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 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.

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. 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, Patna

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 Suvvala
Assistant Professor, NIT Andhra Pradesh

Dr. Charan Kher
Assistant Professor, NIT Warangal

Dr. Karan Verma
Assistant Professor, NIT, Delhi

Dr. Avinash Agarwal
Assistant Professor, LNMIIT, Jaipur

Mr. Vikas Sharma
Growth Manager, Indian Semiconductor 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-stp20

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
M : +91-9829000577
E : stp.ece@poornima.org

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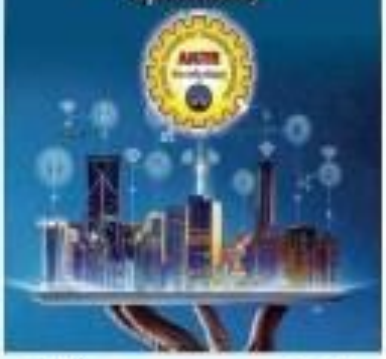
ISI-6, RIICO Institutional Area, Sitapura, Jaipur
www.pce.poornima.org

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

Artificial Intelligence and 5G Communication Technology

December 7-12, 2020

Sponsored by



Organized by
Department of
Electronics & Communication Engineering

POORNIMA
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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 mammoth 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 own 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 PIO/FN/NRI/Gulf students & recognized as centre of excellence by RNI
- 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/DIB 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 M2M (M2) Network
- Cross-Layer Solutions for 5G and Beyond
- Security Issues 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 Maloo**
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

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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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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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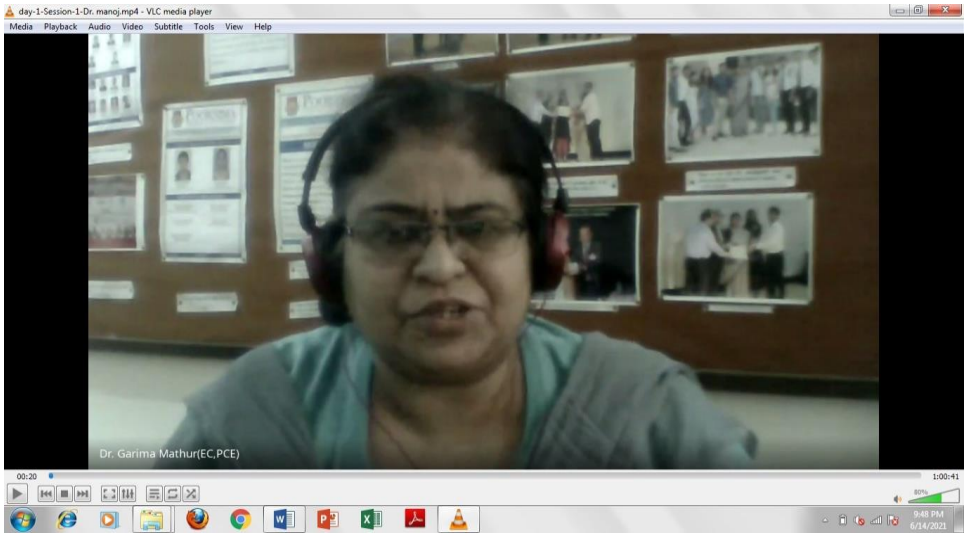
Day 1: 7 December 2020:

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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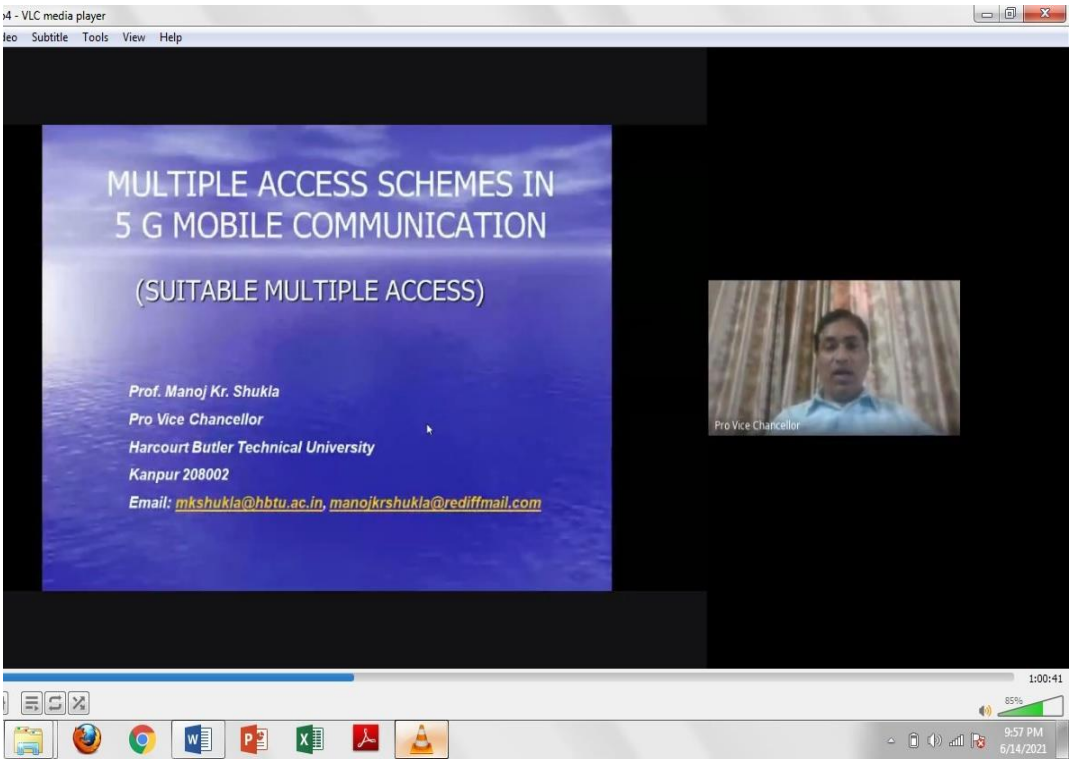
Expert Talk-1

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.



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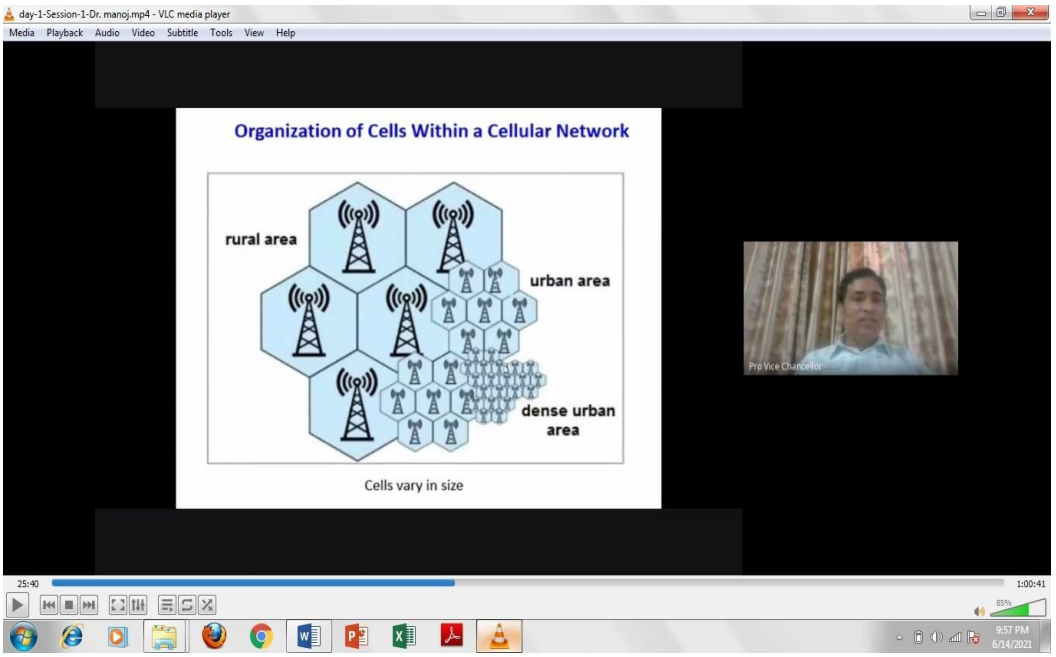

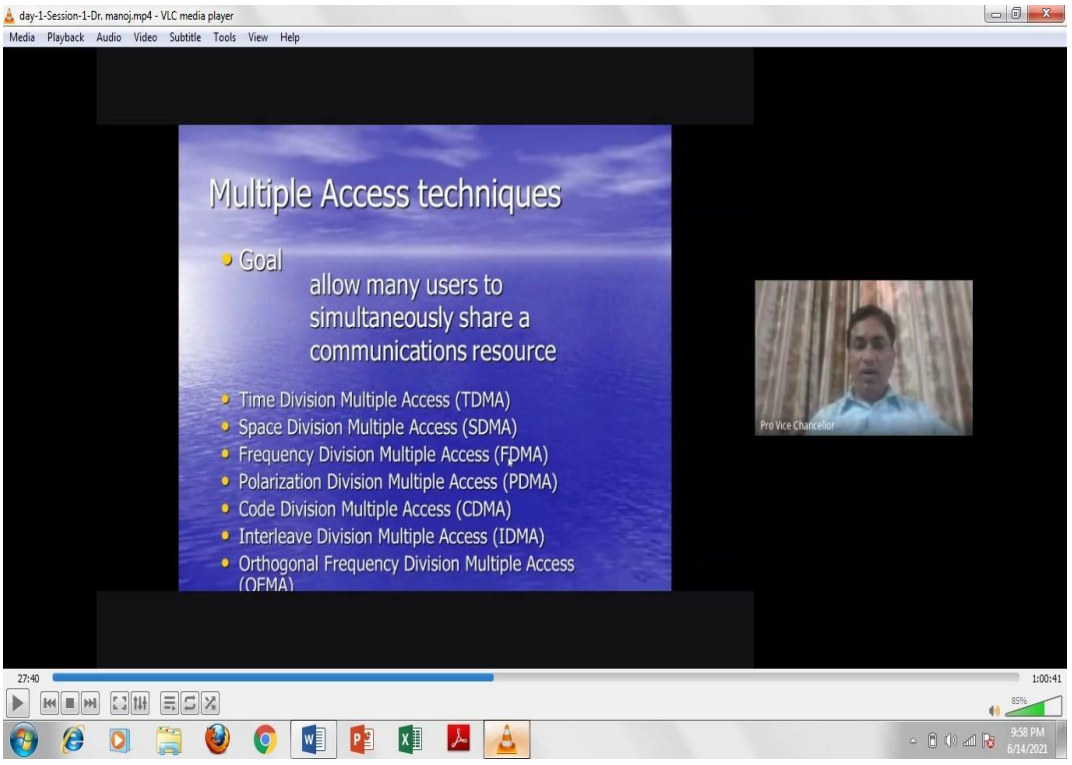

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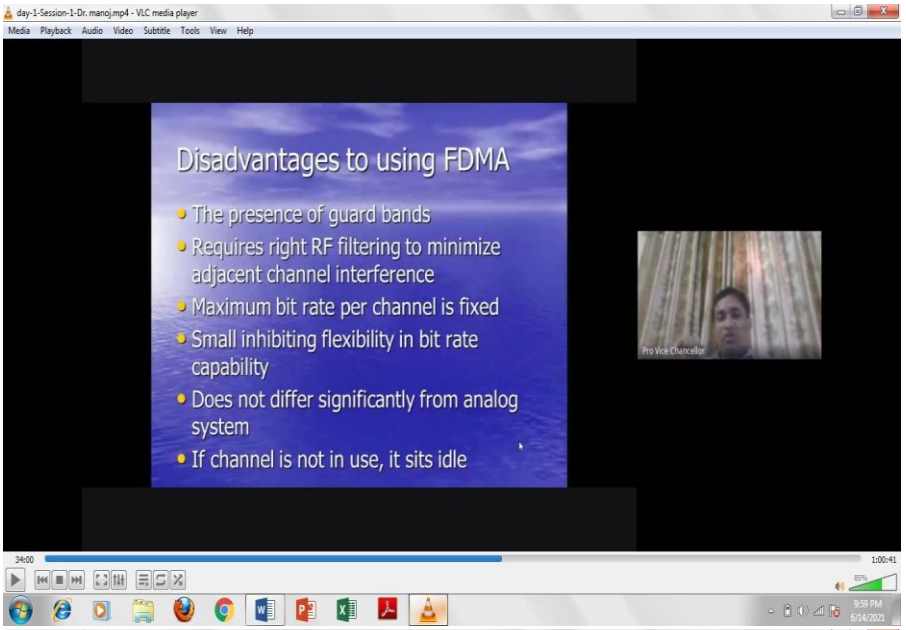

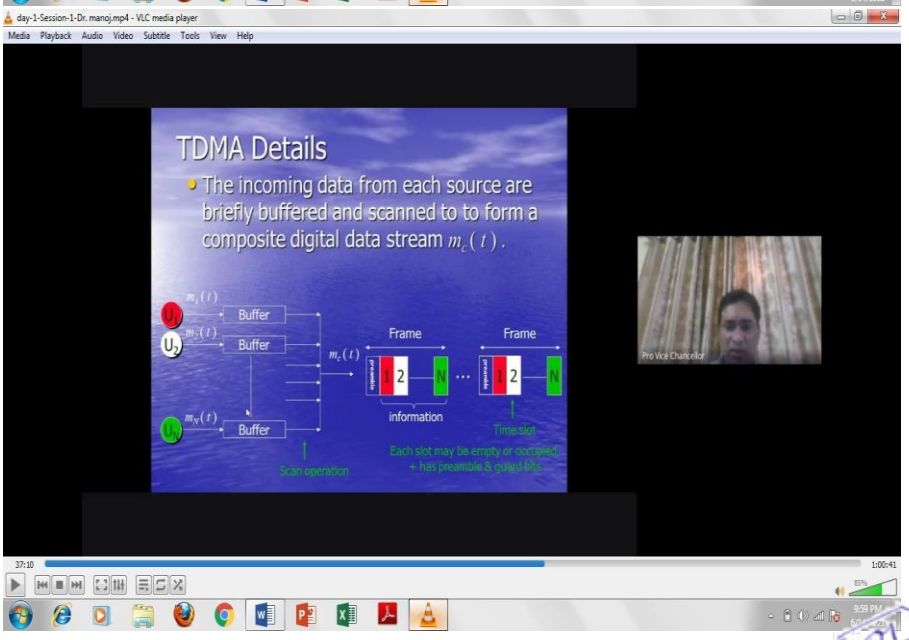

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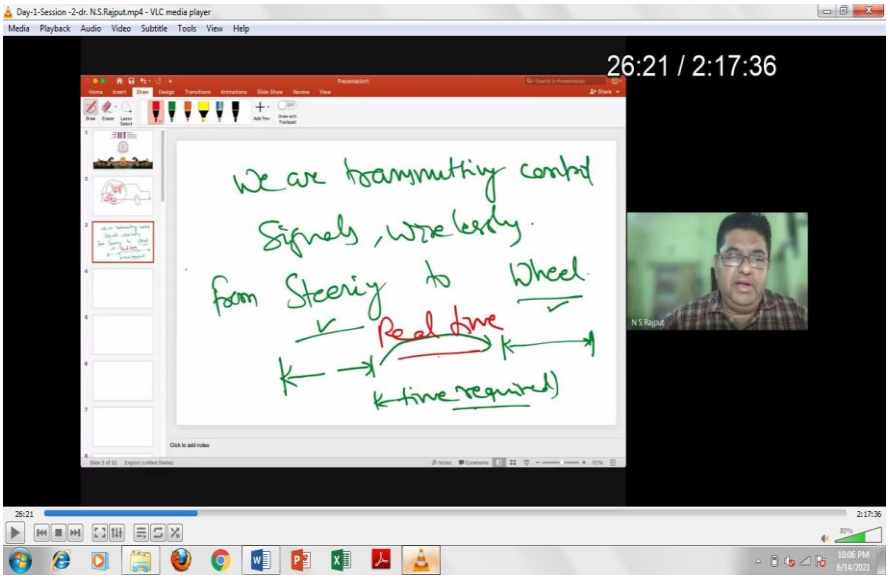
Expert Talk-2

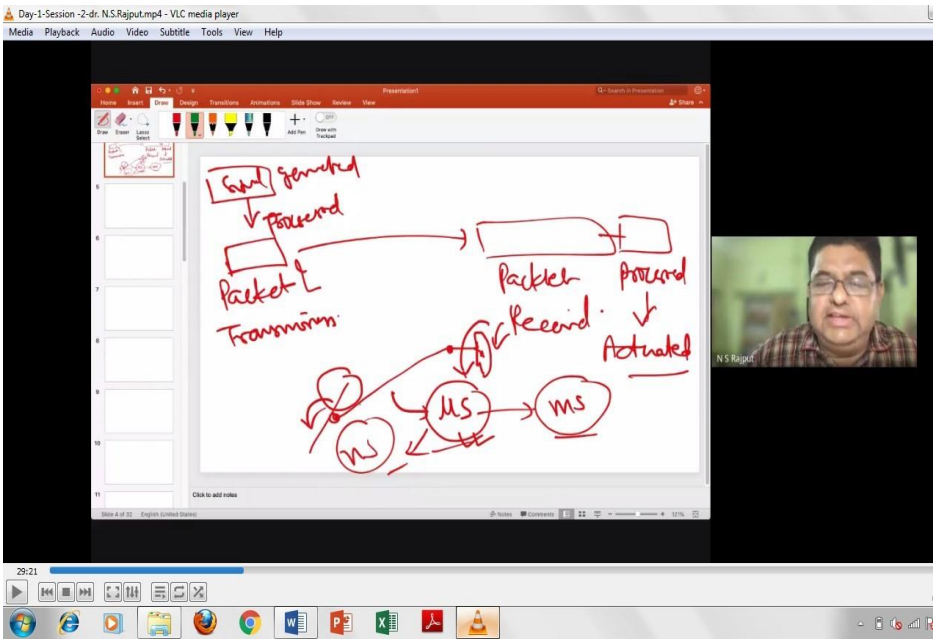
Topic: Time Sensitive Networking (Tsn): It'S Context and Standards in Industry 4.0 And 5G

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

Venue: online

Memories of event





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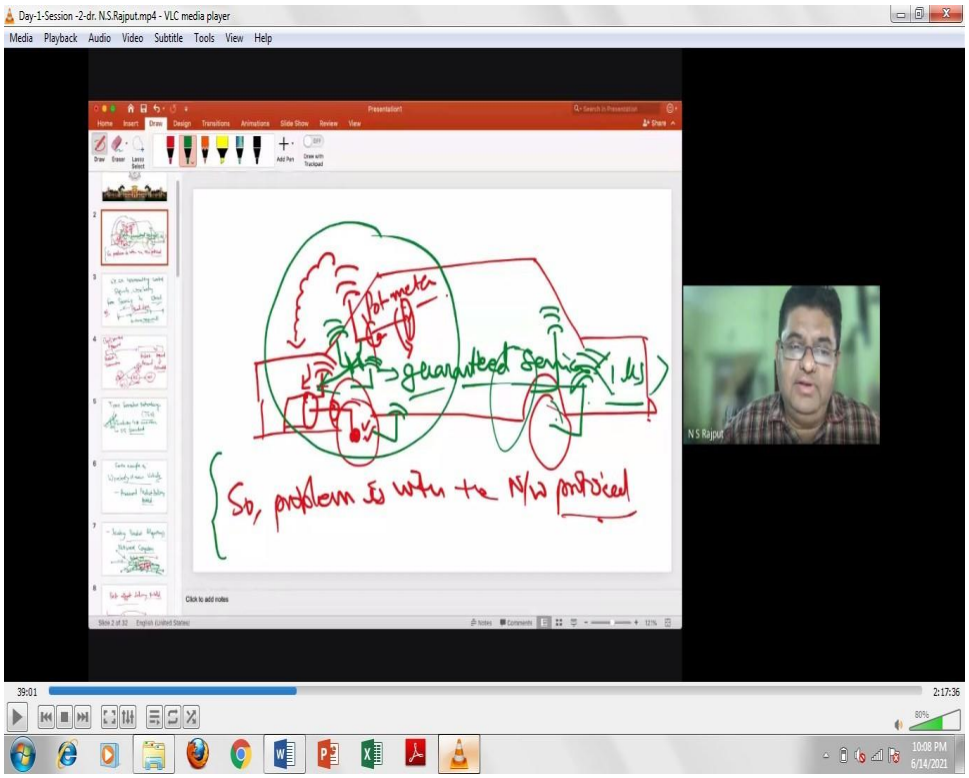

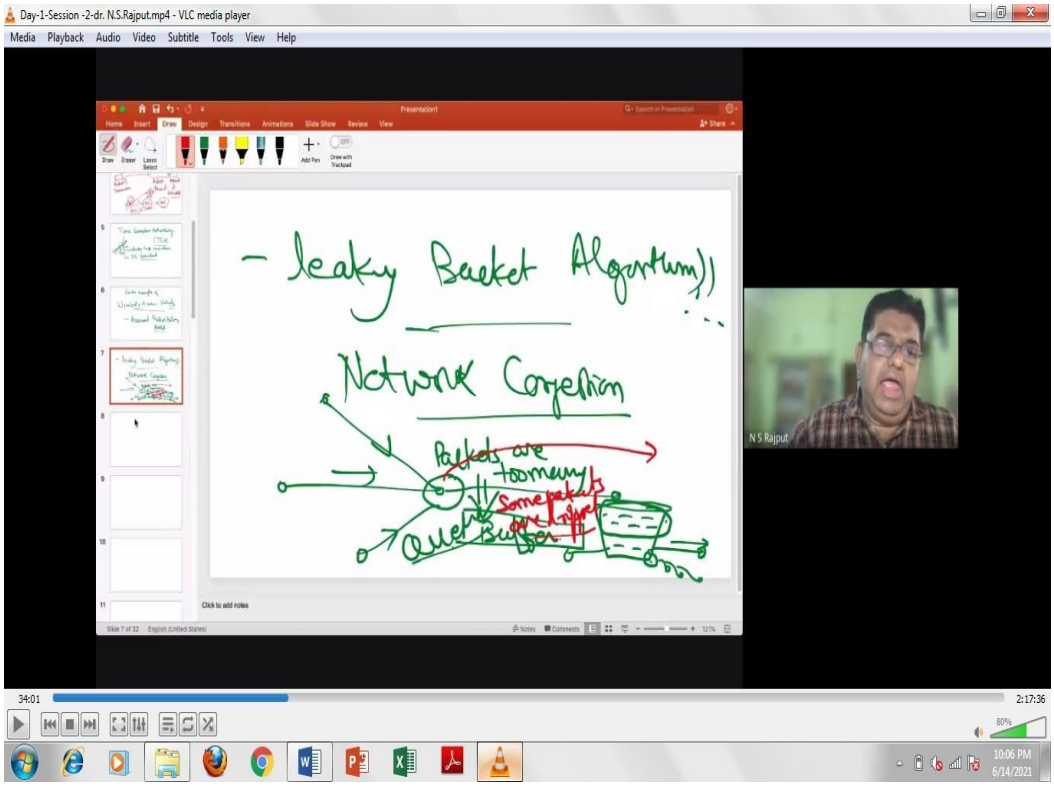

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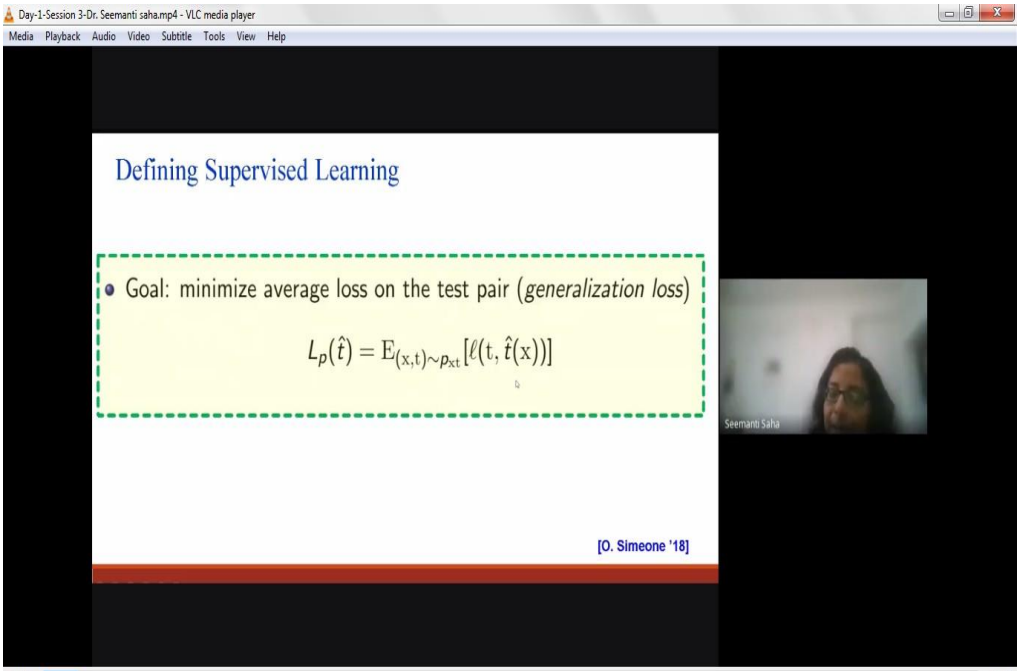
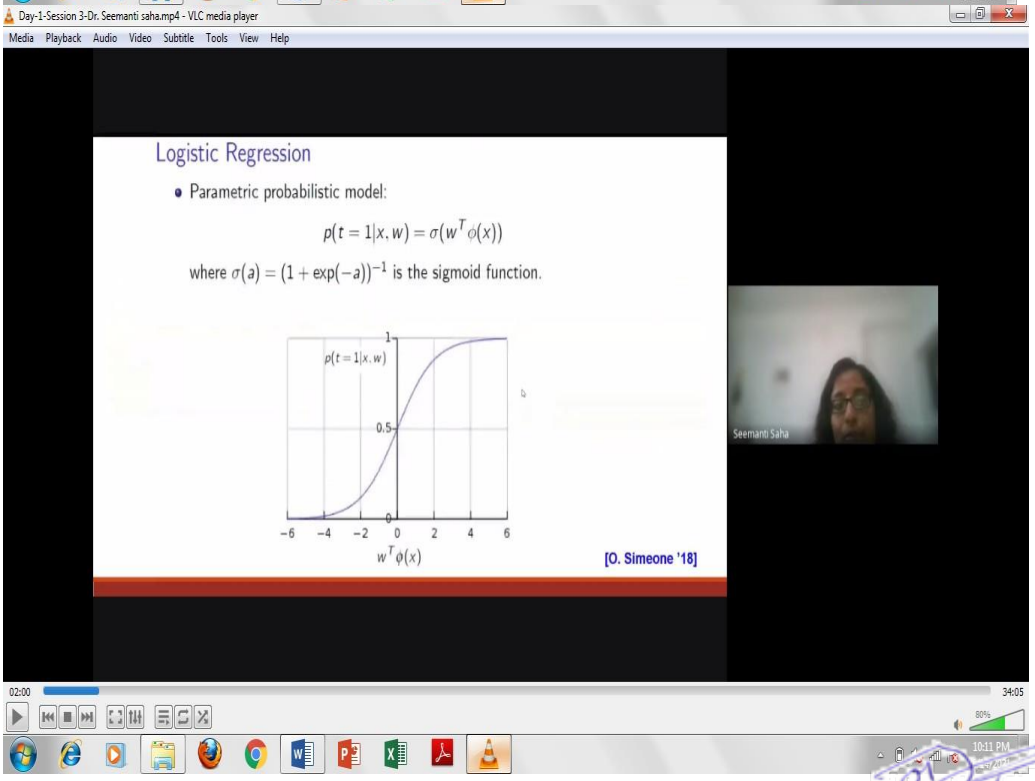
Expert Talk-3

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

Resource Person: Dr. Seemanti Saha, Assistant Professor

Venue: online





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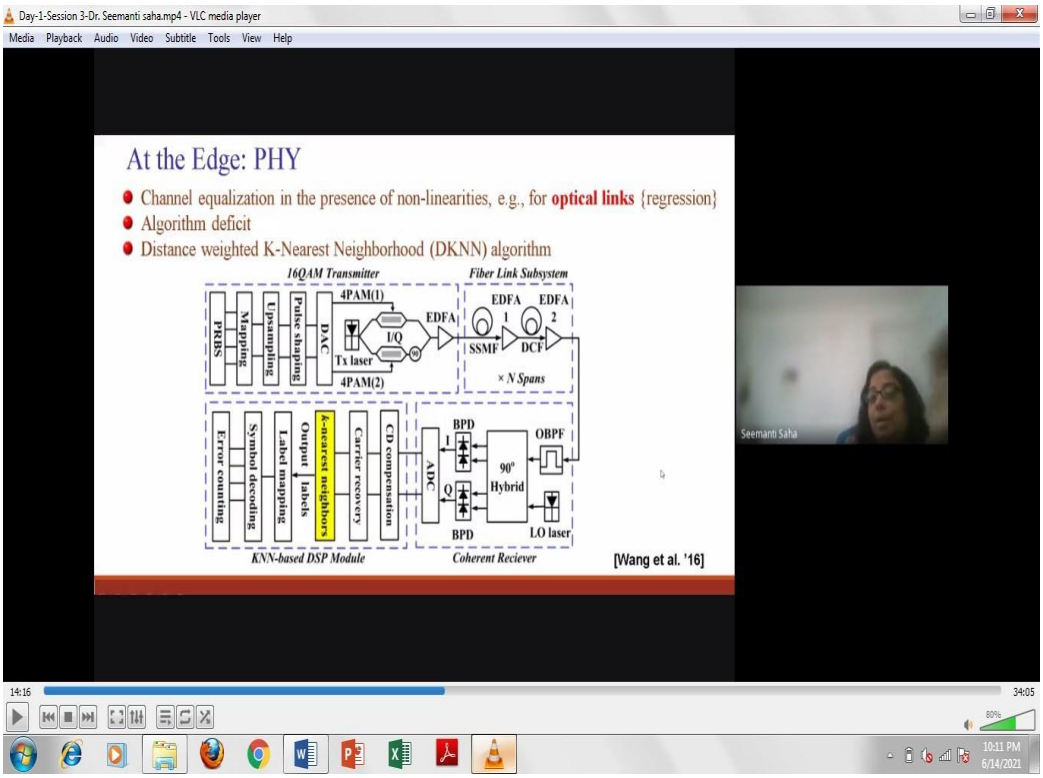

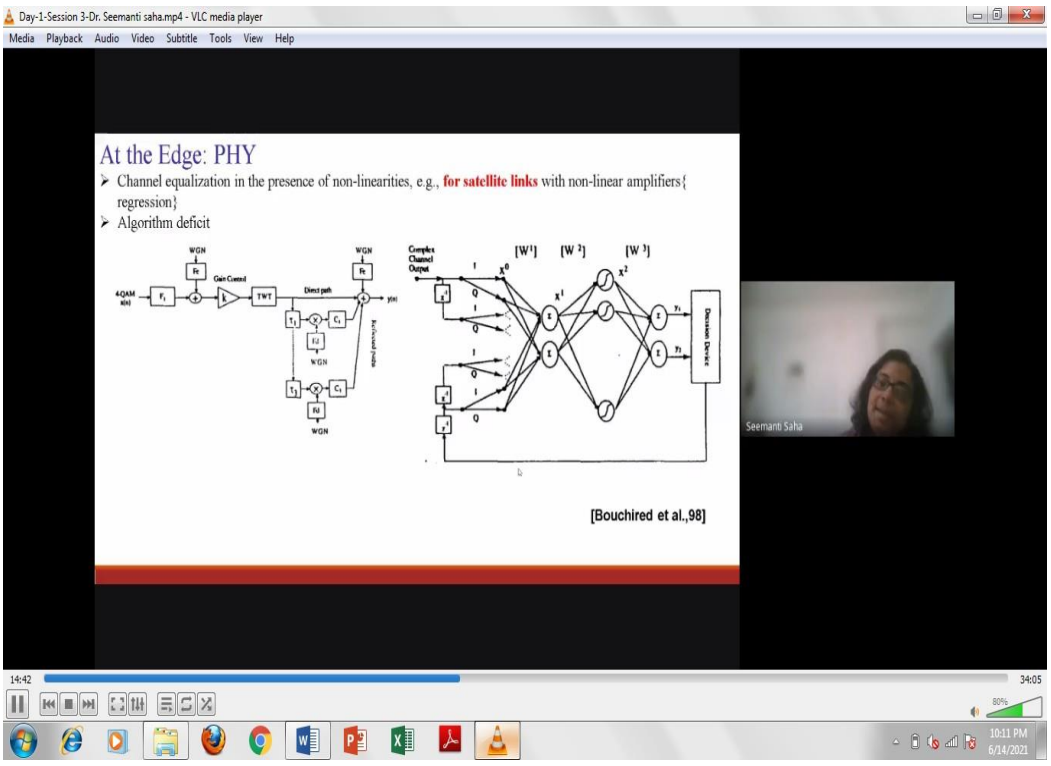

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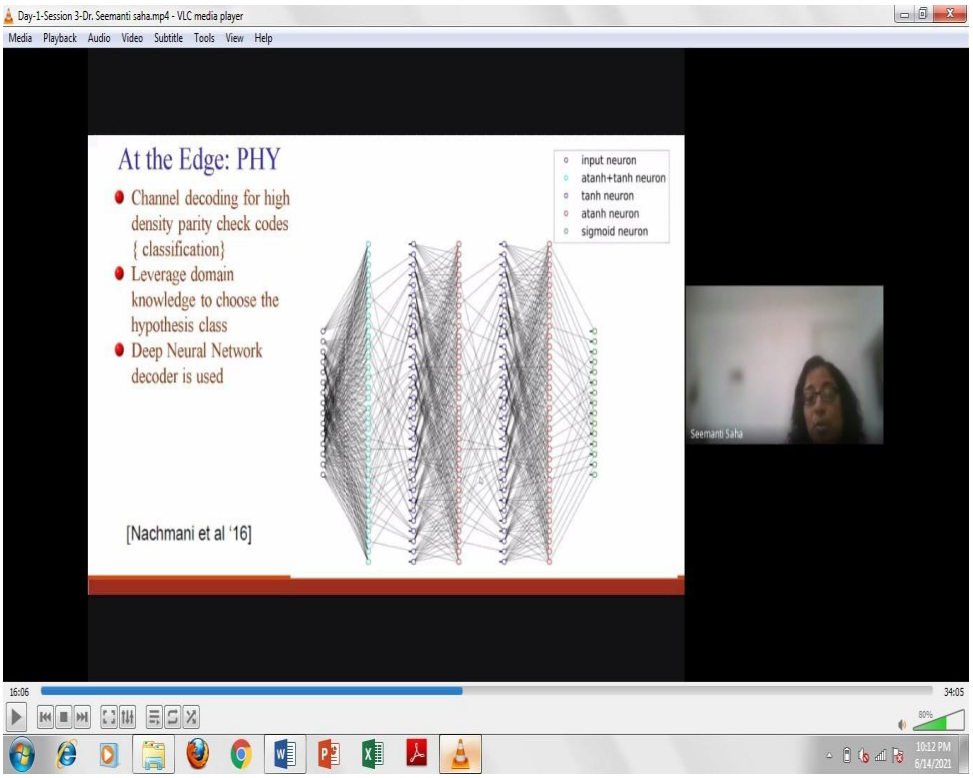
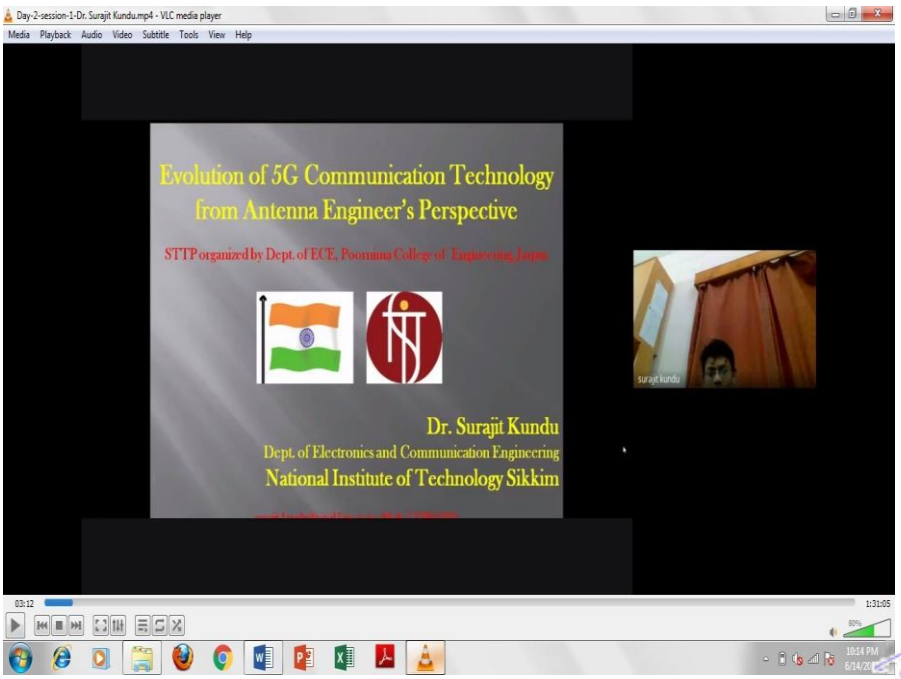


Expert Talk-4

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

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



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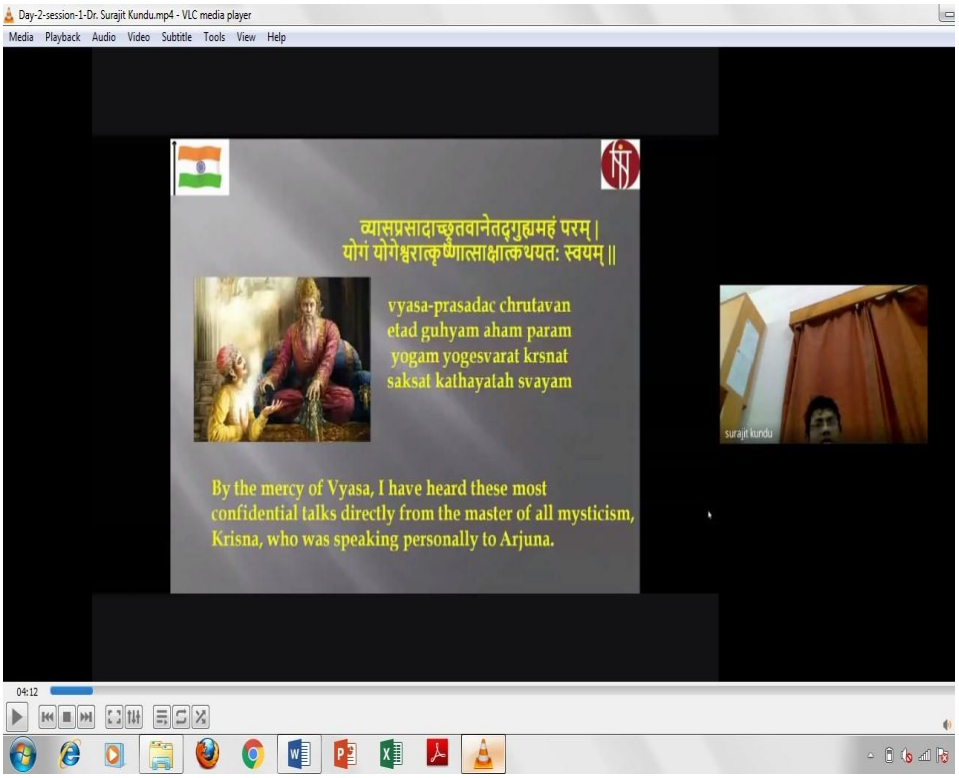

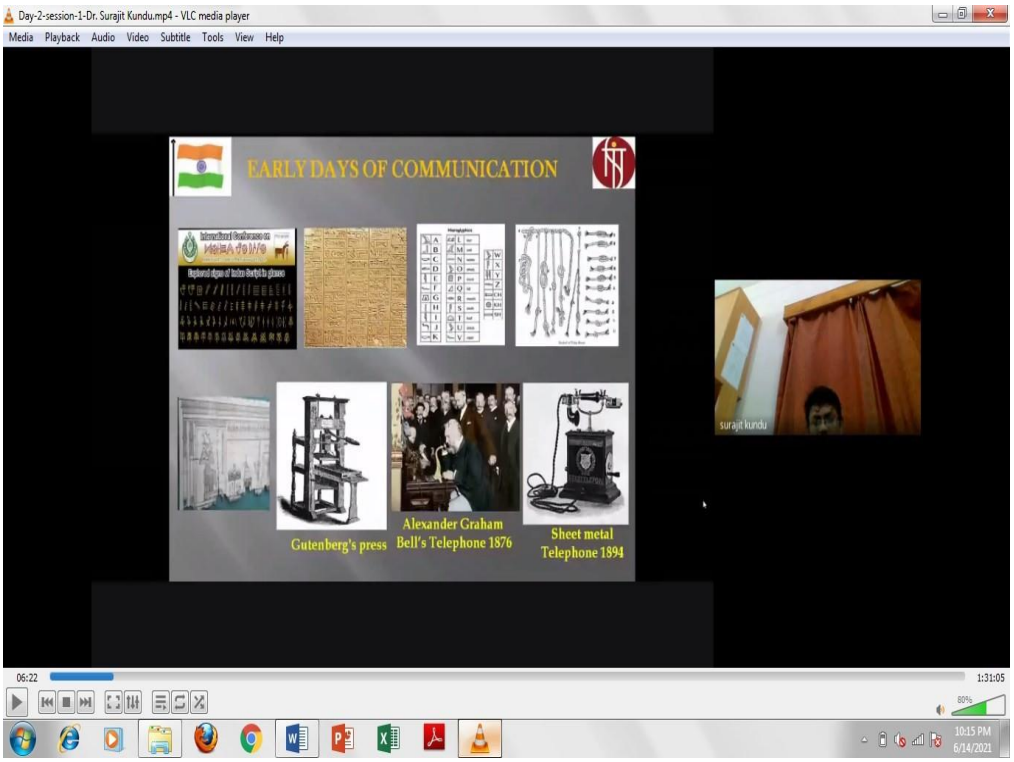

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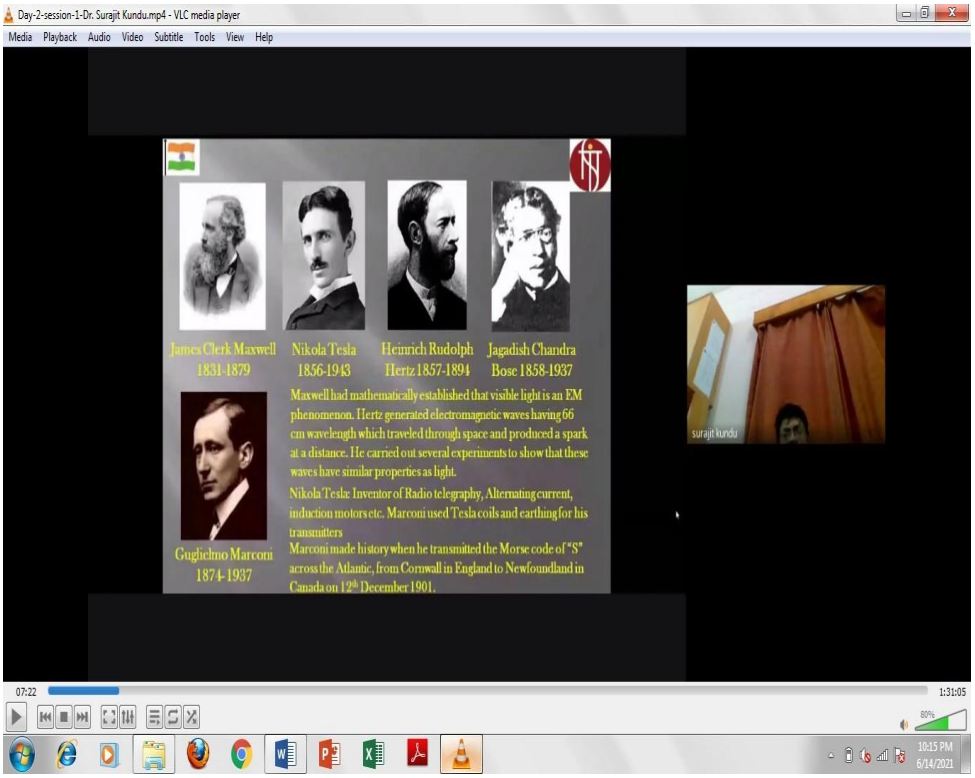

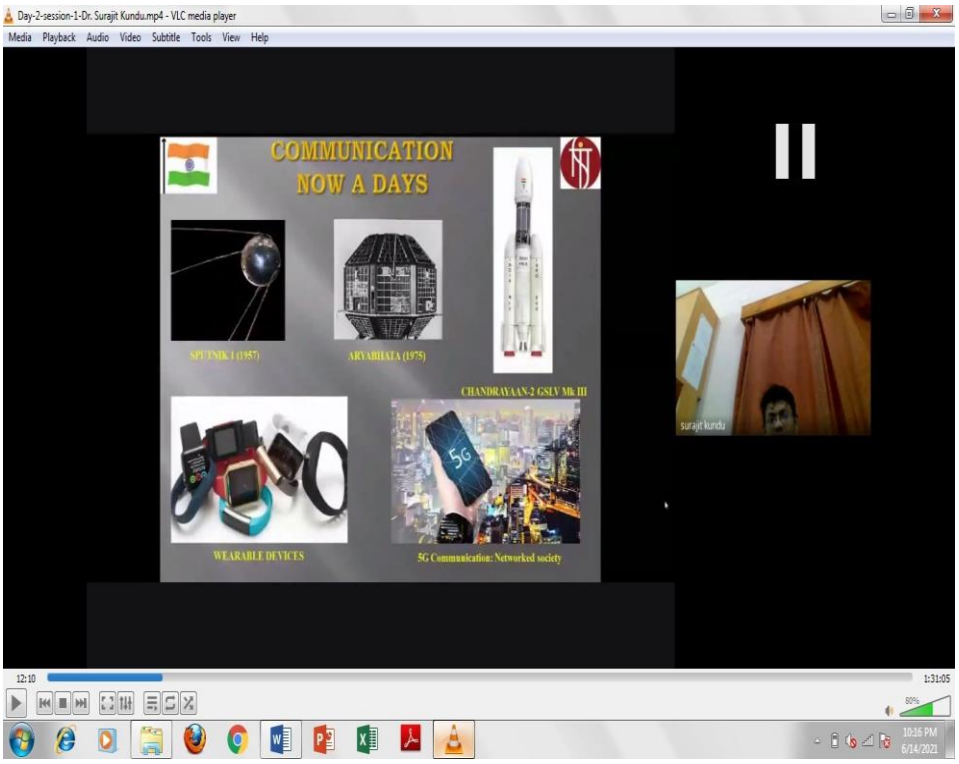

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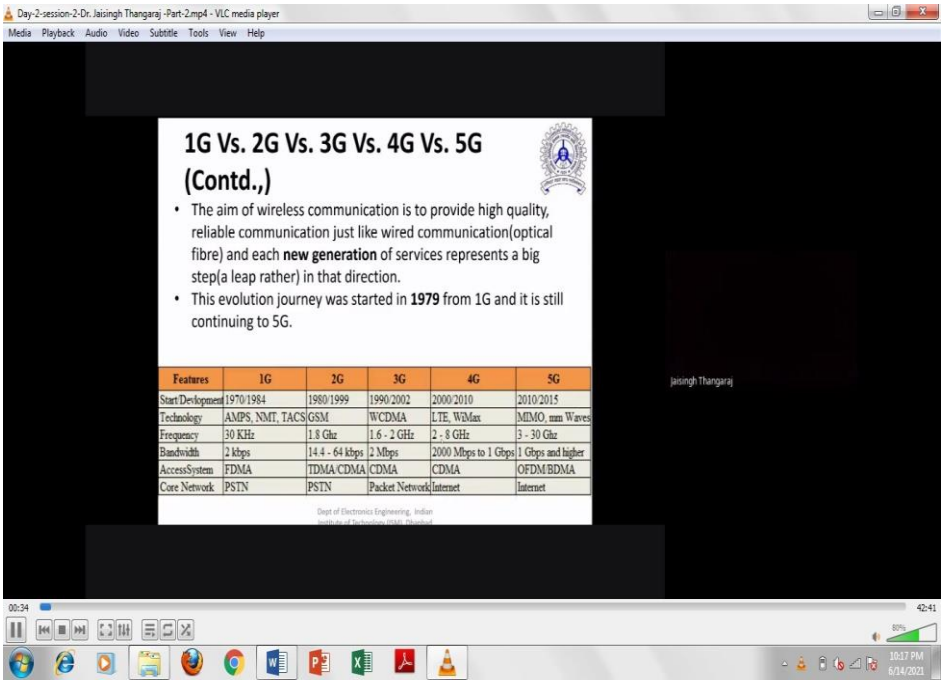
Expert Talk-5

Topic: Evolution of Telecommunication Towards 5G And Beyond

Resource Person: Dr. Jaisingh Thangaraj, Assistant Professor

Venue: online



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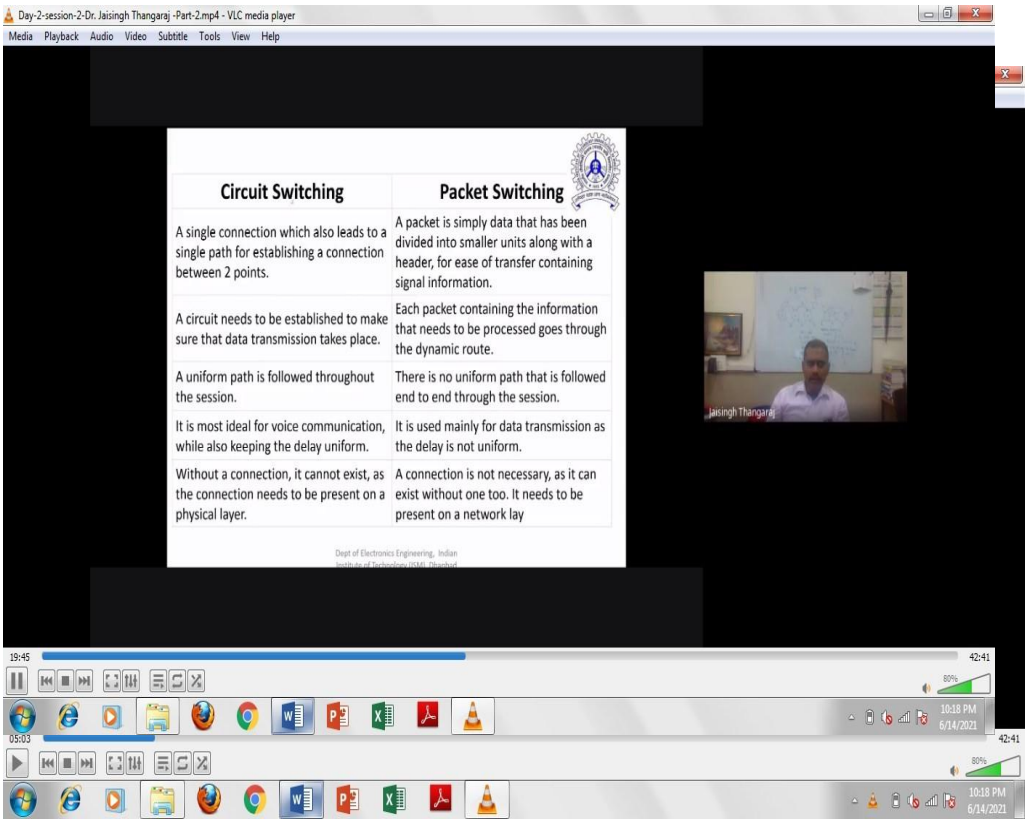

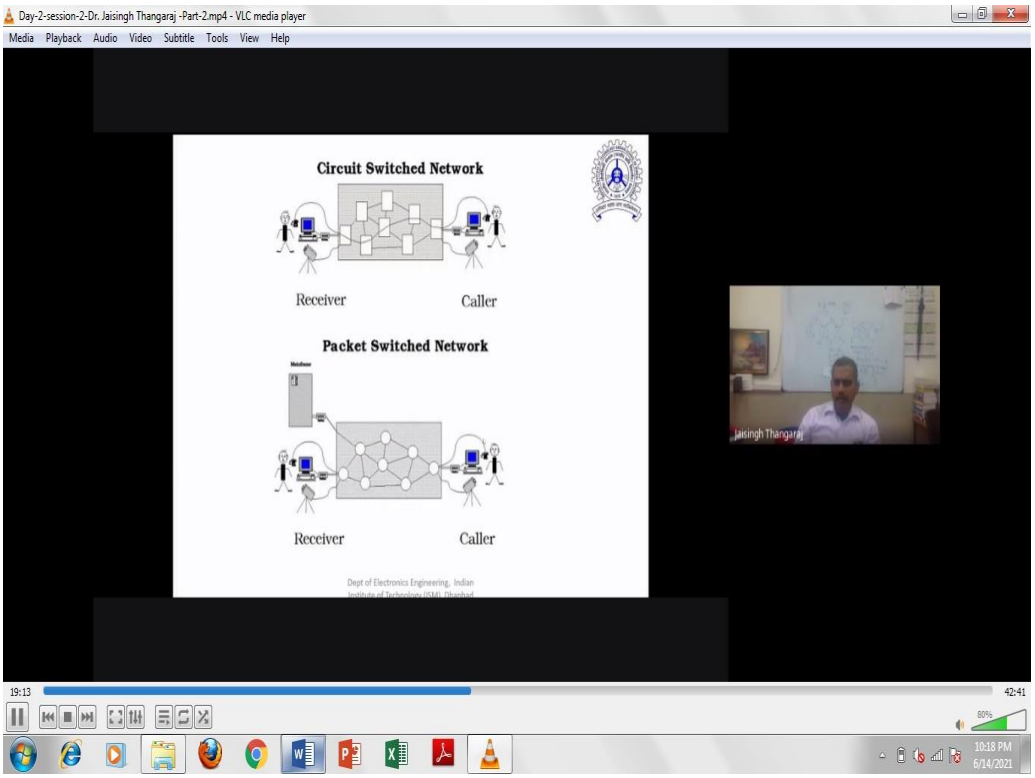

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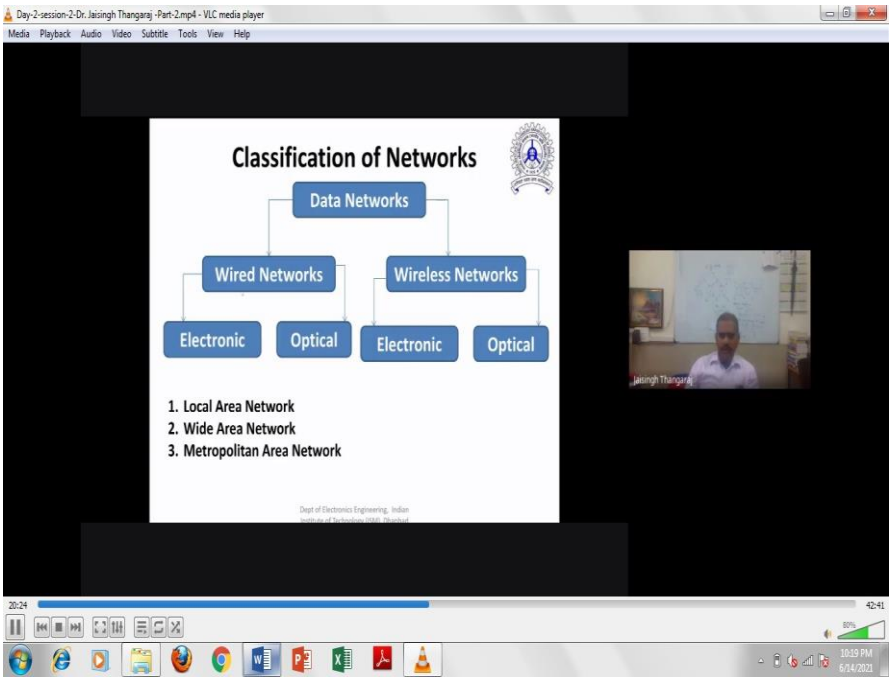

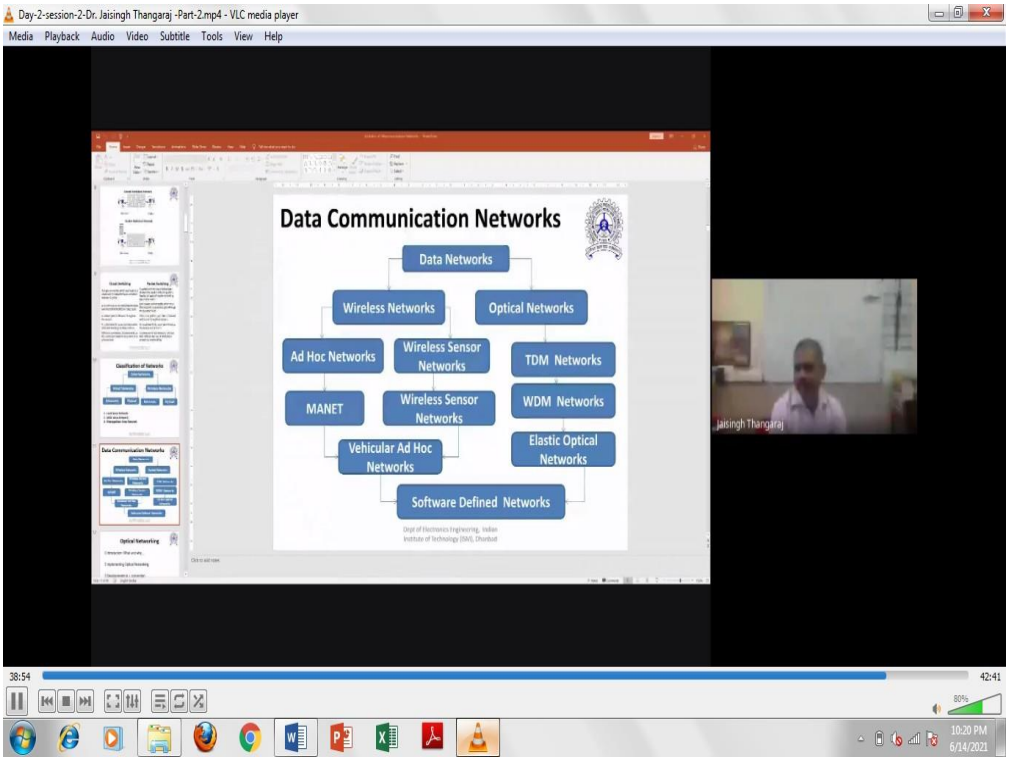

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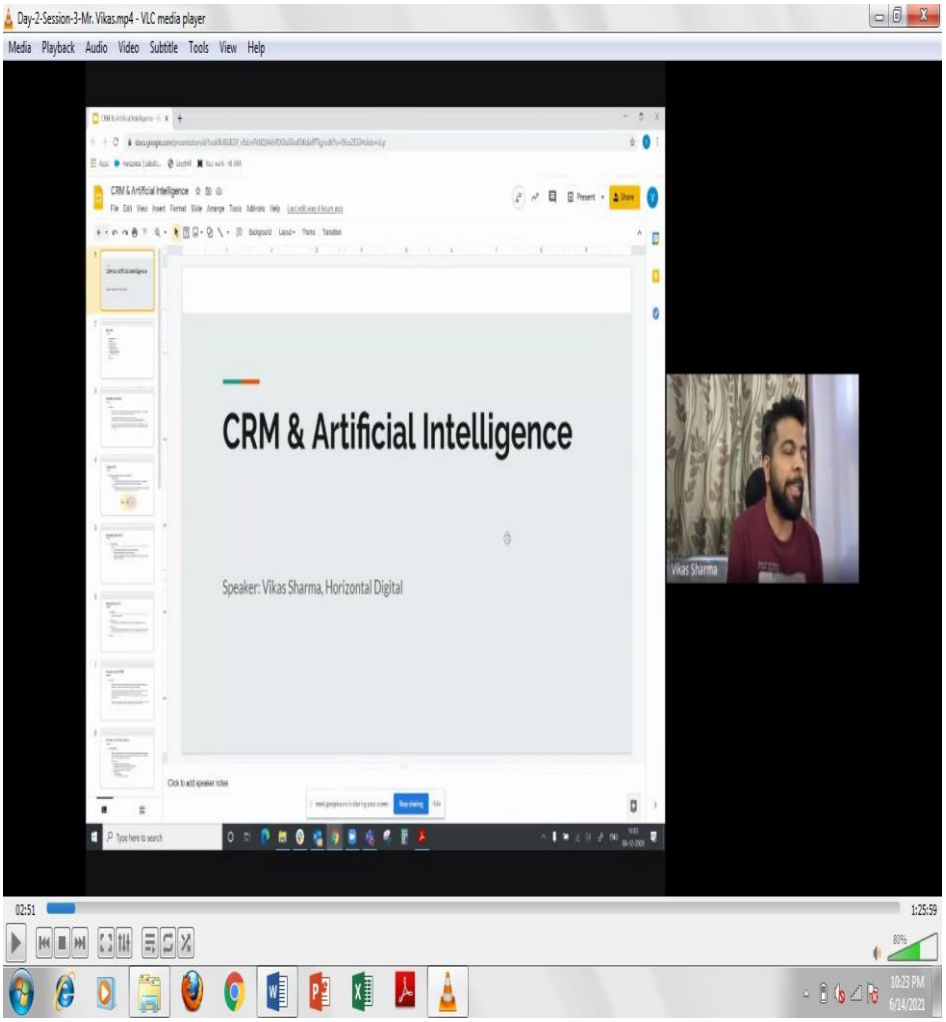
Expert Talk-6

Topic: Crm and Artificial Intelligence

Resource Person: Vikas Sharma, Salesforce Scrum Master

Venue: online



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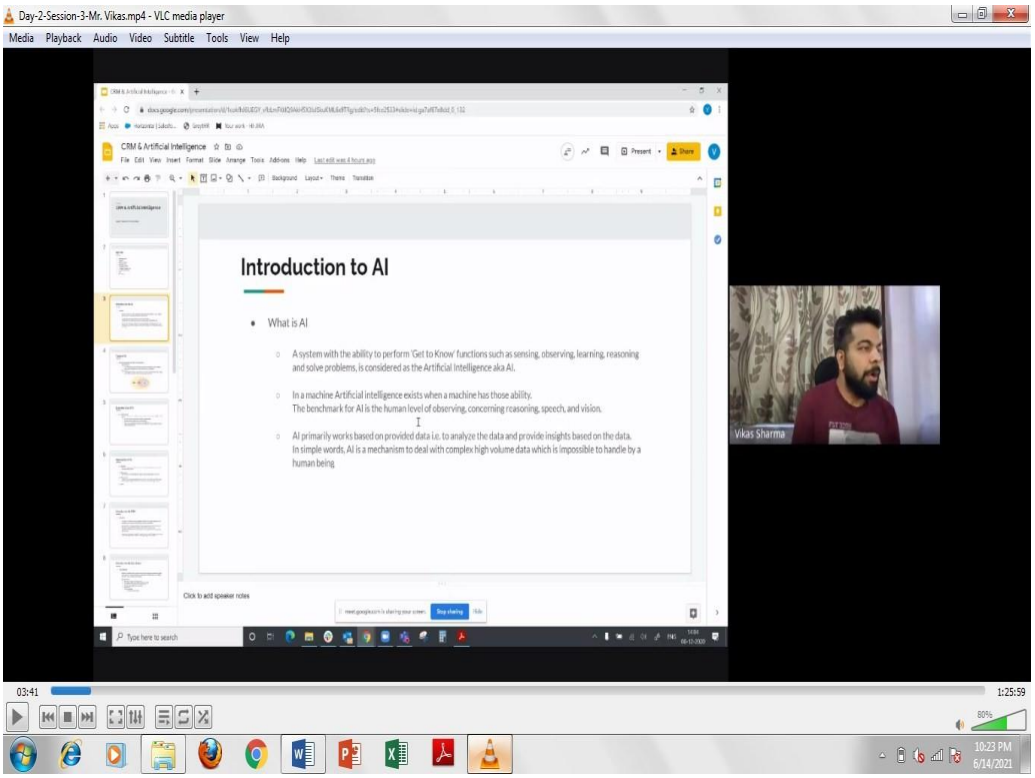

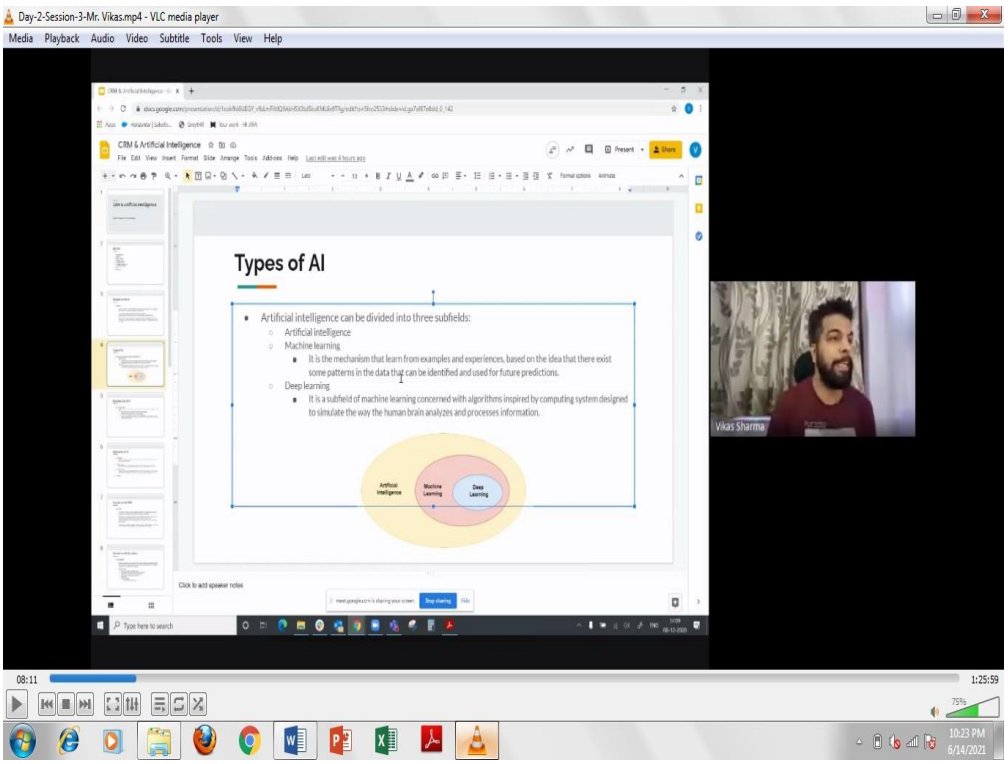

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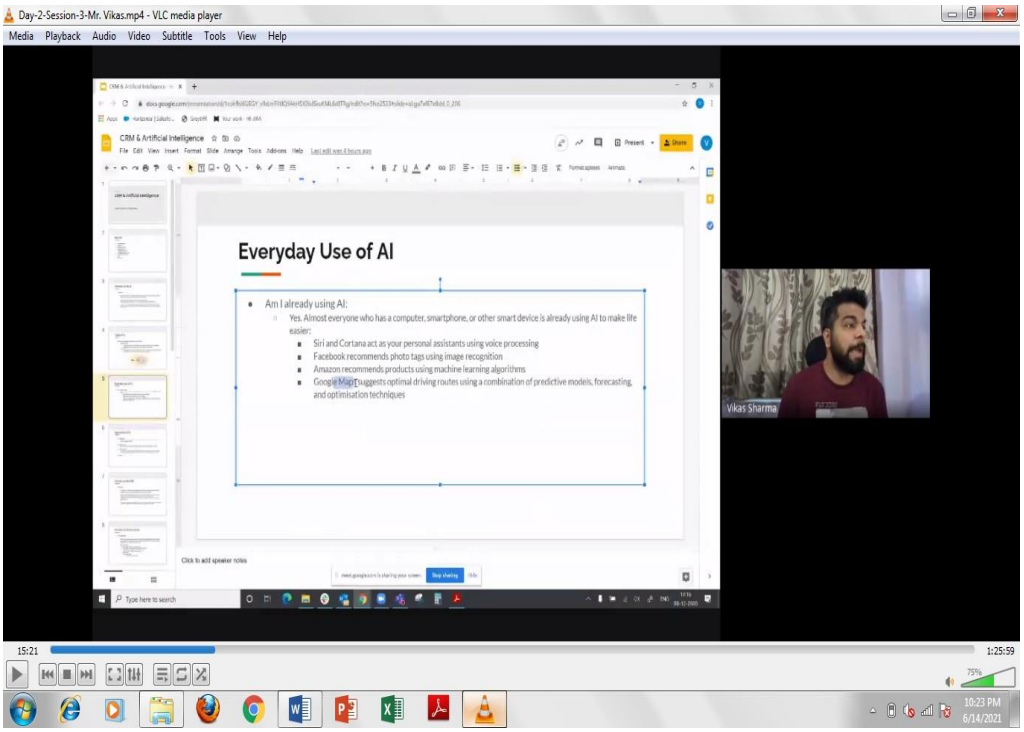

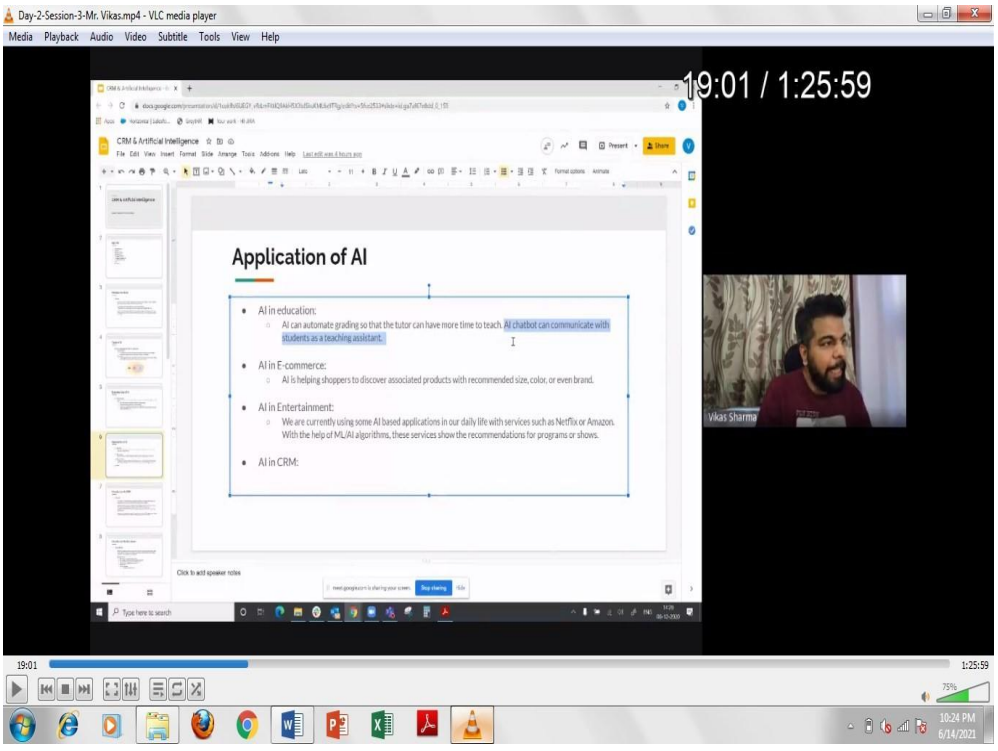

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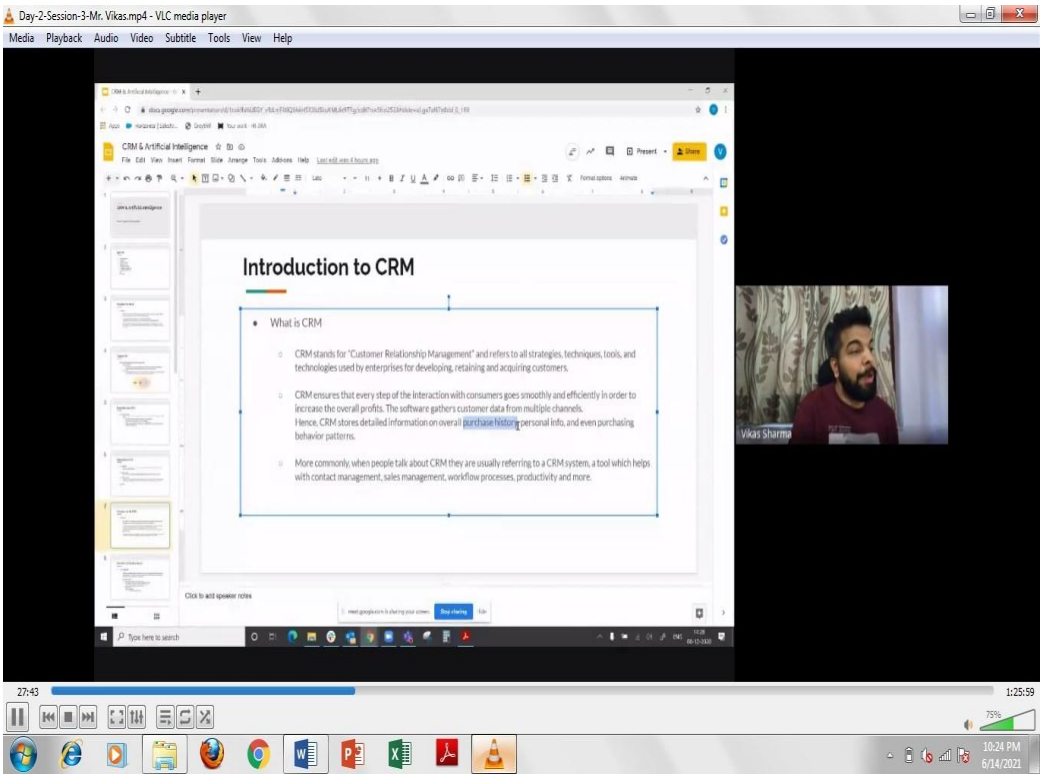
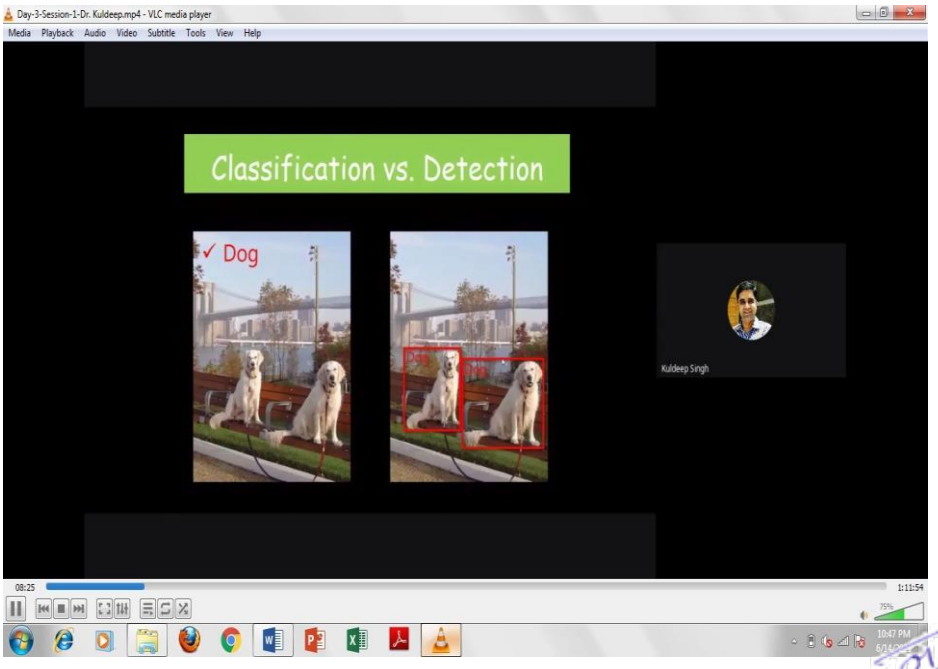


Expert Talk-7

Topic: Convolutional Neural Network for Computer Vision

Resource Person Dr. Kuldeep Singh, Assistant Professor

Venue: online



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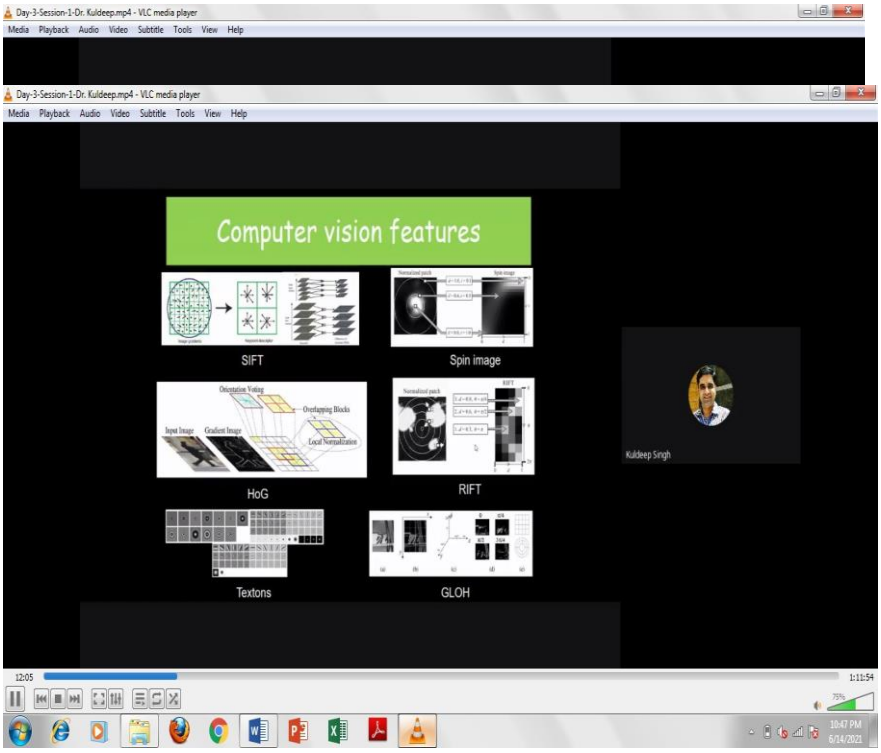

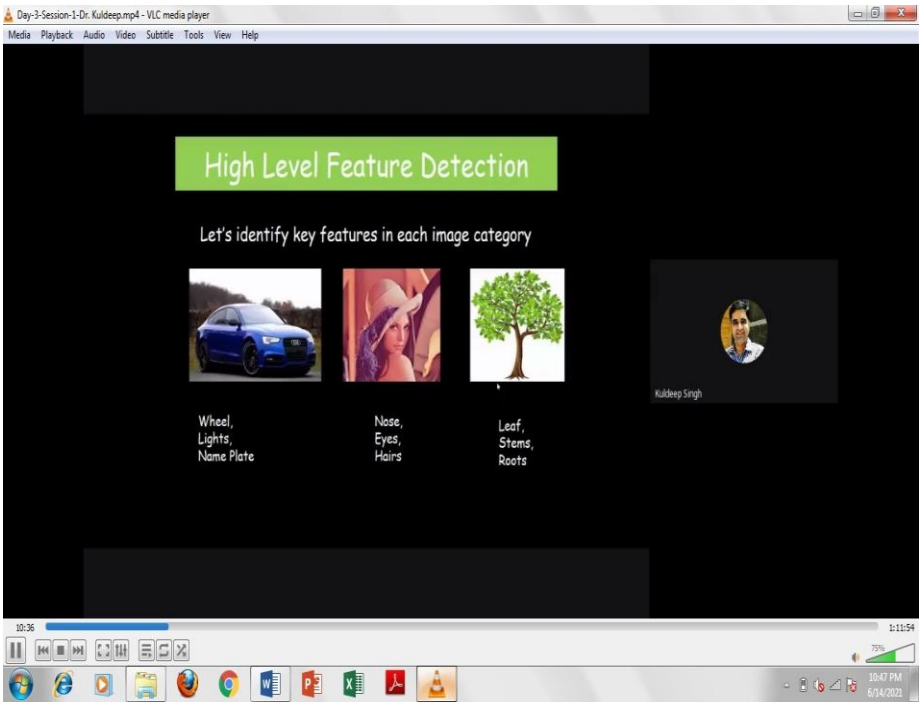

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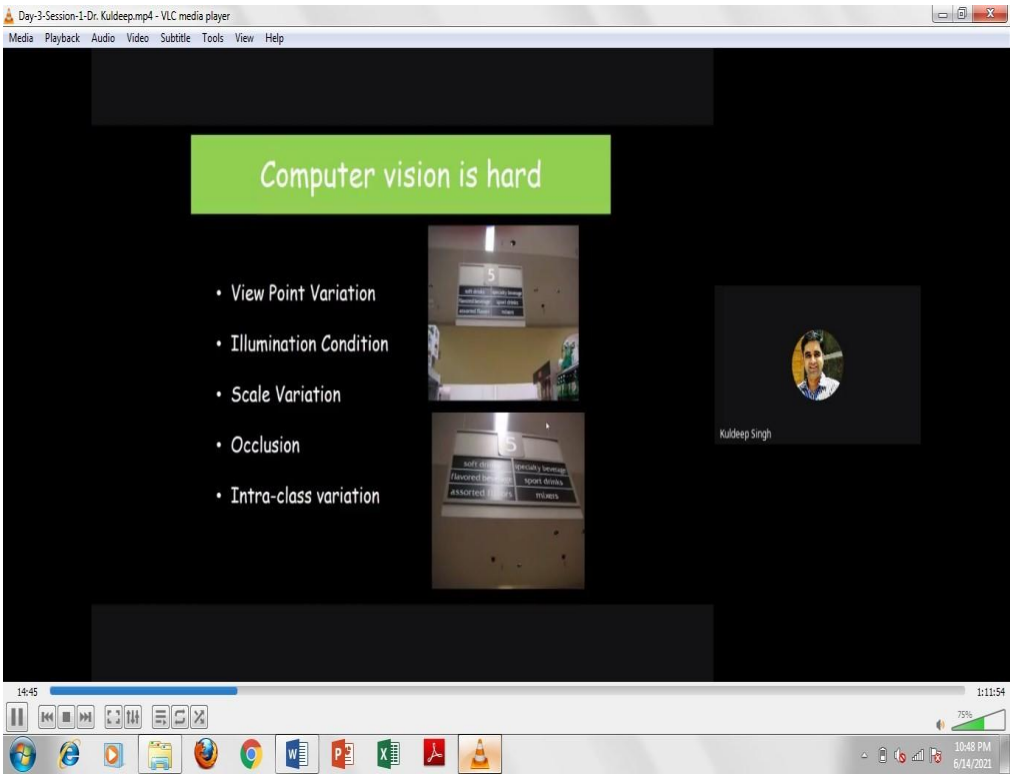
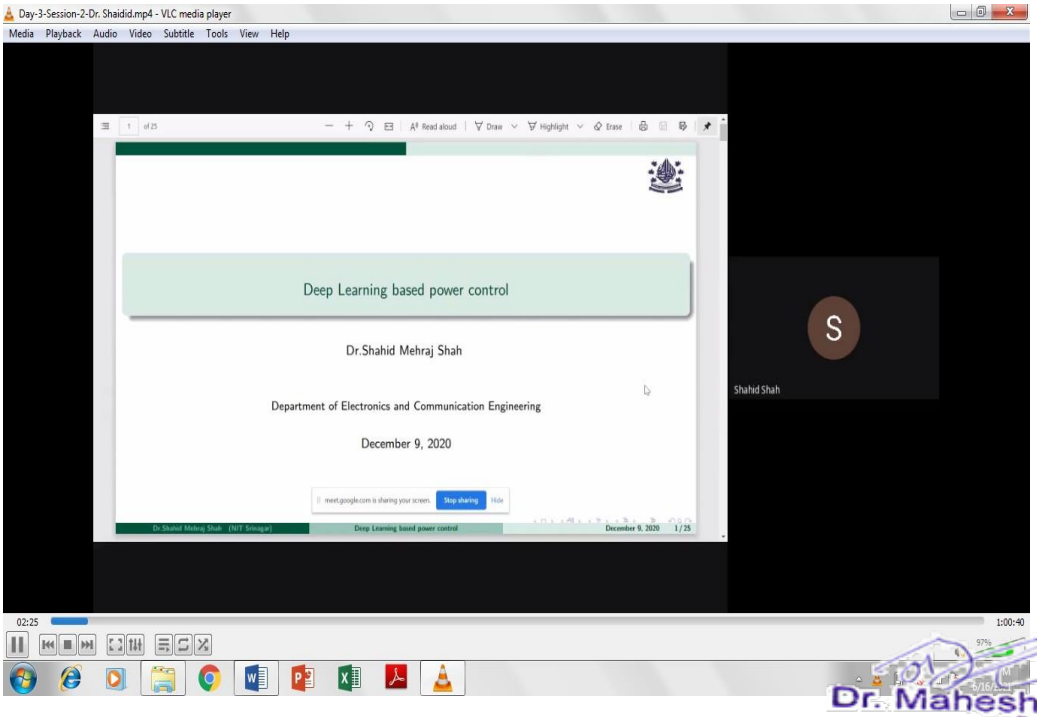


Expert Talk-8

Topic: Artificial Intelligence Based Power Control in B5G Network

Resource Person: Dr. Shahid Mehraj Shah, Assistant Professor

Venue: online



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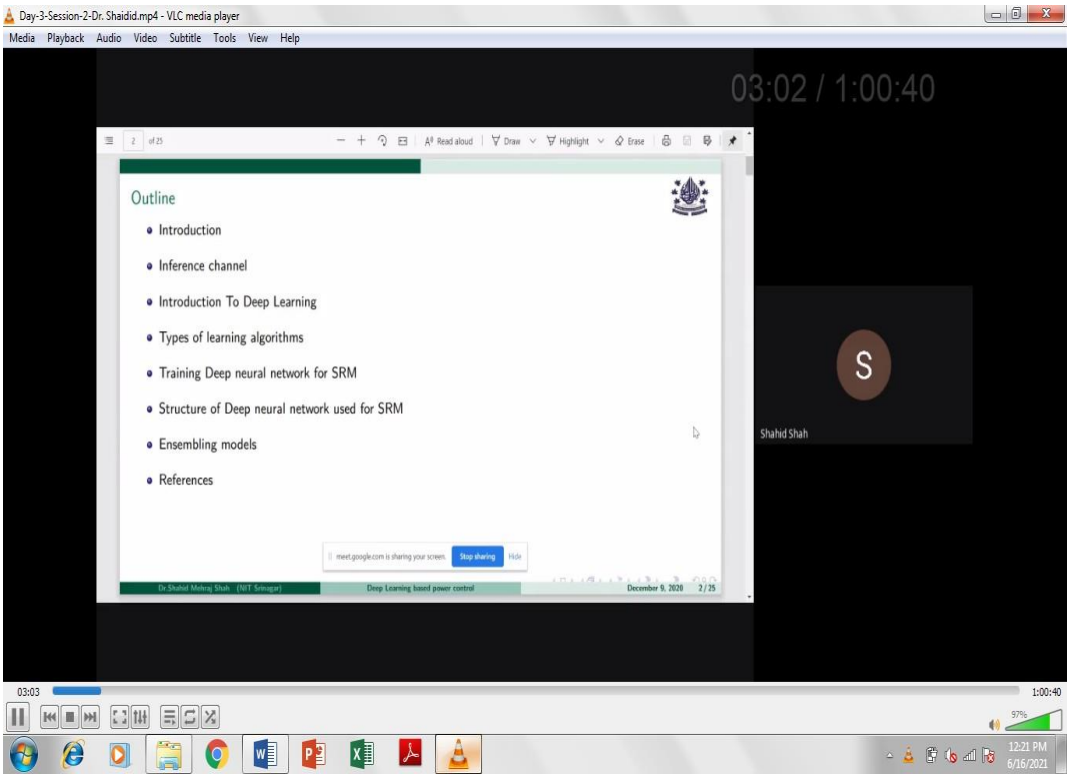

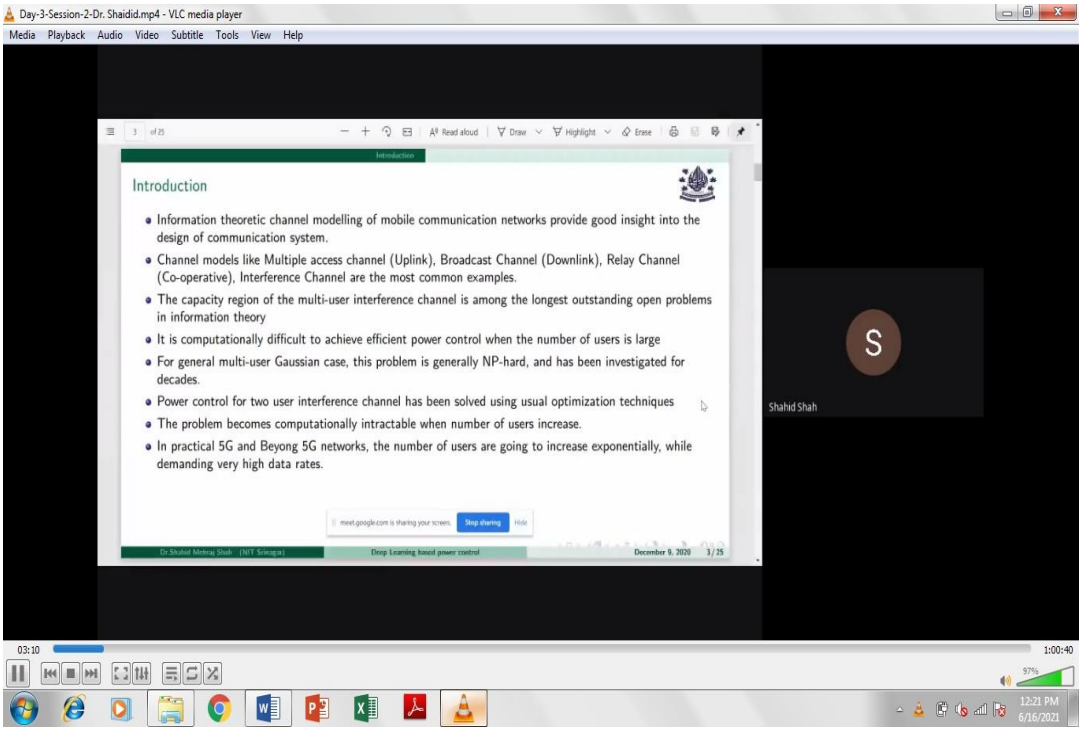

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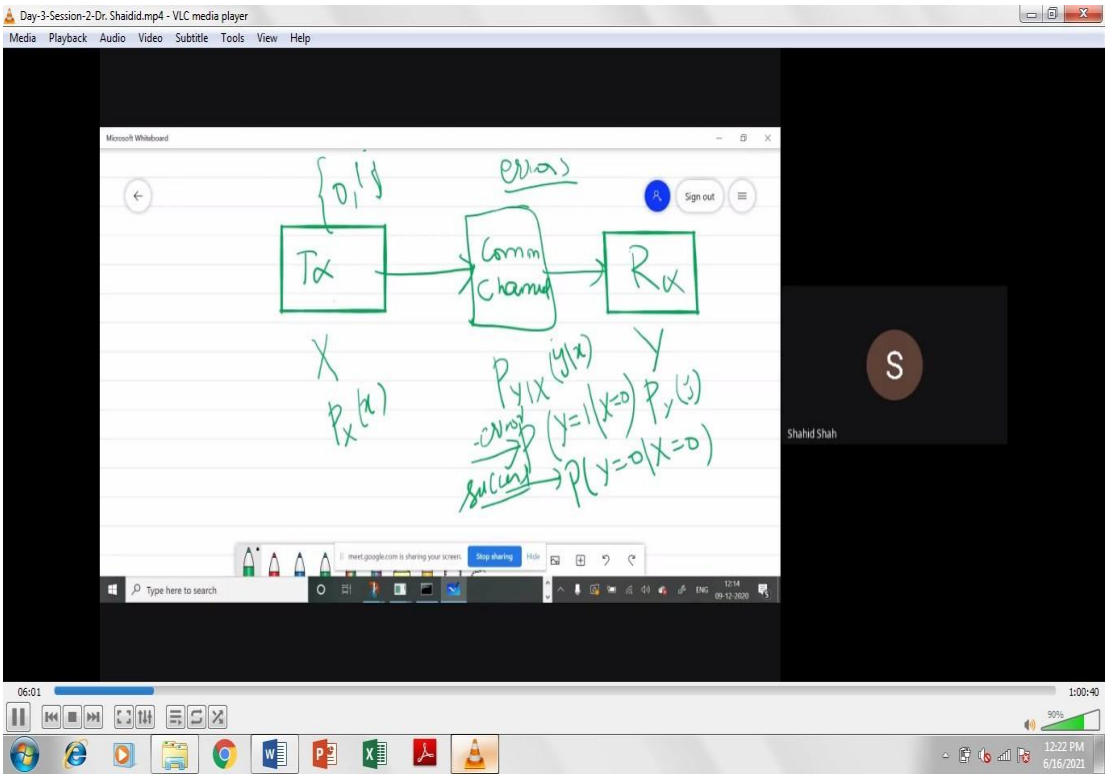

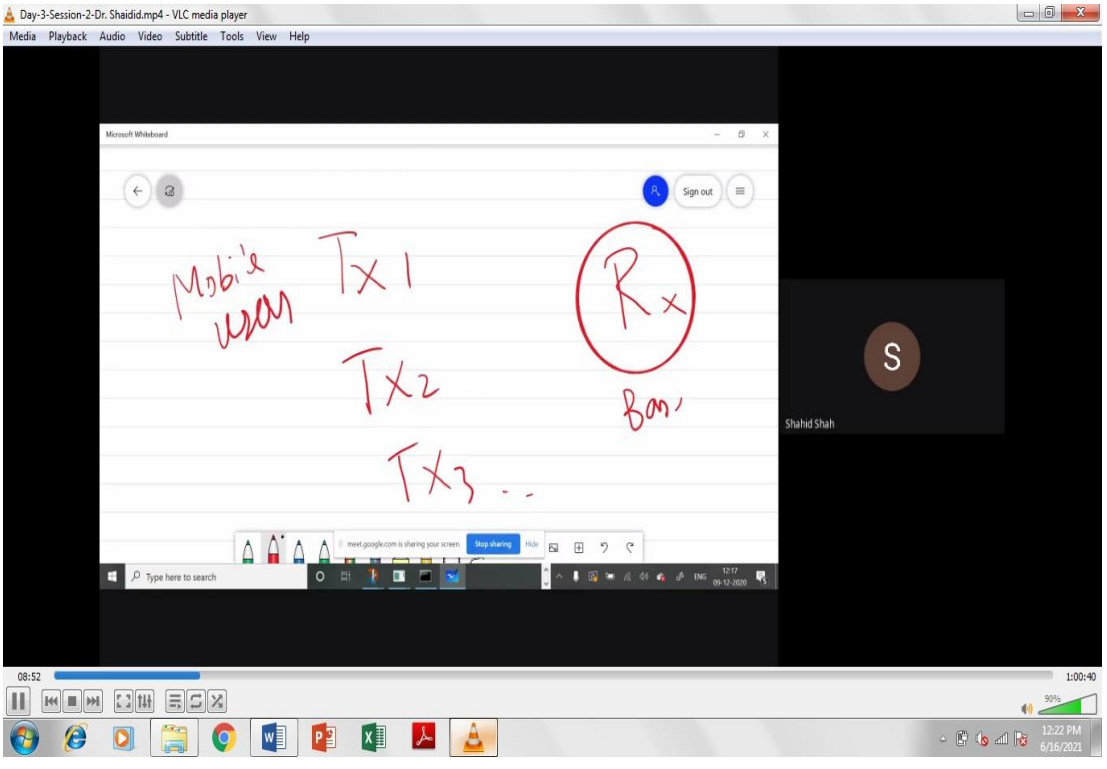

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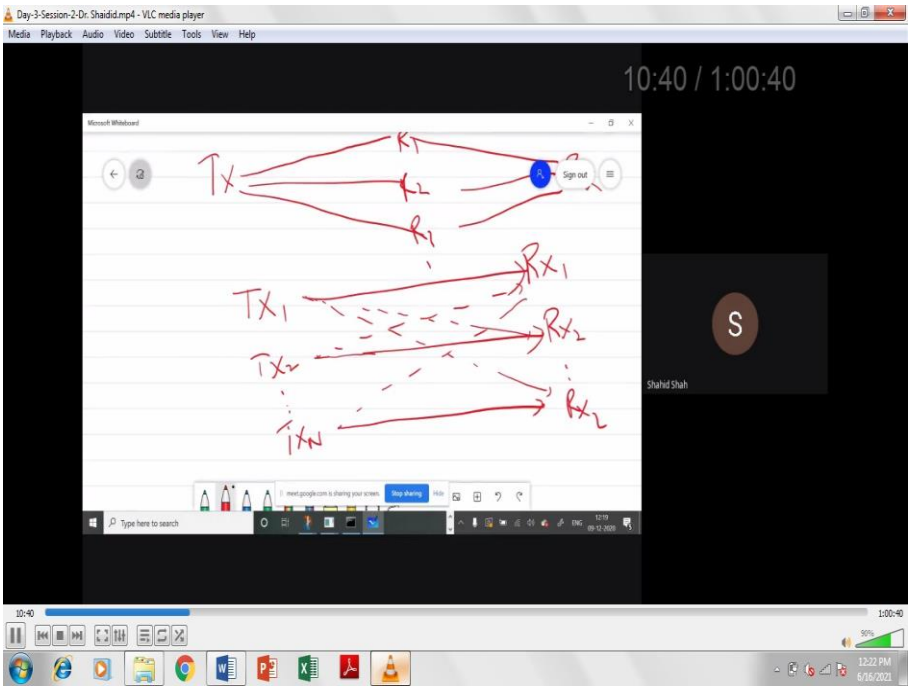
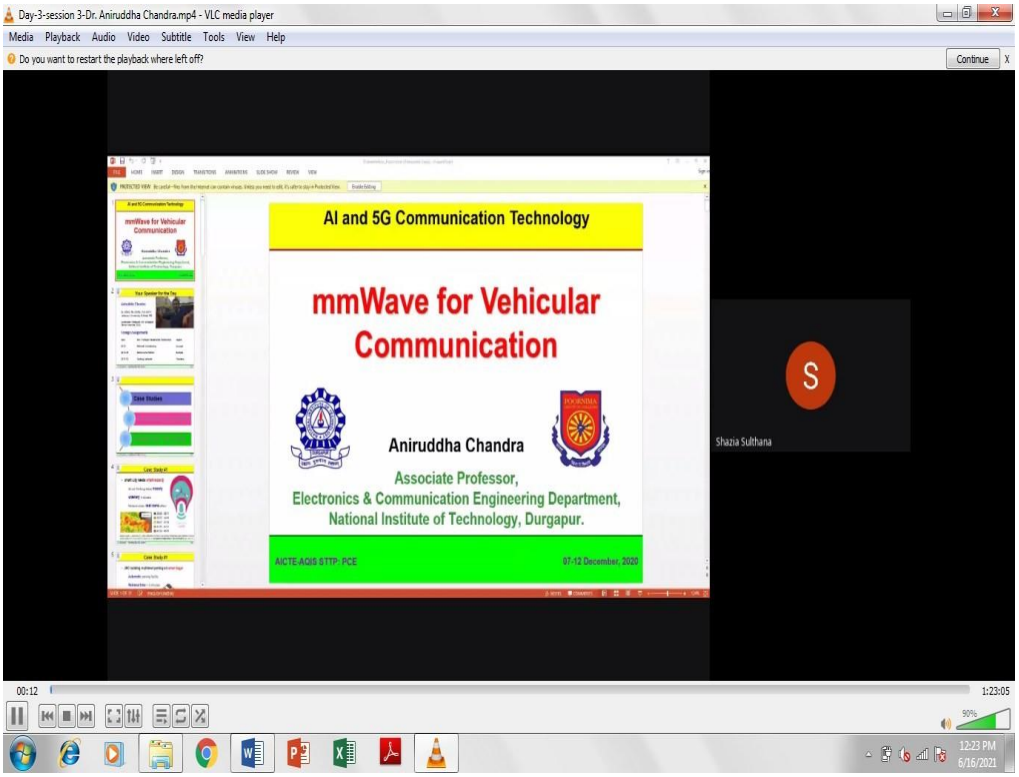


Expert Talk-9

Topic: Mmwave for Vehicular Communication

Resource Person: Dr. Aniruddha Chandra,

Associate ProfessorVenue: online



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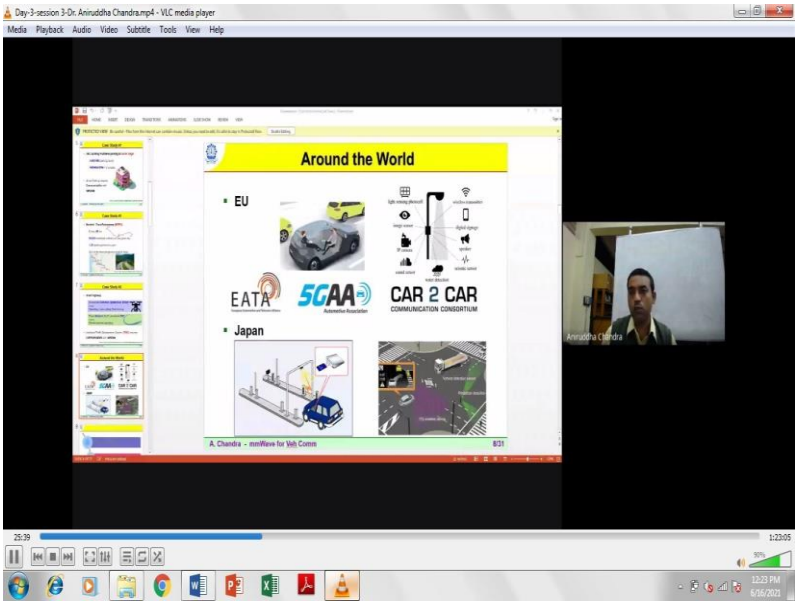

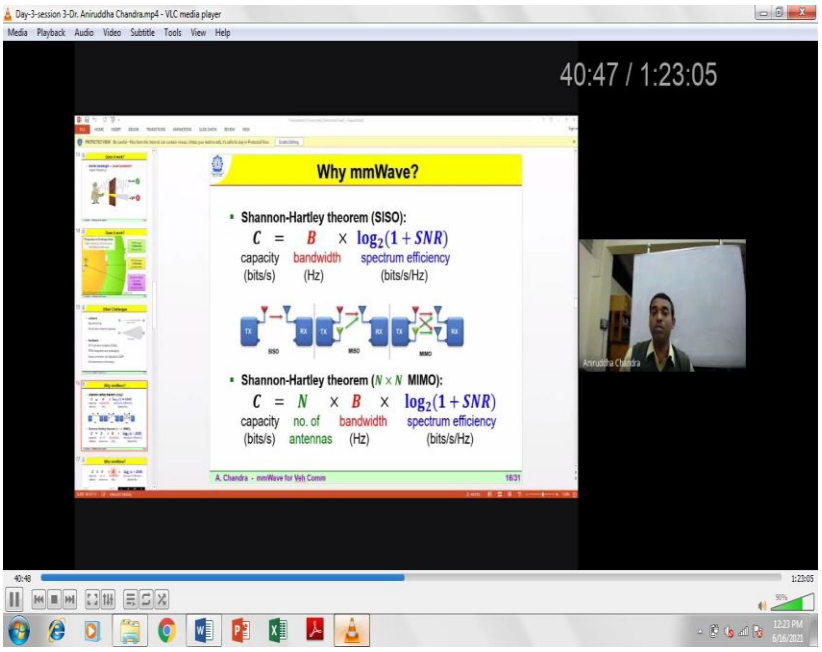

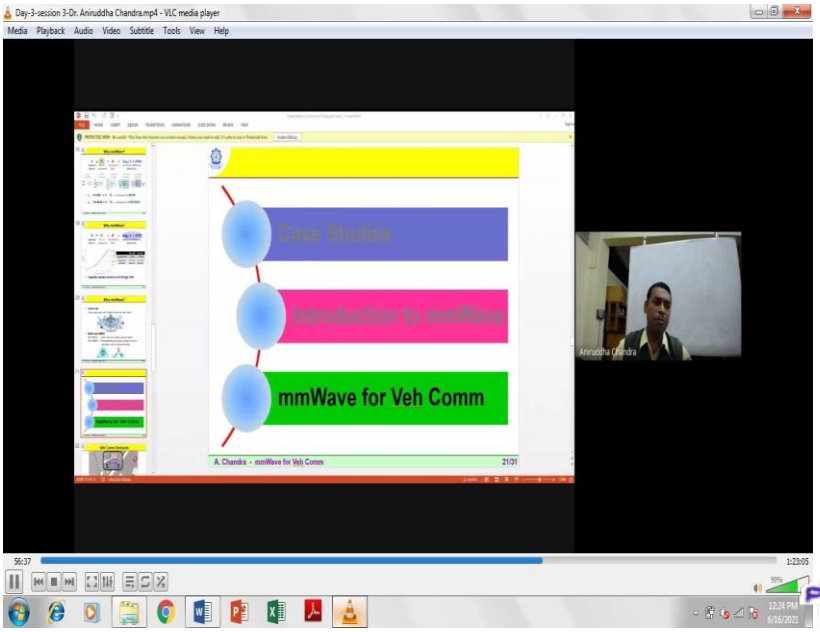

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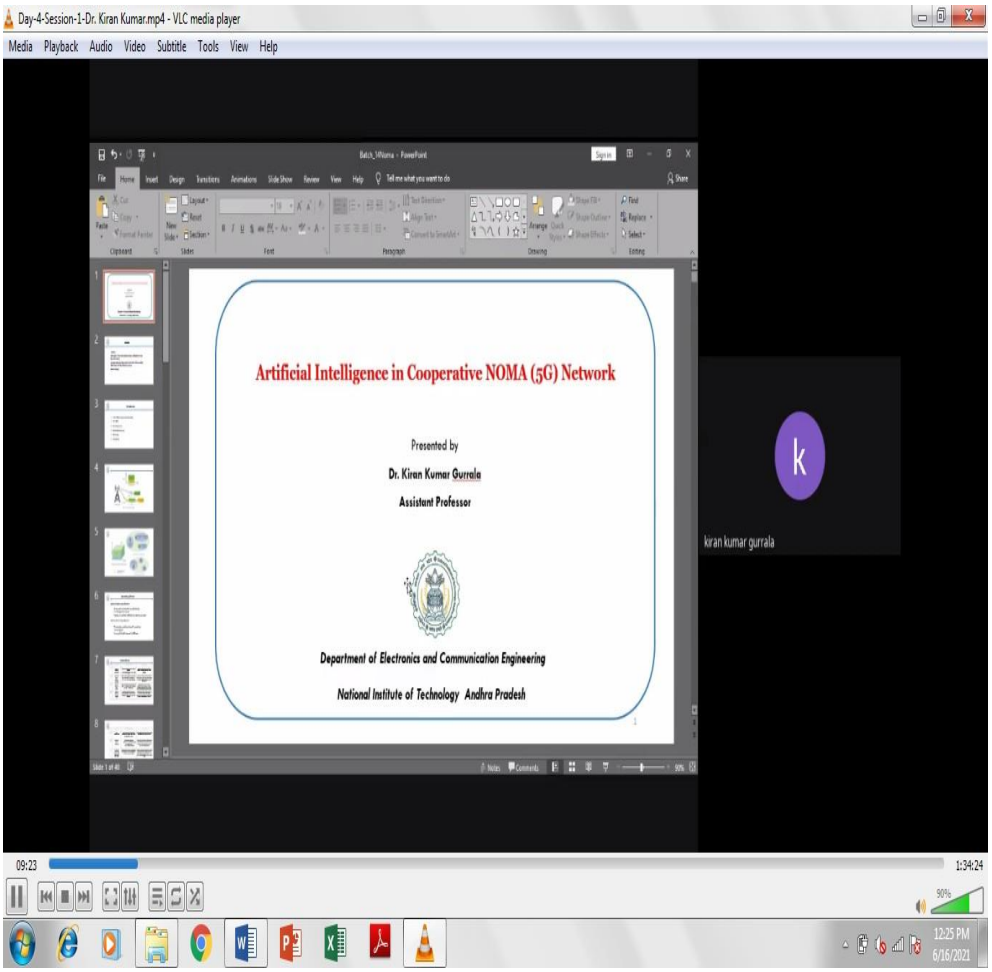
Expert Talk-10

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

Resource Person: Dr. Kiran Kumar Gurrala, Assistant Professor

Venue: online



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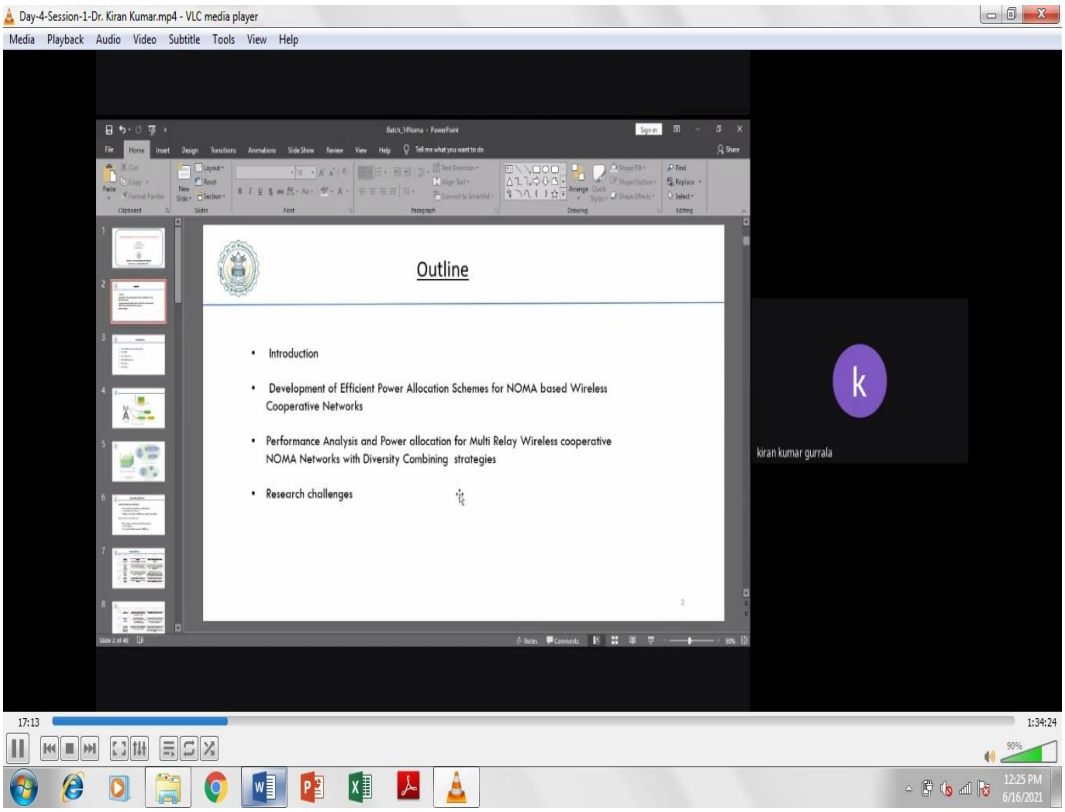

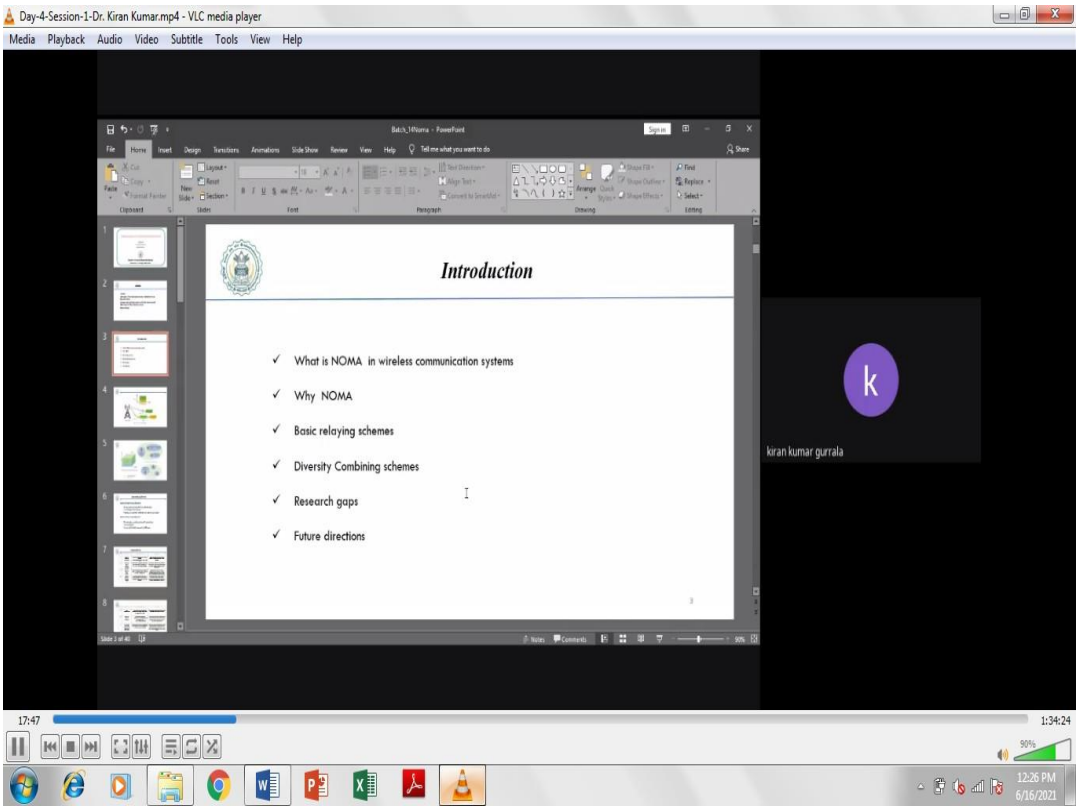

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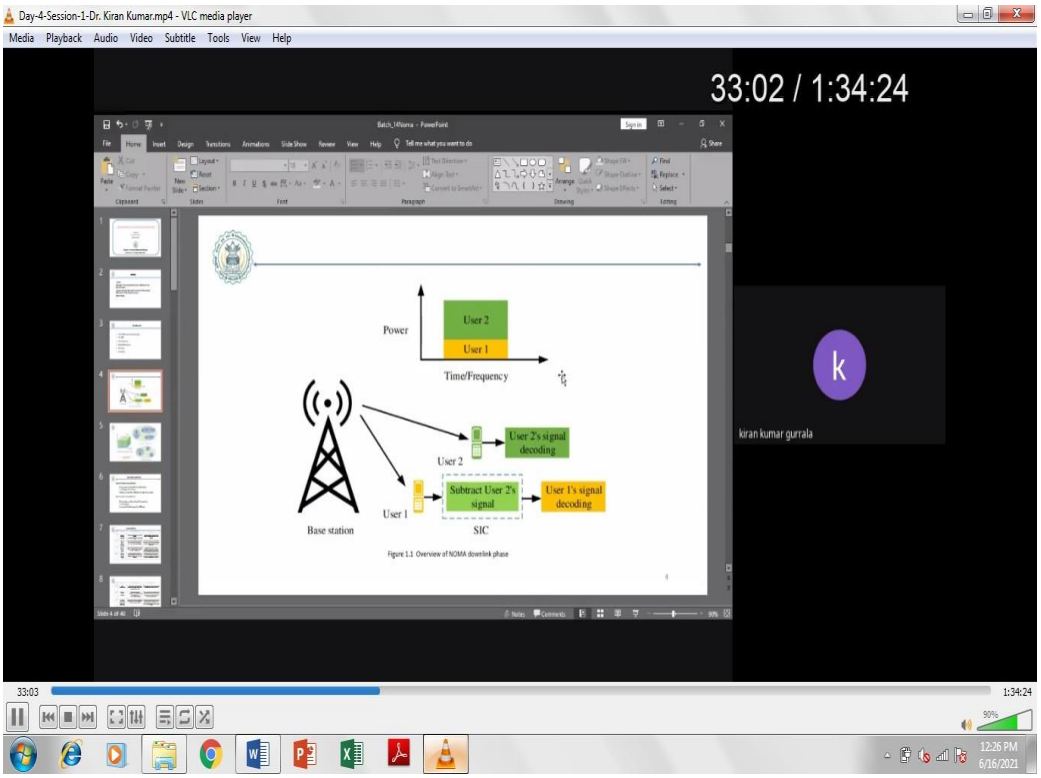

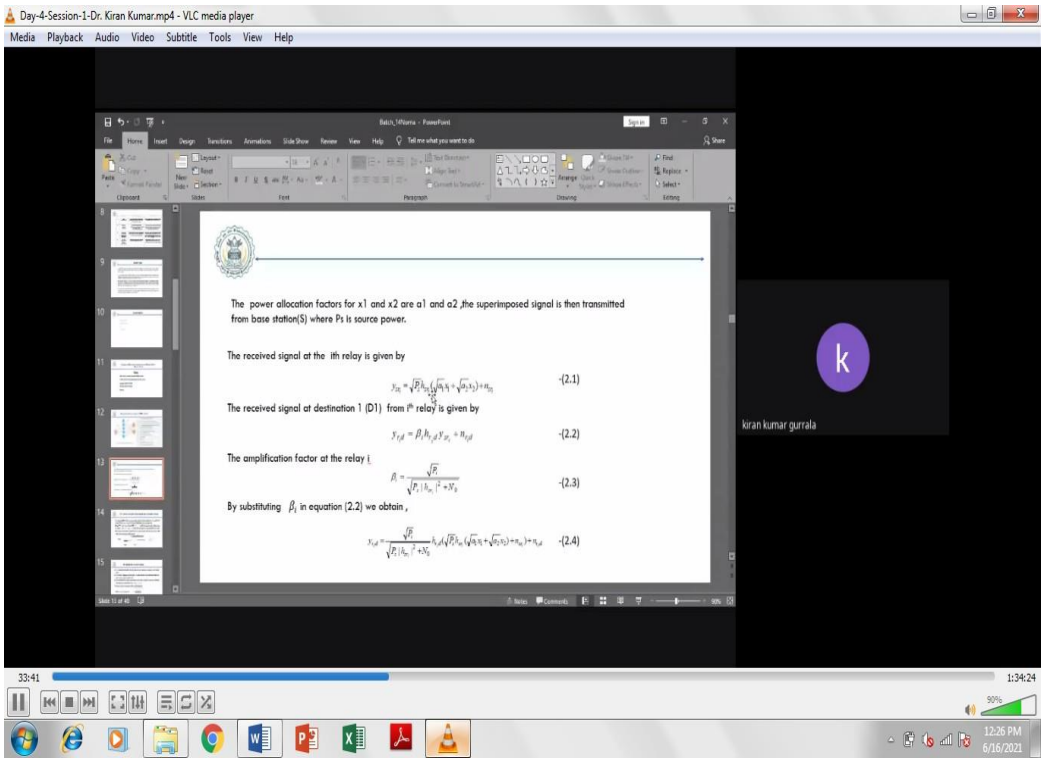

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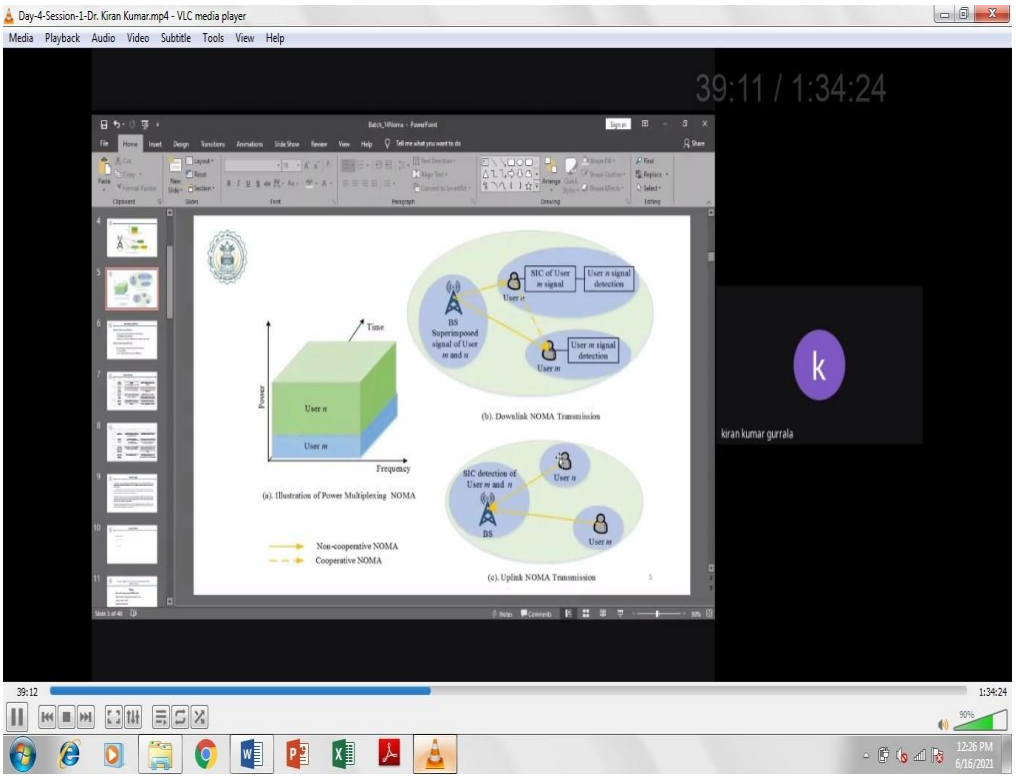
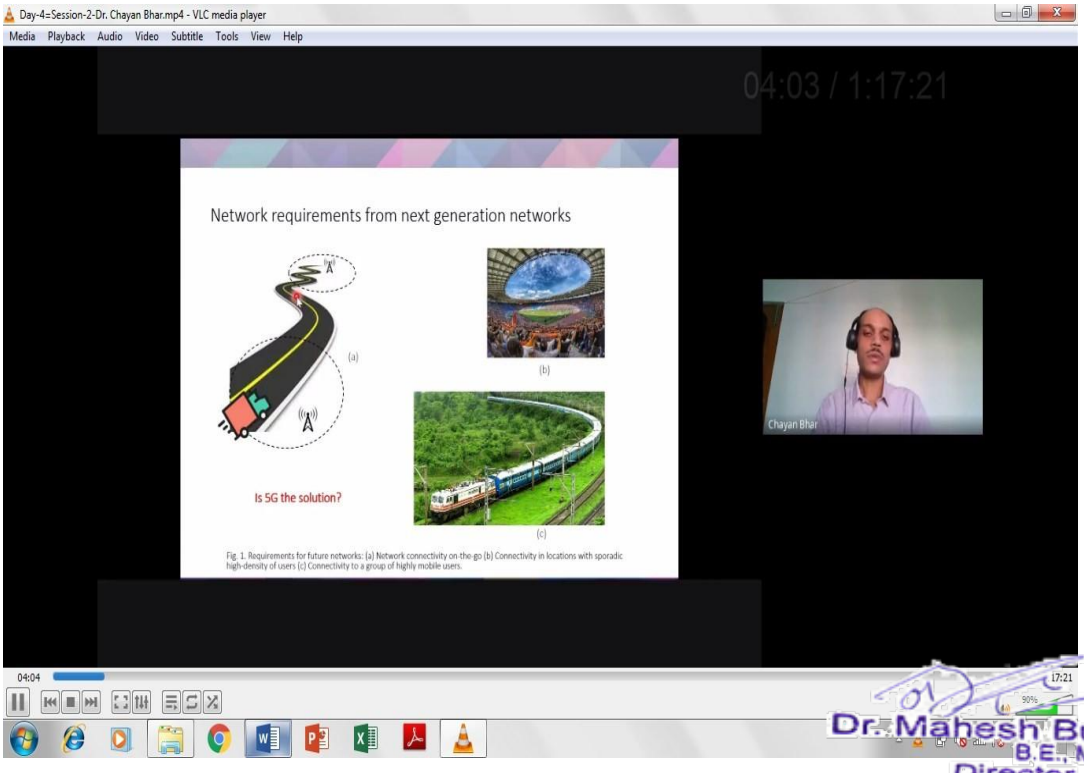


Expert Talk-11

Topic: Drone Base Stations For 5G And Beyond

Resource Person: Dr. Chayan Bhar, Assistant Professor

Venue: online



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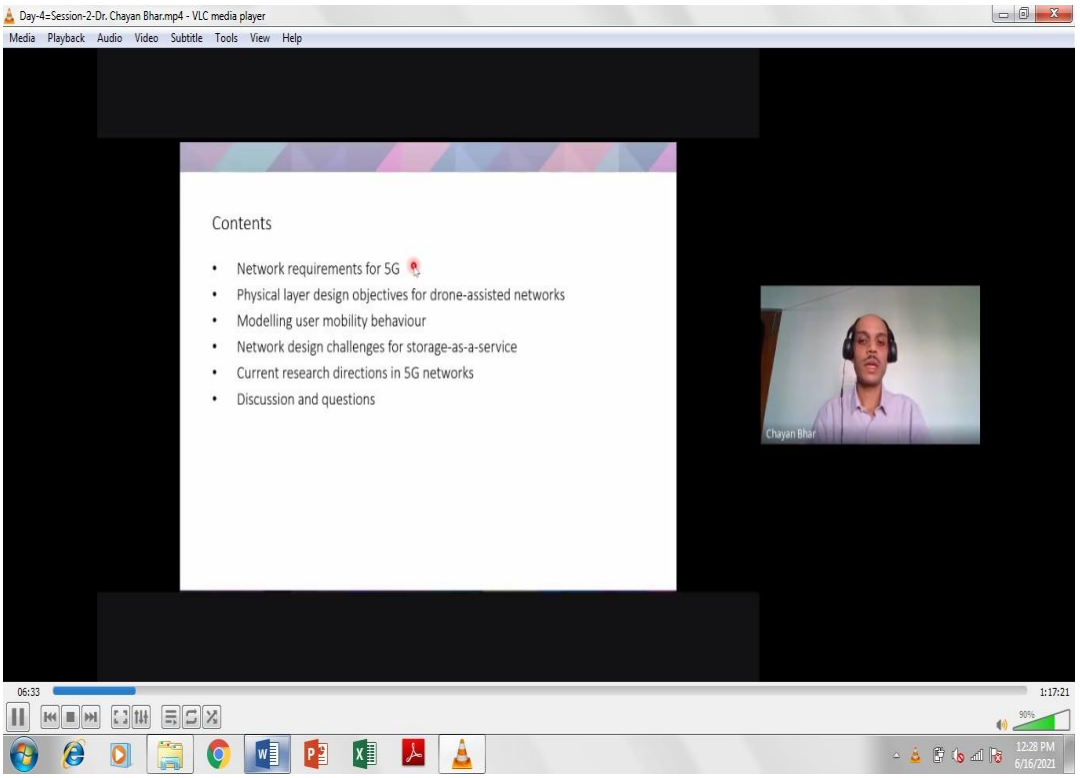

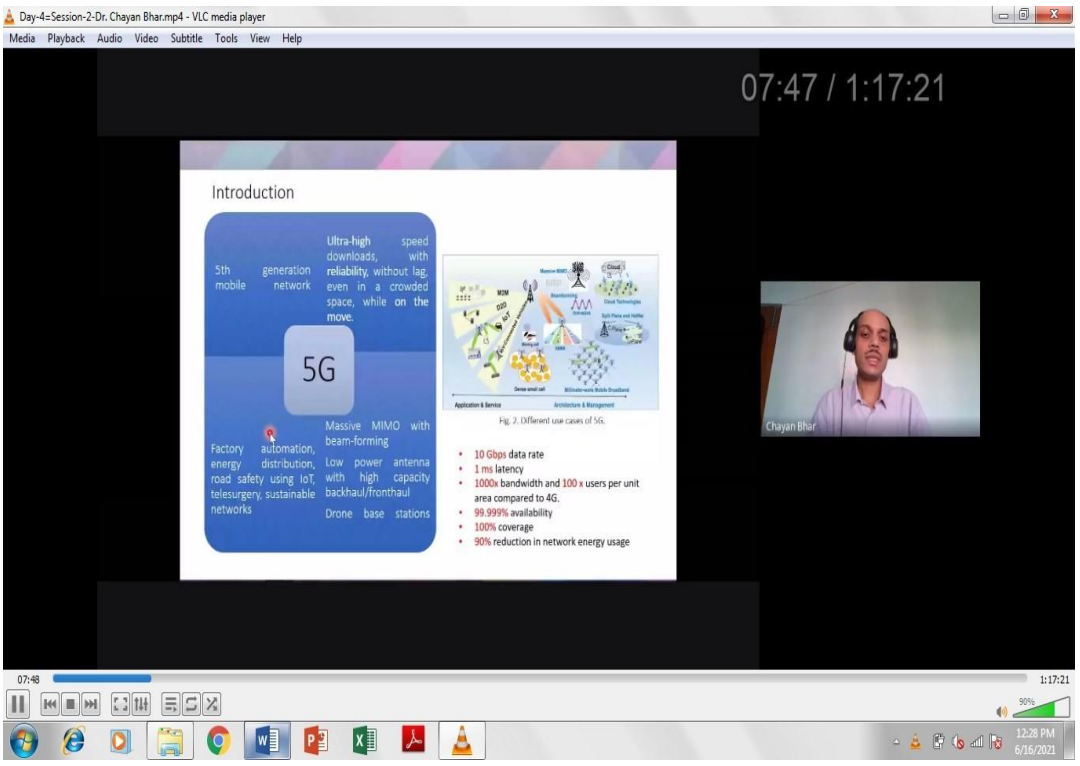

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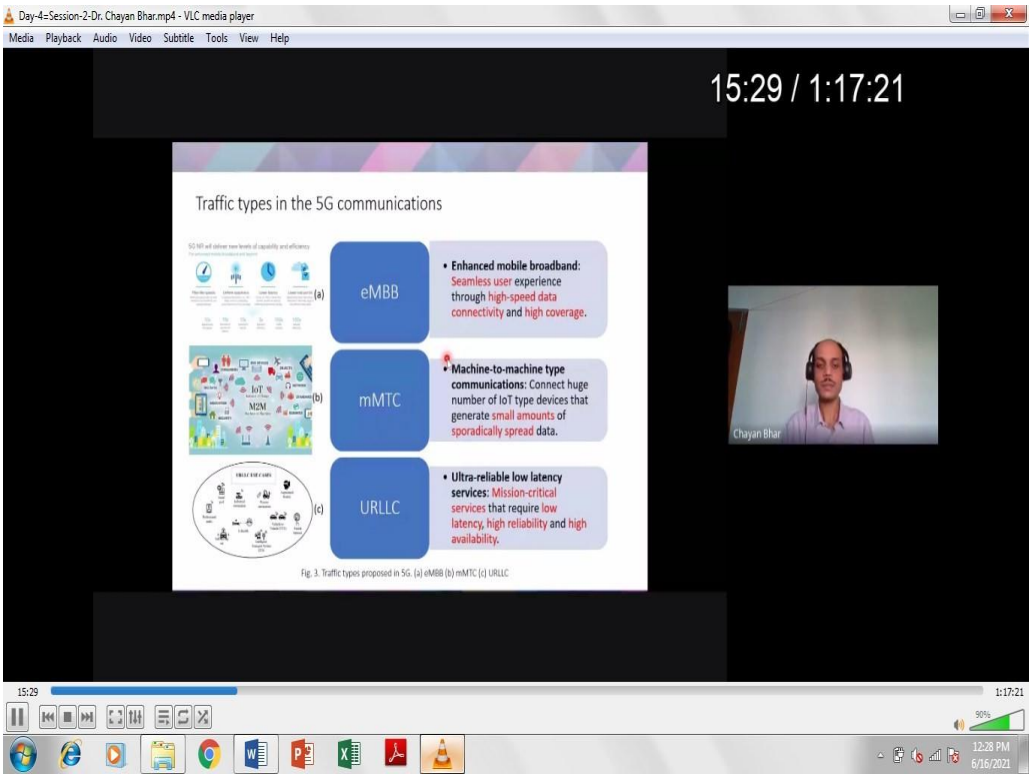

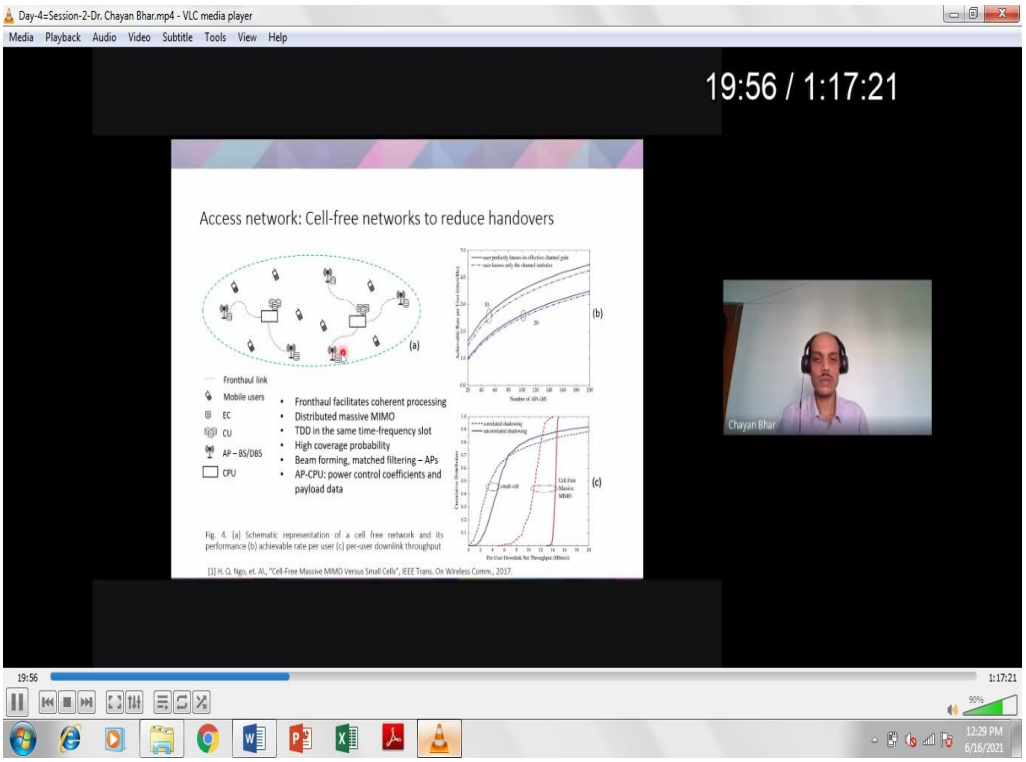

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Expert Talk-12

Topic: Cooperation In Iot: A Multiuser Perspective

Resource Person: Dr. Sam Darshi, Assistant Professor

Venue: online

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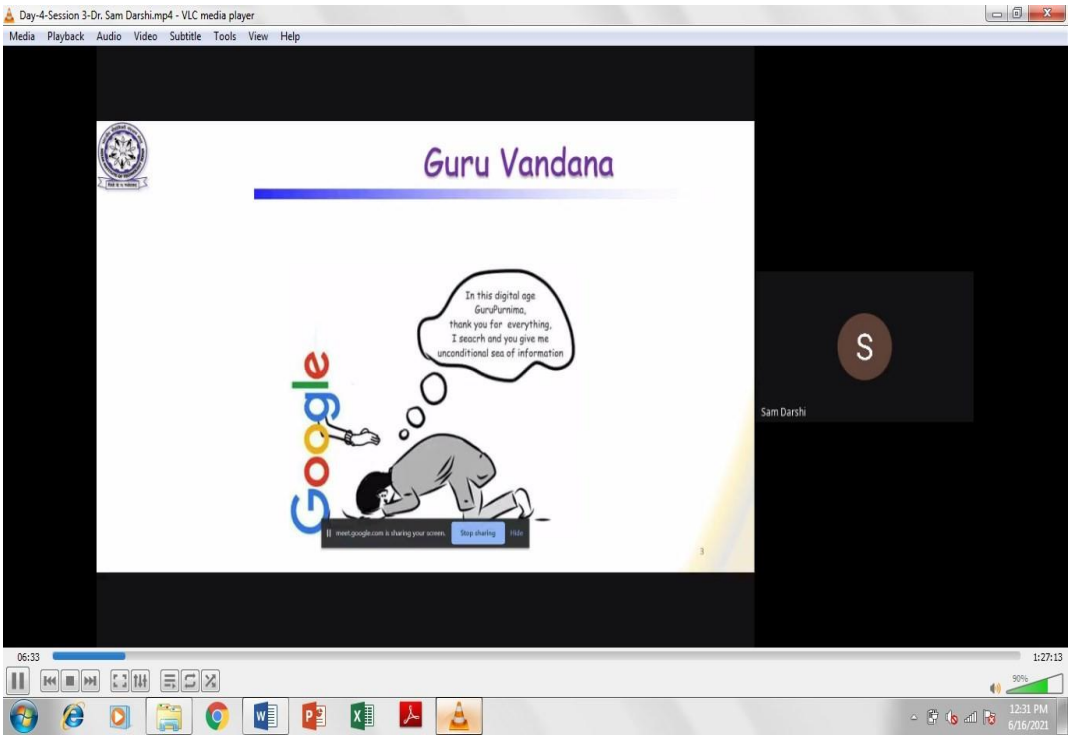

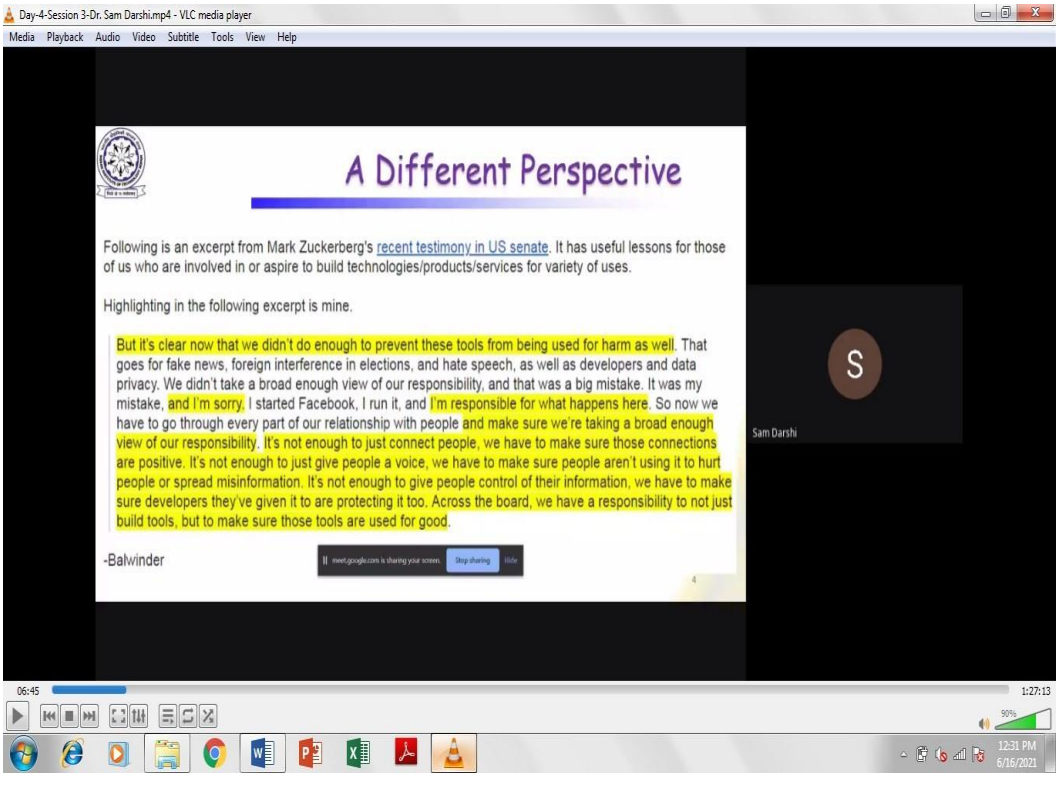

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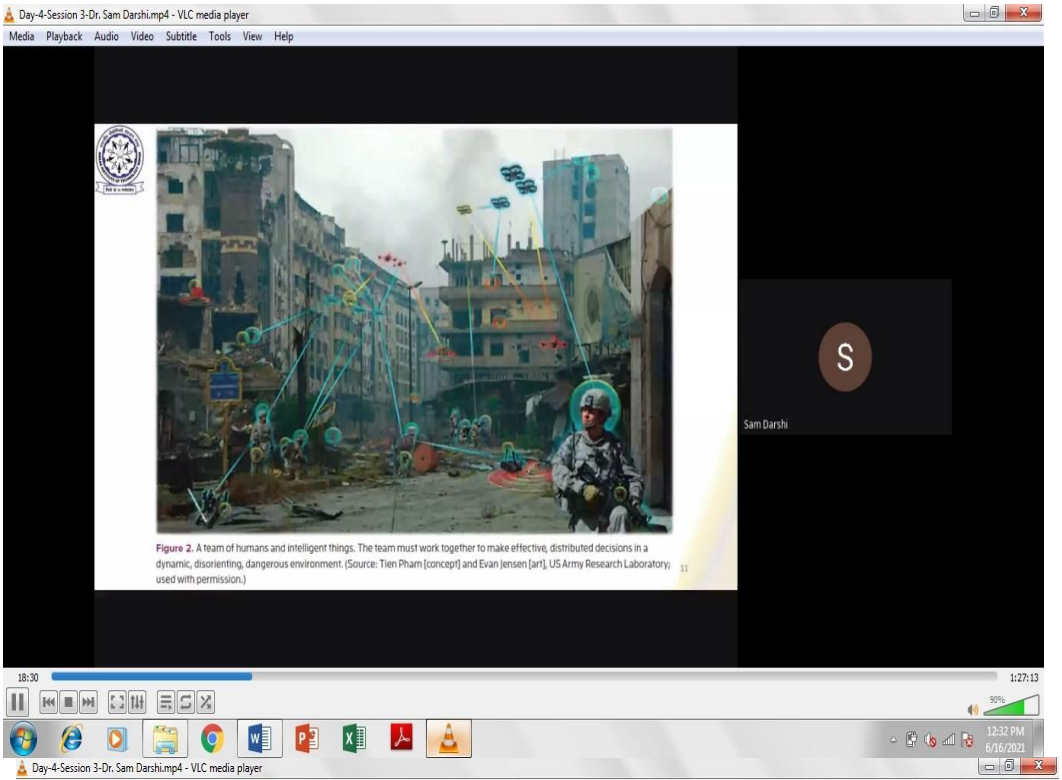

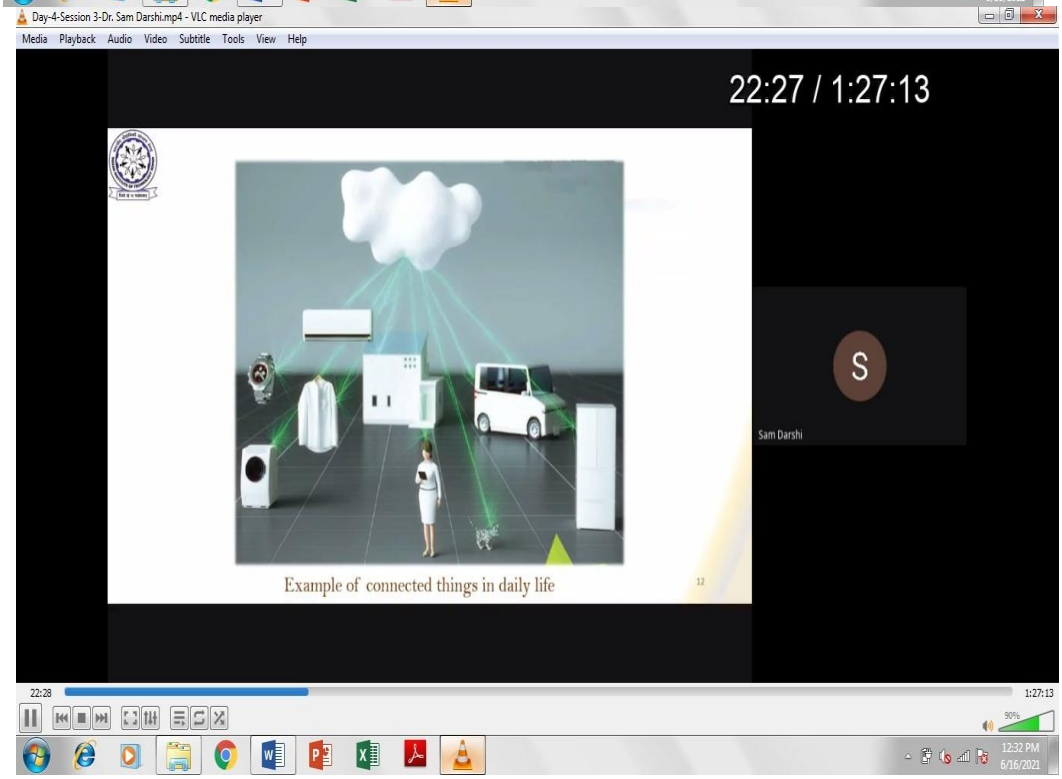

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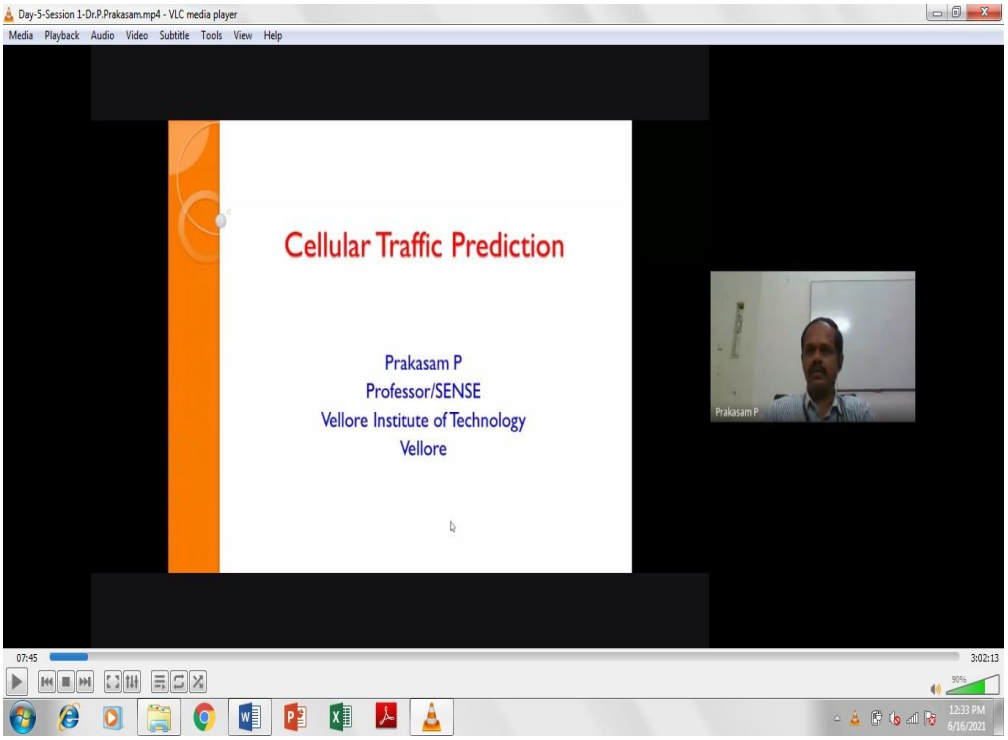
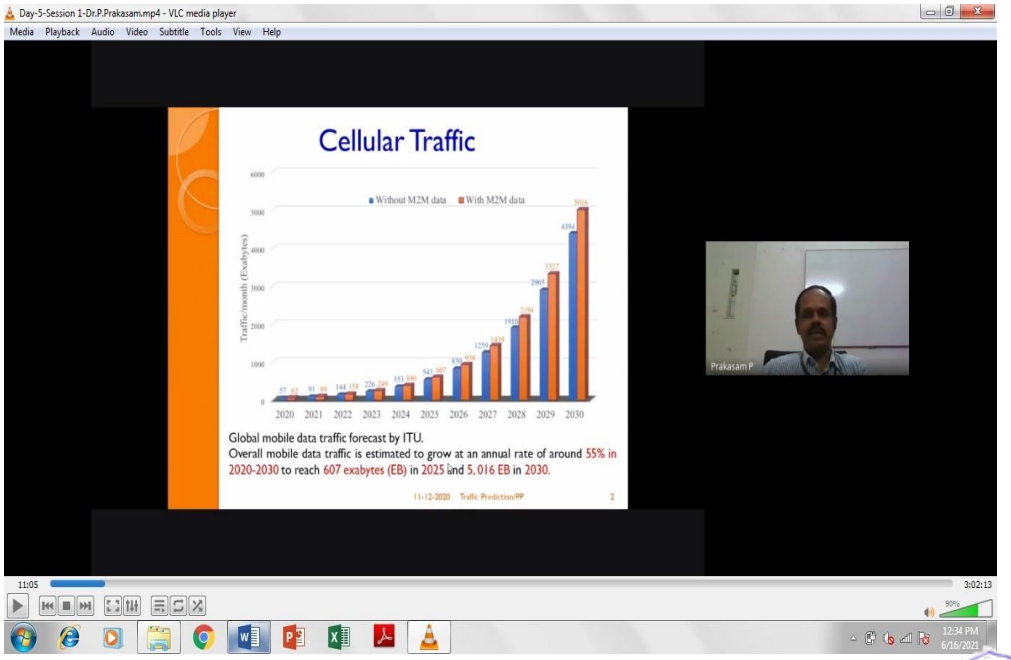
Expert Talk-13

Topic: Cellular Traffic Prediction Using Deep Learning

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

Venue: online





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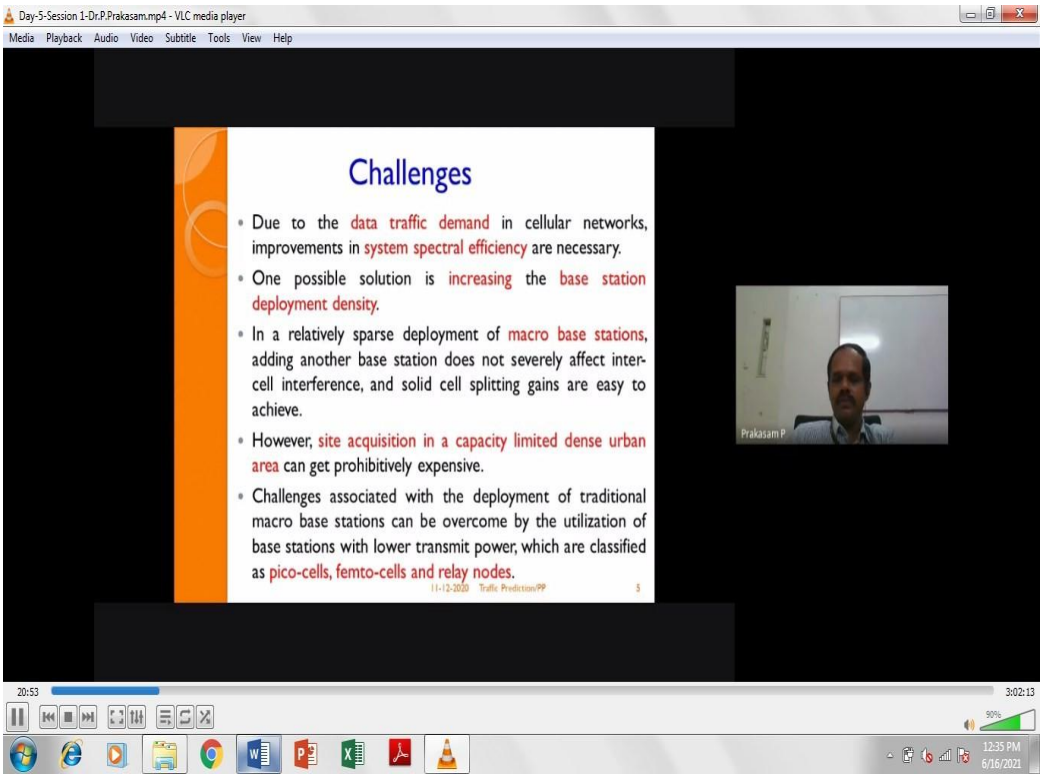

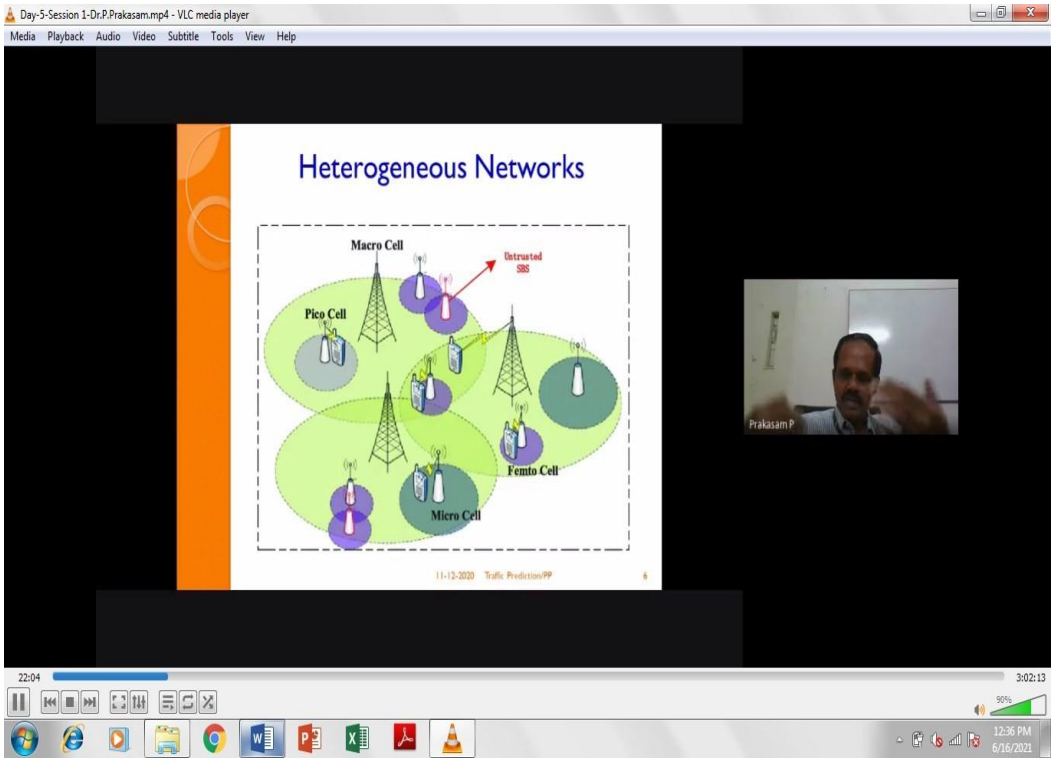

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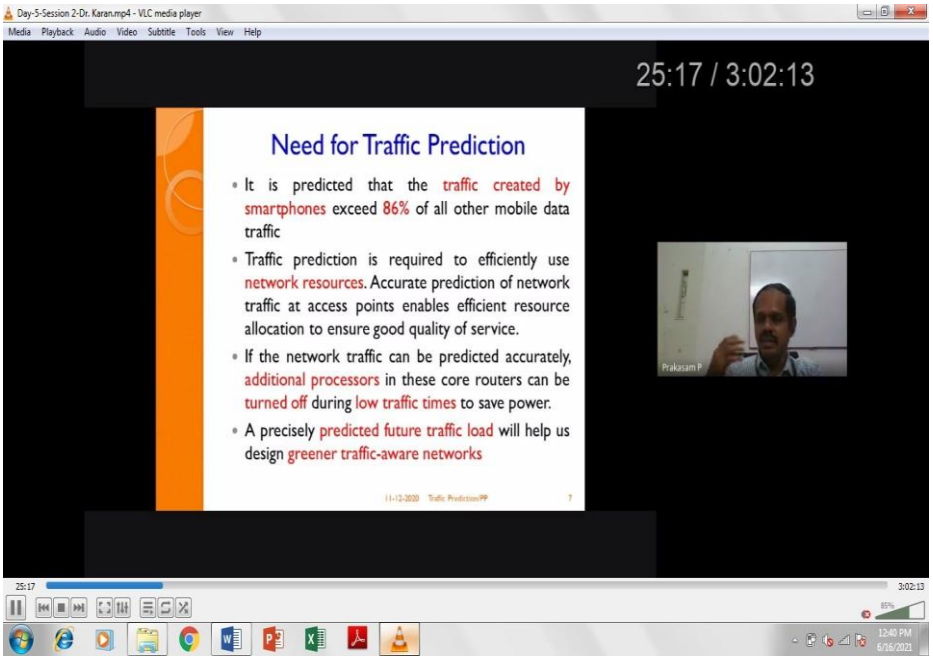
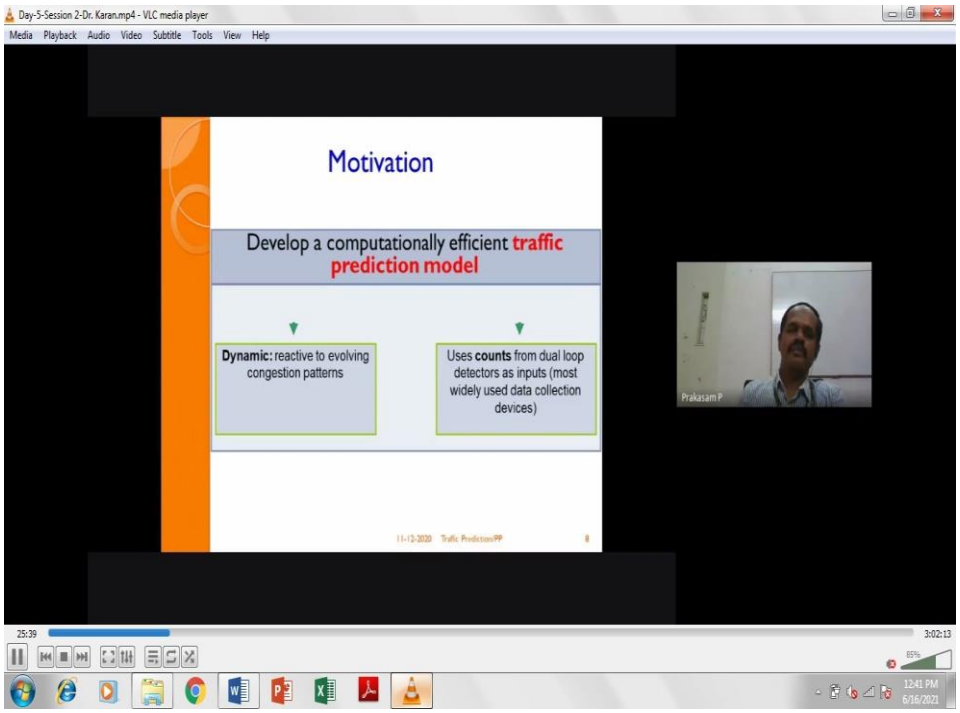
Expert Talk-14

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

Venue: online





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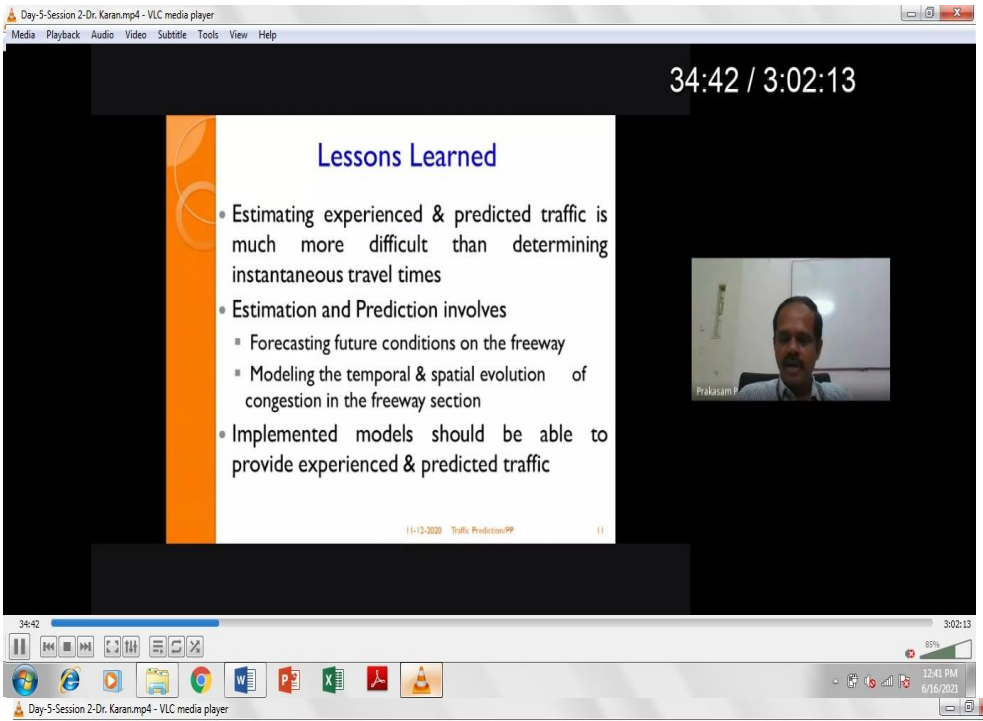

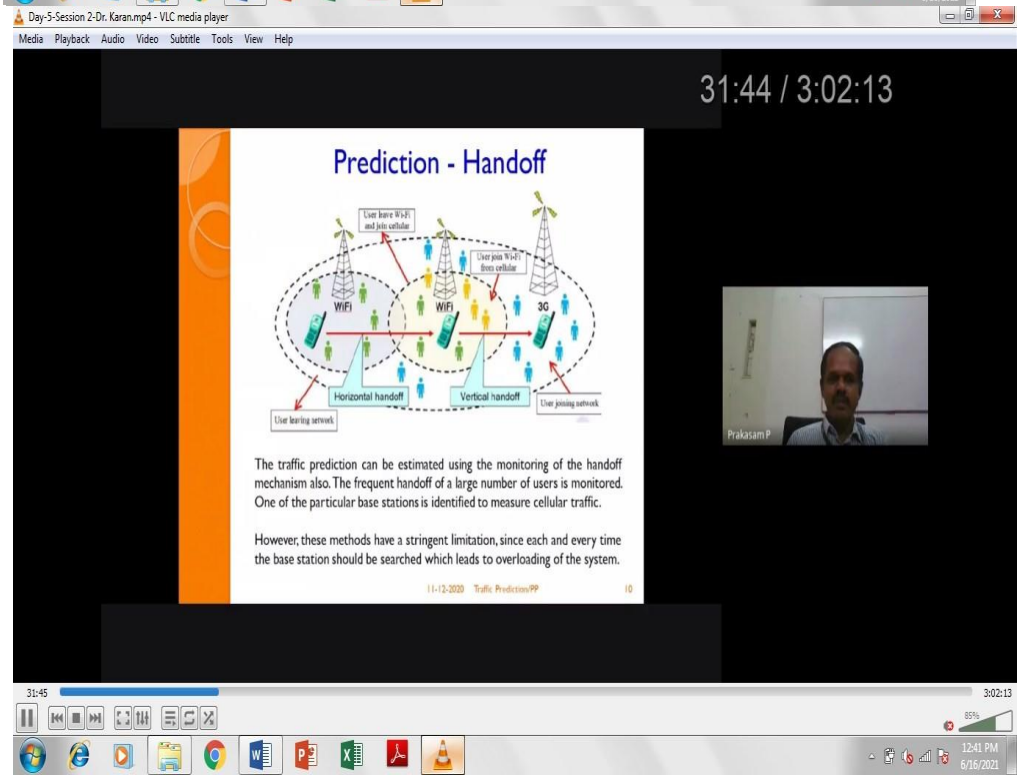

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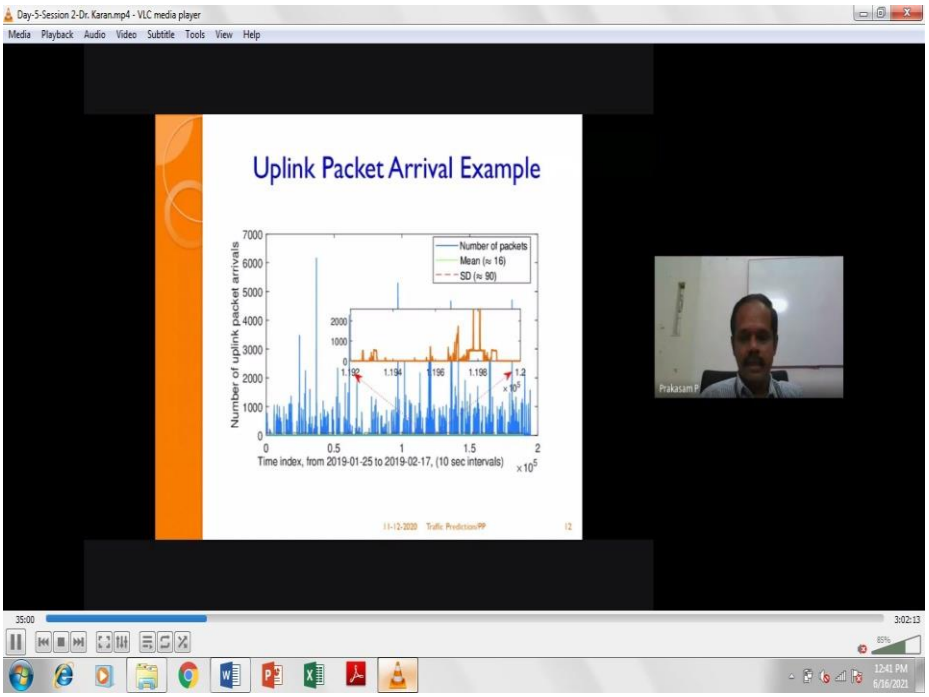
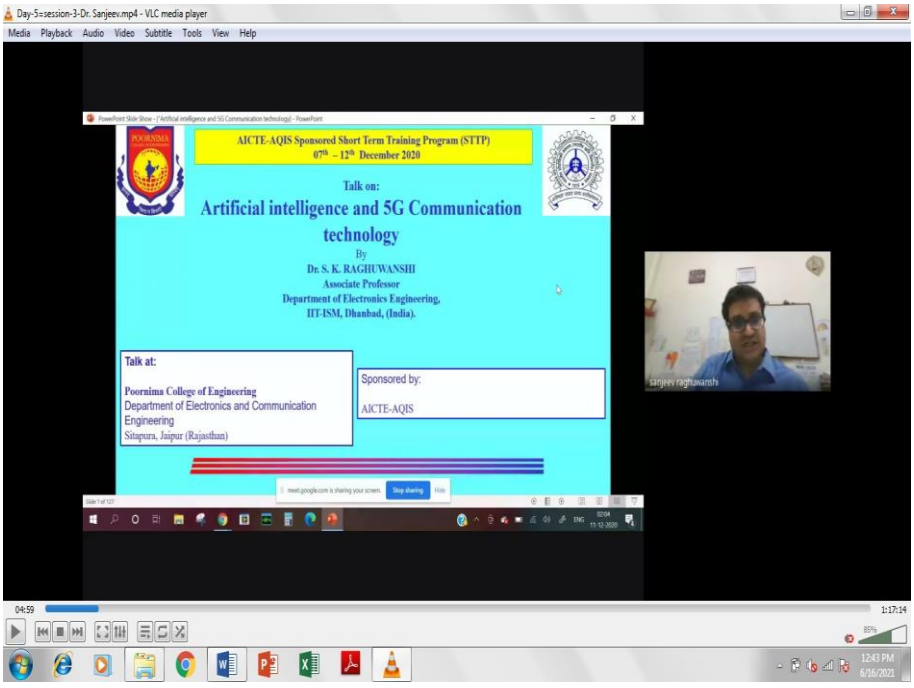


Expert Talk-15

Topic: Fiber Optics Based Devices For High Speed Communication Systems

Resource Person: Dr. Sanjeev Kumar Raghuwanshi, Associate Professor

Venue: online



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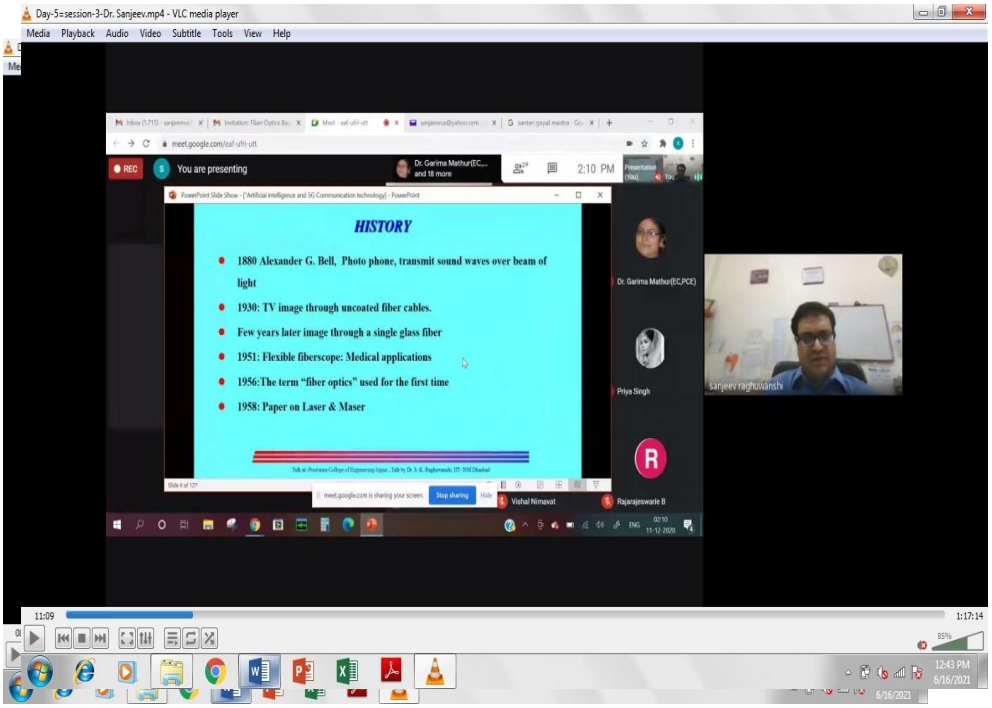

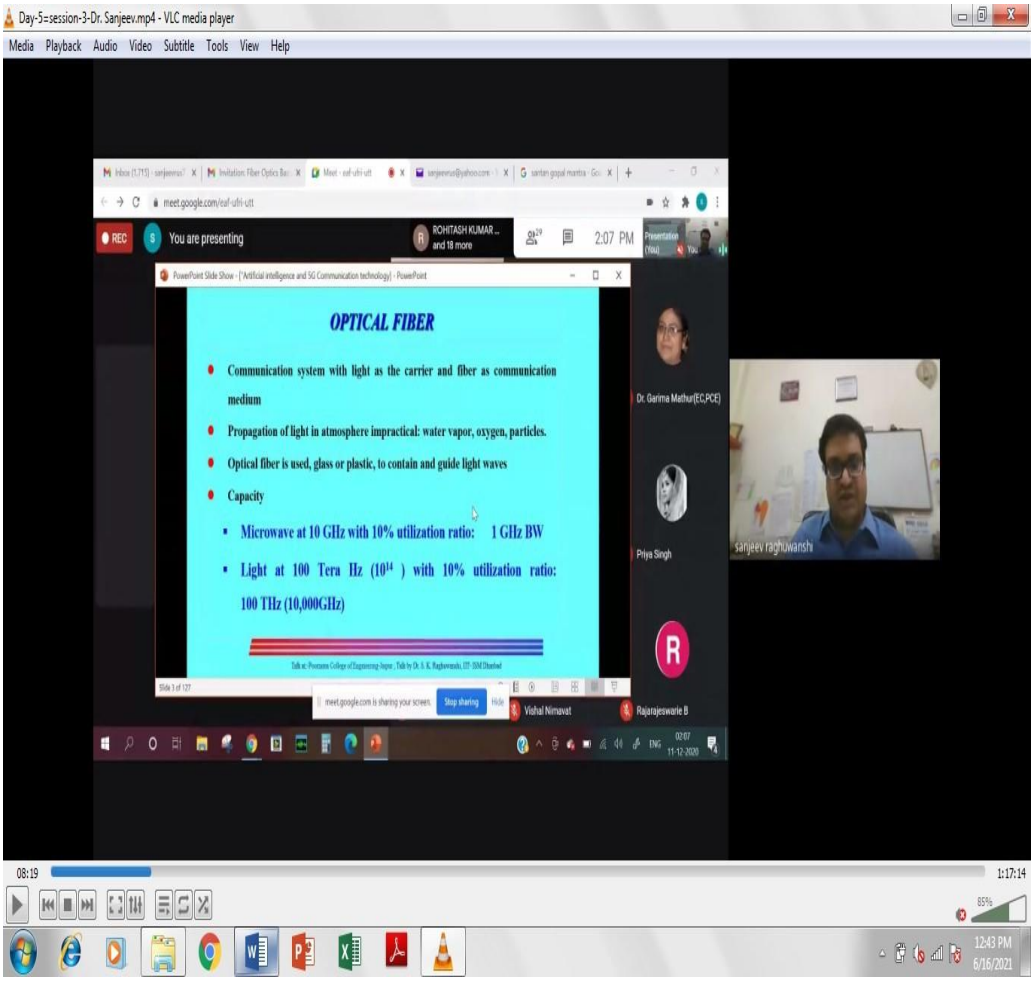

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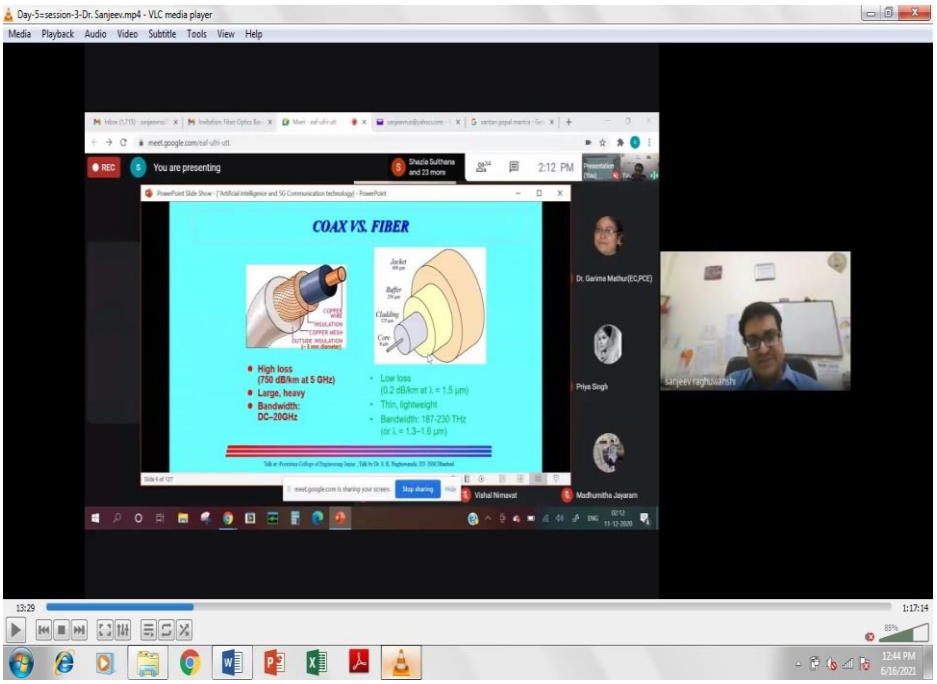

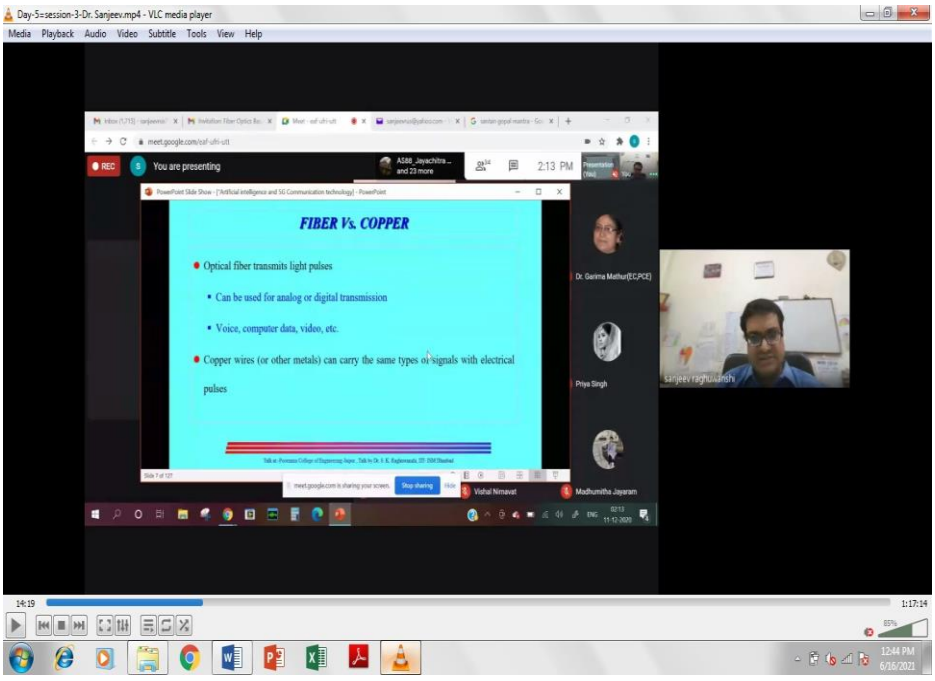

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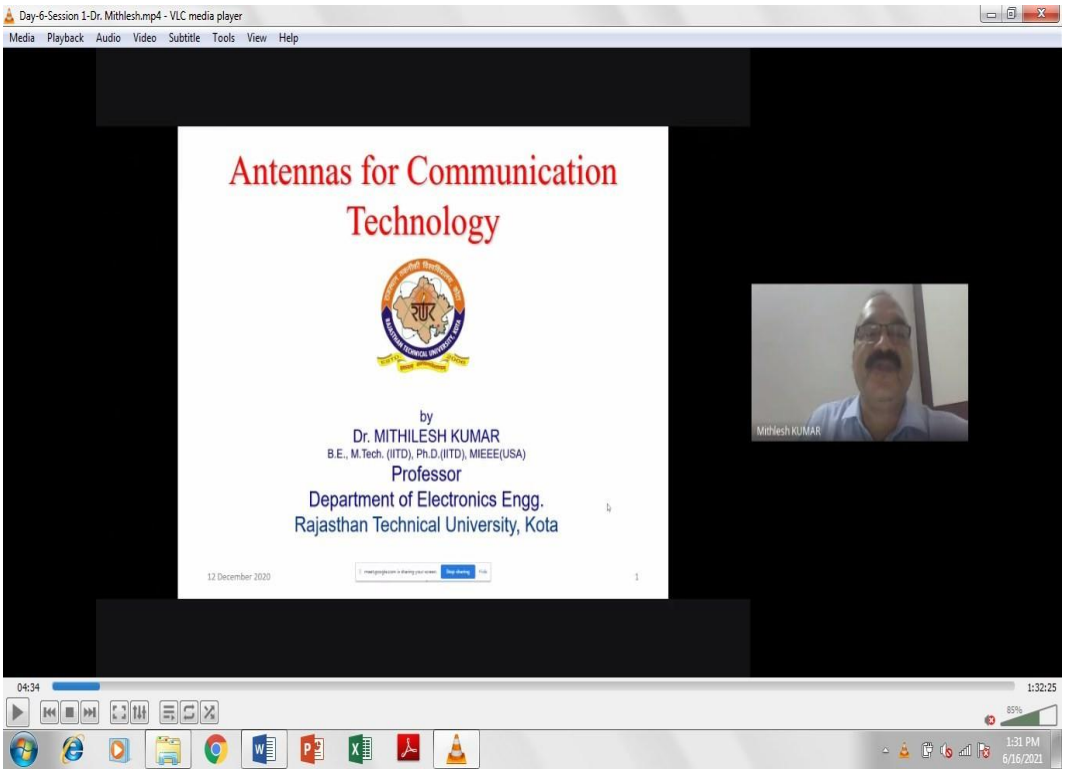
Expert Talk-16

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



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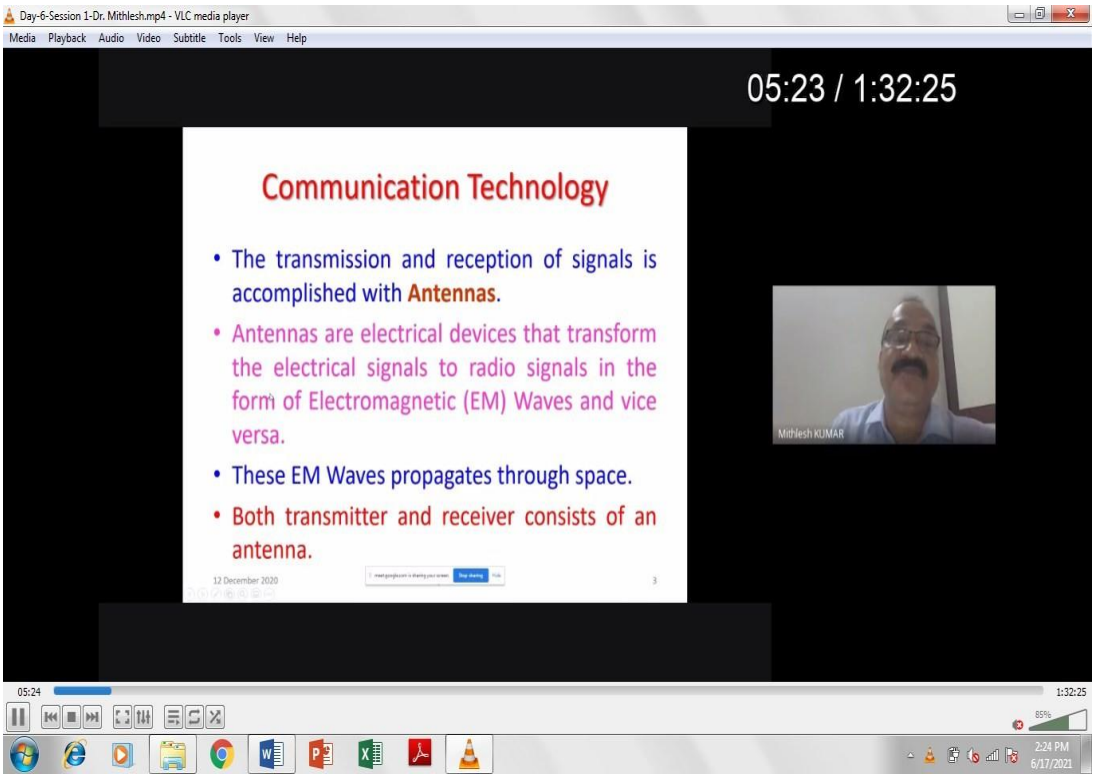

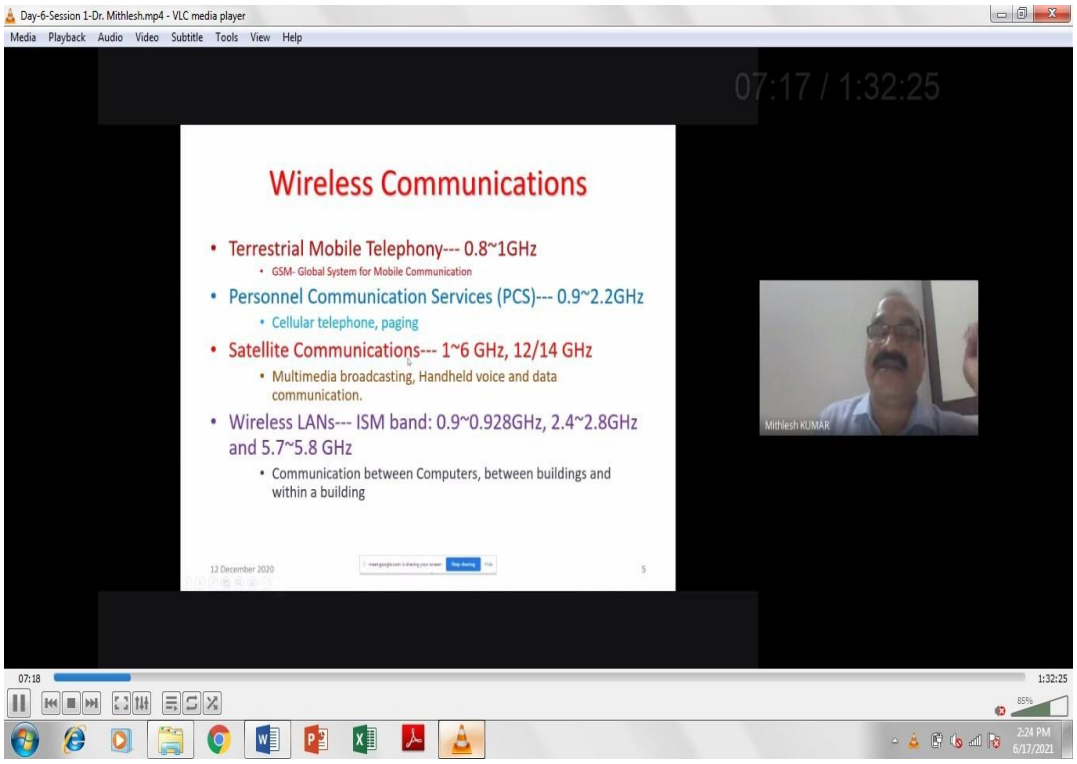

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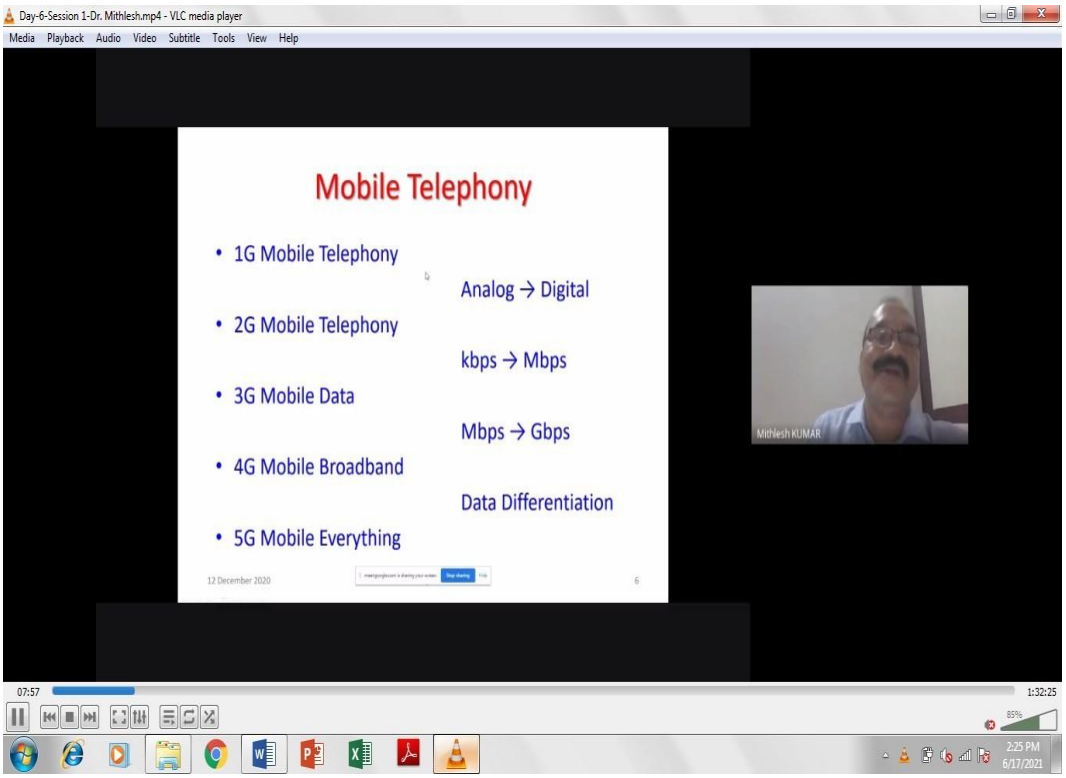

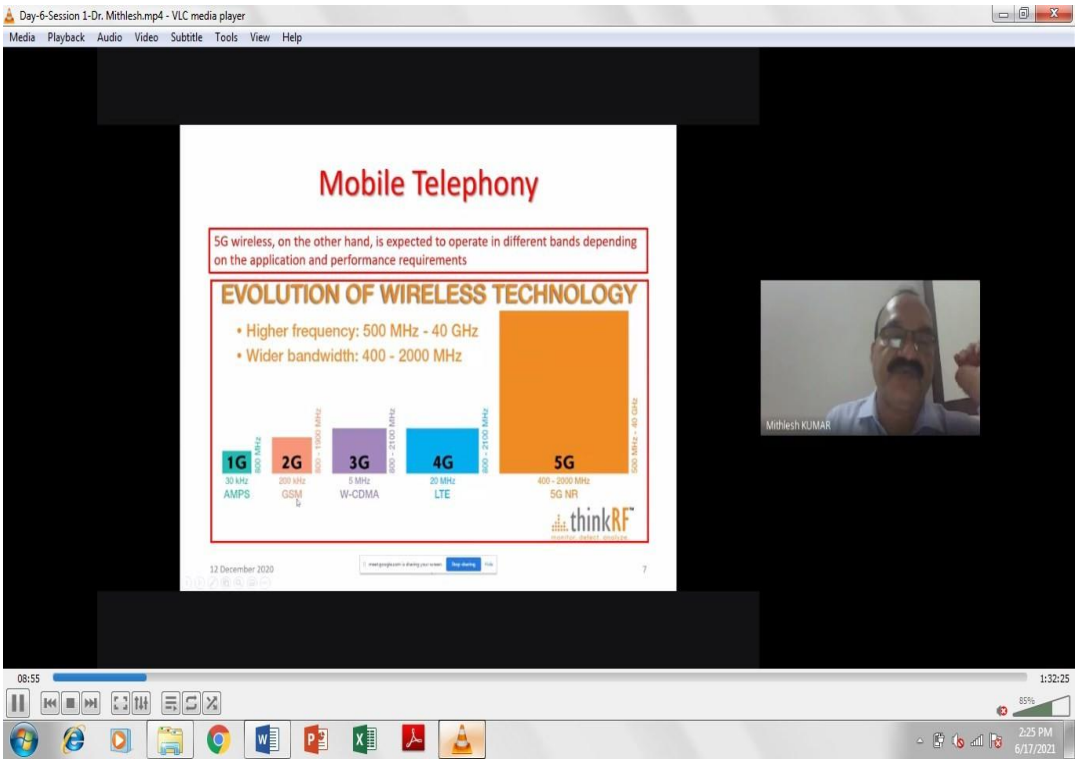

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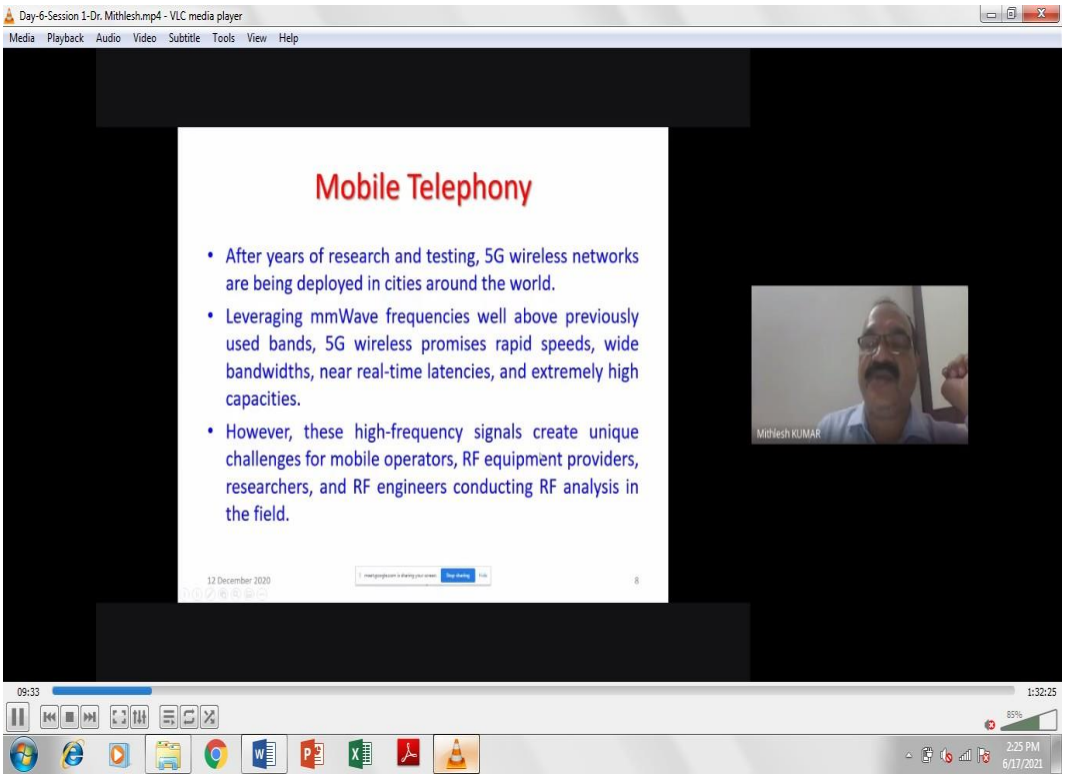
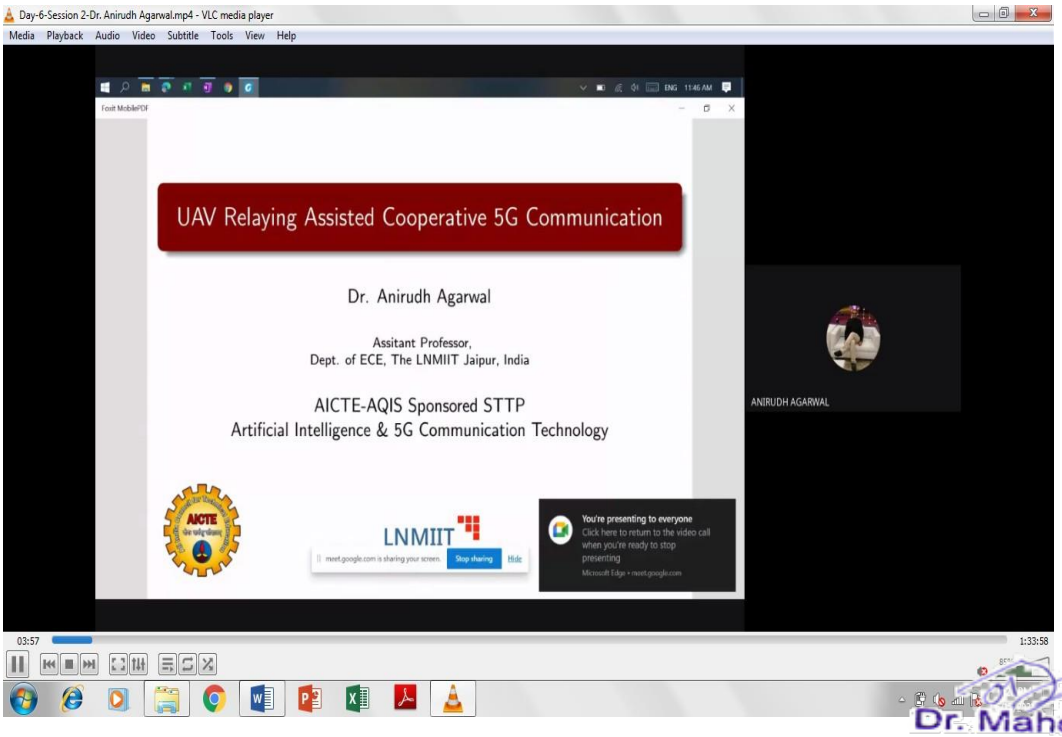


Expert Talk-17

Topic: Uav Relaying Assisted Cooperative 5G Communication

Resource Person: Dr. Anirudh Agarwal, Assistant Professor

Venue: online



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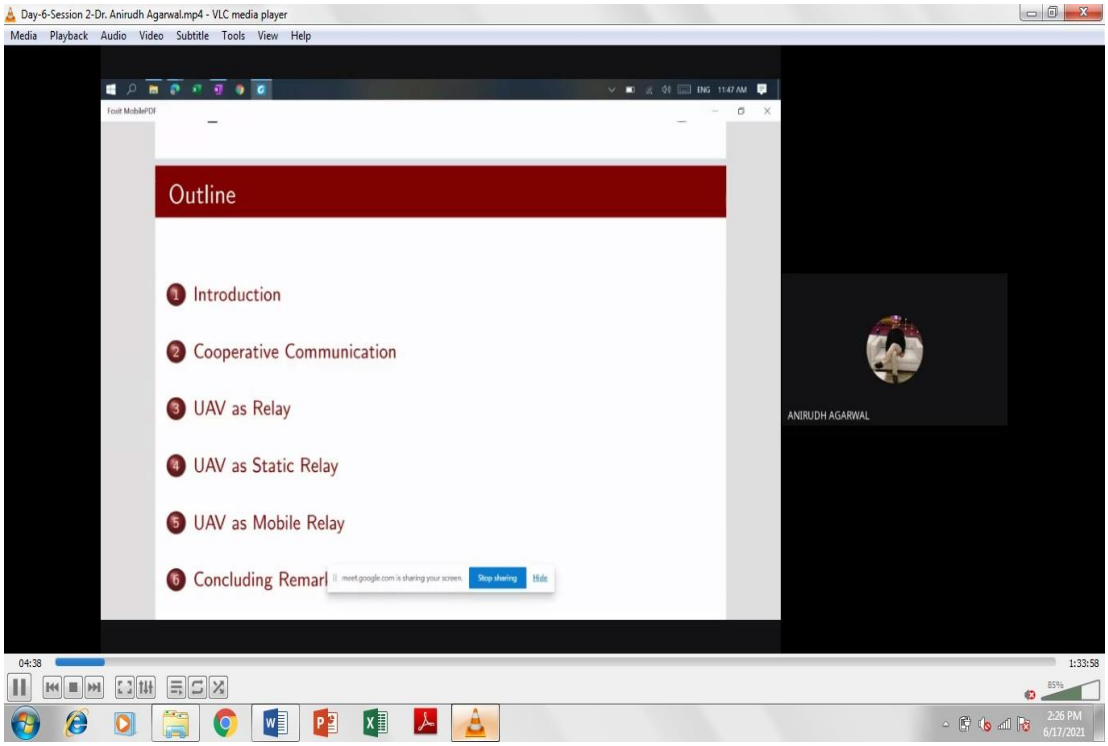

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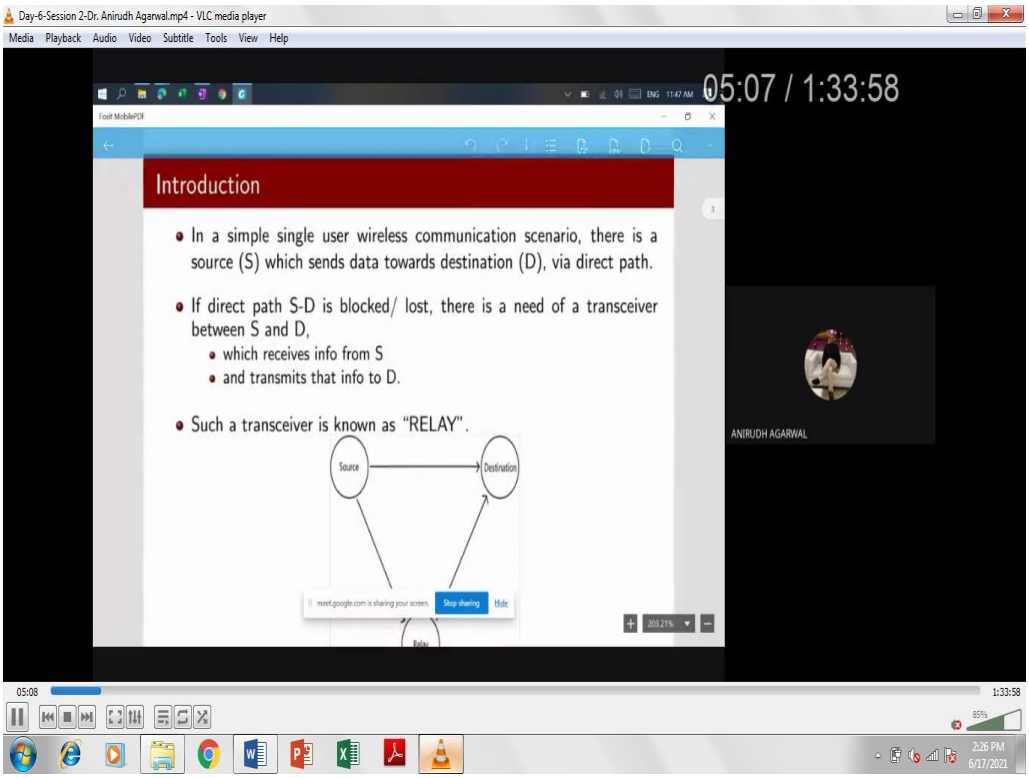

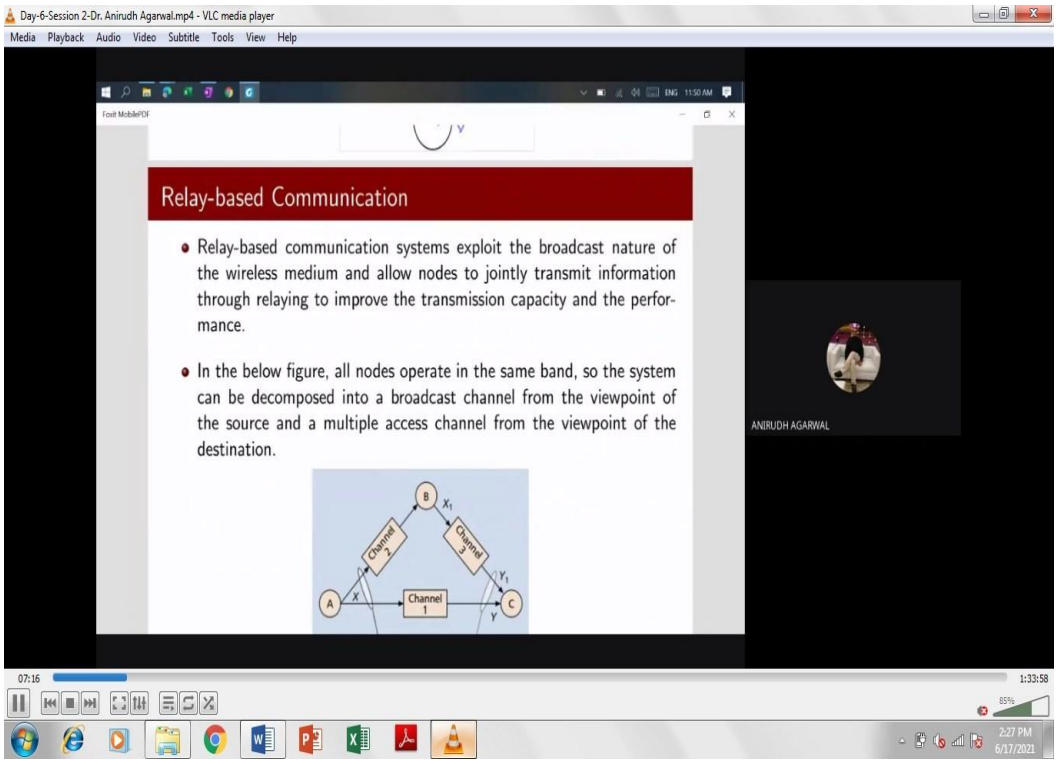

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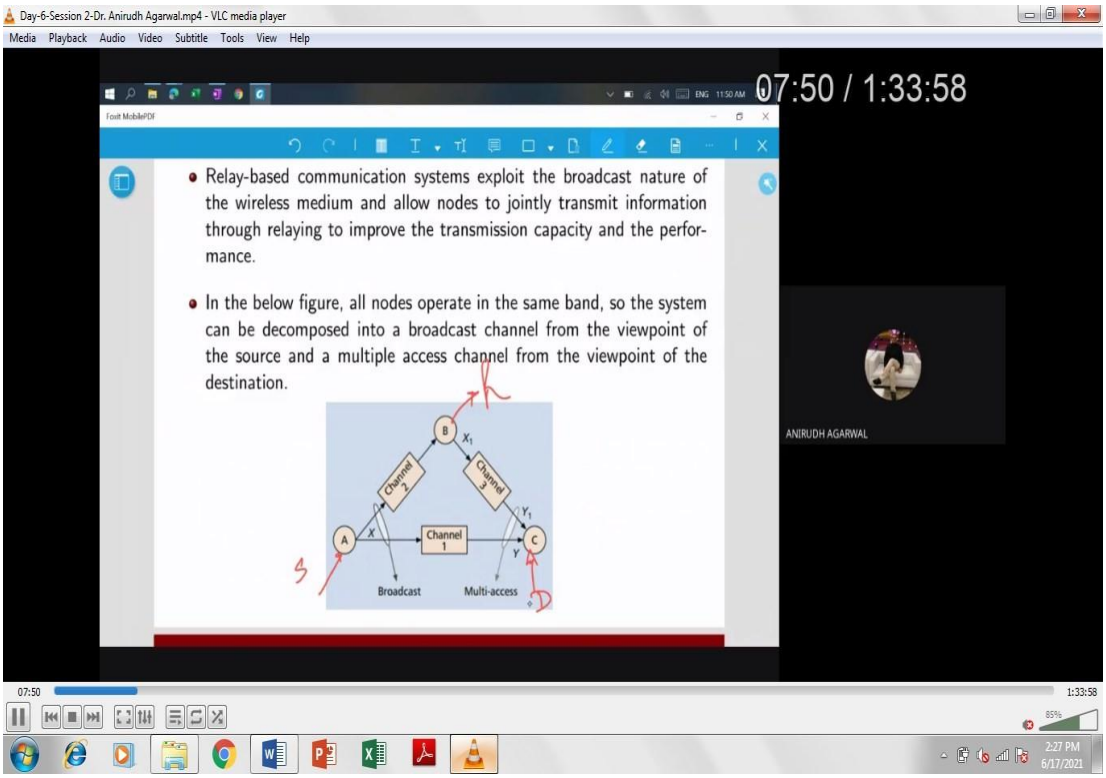

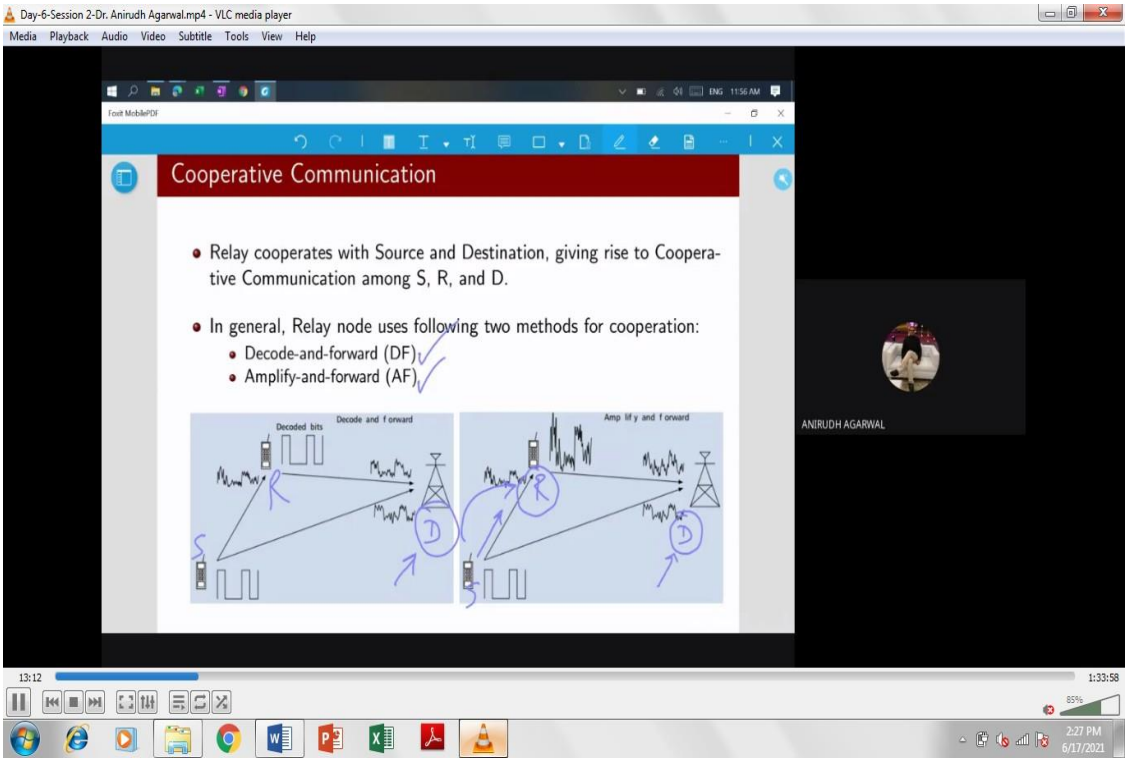

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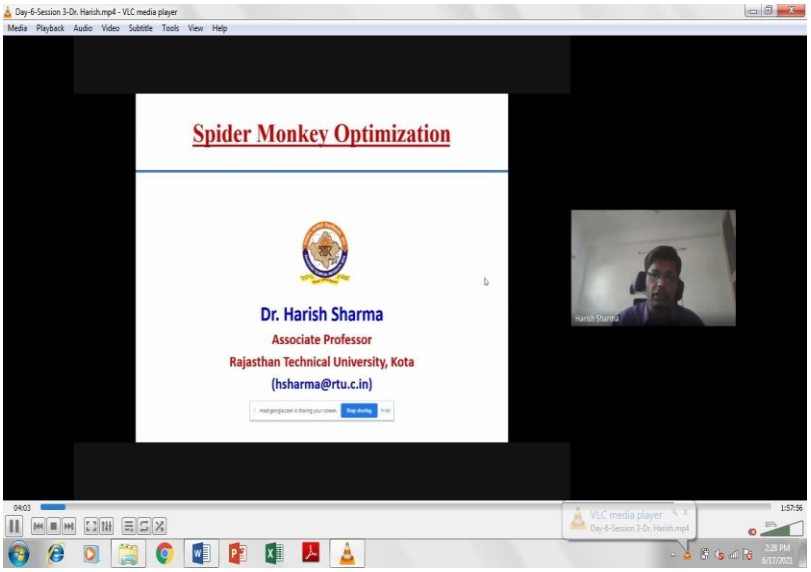
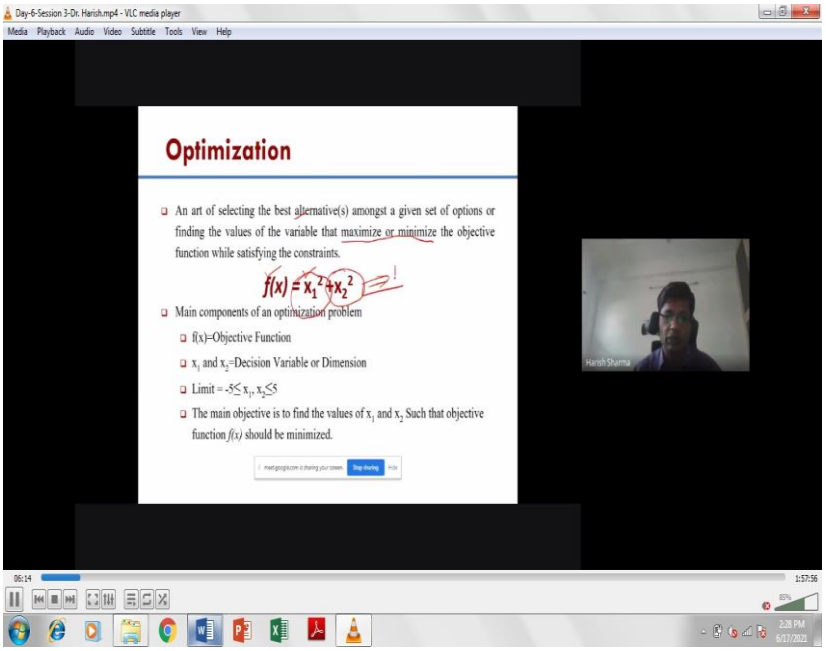
Expert Talk-18

Topic: Advances in Spider Monkey Optimization Algorithm

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





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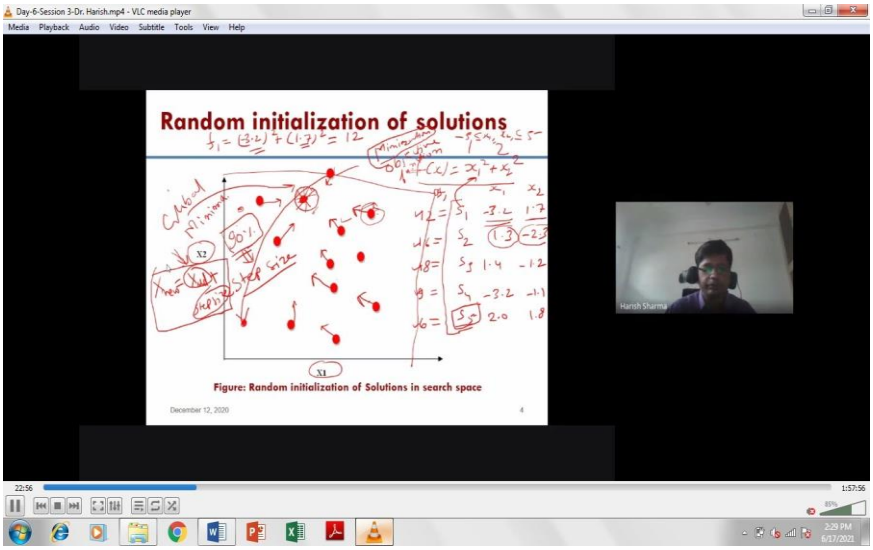

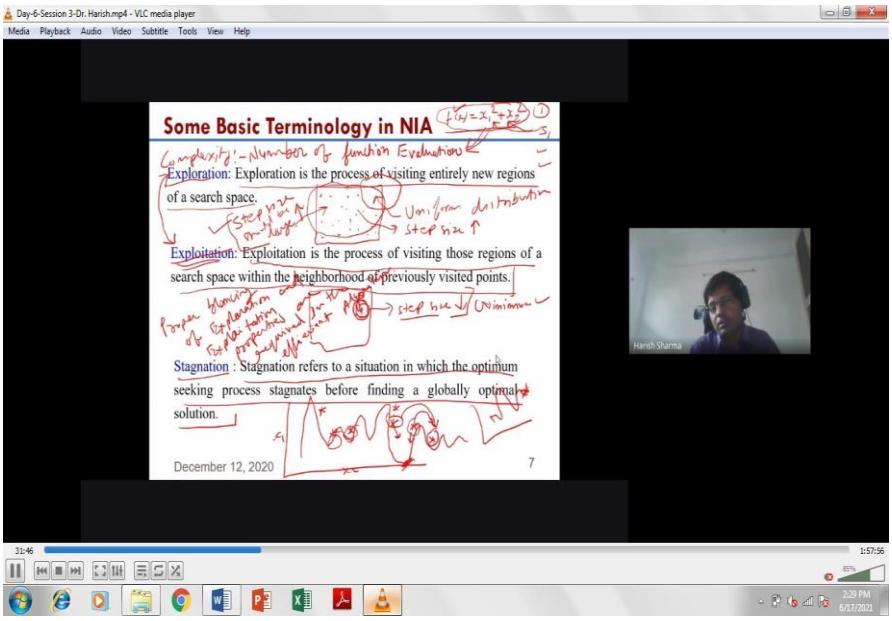

Valedictory session:-

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

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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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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

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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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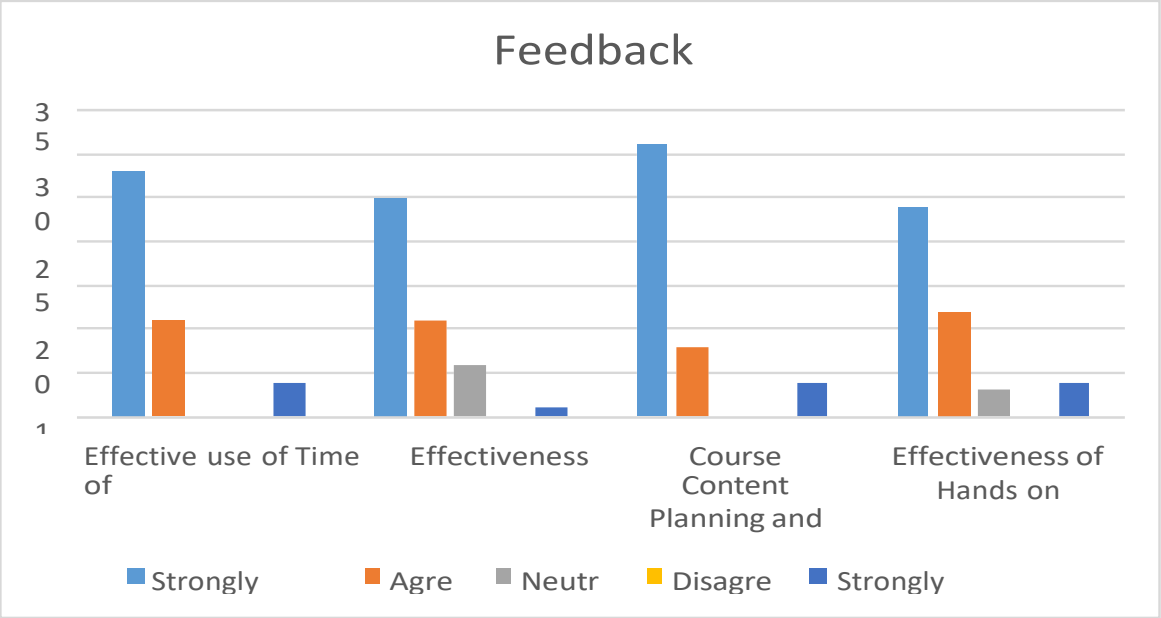
- **FEEDBACK ANALYSIS:**

	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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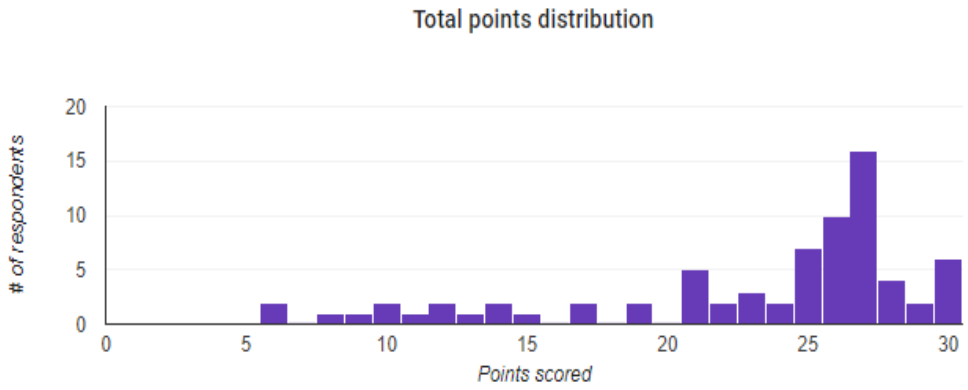
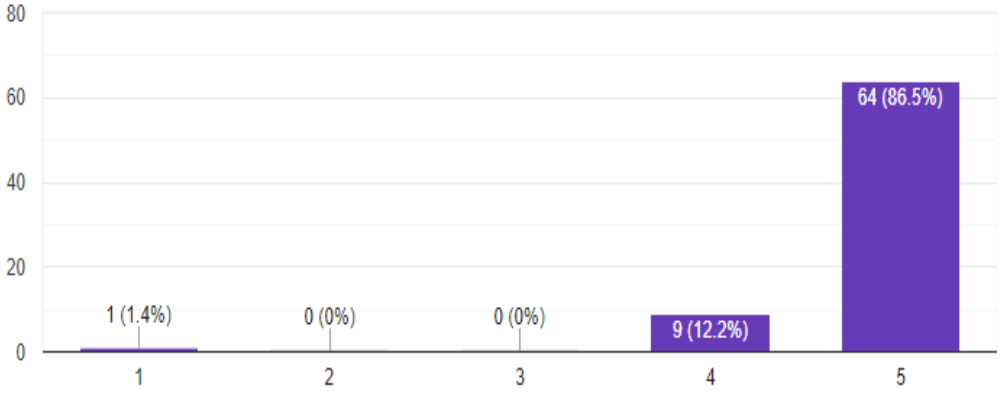
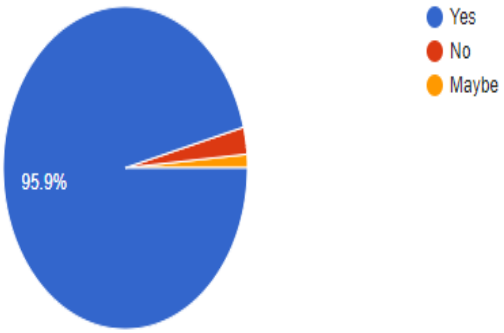
- **SWOT ANALYSIS:**

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



How satisfied were you with the STTP content?





- **BUDGET & ACTUALS: NIL**

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