr. Ananjan Basu**

   Professor
   Indian Institute of Technology, Delhi
   Email id: Ananjan.Basu@care.iitd.ac.in

2. **Dr. Mithilesh Kumar**

   Professor
   Electronics Engineering, Rajasthan Technical University, Kota
   Email id: mith_kr@yahoo.com

3. **Dr Kalpana Dhaka**

   Assistant Professor
   Department of Electronics and Electrical Engineering
   Indian Institute of Technology, Guwahati
   Email id: kalpana.dhaka@iitg.ac.in

4. **Dr. Ujjwal Kalla**

   Associate Professor
   MANIT Bhopal
   Email id: ukkalla@gmail.com

5. **Dr. Satish Kumar Bhatnagar**

   Emeritus Scientist (CSIR)
   Professor and Director (Research)
   SKIT Jaipur
   Email id: satish.bhatnagar@skit.ac.in

6. **Dr. Manish Tiwari**

   Professor and Head
   Department of Electronics and Communication Engineering
   Manipal University Jaipur
   Email id: manish.tiwari@jaipur.manipal.edu

7. **Dr. Kuldeep Singh**

   Assistant Professor
   MNIT Jaipur
   Email id: kuldeep.ece@mnit.ac.in

8. **Dr. Rajesh Kumar**

Professor, Electrical Engineering Department
MNIT Jaipur
Email id: rkumar.ee@mnit.ac.in

9. **Dr. Gaurav Mittal**

Scientist D, DEAL
DRDO, Dehradun
Email id: gaurav.mittal@deal.drdo.in

10. **Dr. Dinesh Yadav**

Assistant Professor, Department of Electronics and Communication Engineering
Manipal University, Jaipur
Email Id:dinesh.yadav@jaipur.manipal.edu

11. **Dr. Raghvendra Singh**

Associate Professor, Department of Electronics and Communication
Pranveer Singh Institute of Technology, Kanpur
Email Id: raghvendra.singh@psit.ac.in

12. **Dr. Nandakumar Nambath**

Assistant Professor, Electrical Engineering Department
Indian Institute of Technology, Goa
Email Id: npnandakumar@iitgoa.ac.in

13. **Dr. Pallavi Kohli**

Former Assistant Director
AICTE, New Delhi
Email Id: Pallaveekarya@gmail.com

14. **Dr. Hemant Kumar Singhal**

Assistant Professor, Dept. of Electronics Engineering,
NIT, Uttarakhand
Email Id: hksinghal@nituk.ac.in

15. **Dr. Rukhsar Zafar**

Associate Professor, Dept. of Electronics and Communication Engineering,
SKIT Jaipur
Email Id: rzafar@skit.ac.in

Event Coordinator

Dr. D.K Sambariya

(RTU Event Coordinator)

Associate Professor

Department of Electrical Engineering

Rajasthan Technical University, Kota

Host Institute Co-Ordinator Details

1. **Dr. Mukesh Arora**
   Professor and Head

   Department of Electronics and Communication Engineering

   Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

   Email id: hodece@skit.ac.in

   Phone no: 9829630099

2. **Dr. Monika Mathur**
   Associate Professor

   Department of Electronics and Communication Engineering

   Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

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   Phone no: 9460265776

3. **Mr. Harshal Nigam**
   Assistant Professor

   Department of Electronics and Communication Engineering

   Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

   Email id: hrshlnigam@gmail.com

   Phone no: 9460005284

4. **Ms. Manju Choudhary**
   Assistant Professor

   Department of Electronics and Communication Engineering

   Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur

   Email id: manjuchoudharymec@gmail.com

   Phone no: 9694724109

Resource Person

The Various sessions of the FDP preceded by the experts from IITs, NITs and other reputed institutes.

Registration Fee

There is No Registration Fee.

Targeted Audience

Faculty of various engineering institutes affiliated to Rajasthan Technical University, Bikaner Technical University and other academic institutions.

FDP Schedule

RAJASTHAN TECHNICAL UNIVERSITY, KOTA

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN, JAIPUR

TEQIP-III RTU (ATU) SPONSORED

Five days Faculty Development Programme

on

"Emerging Tools and Techniques in Communication Systems"

(14/09/2020 to 18/09/2020)

VENUE: SKIT M& G, Jaipur

Tentative Program

Date	Session-I 10:00 AM-11:30 AM	Session-II 11:40 AM -1:10 PM	Session-II 2:30 PM -4:00 PM
14-Sep-20	Online Inauguration (09:30 AM -10:00 AM) Advancement in communication systems **Expert: Prof. Ananjan Basu, IIT Delhi**	Recent Trends in Microstrip Antennas **Expert: Dr. Mithilesh Kumar, Professor, Electronics Engineering, Rajasthan Technical University, Kota**	Internet of Things **Expert: Dr Kalpana Dhaka, Assistant Professor, Department of Electronics and Electrical Engineering, IIT Guwahati**
15-Sep-20	Renewable Energy **Expert: Dr. Ujjwal Kalla, Associate Professor, NIT Bhopal**	LTCC Technology for Photonic Microsystems: An overview **Expert: Prof. S. K Bhatnagar, Emeritus Scientist (CSIR) Director (Research), SKIT Jaipur**	Non Linear Optical Phenomena **Expert: Dr. Manish Tiwari, Professor and Head, Department of Electronics and Communication Engineering, Manipal University Jaipur**
16-Sep-20	Artificial Intelligence and Deep Learning **Expert: Dr. Kuldeep Singh, Assistant Professor, MNIT Jaipur**	Modelling of Systems **Expert: Dr. Rajesh Kumar Professor, Electrical Engineering Department, MNIT Jaipur**	RF antenna and advancement in Microwave systems **Expert: Dr. Gaurav Mittal, Scientist D, DEAL, DRDO, Dehradun**
17-Sep-20	Design of Reconfigurable Antennas for Ultra-Wideband applications **Expert: Dr. Dinesh Yadav, Assistant Professor, Department of Electronics and Communication Engineering, Manipal University, Jaipur**	Wireless Body Area Network (WBAN) Antennas: Concept, Design and Challenges **Expert: Dr. Raghvendra Singh, Associate Professor, Department of Electronics and Communication, Pranveer Singh Institute of Technology, Kanpur**	How to do VLSI design using open source tools **Expert: Dr. Nandakumar Nambnath, Assistant Professor, Electrical Engineering Department, IIT Goa**
18-Sep-20	Emerging trends in Nano Technology **Expert: Ms. Pallavi Kohali Former Assistant Director, AICTE, New Delhi**	Digitally Assisted Multi-Octave Filter-less Transmitter **Expert: Mr. Hemant Kumar Singhal, Assistant Professor, Dept. of Electronics Engineering, NIT, Uttarakhand**	Plasmonic based optical sensing technique **Expert: Dr. Rukhsar Zafar, Associate Professor, Dept. of Electronics and Communication Engineering, SKIT Jaipur** Feedback and Valedictory (4:00 PM - 4:30 PM)

Note: Break from 1:10 PM to 2:30 PM

Dr. D K Sambariya
RTU Coordinator

Prof. Mukesh Arora
Dr. Monika Mathur
Mr. Harshal Nigam
Ms. Manju Choudhary
Host Institute Coordinator

Head of Institute
PRINCIPAL
Swami Keshvanand Institute of Technology, Management & Gramothan
Ramnagaria (Jagatpura), JAIPUR-302017

List of Participants

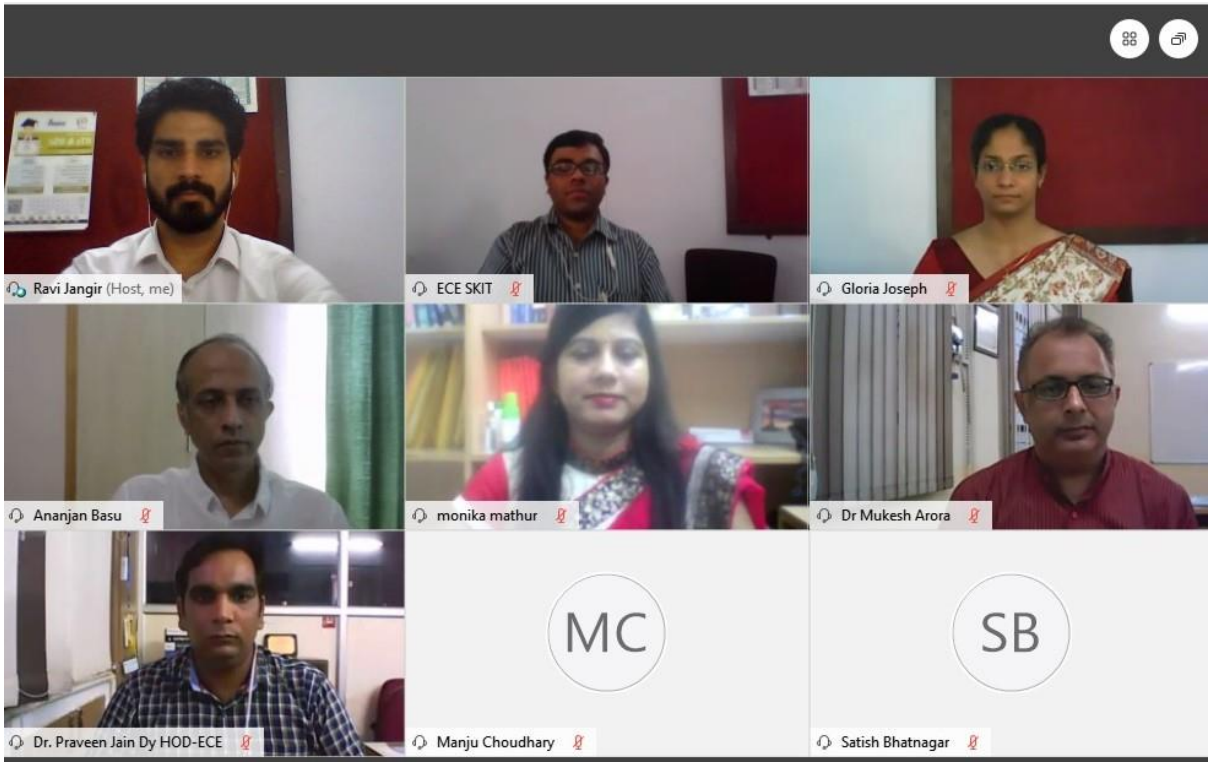
S.N	Salute	Name	Designation	Institute
1	Mr.	Abdul Naim Khan	Ph.D. Research Scholar	The LNM Institute of Information Technology
2	Mr.	Abhinandan Jain	Assistant Professor	SKIT,Jaipur
3	Mr.	Abhishek gupta	Student	SKIT jaipur
4	Mr.	Abhishek singh	Assistant Professor	PSIT
5	Mr.	Ajmeet Singh	Assistant professor	Poornima College of Engineering
6	Mr.	Ankit Agarwal	Assistant Professor	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
7	Mr.	Ankur Gangwar	Asst. Prof.	JECRC
8	Mr.	Anshul Khairwa	Research Scholar	VIT Vellore
9	Dr.	Anurag Sharma	Associate Professor	Swami keshavanand institute of technology management and gramothan Jagatpura Jaipur
10	Ms.	Archana Jain	PG Student	SKITMG Jaipur
11	Mr.	Arun Kumar G Hiremath	Assistant professor	Bapuji Institute of Engineering and Technology, Davangere
12	Mr.	Ashutosh sharma	Assistant professor	Jaipur Engineering college and Research centre
13	Prof.	Ayesha Taranum	Asst Prof	GSSSIETW
14	Mr.	Balakrishna S Maddodi	Asso Professor	Manipal Institute of Technology
15	Ms.	BHARTI	Research Scholar	Thapar Institute of Engineering & Technology, Patiala
16	Mr.	Birendra Kr Pandey	Research scholar	SKIT
17	Dr.	Brijendra Gupta	Associate professor	Siddhant college of engineering
18	Mr.	Deepak Mathur	Astr Professor	KITE, JAIPUR
19	Mr.	Dhananjaya M K	Assistant professor	Rrit
20	Mr.	DHARAMDEEP RANDEV	Professional	INSTITUTE OF MASS COMMUNICATION AND MEDIA TECHNOLOGY
21	Ms.	DIVYASHREE H S	Assistant Professor	Brindavan College of Engineering
22	Dr.	R. M. Sawant	Professor and Head of the Department	P.E.S. College of Engineering,
23	Ms.	GARGI N	Assistant Professor	KSSEM
24	Ms.	Gayatri Kansotia	Lecturer	Govt. R. C. Khaitan Polytechnic College, Jaipur
25	Mr.	Gerard Deepak	Research Scholar	National Institute of Technology, Tiruchirappalli
26	Ms.	Hemlata Panwar	Assistant Professor	Anand International College of Engineering
27	Mr.	Hemraj Kumawat	Assistant Prof.	SBNITM
28	Mr.	HRISH KUMAR SHARMA	Lecture	JECRC
29	Prof.	Husna Tabassum	Assistant Professor	HKBK College of Engineering, Bangalore
30	Ms.	J Deepika Roselind	Teaching Fellow	College of Engineering - Anna University
31	Ms.	Jagadamba A	Assistant Professor	Vemana Institute of Technology
32	Mr.	Jayprakash Vijay	Associate Professor	SKIT
33	Prof.	Krishna Chandra Roy	Professor	Kautilya Institute of Technology and Engineering
34	Mr.	Lalit kumar lata	Assistant professor	Skit jaipur
35	Ms.	Mamta Jain	Associate Professor	SKIT

36	Mr.	Manoj Kumar sain	JRF	LNMIIT
37	Mr.	MOHAMMED ZIAULLA	Assistant Professor	K. N. S INSTITUTE OF TECHNOLOGY Bangalore
38	Ms.	Namrata Joshi	Assistant professor	SKIT
39	Mr.	Naresh Kumar	Assistant professor	JAIPUR ENGINEERING COLLEGE & RESEARCH CENTER
40	Prof.	Nazneen Taj	Asst. Prof.	KNSIT
41	Mr.	Neeraj Garg	Assistant Professor	SKIT Jaipur Rajasthan
42	Mr.	NEERAJ JAIN	Assistant professor	Skit, jaipur
43	Ms.	Nidhi sinha	Research scholar	MNIT, JAIPUR
44	Ms.	PADMAVATHI H G	Associate Professor	Brindavan College of Engineering
45	Mr.	Pallav Rawal	Associate Professor	SKIT
46	Mr.	PAWAN KUMAR YOGI	Assistant professor	Arya College of Engineering and Information Technology
47	Ms.	Pooja Choudhary	Assistant Professor	SKIT M &G, Jaipur
48	Mr.	Pramod Saini	Assistant Professor-II	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
49	Mr.	PRAVEEN SRIVASTAVA	Technical Assistant	PRANVEER SINGH INSTITUTE OF TECHNOLOGY, KANPUR
50	Mr.	Pravin Kumar Sharma	ASSISTANT PROFESSOR	JECRC
51	Ms.	Priti Kashiram Ghuge	AP	P. E. S. College of engineering
52	Ms.	Priya Chaudhary	Assistant professor	Arya institute of engineering and technology
53	Ms.	Priyanka Sharma	Assistant professor	SKIT
54	Mr.	PUSHPENDRA MEENA	PG Student	Swami Keshvanand Institute of Technology, Management & Gramothan ,Jaipur
55	Dr.	RAGHAVENDRA PATIDAR	Professor	GLOBAL INSTITUTE OF TECHNOLOGY, JAIPUR
56	Mr.	Rahul Pandey	Assistant Professor	SKIT Jaipur
57	Mr.	RAJ YADAV	ASSTT PROFESSOR	Kautilya Institute of Technology & Engineering
58	Mr.	Rajesh Kumar Bairwa	Laboratory Technician	Anand International College of Engineering, Kanota, Jaipur
59	Ms.	Rajni Idiwal	Assistant professor	Skit, Jaipur
60	Mr.	Rakesh Kumar Kardam	Assistant professor	Jecrc, jaipur
61	Ms.	Rashmi D	Student	Dr ambedkar institute for technology
62	Mr.	Ravi Jangir	Assistant Professor	Swami Keshvanand Institute of Technology, Management and Gramothan
63	Mr.	Ravindra Sulebhavi	Asst.Professor	KLEMSSCET
64	Dr.	Reshma Banu	Associate Prpfessor	GSSSIETW
65	Ms.	Richa Sharma	Assistant professor	SKIT College
66	Ms.	Rishika Sharma	Assistant Professor	Iilm-ahl, jaipur
67	Dr.	RITA DEWANJEE	Associate professor and head	MATS SCHOOL OF INFORMATION TECHNOLOGY
68	Ms.	Ronak Dadhich	Assistant Professor	Presidency University
69	Ms.	RUCHITA MATHUR	Asstt. professor	Lachoo Memorial college of sc& technology ,jodhpur
70	Ms.	S.JAJITHABANU	RESEARCH SCHOLAR	NATIONAL INSTITUTE OF TECHNOLOGY
71	Mr.	Sakar Gupta	Assistant professor	Poornima College of engineering
72	Mr.	Sandeep Kumar Toshniwal	Associate Professor	Kautilya Institute
73	Prof.	Sanjay C. Kathar	Asst.Prof.	P.E.S. College Of Engineering.

74	Mr.	Sanjay Kumar Tehariya	Assistant professor	UJJAIN ENGINEERING COLLEGE UJJAIN
75	Mr.	Satish Kumar Alaria	Assistant Professor	Arya Institute of Engineering and Technology
76	Mr.	SAURABH SINGH	Assistant Professor	SKIT JAIPUR
77	Dr.	Shirly Edward A	Associate professor	SRM Institute of science and technology
78	Dr.	SHRUTI KALRA	Associate Professor	JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER JAIPUR
79	Dr.	Shubhi Jain	Assistant professor	Skit College
80	Dr.	Snehlata Barde	Associate Professor	MATS University Raipur
81	Ms.	Suman Sharma	Assistant professor	SKIT, JAIPUR
82	Prof.	SUPRITHA N	Assistant professor	East West institute of technology
83	Mr.	SURENDRA SINGH DUA	Assistant professor	GLOBAL INSTITUTE OF TECHNOLOGY
84	Mr.	Sushant Khedgikar	Dean - Academics	P. E. S. College of Engineering
85	Dr.	Swati Arora	Associate professor	Swami Keshvanand institute of technology
86	Prof.	Swetha KB	Assistant professor	RRIT
87	Dr.	TAMILARASAN S	Associate Professor	Brindavan College of Engineering
88	Ms.	Telaprolu Lalitha	Head of section	S.V.Government polytechnic
89	Mr.	Thangamma K C	Assistant professor	GSSSIETW
90	Mr.	Utkarsh pandey	Assistant professor	PSIT Kanpur
91	Mr.	Veerashetti S. Chavan	Selection Grade Lecturer	A.P.S.Polytechnic, Somanahalli, Bengaluru
92	Mr.	Vikas Pathak	Associate Professor	SKIT, Jaipur
93	Mr.	VIKRAM SINGH BHATI	Assistant Professor	ARYA COLLEGE OF EBGINEERING & I.T
94	Mr.	Vinay Kumar B C	Assistant Professor	Sri Krishna Institute of Technology
95	Mr.	VINAY KUMAR SHARMA	Research scholar	UCE RTU
96	Ms.	Vipra bohara	Assistant professor	Yit
97	Dr.	Vipulsangram Kadam	Associate Professor	P.E.S College of Engineering Aurangabad Maharashtra
98	Mr.	VIVEK BHOJAK	Head	Anand International College of Engineering, Jaipur
99	Dr.	Vivek Kumar Jain	Assistant Professor	Seth G. B. Podar College
100	Ms.	Yashika Saini	Assistant Professor	AIET

Event Photographs

1. Inauguration



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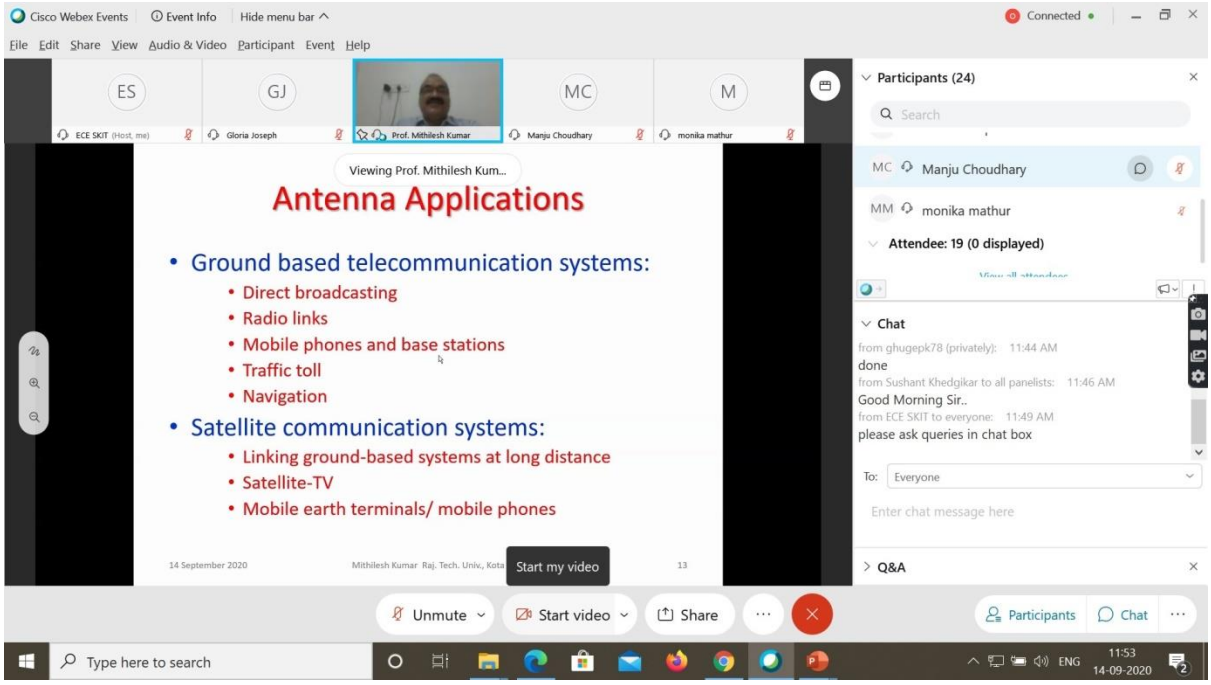

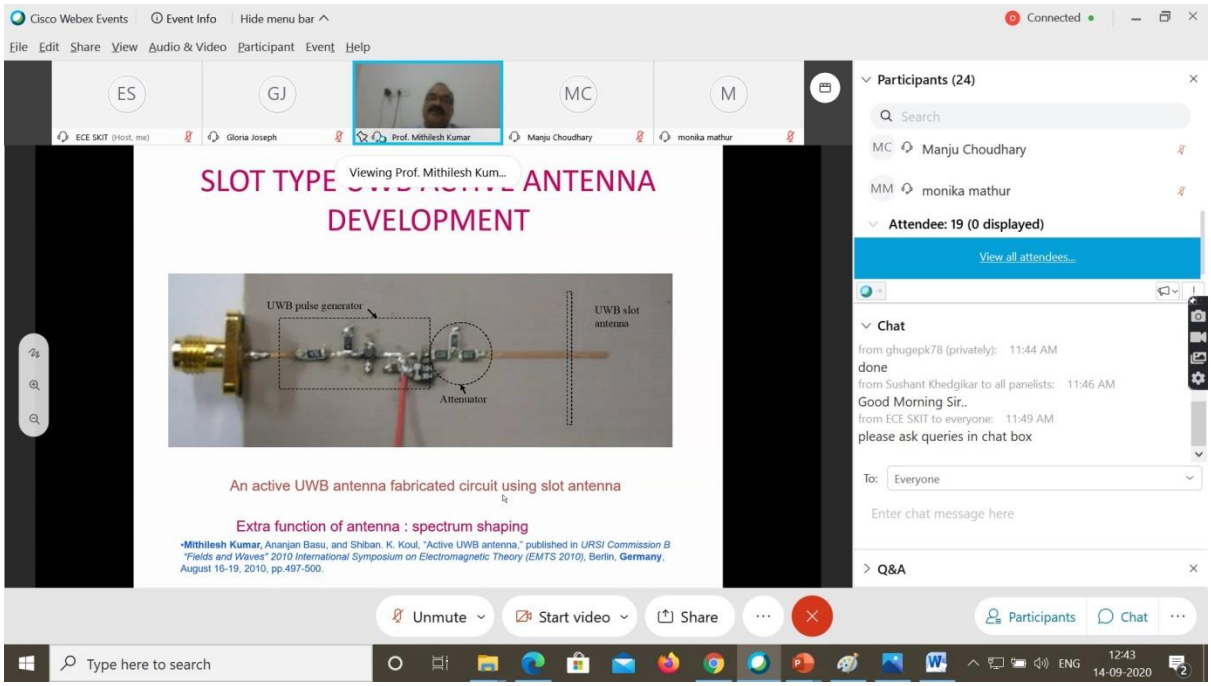
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ECE SKIT (Host, me)
Gloria Joseph
Prof. Mithilesh Kumar
Manju Choudhary
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SLOT TYPE ANTENNA
DEVELOPMENT
UWB pulse generator
UWB slot antenna
Attenuator
An active UWB antenna fabricated circuit using slot antenna
Extra function of antenna : spectrum shaping
•Mithilesh Kumar, Ananjan Basu, and Shiban. K. Koul, "Active UWB antenna," published in URSI Commission B "Fields and Waves" 2010 International Symposium on Electromagnetic Theory (EMTS 2010), Berlin, Germany, August 16-19, 2010, pp.497-500.
Participants (24)
Search
Manju Choudhary
monika mathur
Attendee: 19 (0 displayed)
View all attendees...
Chat
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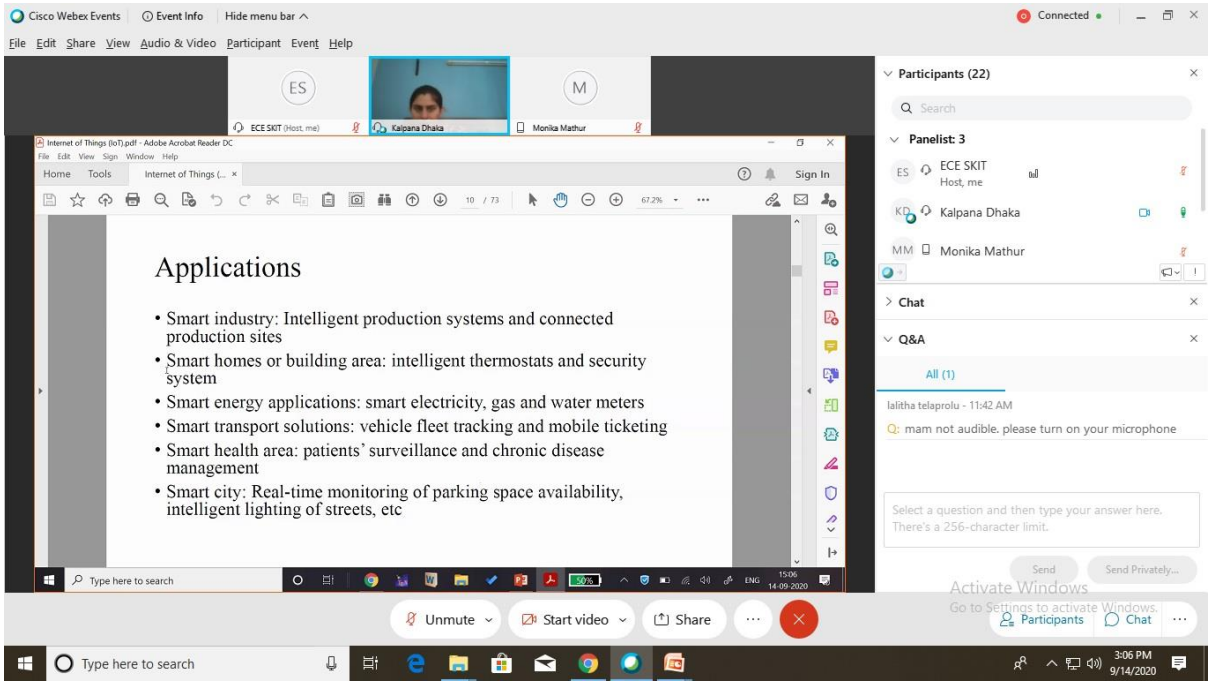
14-09-2020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Applications
• Smart industry: Intelligent production systems and connected production sites
• Smart homes or building area: intelligent thermostats and security system
• Smart energy applications: smart electricity, gas and water meters
• Smart transport solutions: vehicle fleet tracking and mobile ticketing
• Smart health area: patients' surveillance and chronic disease management
• Smart city: Real-time monitoring of parking space availability, intelligent lighting of streets, etc
Participants (22)
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Panelist: 3
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Monika Mathur
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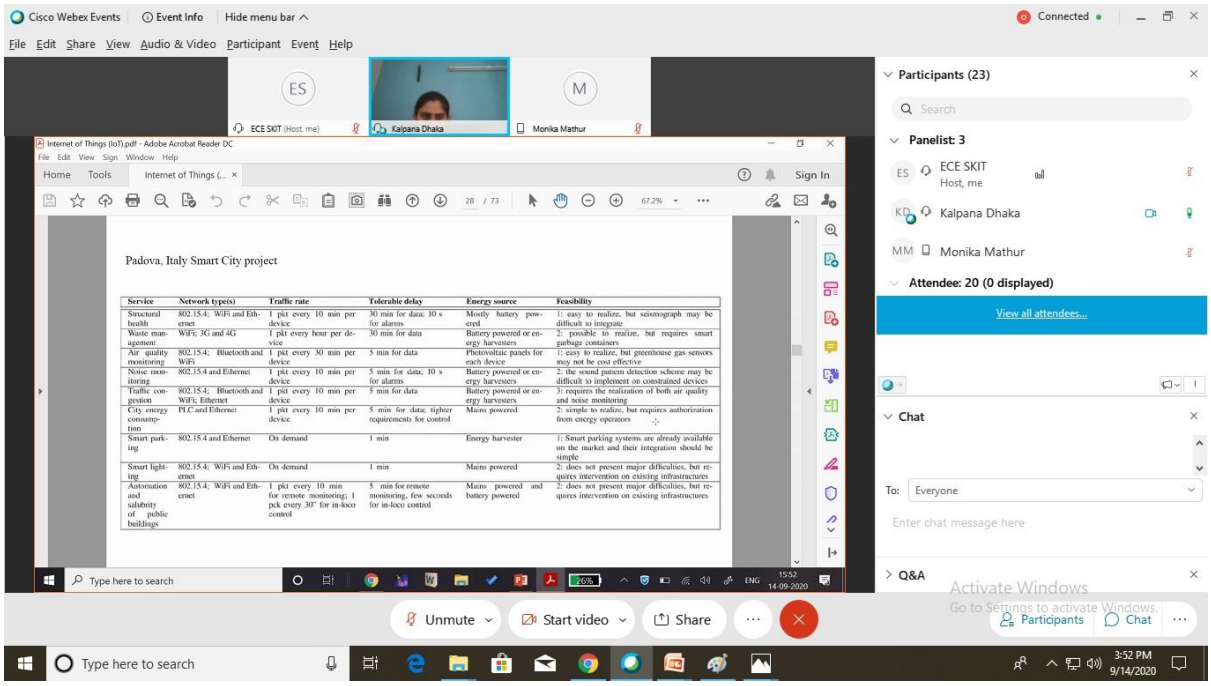
9/14/2020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Monika Mathur
Participants (23)
Panelist: 3
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Monika Mathur
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Padova, Italy Smart City project
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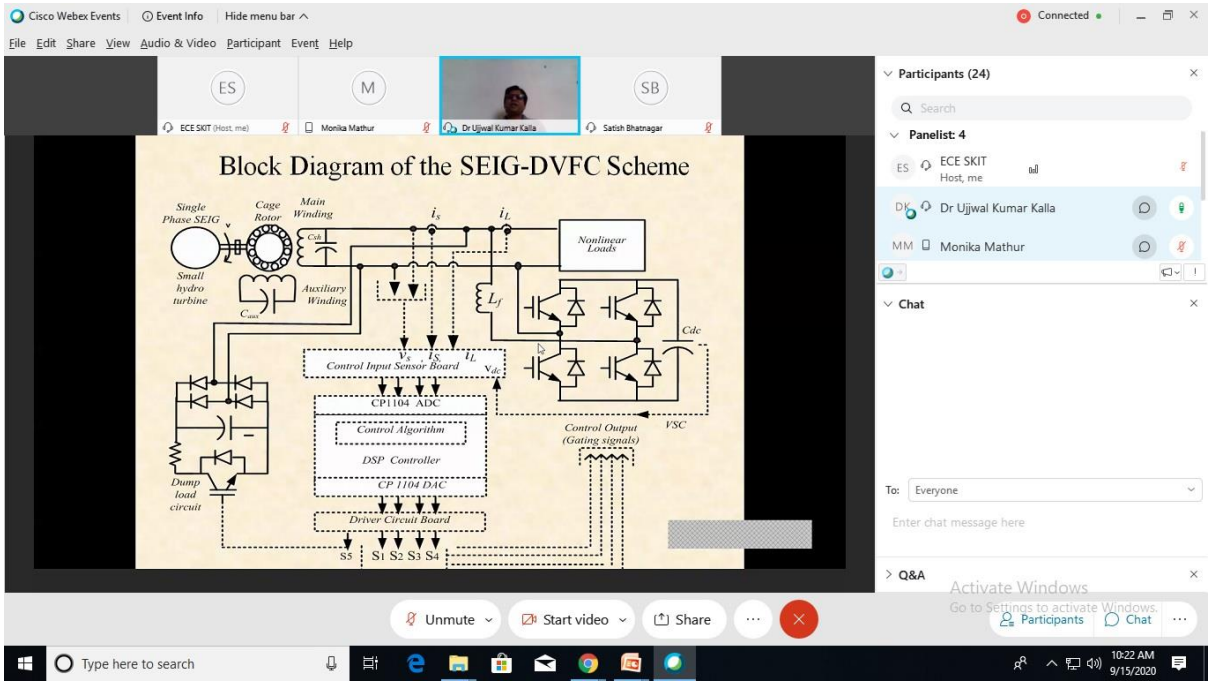
9/14/2020

3. Day 2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Monika Mathur
Dr Ujjwal Kumar Kalla
Satish Bhatnagar
Block Diagram of the SEIG-DVFC Scheme
Single Phase SEIG
Cage Rotor
Main Winding
Auxiliary Winding
Small hydro turbine
Nonlinear Loads
Control Input Sensor Board
CP1104 ADC
Control Algorithm
DSP Controller
CP 1104 DAC
Driver Circuit Board
Control Output (Gating signals)
VSC
Dump load circuit
S5 S1 S2 S3 S4
Participants (24)
Panelist: 4
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Dr Ujjwal Kumar Kalla
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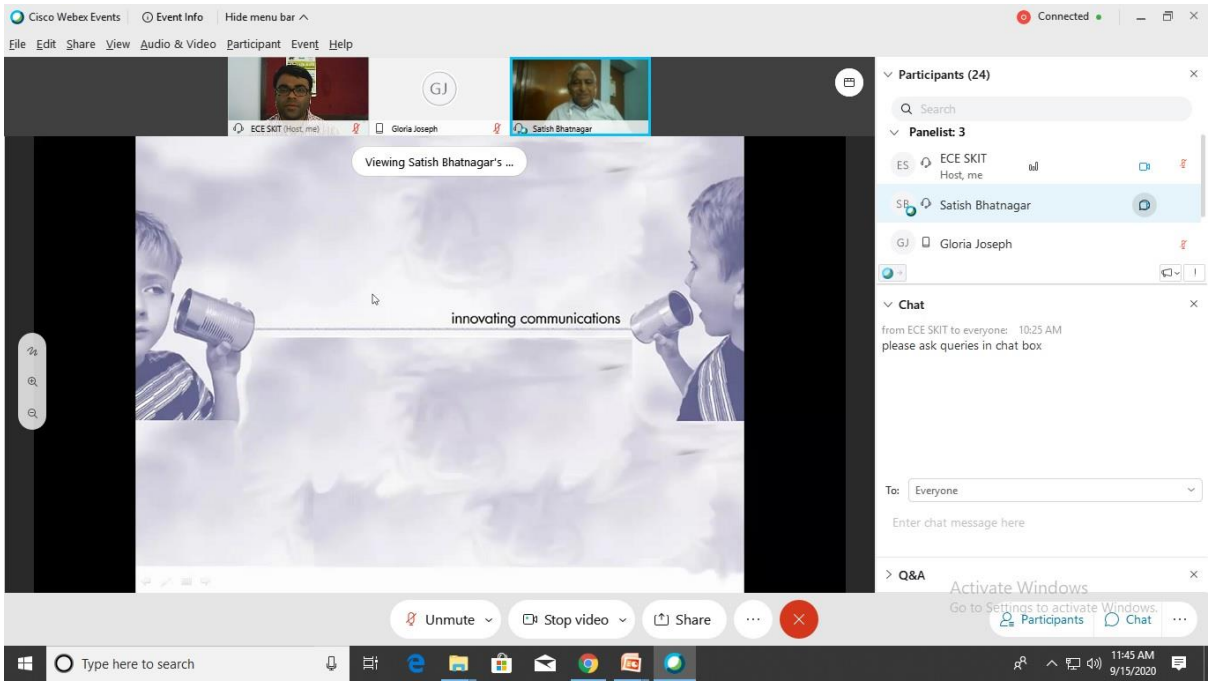
9/15/2020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Viewing Satish Bhatnagar's ...
innovating communications
Participants (24)
Search
Panelist: 3
ECE SKIT
Host, me
Satish Bhatnagar
Gloria Joseph
Chat
from ECE SKIT to everyone: 10:25 AM
please ask queries in chat box
To: Everyone
Enter chat message here
Q&A
Activate Windows
Go to Settings to activate Windows.
Unmute
Stop video
Share
Participants
Chat
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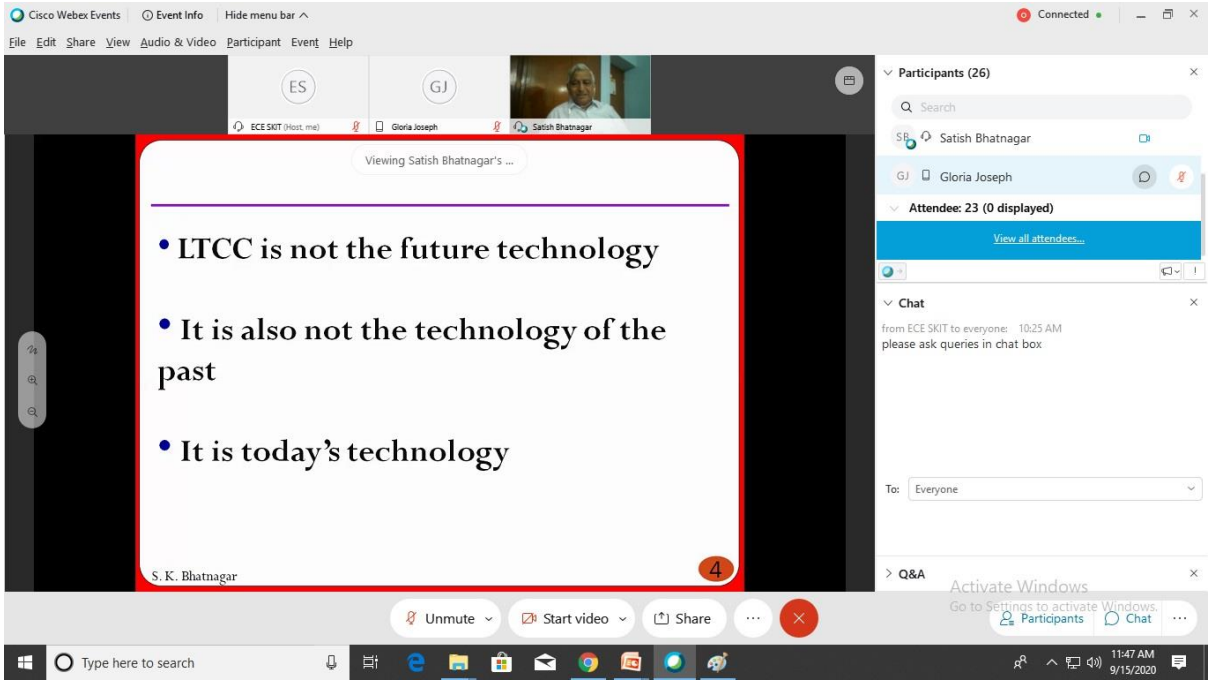
11:45 AM
9/15/2020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Viewing Satish Bhatnagar's ...
• LTCC is not the future technology
• It is also not the technology of the past
• It is today's technology
S. K. Bhatnagar
4
Participants (26)
Search
Satish Bhatnagar
Gloria Joseph
Attendee: 23 (0 displayed)
View all attendees...
Chat
from ECE SKIT to everyone: 10:25 AM
please ask queries in chat box
To: Everyone
Q&A
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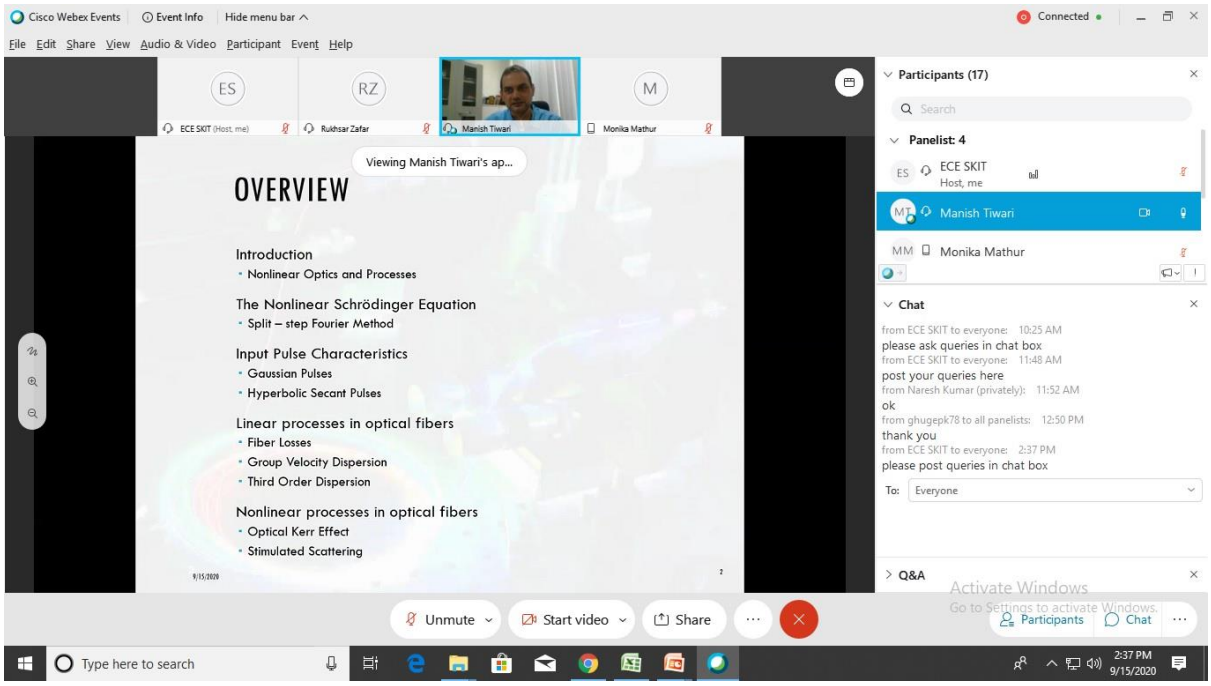
9/15/2020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File Edit Share View Audio & Video Participant Event Help
ECE SKIT (Host, me)
Rukhsar Zafar
Manish Tiwari
Monika Mathur
Viewing Manish Tiwari's ap...
OVERVIEW
Introduction
Nonlinear Optics and Processes
The Nonlinear Schrödinger Equation
Split – step Fourier Method
Input Pulse Characteristics
Gaussian Pulses
Hyperbolic Secant Pulses
Linear processes in optical fibers
Fiber Losses
Group Velocity Dispersion
Third Order Dispersion
Nonlinear processes in optical fibers
Optical Kerr Effect
Stimulated Scattering
9/15/2020
Participants (17)
Search
Panelist: 4
ECE SKIT
Host, me
Manish Tiwari
Monika Mathur
Chat
from ECE SKIT to everyone: 10:25 AM
please ask queries in chat box
from ECE SKIT to everyone: 11:48 AM
post your queries here
from Naresh Kumar (privately): 11:52 AM
ok
from ghugepk78 to all panelists: 12:50 PM
thank you
from ECE SKIT to everyone: 2:37 PM
please post queries in chat box
To: Everyone
Q&A
Activate Windows
Go to Settings to activate Windows.
Unmute
Start video
Share
Participants
Chat
Type here to search
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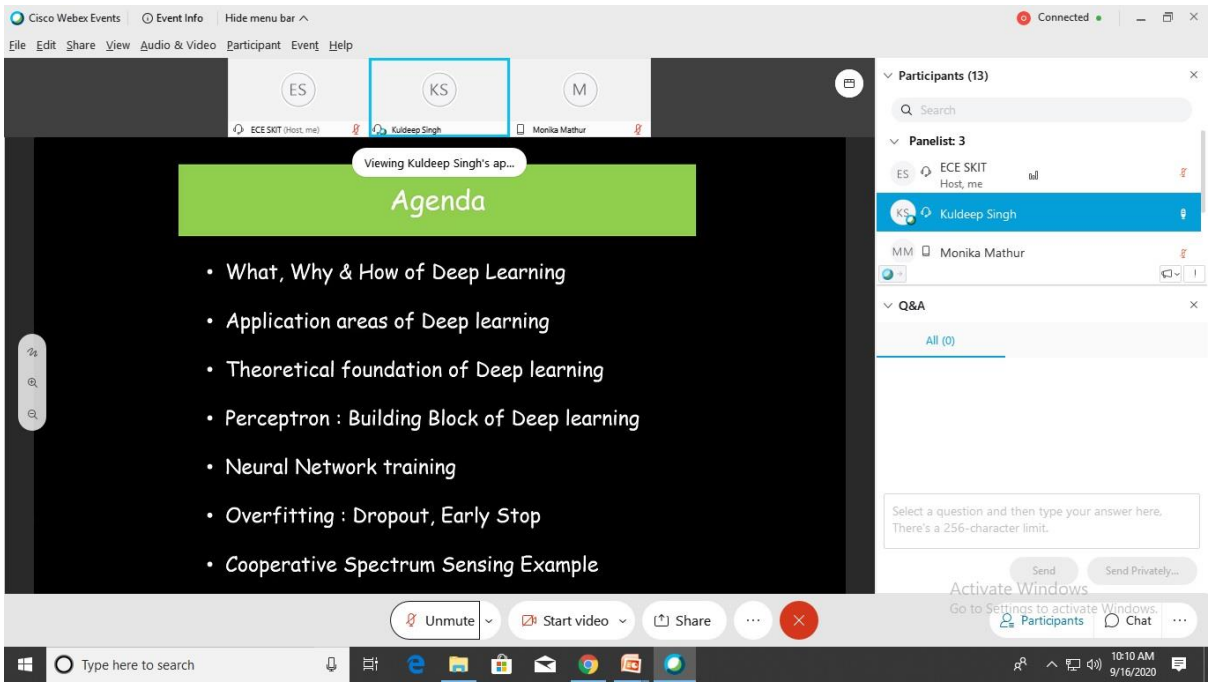
9/15/2020

4. Day 3


Cisco Webex Events
Event Info
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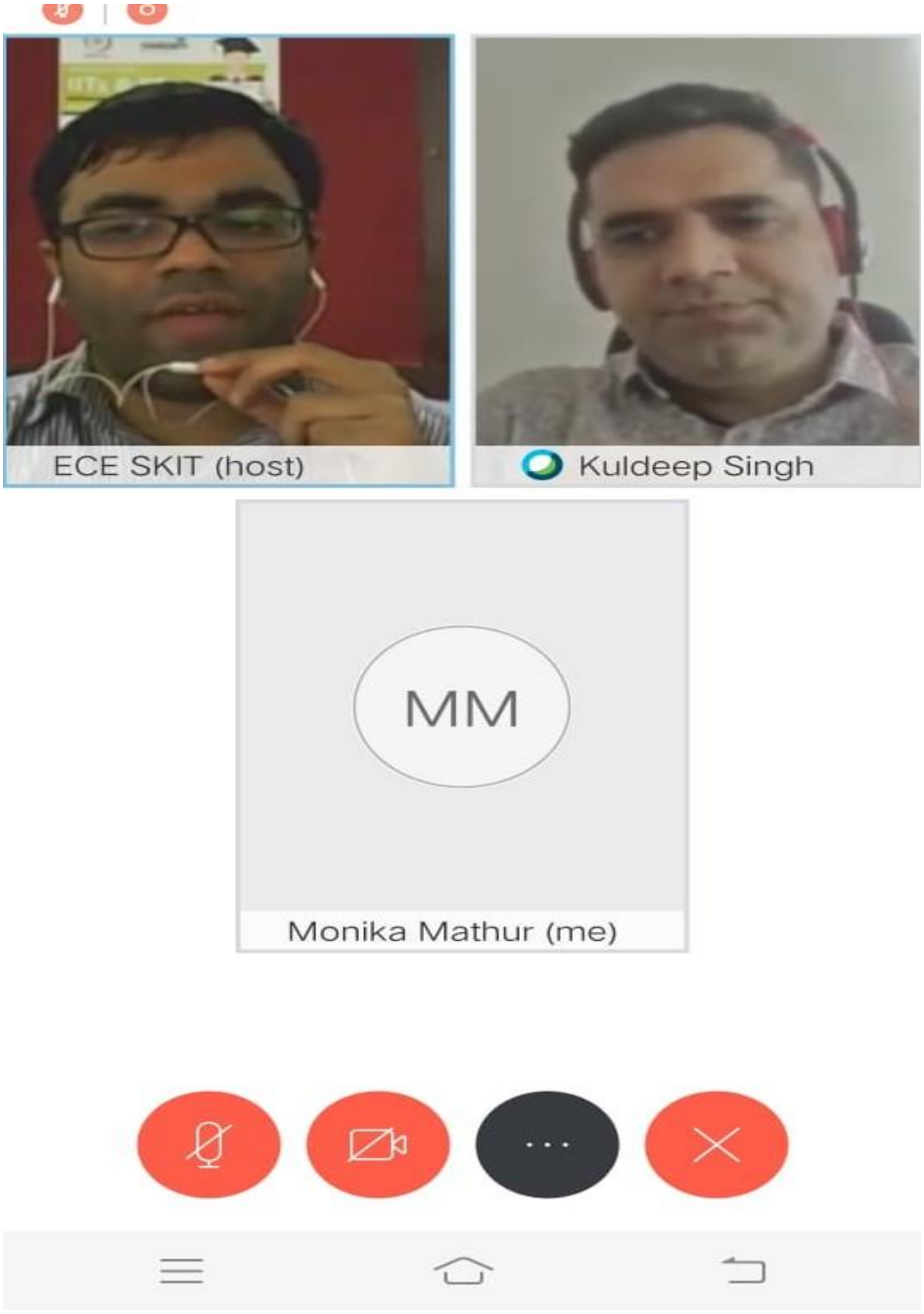
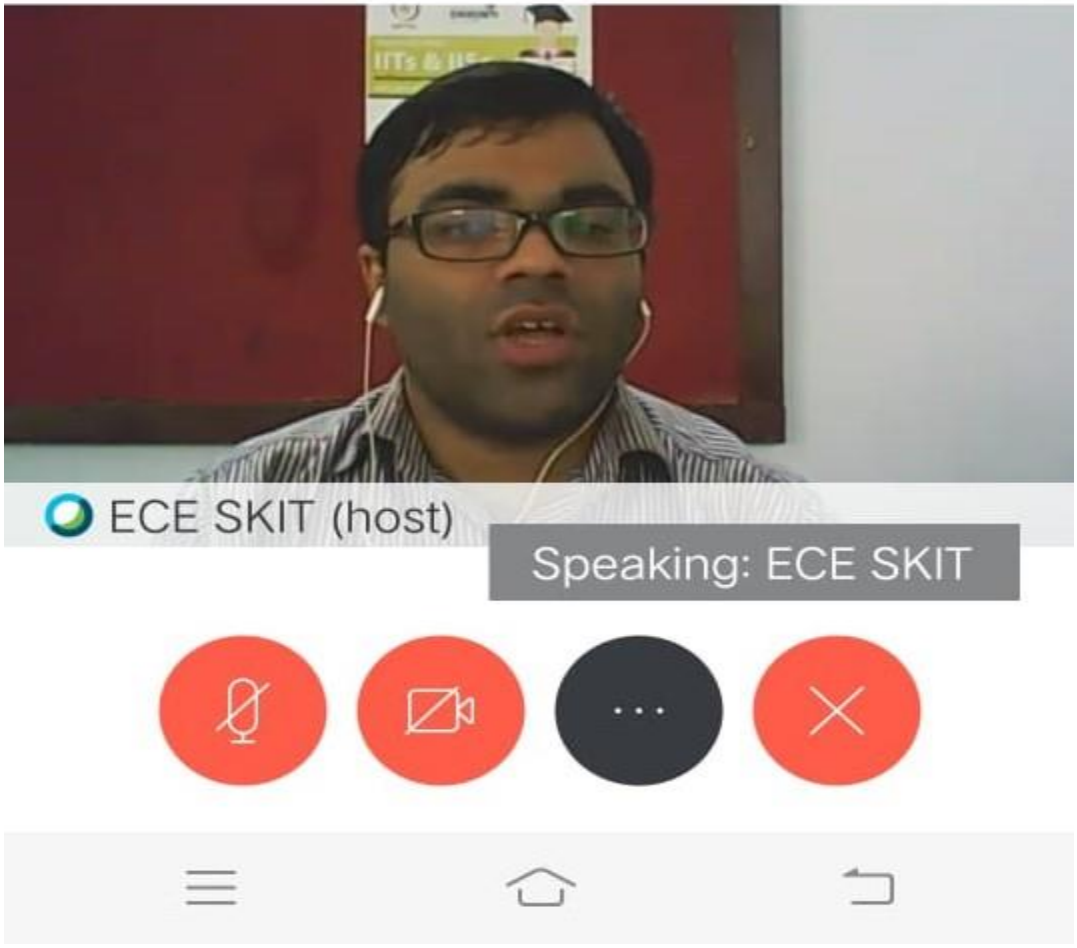
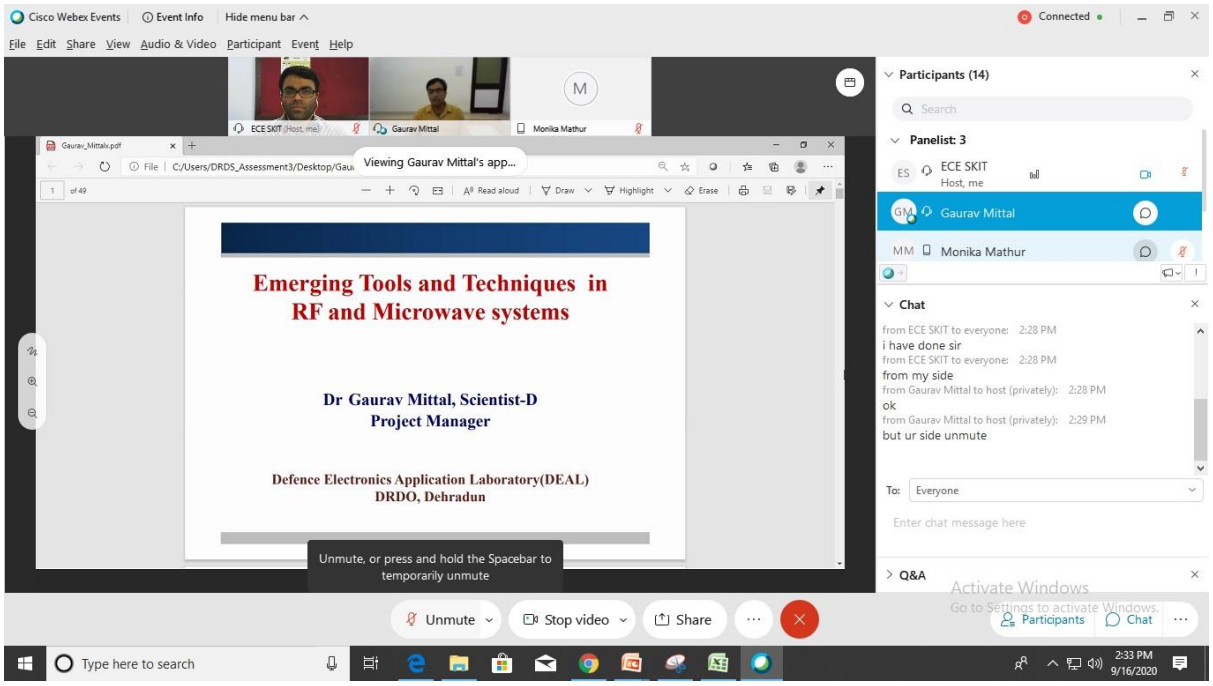
Connected
File Edit Share View Audio & Video Participant Event Help
ECE SKIT (Host, me)
Kuldeep Singh
Monika Mathur
Viewing Kuldeep Singh's ap...
Agenda
What, Why & How of Deep Learning
Application areas of Deep learning
Theoretical foundation of Deep learning
Perceptron : Building Block of Deep learning
Neural Network training
Overfitting : Dropout, Early Stop
Cooperative Spectrum Sensing Example
Participants (13)
Search
Panelist: 3
ECE SKIT
Host, me
Kuldeep Singh
Monika Mathur
Q&A
All (0)
Select a question and then type your answer here.
There's a 256-character limit.
Send
Send Privately...
Activate Windows
Go to Settings to activate Windows.
Unmute
Start video
Share
Participants
Chat
Type here to search
10:10 AM
9/16/2020


ECE SKIT (host)
Kuldeep Singh
MM
Monika Mathur (me)

Dr. Kuldeep Singh
Assistant Professor, MNIT Jaipur

- **Dr. Kuldeep Singh** has received his Ph.D. degree in Computer Vision from Delhi Technological University, New Delhi, India and M.Tech. degree in Signal Processing from Netaji Subhash Institute of Technology, New Delhi.
- He has worked as postdoctoral fellow at University of Alberta, Canada, where he was involved in development of deep learning based functional prototype for agriculture applications.
- Before joining MNIT, he has worked at Central Research Laboratory of Bharat Electronics Ltd. (BEL) Ghaziabad as Scientist from Jan 2007 to Mar 2019. During his stint at BEL, he has worked on various projects of national importance.
- He was involved in software development of various C4I systems for Indian & foreign defence forces. He has been awarded R & D Excellence award at Bharat Electronics Ltd. in 2009 and 2011. He is reviewer of various IEEE transactions, Elsevier & Springer journals.

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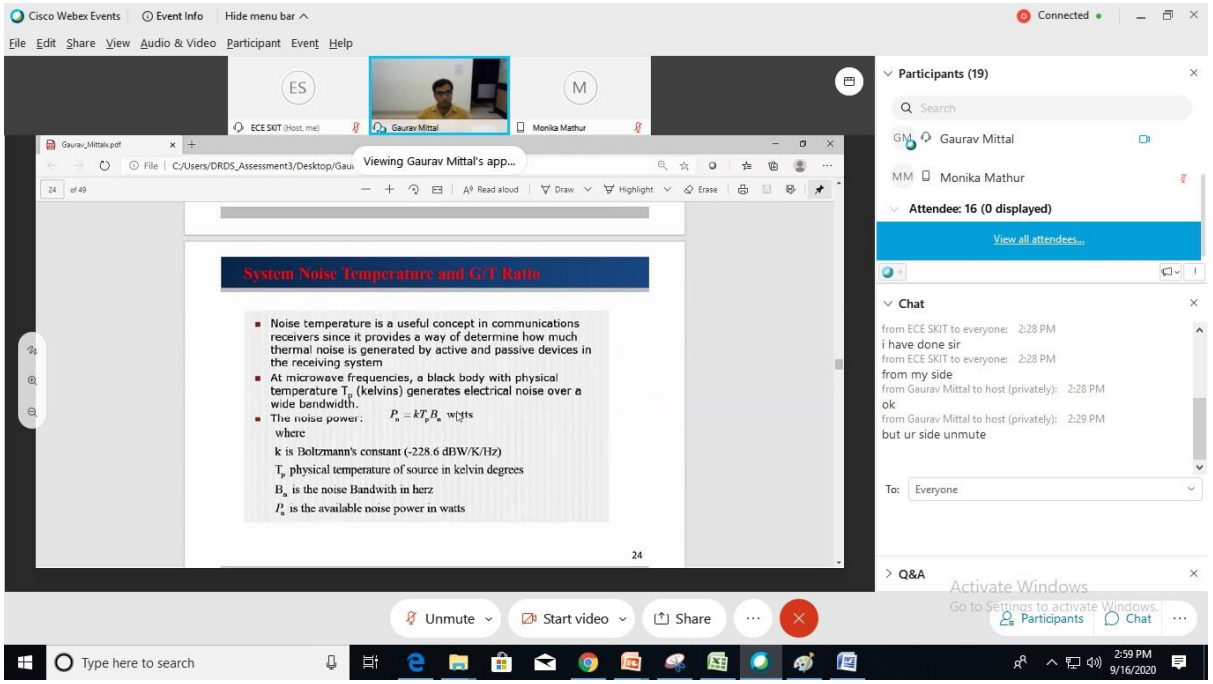
File Edit Share View Audio & Video Participant Event Help
Viewing Gaurav Mittal's app...
Emerging Tools and Techniques in RF and Microwave systems
Dr Gaurav Mittal, Scientist-D
Project Manager
Defence Electronics Application Laboratory(DEAL)
DRDO, Dehradun
Unmute, or press and hold the Spacebar to temporarily unmute
Participants (14)
Panelist: 3
ECE SKIT Host, me
Gaurav Mittal
Monika Mathur
Chat
from ECE SKIT to everyone: 2:28 PM
i have done sir
from ECE SKIT to everyone: 2:28 PM
from my side
from Gaurav Mittal to host (privately): 2:28 PM
ok
from Gaurav Mittal to host (privately): 2:29 PM
but ur side unmute
To: Everyone
Enter chat message here
Q&A
Unmute
Stop video
Share
Participants
Chat
Type here to search
2:33 PM
9/16/2020


Cisco Webex Events
Event Info
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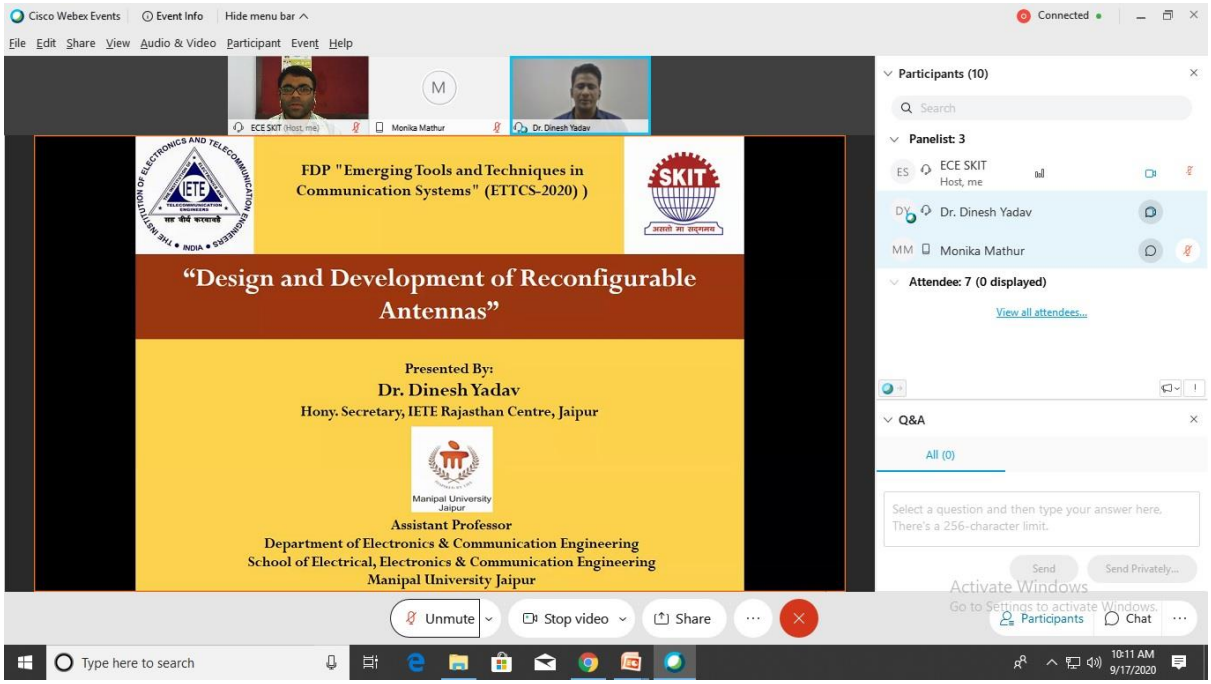
Connected
File Edit Share View Audio & Video Participant Event Help
Viewing Gaurav Mittal's app...
System Noise Temperature and G/T Ratio
Noise temperature is a useful concept in communications receivers since it provides a way of determine how much thermal noise is generated by active and passive devices in the receiving system
At microwave frequencies, a black body with physical temperature T_p (kelvins) generates electrical noise over a wide bandwidth.
The noise power: $P_n = kT_pB_n$ watts
where
k is Boltzmann's constant (-228.6 dBW/K/Hz)
T_p physical temperature of source in kelvin degrees
B_n is the noise Bandwith in herz
P_n is the available noise power in watts
24
Participants (19)
Gaurav Mittal
Monika Mathur
Attendee: 16 (0 displayed)
View all attendees...
Chat
from ECE SKIT to everyone: 2:28 PM
i have done sir
from ECE SKIT to everyone: 2:28 PM
from my side
from Gaurav Mittal to host (privately): 2:28 PM
ok
from Gaurav Mittal to host (privately): 2:29 PM
but ur side unmute
To: Everyone
Q&A
Unmute
Start video
Share
Participants
Chat
Type here to search
2:59 PM
9/16/2020

5. Day 4


Cisco Webex Events
Event Info
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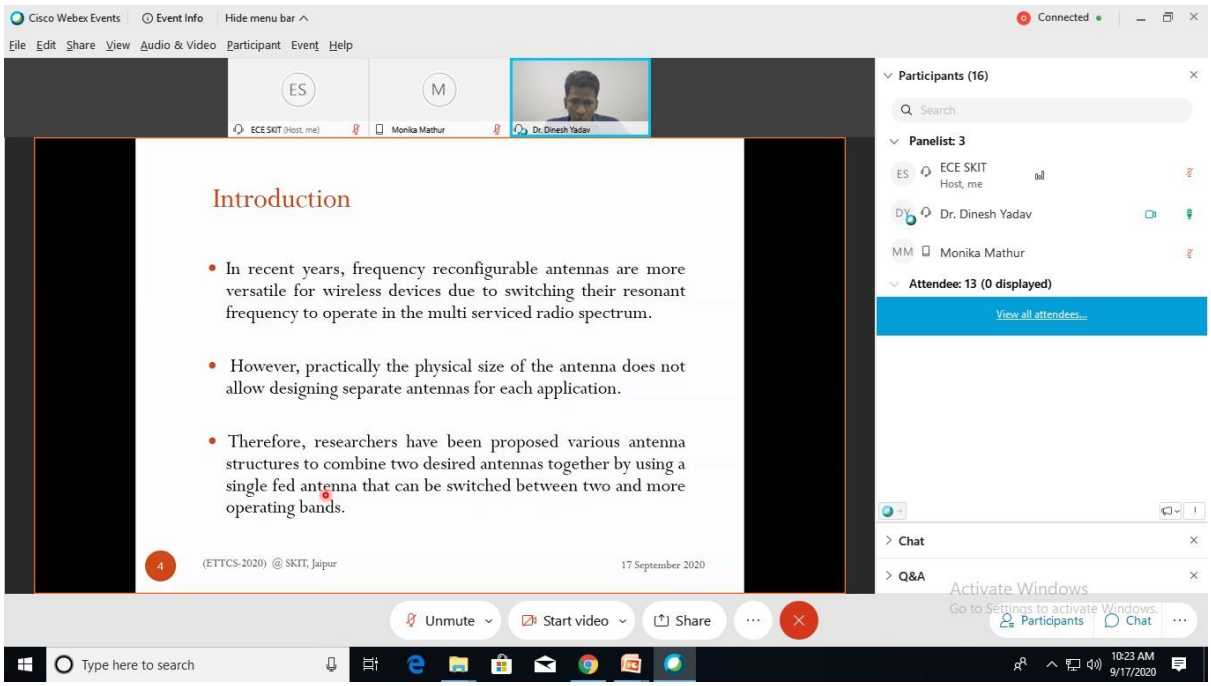
File Edit Share View Audio & Video Participant Event Help
Connected
ECE SKIT (Host, me)
Monika Mathur
Dr. Dinesh Yadav
FDP "Emerging Tools and Techniques in Communication Systems" (ETTCS-2020))
"Design and Development of Reconfigurable Antennas"
Presented By:
Dr. Dinesh Yadav
Hony. Secretary, IETE Rajasthan Centre, Jaipur
Manipal University Jaipur
Assistant Professor
Department of Electronics & Communication Engineering
School of Electrical, Electronics & Communication Engineering
Manipal University Jaipur
Participants (10)
Search
Panelist: 3
ECE SKIT Host, me
Dr. Dinesh Yadav
Monika Mathur
Attendee: 7 (0 displayed)
View all attendees...
Q&A
All (0)
Select a question and then type your answer here.
There's a 256-character limit.
Send
Send Privately...
Activate Windows
Go to Settings to activate Windows.
Unmute
Stop video
Share
Participants
Chat
Type here to search
10:11 AM
9/17/2020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File Edit Share View Audio & Video Participant Event Help
Connected
ECE SKIT (Host, me)
Monika Mathur
Dr. Dinesh Yadav
Introduction
In recent years, frequency reconfigurable antennas are more versatile for wireless devices due to switching their resonant frequency to operate in the multi serviced radio spectrum.
However, practically the physical size of the antenna does not allow designing separate antennas for each application.
Therefore, researchers have been proposed various antenna structures to combine two desired antennas together by using a single fed antenna that can be switched between two and more operating bands.
4
(ETTCS-2020) @ SKIT, Jaipur
17 September 2020
Participants (16)
Search
Panelist: 3
ECE SKIT Host, me
Dr. Dinesh Yadav
Monika Mathur
Attendee: 13 (0 displayed)
View all attendees...
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Q&A
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Participants
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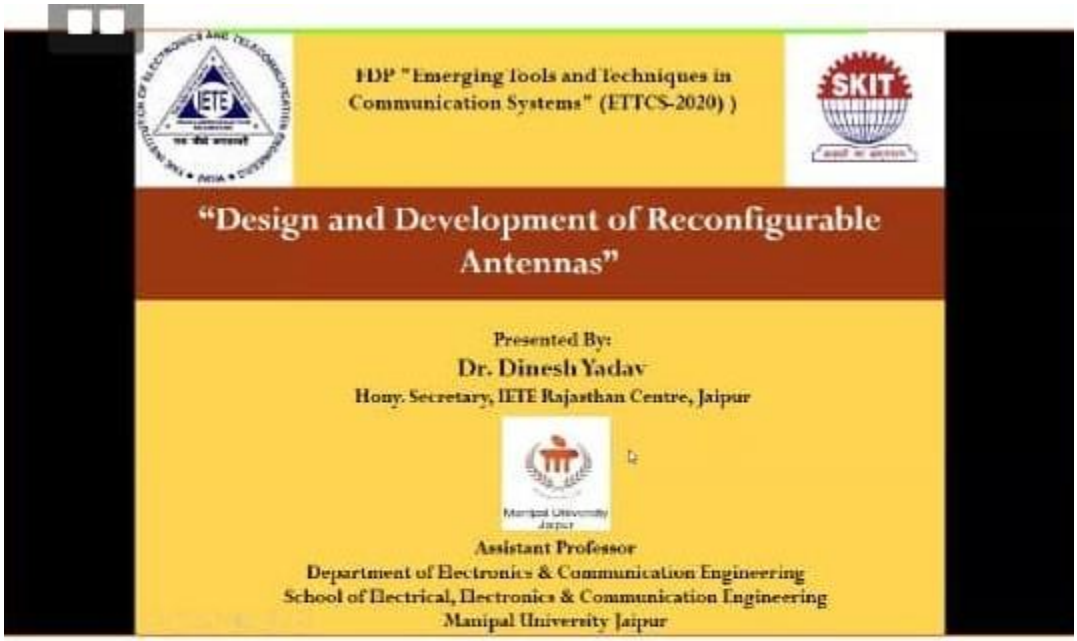
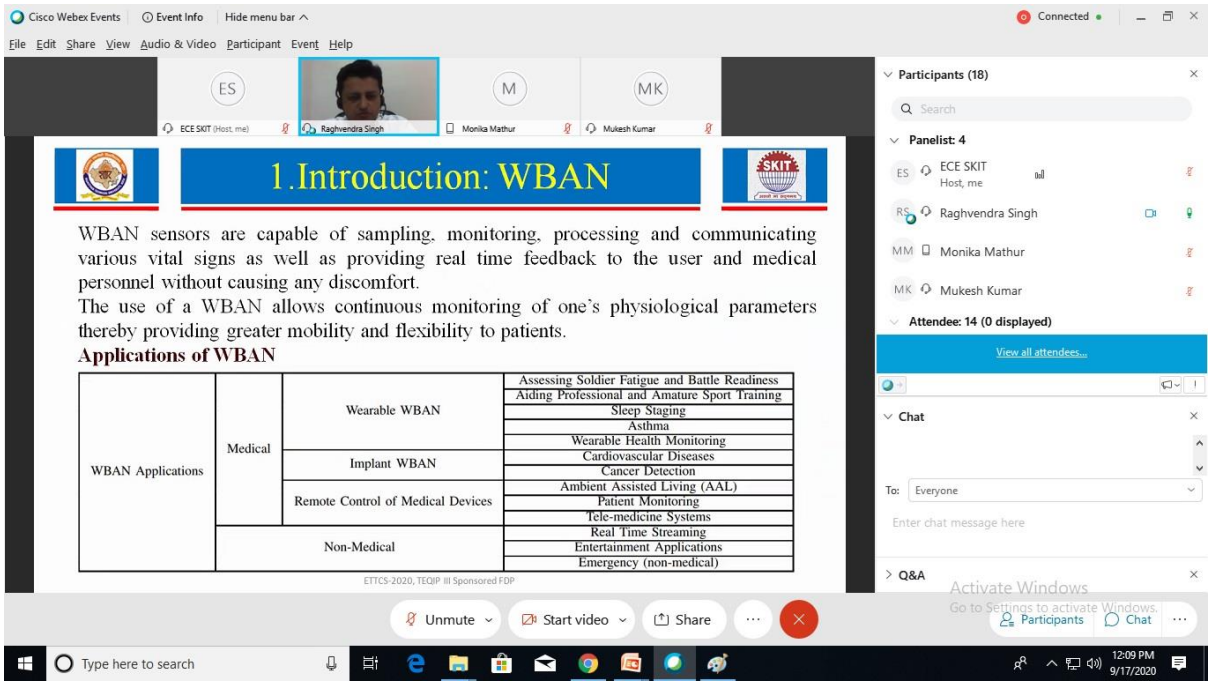
9/17/2020


FDP "Emerging Tools and Techniques in Communication Systems" (ETTCS-2020))
"Design and Development of Reconfigurable Antennas"
Presented By:
Dr. Dinesh Yadav
Hony. Secretary, IETE Rajasthan Centre, Jaipur
Assistant Professor
Department of Electronics & Communication Engineering
School of Electrical, Electronics & Communication Engineering
Manipal University Jaipur

Dr. Dinesh Yadav


Cisco Webex Events
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File Edit Share View Audio & Video Participant Event Help
ECE SKIT (Host, me)
Raghvendra Singh
Monika Mathur
Mukesh Kumar
1.Introduction: WBAN
WBAN sensors are capable of sampling, monitoring, processing and communicating various vital signs as well as providing real time feedback to the user and medical personnel without causing any discomfort.
The use of a WBAN allows continuous monitoring of one's physiological parameters thereby providing greater mobility and flexibility to patients.
Applications of WBAN
WBAN Applications
Medical
Wearable WBAN
Assessing Soldier Fatigue and Battle Readiness
Aiding Professional and Amature Sport Training
Sleep Staging
Asthma
Wearable Health Monitoring
Implant WBAN
Cardiovascular Diseases
Cancer Detection
Remote Control of Medical Devices
Ambient Assisted Living (AAL)
Patient Monitoring
Tele-medicine Systems
Non-Medical
Real Time Streaming
Entertainment Applications
Emergency (non-medical)
ETTCS-2020, TEQIP III Sponsored FDP
Participants (18)
Panelist: 4
ECE SKIT Host, me
Raghvendra Singh
Monika Mathur
Mukesh Kumar
Attendee: 14 (0 displayed)
View all attendees...
Chat
To: Everyone
Enter chat message here
Q&A
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Participants
Chat
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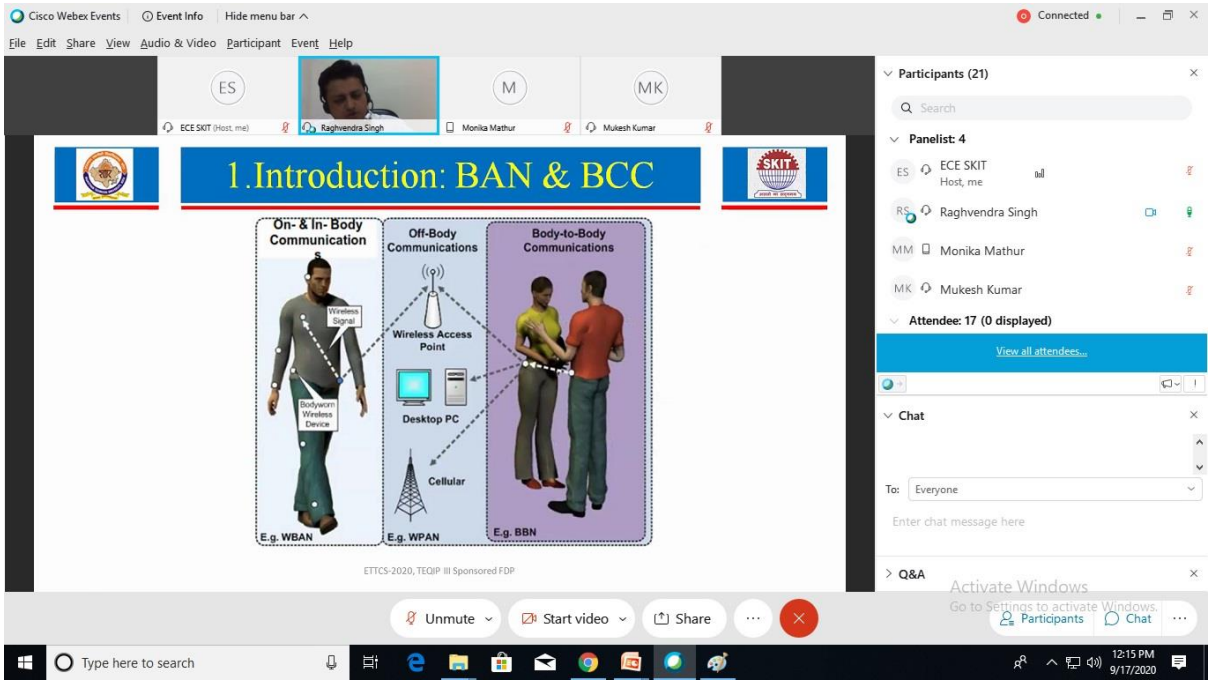
9/17/2020


Cisco Webex Events
Event Info
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File Edit Share View Audio & Video Participant Event Help
ECE SKIT (Host, me)
Raghvendra Singh
Monika Mathur
Mukesh Kumar
1.Introduction: BAN & BCC
On- & In- Body Communication
Off-Body Communications
Body-to-Body Communications
Wireless Signal
Bodyworn Wireless Device
Wireless Access Point
Desktop PC
Cellular
E.g. WBAN
E.g. WPAN
E.g. BBN
ETTCS-2020, TEQIP III Sponsored FDP
Participants (21)
Panelist: 4
ECE SKIT Host, me
Raghvendra Singh
Monika Mathur
Mukesh Kumar
Attendee: 17 (0 displayed)
View all attendees...
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To: Everyone
Enter chat message here
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Start video
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Participants
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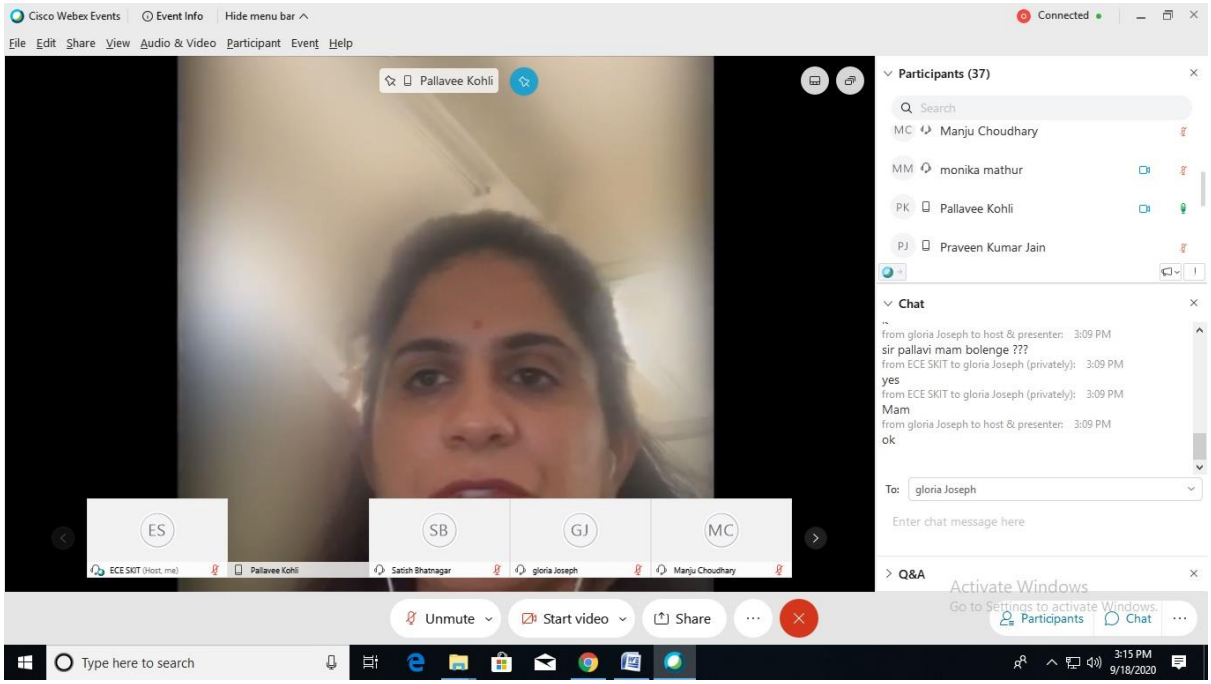
9/17/2020

6. Day 5


Cisco Webex Events
Event Info
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File Edit Share View Audio & Video Participant Event Help
Connected
Pallavee Kohli
Participants (37)
Search
Manju Choudhary
monika mathur
Pallavee Kohli
Praveen Kumar Jain
Chat
from gloria Joseph to host & presenter: 3:09 PM
sir pallavi mam bolenge ???
from ECE SKIT to gloria Joseph (privately): 3:09 PM
yes
from ECE SKIT to gloria Joseph (privately): 3:09 PM
Mam
from gloria Joseph to host & presenter: 3:09 PM
ok
To: gloria Joseph
Enter chat message here
Q&A
ES
SB
GJ
MC
ECE SKIT (Host, me)
Pallavee Kohli
Satish Bhatnagar
gloria Joseph
Manju Choudhary
Unmute
Start video
Share
Participants
Chat
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Go to Settings to activate Windows.
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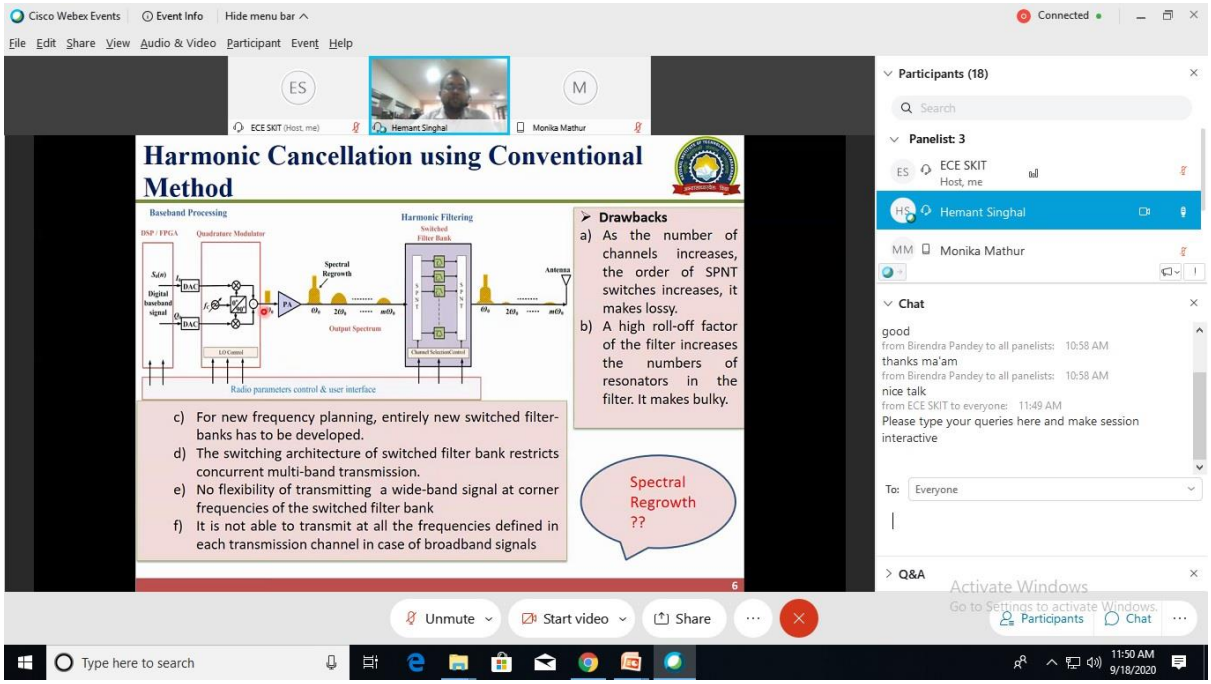
9/18/2020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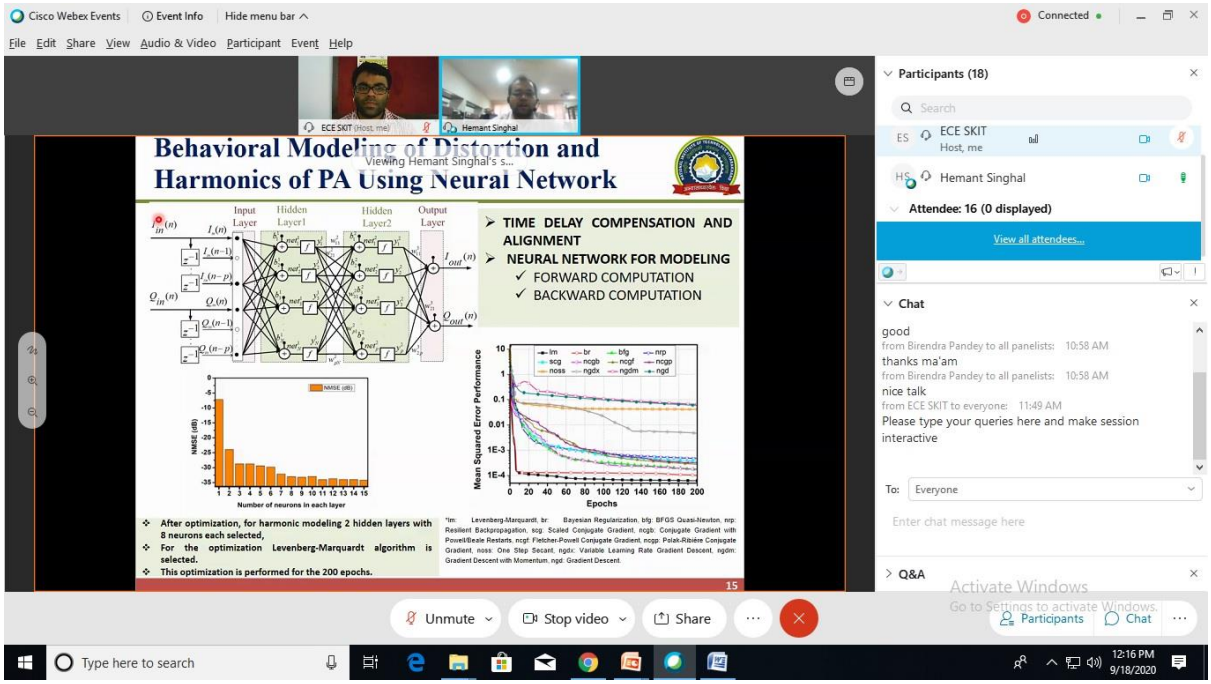
Connected
ES
M
ECE SKIT (Host, me)
Hemant Singhal
Monika Mathur
Harmonic Cancellation using Conventional Method
Baseband Processing
DSP / FPGA
Quadrature Modulator
Harmonic Filtering
Switched Filter Bank
Spectral Regrowth
Output Spectrum
Antenna
Radio parameters control & user interface
Drawbacks
a) As the number of channels increases, the order of SPNT switches increases, it makes lossy.
b) A high roll-off factor of the filter increases the numbers of resonators in the filter. It makes bulky.
c) For new frequency planning, entirely new switched filter-banks has to be developed.
d) The switching architecture of switched filter bank restricts concurrent multi-band transmission.
e) No flexibility of transmitting a wide-band signal at corner frequencies of the switched filter bank
f) It is not able to transmit at all the frequencies defined in each transmission channel in case of broadband signals
Spectral Regrowth ??
6
Participants (18)
Search
Panelist: 3
ECE SKIT
Host, me
Hemant Singhal
Monika Mathur
Chat
good
from Birendra Pandey to all panelists: 10:58 AM
thanks ma'am
from Birendra Pandey to all panelists: 10:58 AM
nice talk
from ECE SKIT to everyone: 11:49 AM
Please type your queries here and make session interactive
To: Everyone
Q&A
Unmute
Start video
Share
Participants
Chat
Activate Windows
Go to Settings to activate Windows.
Type here to search
11:50 AM
9/18/2020


Cisco Webex Events
Event Info
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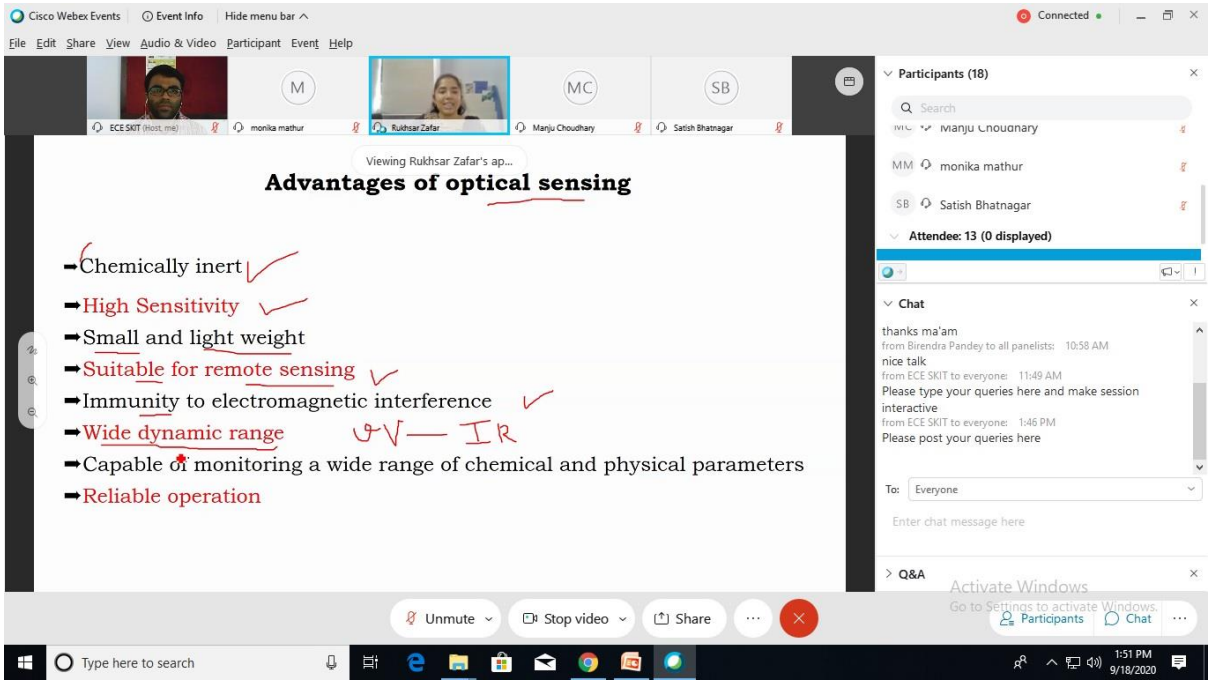
Connected
File Edit Share View Audio & Video Participant Event Help
ECE SKIT (Host, me)
Hemant Singhal
Viewing Hemant Singhal's s...
Behavioral Modeling of Distortion and Harmonics of PA Using Neural Network
Input Layer
Hidden Layer1
Hidden Layer2
Output Layer
TIME DELAY COMPENSATION AND ALIGNMENT
NEURAL NETWORK FOR MODELING
FORWARD COMPUTATION
BACKWARD COMPUTATION
NMSE (dB)
Number of neurons in each layer
Mean Squared Error Performance
Epochs
After optimization, for harmonic modeling 2 hidden layers with 8 neurons each selected,
For the optimization Levenberg-Marquardt algorithm is selected.
This optimization is performed for the 200 epochs.
15
Participants (18)
Search
ECE SKIT
Host, me
Hemant Singhal
Attendee: 16 (0 displayed)
View all attendees...
Chat
good
from Birendra Pandey to all panelists: 10:58 AM
thanks ma'am
from Birendra Pandey to all panelists: 10:58 AM
nice talk
from ECE SKIT to everyone: 11:49 AM
Please type your queries here and make session interactive
To: Everyone
Enter chat message here
Q&A
Activate Windows
Go to Settings to activate Windows.
Unmute
Stop video
Share
Participants
Chat
Type here to search
12:16 PM
9/18/2020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Event Info
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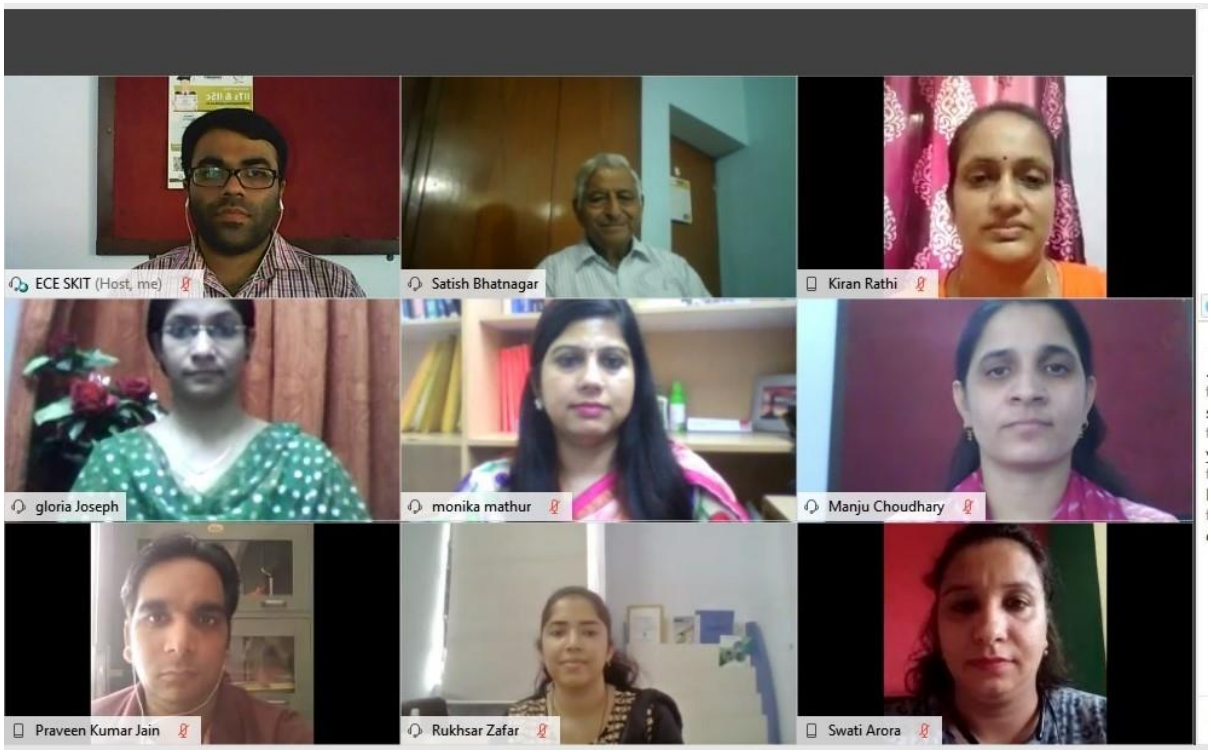
Connected
File Edit Share View Audio & Video Participant Event Help
ECE SKIT (Host, me)
monika mathur
Rukhsar Zafar
Manju Choudhary
Satish Bhatnagar
Viewing Rukhsar Zafar's ap...
Advantages of optical sensing
Chemically inert
High Sensitivity
Small and light weight
Suitable for remote sensing
Immunity to electromagnetic interference
Wide dynamic range
Capable of monitoring a wide range of chemical and physical parameters
Reliable operation
Participants (18)
Search
Manju Choudhary
monika mathur
Satish Bhatnagar
Attendee: 13 (0 displayed)
Chat
thanks ma'am
from Birendra Pandey to all panelists: 10:58 AM
nice talk
from ECE SKIT to everyone: 11:49 AM
Please type your queries here and make session interactive
from ECE SKIT to everyone: 1:46 PM
Please post your queries here
To: Everyone
Enter chat message here
Q&A
Activate Windows
Go to Settings to activate Windows.
Unmute
Stop video
Share
Participants
Chat
Type here to search
1:51 PM
9/18/2020

7. Valedictory Session



Report of the Event

Faculty Development Program on **Emerging Tools and Techniques in Communication Systems (ETTCS-2020)** was jointly organized by Rajasthan Technical University, Kota & Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 14th September 2020 to 18th September, 2020.

This FDP was fully sponsored by RTU (ATU) under Technical Education Quality Improvement Program phase III (TEQIP-III) and conducted on webex online platform

Dr. Ananjan Basu, Professor, IIT Delhi, was the guest of honor along with **Dr. D. K. Sambariya, RTU Kota (FDP coordinator).** The FDP began with the welcome address by **Prof. Mukesh Arora (Head, ECE Department SKIT)**. The Inauguration ceremony also witnessed the presence of **Prof. Praveen K. Jain (Dy. Head, ECE Department, SKIT), Dr. Monika Mathur, Ms. Manju Choudhary and Mr. Harshal Nigam.** Dr. Monika Mathur addressed the participants about importance of Emerging Tools and Technique in communication system and its application in the Engineering. 113 faculty members from different institutes of the country have participated in this FDP.

In the first session of the first day, **Dr. Ananjan Basu**, delivered an expert talk on Recent Advances in Antennas. He discussed different techniques to design a Reconfigurable Antenna for different applications and presented some of the Antenna designs which were designed under his guidance.

In the second session **Dr. Mithilesh Kumar, Prof. RTU Kota** shared his experience in the field of Recent Trends in Microstrip Antennas. He started with some basics concepts of Antenna and presented some recent designs in the field of Reconfigurable Antennas for Wi-fi, WLAN, Ultra-wide Band and many recent applications.

In the subsequent session, **Dr Kalpana Dhaka, Assistant Professor, Department of Electronics and Electrical Engineering, IIT Guwahati**, gave her insights on Internet of things. She started with the basic concepts of IOT implementation in communication system

Day 2 started with an expert lecture of **Dr. Ujjwal Kalla Associate Professor, NIT Bhopal**. He enlightened the participants with the overview of Renewable Energy along with recent power electronic circuits that can be used to implement a communication system

In Second session **Prof. S K Bhatnagar Director (Research), Electronics and Communication Engineering Department, SKIT**, shared his experience in LTCC and e-grain technologies for communication systems. He discussed about the manufacturing process using LTCC technique and how it is useful to miniaturize the device or systems.

The day two ended with an expert lecture of **Prof. Manish Tiwari Head, Department of Electronics and Communication Engineering, Manipal University, Jaipur**. He shared his

talk in the field of Non-Linear Optical Phenomena along with recent researches that are going on in the field of optical communication

Day 3 started again with an expert lecture of **Dr. Kuldeep Singh, Assistant Professor, MNIT Jaipur**. He delivered a talk on Artificial Intelligence and Deep Learning and discussed different models for neural network that can be implemented for a communication system.

This lecture was followed by **Prof. Rajesh Kumar Electrical Engineering Department, MNIT Jaipur**. He shared his knowledge on Modelling of Systems where he discussed several models based on Artificial Intelligence, computational intelligence and Intelligent system

The day three ended with an expert lecture of **Dr. Gaurav Mittal, Scientist D, DEAL, DRDO, Dehradun**, he delivered a talk on Advancement in RF and Microwave systems. He focused on some research topics that are going on in the field of RF and microwave.

Day 4 opened with the session of **Dr. Dinesh Yadav, Assistant Professor, Department of Electronics and Communication Engineering, Manipal University, Jaipur**. He enlightened us with the knowledge of Design of Reconfigurable Antennas for Ultra-Wideband applications and presented some designs of reconfigurable antenna that were published by him.

In next session **Dr. Raghvendra Singh, Associate Professor, Department of Electronics and Communication, Pranveer Singh Institute of Technology, Kanpur** shared his experience with the participants on Wireless Body Area Network (WBAN) Antennas: Concept, Design and Challenges. He discussed about some models that are available and about the research work going on in the field of wireless body area network.

In subsequent to that, **Dr. Nandakumar Nambath, Assistant Professor, Electrical Engineering Department, IIT Goa,** delivered a talk on How to do VLSI design using open source tools and discussed the VLSI analog and digital flow, software installation steps on different platform, and some resources that are required to design VLSI circuits.

Day 5 started with the session of Emerging trends in Nano Technology by **Dr. Pallavi Kohli, Former Assistant Director, AICTE, New Delhi.** She focused on concept of nanotechnology, its application and impact of nano technology in current and future scenario.

This was followed by a talk on Digitally Assisted Multi-Octave Filter-less Transmitter by **Dr. Hemant Kumar Singhal, Assistant Professor, Department of Electronics Engineering, NIT, Uttarakhand**. He presented different designs of recent RF transmitters and harmonic cancellers used in communication systems

Day 5 ended with an expert lecture of **Dr. Rukhsar Zafar Associate Professor, Department of Electronics and Communication Engineering, SKIT Jaipur**, she shared her experience in the field of Plasmonic based optical sensing technique. She enlightened the gathering with her knowledge and related research work

The discussed areas were of great benefit for the participants as they were enlightened with the most widely used advance tools, strategies and techniques being used in the communication system

Media Coverage

स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोथन में 'इमर्जिंग टूल्स एंड टेकनिक्स इन कम्युनिकेशन सिस्टम्स' पर पांच दिवसीय फैकेल्टी डेवलपमेंट प्रोग्राम का शुभारंभ

जयपुर। आधुनिक जगत में बढ़ते संचार तकनीकियों के परिदृश्य में एडवांस एंटीना जैसे कि रिकॉन्फीगरेबिल एंटीना, माइक्रोस्ट्रिप एंटीना की केंद्रीय भूमिका होती है। इसी विषय पर आधारित जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोथन में 'इमर्जिंग टूल्स एंड टेकनिक्स इन कम्युनिकेशन सिस्टम्स' पर पांच दिवसीय फैकेल्टी डेवलपमेंट प्रोग्राम का शुभारंभ हुआ। एफडीपी के इनॉग्रेशन समारोह में मुख्य अतिथि डॉ. अनंजन बसु (प्रोफेसर, आईआईटी, दिल्ली), एवं डी. के.सामरिया (एफडीपी कोर्डिनेटर आरटीयू, कोटा) रहे । कार्यक्रम की शुरूवात में अभियांत्रिकी एवं संचार विभाग के विभागाध्यक्ष डॉ. मुकेश अरोड़ा ने अतिथियो का स्वागत करते हुए कम्युनिकेशन तकनीकी के महत्व को बताया। डॉ. प्रवीण कुमार जैन (प्रोफेसर एसकेआईटी) ने गत तीन वर्षो से आरटीयू की रैंकिंग में शीर्ष पर विद्यमान एसकेआईटी की उपलब्धियों से अवगत कराया। डॉ. मोनिका माथुर ने इस एफडीपी में होने वाले सभी सत्र के बारे में बताते हुए इसके महत्व पर प्रकाश डाला। प्रो. अनंजन बसु ने एसकेआईटी द्वारा आयोजित की जाने वाली इस तरह के कार्यक्रमों की सराहना की। अंत में एफडीपी के को-ऑर्डिनेटर हर्षल निगम ने सभी अतिथियों को धन्यवाद अर्पण किया।

आवश्यकता होगी।

संचार जगत के विभिन्न आयामों पर हुई चर्चा

डेली न्यूज, mix रिपोर्टर, जयपुर। वर्तमान में बढ़ते संचार तकनीकों में एडवांस एंटीना जैसे कि रिकॉन्फिगरेबिल एंटीना, माइक्रोस्ट्रिप एंटीना की केंद्रीय भूमिका होती है। ये हाई टेक्नोलॉजी पर आधारित तथा विभिन्न फ्रीक्वेंसी पर कार्य कर सकते हैं। संचार से जुड़े कुछ ऐसे ही तर्क दिए एक्सपर्ट्स ने। मौका था स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में सोमवार से शुरू हुए पांच दिवसीय फैकल्टी डवलपमेंट प्रोग्राम का। एफडीपी के पहले दिन कम्यूनिकेशन क्षेत्र के विभिन्न उपयोगी तकनीकियों पर चर्चा की। आईआईटी दिल्ली के प्रो. अनंजन बसु ने एंटीना डिजाइन के क्षेत्र में उपयोग होने वाली नई तकनीकों के बारे में जानकारी दी। उन्होंने रिकॉन्फिगरेबिल एंटीना की डिजाइन तकनीक के बारे में बताया। इनोग्रेशन समारोह में मुख्य अतिथि आईआईटी दिल्ली के डॉ. अनंजन बसु, एवं एफडीपी कोर्डिनेटर आरटीयू डीके सामरिया रहे। कार्यक्रम की शुरुआत में अभियांत्रिकी एवं संचार विभाग के विभागाध्यक्ष डॉक्टर मुकेश अरोड़ा ने अतिथियों के स्वागत के साथ की। वहीं एसकेआईटी के प्रोफेसर डॉक्टर प्रवीण कुमार जैन एवं डॉक्टर मोनिका माथुर ने इस एफडीपी से संबंधित विभिन्न सत्रों पर प्रकाश डाला। विभिन्न सत्रों के दौरान आरटीयू के प्रोफेसर डॉक्टर मिथिलेश कुमार, आईआईटी गुवाहाटी से प्रो. डॉ. कल्पना ढाका ने संबोधित किया। उन्होंने आईओटी तकनीकी को कम्यूनिकेशन सिस्टम से जोड़ते हुए उसके वास्तविक जीवन में उपयोगिता को बताया।

Invitation Mail

Dear All,
Greetings !!!

Department of Electronics and Communication Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur in association with Rajasthan Technical University is going to organize an RTU(ATU) TEQIP-III Sponsored One week Faculty Development Program on "Emerging Tools and Techniques in Communication Systems" (ETTCS-2020) from 14/09/2020 to 18/09/2020.

E-certificate: All registered participants will be eligible to get e-certificate whose attendance is above 80% in all sessions and after submitting feedback form.

Registration Link: https://forms.gle/4QksZsETm8xerLjK8
Registration Fee: No registration fee required

This FDP will focus on:

- **To introduce recent trends in Communication technologies**
- **Establish basic concepts about the recent technologies in Communications along with their tools and techniques**
- **To provide a platform for interaction among academicians and our experts to discuss new technologies, developments, challenges and research activities in the field of communication**

WhatsApp group link: https://chat.whatsapp.com/GIe6kByfVGfETjw8jwgjo7

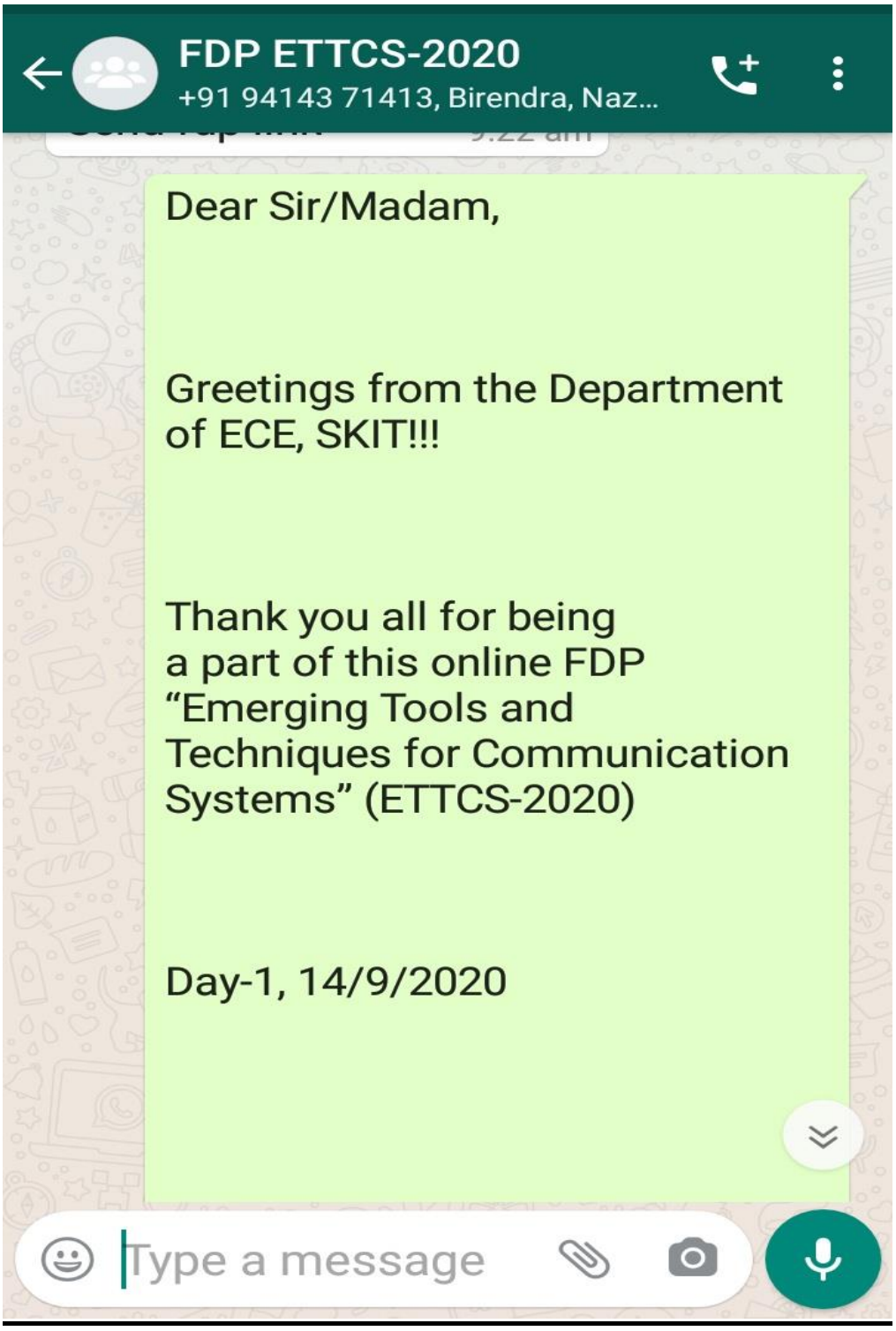
Google Classroom Code: sx4e7j6
Email id for correspondence: fdpece@skit.ac.in

Note: It is advised to download WebEx and join either WhatsApp group or Google Classroom in the Context of this FDP.

Coordinator ETTCS-2020:

1. **Prof. Mukesh Arora (9829630099)**
   (Head, ECE Department)
2. **Dr. Monika Mathur (9460265776)**
   (Associate Professor)
3. **Mr. Harshal Nigam (9460005284)**
   (Assistant Professor)
4. **Ms. Manju Choudhary (9694724109)**
   (Associate Professor)

Daily Whatsapp Message Sample



Dear Sir/Madam,

Greetings from the Department of ECE, SKIT!!!

Thank you all for being a part of this online FDP "Emerging Tools and Techniques for Communication Systems" (ETTCS-2020)
Day-1, 14/9/2020

We will have Inauguration followed by three Sessions.

Looking forward to see you on 14-09-2020 at 9:30 A.M. to the WebEx Inauguration session

Inaugural Session: (from 9:30 AM onwards)

Guest of Honour: "Prof. Ananjan Basu, IIT Delhi "

Expert Talks:

(1) Prof. Ananjan Basu, IIT Delhi , 10:00-11:30 AM

(2) Prof. Mithilesh Kumar, RTU Kota, 11:40 AM-01:10 PM

(3) Dr. Kalpana Dhaka, IIT Guwahati, 02:30 -04:00 PM

The Session will be held on WebEx platform.
WebEx Meeting Link (DAY 1)

https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e296c7d8c4670239dbe7edec177f5e473

Note:-

(1) Please don't change the password, keep it default.

(2) Please join the session at Webex before 10 minute of scheduled time.

(3) Attendance will be shared on Google Classroom only (Classroom Code- sx4e7j6).

(4) Feedback link will be shared at the end of FDP i.e. 18-09-2020.

(5) Please join Whatsapp group through link for more updates: https://chat.whatsapp.com/GIe6kByfVGfETjw8jwgjo7

Thanks & Regards

Organizers

ETTCS – 2020

Registration Form

TEQIP - III Sponsored Faculty Development Program on "Emerging Tools and Techniques in Communication Systems" (ETTCS-2020) during 14th-18th September 2020

Organized by

Rajasthan Technical University, Kota

&

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

* Required

Salute *

- ◯ Mr.
- ◯ Ms.
- ◯ Dr.
- ◯ Prof.

Participant Name *

Your answer

Designation *

Your answer

Department *

Your answer

Highest Qualification *

Your answer

Institute *

Your answer

Institute Address *

Your answer

Mobile No. *

Your answer

WhatsApp No. *

Your answer

Email Id *

Your answer

Institute affiliated to Rajasthan Technical University / Bikaner Technical University (RTU/ BTU) *

- ◯ Yes
- ◯ No

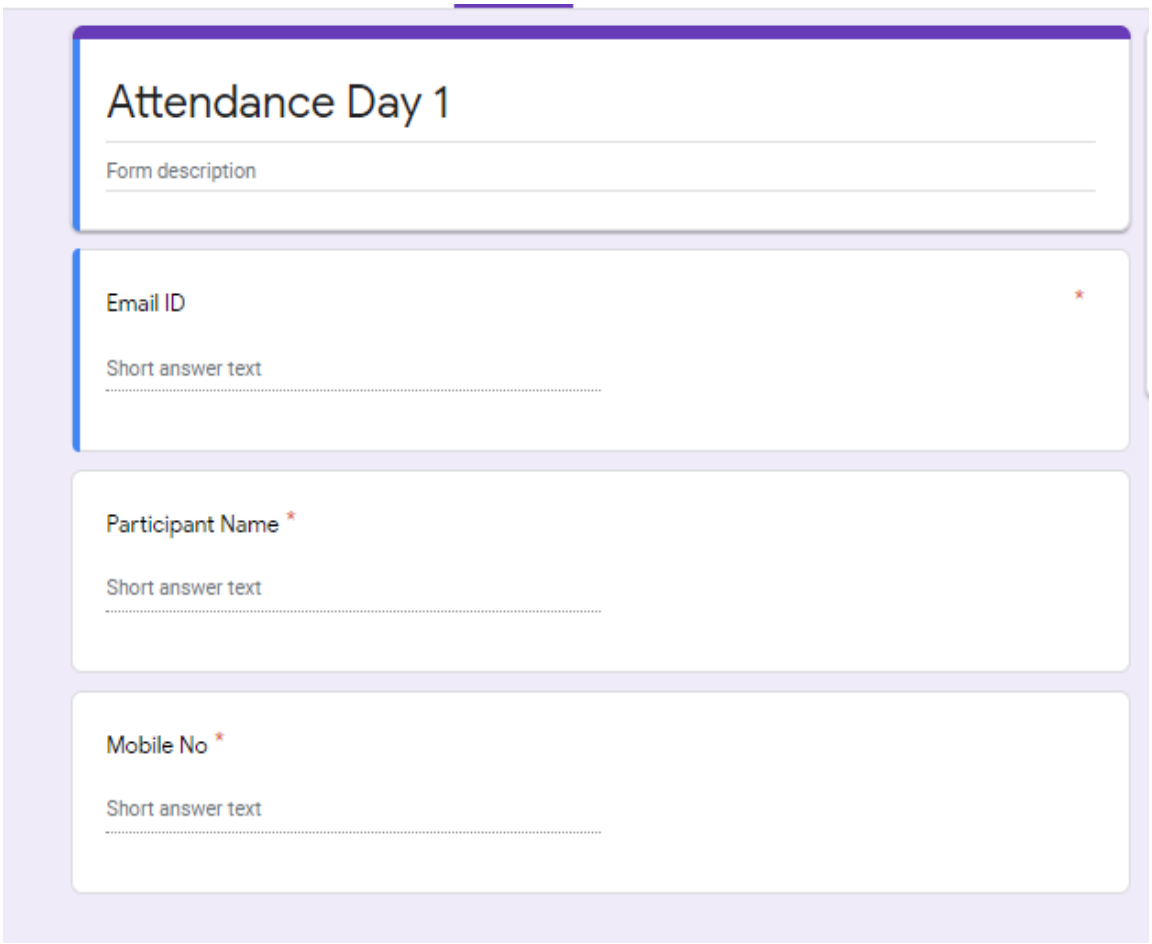
Submit

Never submit passwords through Google Forms.

This form was created inside of Swami Keshvanand Institute of Technology. Report Abuse

Google Forms

Attendance Form



Assignment

ETTCS-2020 Assignment

* Required

Full Name *

Your answer

Email ID *

Your answer

Mobile No. *

Your answer

Institute / Organization *

Your answer

The input image has been converted into a matrix of size 28 X 28 and a kernel/filter of size 7 X 7 with a stride of 1. What will be the size of the convoluted matrix? *

- ◯ A) 22 X 22
- ◯ B) 21 X 21
- ◯ C) 28 X 28
- ◯ D) 7 X 7

Wireless LANs implement security measures in the *

- A. System Layers
- B. Data Link Layers
- C. Sub Layers
- D. Multi Layers.

An antenna, which have capability to switch its pattern according to desired specification is called *

- A. Dipole antenna
- B. Pattern reconfigurable antenna
- C. Frequency reconfigurable antenna
- D. Yagi-Uda array

Global Sensor Network is built for *

- A. Reducing cost and time for development
- B. Reducing cost and increasing time for development
- C. Increasing cost and increasing time for development
- D. Increasing cost and decreasing time for development

In an optical fiber communication system, which among the following is not a typical transmitter function *

- A. Coding for error protection
- B. Decoding of input data
- C. Electrical to optical conversion
- D. Recoding to match output standard

In single-mode fibers, how does the fraction of energy traveling through bound mode appear in the cladding *

- A. As a crescent wave
- B. As a gibbous wave
- C. As an evanescent wave
- D. All of the above

To convert a continuous image f(x, y) to digital form, we have to sample the function in *

- A. Coordinates
- B. Amplitude`
- C. All of the mentioned
- D. None of the mentioned

To convert a continuous sensed data into Digital form, which of the following is required *

- A. Sampling
- B. Quantization
- C. Both Sampling and Quantization
- D. Neither Sampling nor Quantization

Statement 1: It is possible to train a network well by initializing all the weights as 0 Statement 2: It is possible to train a network well by initializing biases as 0 Which of the statements given above is true *

- A. Statement 1 is true while Statement 2 is false
- B. Statement 2 is true while statement 1 is false
- C. Both statements are true
- D. Both statements are false

Statement 1: It is possible to train a network well by initializing all the weights as 0 Statement 2: It is possible to train a network well by initializing biases as 0 Which of the statements given above is true *

- A. Statement 1 is true while Statement 2 is false
- B. Statement 2 is true while statement 1 is false
- C. Both statements are true
- D. Both statements are false

A antenna which attempts to direct all its energy in a particular direction is called as a *

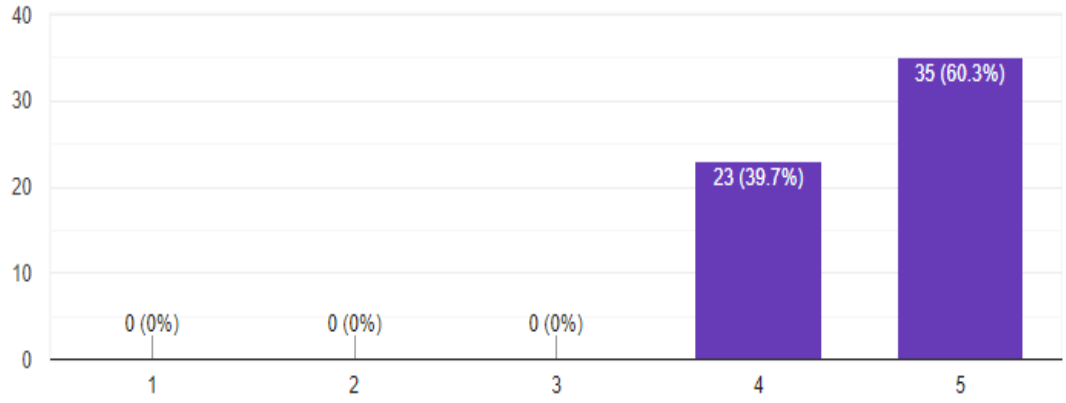
- A. Directional Antenna
- B. One to One Antenna
- C. Propagation Antenna
- D. Single Direction Antenna

Submit

Feedback analysis of ETTCS-2020

1. Your Experience about this FDP

58 responses

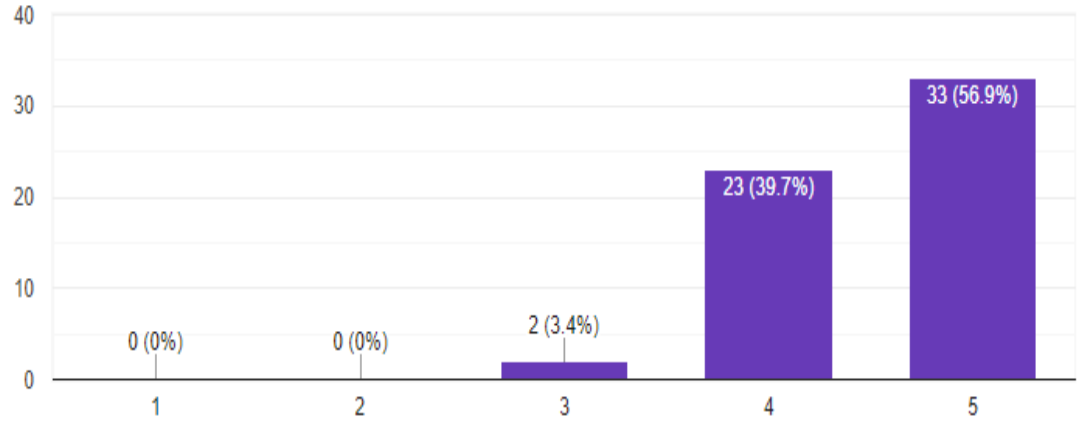


2. Is this FDP useful ?

58 responses

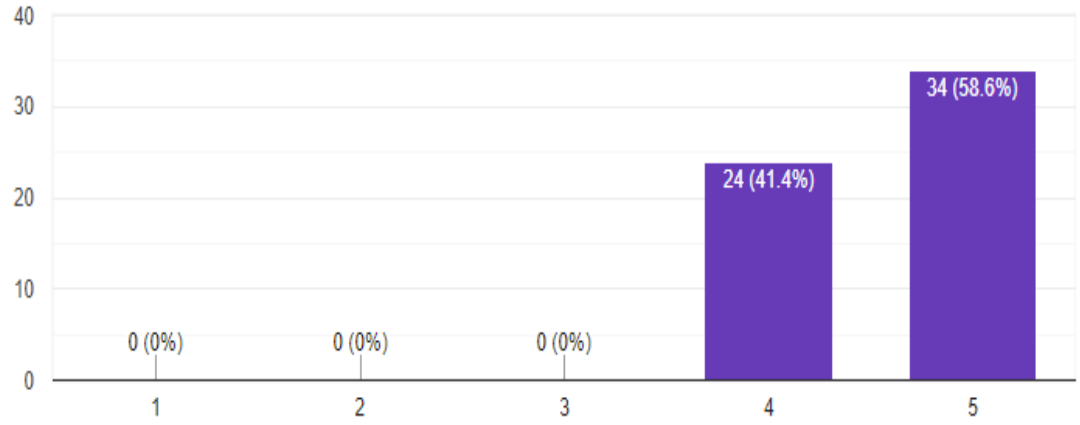
3. Relevancy of Topic with FDP

58 responses



4. About speakers

58 responses



5. In future you want to attend such FDP at SKIT, Jaipur

58 responses

6. Topic that can be covered in next FDP related to this field

58 responses

No

AI

Data science

Yes

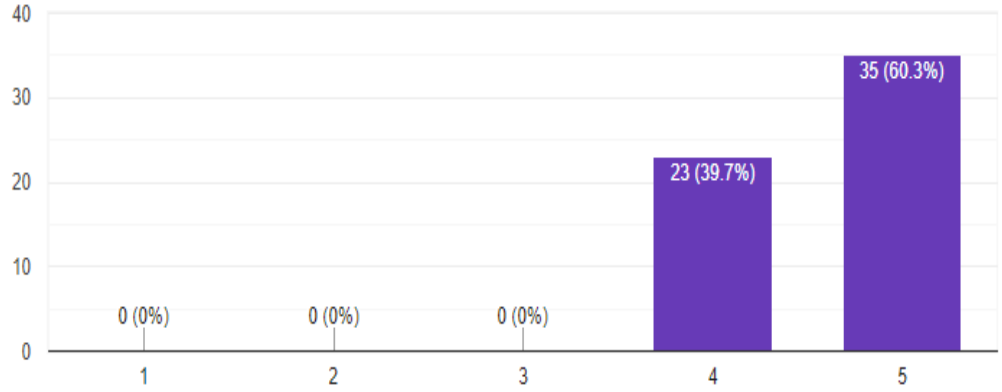
Reconfigurable antenna

IOT

Nothing

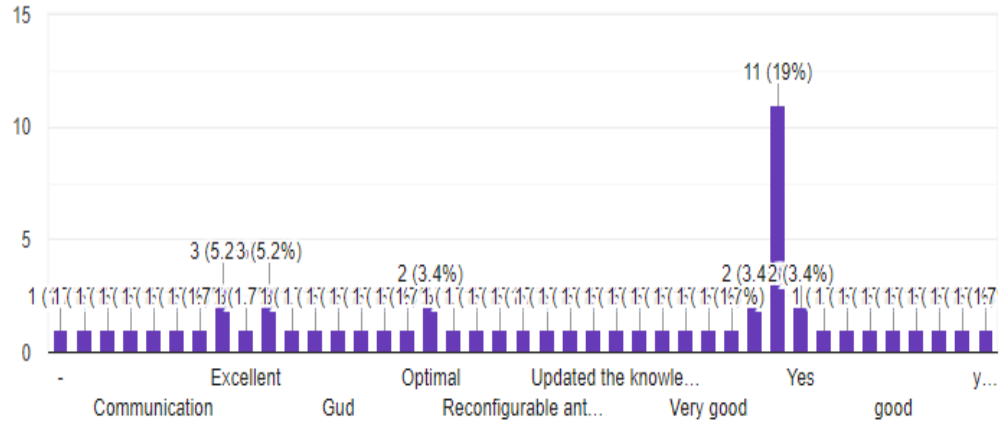
7. Overall Experience

58 responses



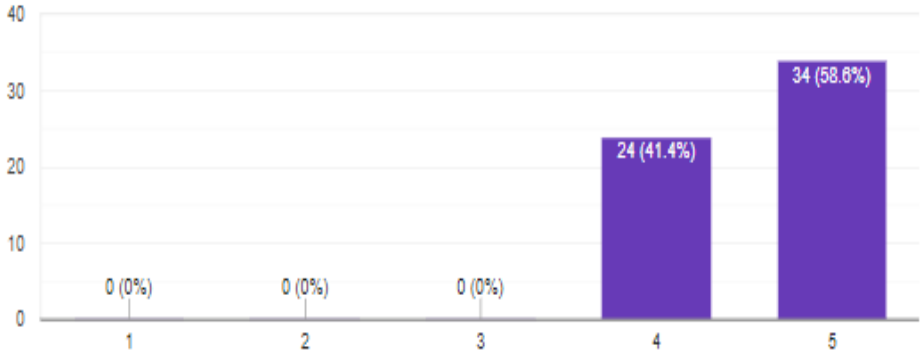
8. Knowledge gained by the course.

58 responses



9. General arrangements

58 responses



10. Suggestion

58 responses

Excellent session

Good

Thank ypu

Thank you

Amazing Session

Keep it up

Good to be focused on one topic with more detailed sessions with hands on workshops.

Link disconnected 2 times and attendance not submitting

Practical approach