Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

A

Report

of

5th International Conference on "Advancements in Nano-electronics & Communication Technologies"

ICANCT-2025

(ICANCT-2025)

Dates: May 16-17, 2025

Organized by

Department of Electronics and Communication Engineering

Table of Contents

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- Shri Raja Ram Meel, Chief Patron

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- Shri Surja Ram Meel, Chairman SKIT
- Shri Jaipal Meel, Director SKIT

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- Dr. Ashok Kumar Suhag, BML Munjal University

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- Mr. Abhinandan Jain ,ECE Department, SKIT
- Ms. Priyanka Sharma, ECE Department, SKIT

Subject: Regarding Budget approval for ICANCT – 2025 Conference

We are organizing an International conference as per following details:

Name of Conference: 5th International conference on "Advancements in Nano-electronics & Communication Technologies (ICANCT-2025)"

Mode of conduction: Hybrid

Conference Dates: 16 – 17 May, 2025

Expected Number of Participants: 35

Publication: Accepted papers will be published in conference proceedings of Springer

the Tentative Budget Plane for ICANCT – 2025 Conference as per following details: -

S. No.	**Tentative Expenses**	**Amount (in Rs.)**
1.	Refreshment & Lunch	12000/-
2.	Printing	2500/-
3.	Experts Honorarium & Travelling allowances,	20000/-
4.	Registration Kit	10000/-
5.	Publication Charges	35000/-
6.	Miscellaneous Charges	2500/-
Total Expenditure (Tentative)		82000/-
Expected Earnings from Participant Registration		35000/-
Fund required from Institute		47000/-

Hence kindly approve the above budget for successful conduction of the ICANCT – 2025 conference.

Convener: ICANCT – 2025

HOD – ECE Department

About Conference

International Conference on "**Advancement in Nano-electronics & Communication Technologies (ICANCT-2025)**" is a two-day conference that aims at presenting current researches being carried out in the areas of Communication, Nanoelectronics, Photonics, Wireless Communication, Mobile Communications, Internet of Things, Machine learning and Artificial Intelligence, Antenna and Wave Propagation and VLSI technology for scientists, researchers, academicians, industry experts, new aspirants as well as students of science and technology all around the World.

The scope of this conference encompasses the latest research outcomes in the form of theoretical models, environmental impact, security and defense technology, innovative designs, enhancements and improvements in existing frameworks, sustainable technological advancement, societal welfare, etc. Thus, the conference intends to bring together the best minds from around the world to cover literally all aspects of energy technology from a multi-disciplinary perspective.

Event Poster

ICANCT-2025

5th INTERNATIONAL CONFERENCE
ON
ADVANCEMENTS IN NANO-ELECTRONICS & COMMUNICATION TECHNOLOGIES

Organised by Department of Electronics & Communication Engineering

(May 16-17 , 2025)

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT & GRAMOTHAN , JAIPUR

ABOUT ICANCT-2025

Two Day International conference on "Advancements in Nano-electronics & Communication Technologies (ICANCT-2025) is organized by Department of Electronics & Communication Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT M & G), Jaipur during 16th-17th May 2025. This conference aims at presenting current research being carried out in the areas of Communication, Nano electronics, Photonics, Wireless Communication, Mobile Communications, Internet of Things, Machine learning and Artificial Intelligence, Antenna and Wave Propagation and VLSI Technology. The scope of this conference encompasses latest research outcomes in the form of theoretical models, environmental impact, security and defense technology, innovative designs, enhancements and improvements in existing frameworks, sustainable technological advancement, societal welfare etc. Thus the conference intends to bring together the best minds from around the world to cover literally all aspects of energy technology from a multi- disciplinary perspective.

NOTE :
Final Accepted and Presented Papers will be published with Springer in their proceedings - Communications in Computer and Information Science Series (Final Approval Pending).

CONFERENCE CHAIR

GENERAL CHAIR

- Dr. Mukesh Arora, SKIT M&G Jaipur
- Dr. Praveen Kumar Jain, SKIT M&G Jaipur

PROGRAM CHAIR

- Dr. Monika Mathur, SKIT M&G Jaipur
- Dr. Pallav Rawal, SKIT M&G Jaipur
- Dr. Tawfik Ismail, Cairo University, Egypt
- Dr. Pooja Sharma, University of Coimbra, Portugal
- Dr. Ghanshyam Singh , MNIT Jaipur
- Dr. Manish Tiwari, Manipal University Jaipur
- Dr. Sanyog Rawat, Central University Rajasthan, India

ORGAINIZING SECRETARY

- Dr. Shubhi Jain, SKIT M&G Jaipur
- Mr. Harshal Nigam, SKIT M&G Jaipur
- Mr. Rahul Pandey, SKIT M&G Jaipur
- Ms. Gloria Joseph, SKIT M&G Jaipur

TRACK 1 (NANO ELECTRONICS)

- Low-dimensional materials & 2D materials.
- Surfaces, Interfaces and Thin films.
- Nanocomposites and Nanocatalysts.
- Molecular and Nanoelectronics.
- Nanosensors and Nanoactuators.
- Photonic & Plasmonic Nanomaterials.
- Metamaterials and Metasurfaces.
- Manipulation and Characterization of Materials at Nanoscale.
- Nanodevices: Fabrication, Characterization and Application.
- Emerging Memory Technologies for High-Performance Computing.
- Biomedical nano-electronics for Personalized Healthcare.

TRACK 2 (COMMUNICATION TECHNOLOGIES)

- AI-powered Communication Networks for Smart Cities.
- Energy-Efficient Communication Protocols for Wireless Sensor Networks (WSNs).
- Millimeter Wave (mmWave) Technologies for Ultrahigh Bandwidth Communication.
- Quantum-inspired Communication Techniques.
- Reliable and Secure Communication for Autonomous Vehicles.
- Cognitive Radio Networks for Dynamic Spectrum Access.
- Visible Light Communication (VLC) for Indoor Applications.
- Nanosatellite and smart communication -IoT.
- High Speed Communication using Machine learning.
- Mobile & wireless networks.

https://icanct.skit.ac.in icanct2025@skit.ac.in

IMPORTANT DATES

START DATE OF PAPER SUBMISSION	25/12/2024
LAST DATE OF PAPER SUBMISSION	15/03/2025
ACCEPTANCE NOTIFICATION	31/03/2025
CAMERA READY PAPER SUBMISSION BEFORE	05/05/2025

CONFERENCE FEE

CATEGORY	ONLINE	PHYSICAL
STUDENTS/RESEARCH SCHOLAR	₹ 5,500/-	₹ 6,500/-
ACADEMICIANS	₹ 6,500/-	₹ 7,500/-
INDUSTRY PARTICIPANTS	₹ 7,500/-	₹ 8,500/-
NON-AUTHORS PARTICIPANT	₹ 2,000/-	₹ 3,000/-
FOREIGN DELEGATES (ALL CAREGORIES)	$80	$90

TECHNICAL SPONSOR

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OPTICA

ACKNOWLEDGMENT:- The Microsoft CMT service was used for managing the peer-reviewing process for this conference. This service was provided for free by Microsoft and they bore all expenses, including costs for Azure cloud services as well as for software development and support.

INSTRUCTIONS TO AUTHOR

- The authors are invited to submit Full papers of the Research/Review Papers. The papers will be peer-reviewed and only the accepted and registered papers will be considered for presentation during the conference and publication in the proceedings.
- Final Accepted and Presented Papers will be published with Springer in their proceedings Communications in Computer and Information Science Series (Final Approval Pending)
- All submissions need to be submitted through the CMT using the link: https://cmt3.research.microsoft.com/ICANCT2025/Submission/Index
- NOTE : Acceptance of a full-length submission is strictly based on the reviewers' comments.
- At least one of the authors of an accepted paper needs to register for the conference and present the paper(s).

Conference Schedule

Day 1: May 16, 2025 (Friday)	
9:00 AM- 09:45 AM	**Inaugural Session (online)** **Chief Guest:** **Prof. Preetam Kumar** **IIT Patna** **Guest of Honour:** **1. Dr.Debabrta Sikdar** **Associate Professor** **IIT Guwahati** **2. Dr. Jaume Anguera** **Electronics and Telecommunication Engineering,** **University Ramon Llull, Barcelona, Spain**
09:45 AM- 10:30 AM	**Invited Talk – 1 (online)** **Prof.Preetam Kumar, IIT Patna**
10:35 AM- 11:05 AM	**Invited Talk – 2 (online)** **Sai Krishna Gunda** **The Home Depot, LPL Financial, Mexico, USA** **Software Engineer**
11:05 AM – 11:30 AM	**Break**
11:30 AM – 2:00 PM	**Invited Talk – 3 (offline)** **Dr. Kamal Kishor Choure** **Assistant Professor** **SRM Institute of Science and Technology, Tamil Nadu** **Paper Presentation Session – 1 (offline)** **Session Chair:** **Dr. Kamal Kishor Choure** **Assistant Professor** **SRM Institute of Science and Technology, Tamil Nadu**
2:15 PM – 2:45 PM	**Invited Talk – 4 (online)** **Dr. Debabrata Sikdar** **Associate Professor**

	IIT Guwahati
Day 2: May 17, 2025 (Saturday)	
09:00 AM – 09:45 AM	**Invited Talk – 5: (online)** **Dr. Heena Rathore** **Texas State University, USA**
10:00 AM – 10:45 AM	**Invited Talk – 6: (online)** **Dr. Jaume Anguera** **Electronics and Telecommunication Engineering,** **University Ramon Llull, Barcelona, Spain**
11:00 AM – 1:00 PM	**Paper Presentation Session – 2 (online)** **Session Chair:** **Dr. Arun Kishor Johar, Assistant Professor, Department of Electronics and Communication Engineering, GLA University, Mathura, U.P**
1:00 PM – 1:45 PM	**Lunch Break**
1:45 PM – 2:30 PM	**Invited Talk – 7 (Online)** **Dr. Srinivasa Rao Nelamarri** **MNIT Jaipur**
2:30 PM- 3:00 PM	**Valedictory Session**

Minute to minute program of Inauguration Ceremony
Date: 16 May, 2025
Timing: 9:00 AM Onwards

Timing	Activity
9:00 – 9:05 AM	Joining the session and introduction of Guest
9:05 – 9:10 AM	Welcome Address and about SKIT by Prof. S. L. Surana, Director (Academics), SKIT, Jaipur
9:10 – 9:15 AM	About the ICANCT – 2025 Conference Prof. Praveen Kumar Jain, Chair, Dy. HOD – ECE
9:15 – 9:20 AM	Address by Guest of Honour 1: Dr. Debabrata Sikdar Associate Professor IIT Guwahati
9:20 – 9:25 AM	Address by Guest of Honour 2: Dr. Jaume Anguera Electronics and Telecommunication Engineering, University Ramon Llull, Barcelona, Spain
9:25 – 9:30 AM	Word of Wisdom by Chief Guest: Prof. Preetam Kumar IIT Patna
9:30– 9:35 AM	Souvenir Presentation
9:35 – 9:45 AM	Vote of Thanks by Dr. Pallav Rawal Convenor, ICANCT – 2025

Swami Keshvanand Institute of Technology, Management & Gramothan

(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)
Accredited with 'A++' grade by NAAC

Department of Electronics and Communication Engineering

Presents

INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN NANO-ELECTRONICS & COMMUNICATION TECHNOLOGIES (ICANCT-2025)

MAY 16-17, 2025

Keynote Speakers

Dr. Jaume Anguera
University Ramon Llull, Founder and CTO at the technology company Ignion (Barcelona, Spain)

Dr. Heena Rathore
Texas State University, USA

Dr. Preetam Kumar
IIT Patna

Dr. Srinivasa Rao Nelamarri
MNIT jaipur

SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY MANAGEMENT & GRAMOTHAN JAIPUR

DEPARTMENT OF ELECTRONICS & COMMUNICATION

PRESENTS

INTERNATIONAL CONFERENCE ON ADVANCEMENT IN NANO-ELECTRONICS & COMMUNICATION TECHNOLOGIES

ICANCT-2025

MAY 16-17 , 2025

INAUGURATION CEREMONY

CHIEF GUEST

Prof.Preetam Kumar
IIT Patna

GUEST OF HONOUR

Dr. Debabrata Sikdar
Associate Professor , IIT Guwahati

Dr. Jaume Anguera
Professor, University at Ramon Llull

Technical Report

Day-1 started with the inaugural ceremony Professor Pretam Kumar , IIT Patna, was the chief guest for inaugural ceremony along with our Guest of Honor Dr. Debabrata Sikdar Professor IIT Guwahati, Dr. Jaume Anguera E&T Engineering University Ramon Luill Barcelona,Spain In the Inauguration Ceremony Prof. S. L. Surana, Director (Academics), Prof. Monika Mathur, Dr Pallav Rawal , Prof. Mukesh Arora, Conference Chair, Head ECE & OFA, and Prof. P. K. Jain, Conference - Convener were also present.

In this conference total 95 papers were received, out of those total 35 papers were selected.
On first day there were total three invited talks. First talk was given by. Professor Pretam Kumar IIT Patna, He discussed about importance of such conferences for students and researchers to understand current state of art technology he mentioned the rapid growth of data rates and the evolving definition of technology beyond size. Also he delivered a talk on "5G: Challenges and enabling technologies".

Second session was started with the expert talk of Sai Krishna Gunda, Home Depott., financial Mexico USA SOFTWARE ENGINEER. He discussed about the AI & ML at the frontiers of nanoelectronics and communication technologies.
Next session was taken by Dr. Kamal Kishore choure assistant professor SRM institute science and technology Tamil Nadu. Her topic of expert talk was "Quantum computing and its applications".
After the expert talks, Paper presentation session-1 was started. In this session, there was one session chair: 1. Dr. kamal Kishore choure, assistant professor SRM institute of science and technology tamil nadu. total 5 papers were presented during this session.
The last expert lecture of Day 1 was given by Dr.Debabrata Sikdar Associate Professor IIT GUWAHATI on topic "Nanophotonic Metamaterials utilizing Epsilon-Near-Zero-Effect for Free-space Optical Intensity & Polarization Modulation".

DAY - 2 was started with 2 expert talks in online mode. 1st talk was delivered by Dr. Heena athore, Texas state university USA. Her topic of expert talk was Security and safety for autonomous vehicles using generative AI". She discussed about How Hackers Can Heck Self Driving Cars, Av Communication.& in Second talk Dr Jaume Anguera, shared his topic on antenna booster tech for wireless communication and also emphasized the importance of industry academia collaboration He quoted Dr APJ Abdul kalam inspiring participants to face challenges and discover their inner strength.

In day – 2, we were having sessions of papers presentation.
Paper presentation session – 2, was chaired by Dr. Arun kumar Kishore johar
Assoc. Professor, Deptt. of electronics and communication engineering GLA University Mathura UP In this session total 7 papers were presented.
Then after lunch of Day – 2, we had an online expert talks.

1st Invited talk was given by Dr.Srinivas Rao Nelamarri MNIT JAIPUR ,. His topic of expert talk was "Ion beam modification of structural and optical properties of semiconductor and oxide materials for optoelectronic applications" The conference ended with valedictory session wherein Dr.Srinivas Rao continued as guest of honor.

Session-wise details

Paper Presentation Session-1 (offline)

(11:30 AM -2:00 PM) , May 16, 2025

S.N	Name of Author's	Paper Title	Paper ID	Institute/Organization Name	Mode of Presentation (Online/ Offline)
1	Birendra Kumar Pandey	Design and Analysis of a Dual-Band MIMO Antenna for 5G Applications at 26.3 GHz and 39.3 GHz	93	SKIT	Offline
2	Vipin Choudhary	From Spatial Filters to Smart Surfaces: The Transformative Journey of Frequency Selective Surfaces	34	Department of Physics, University of Rajasthan Jaipur	Offline
3	Syed Harish, I.B. Sharma and K. K. choure	Smart Harvest: Deep Reinforcement Learning for Crop Yield Prediction	95	SRMIST, SRM UNIVERSITY, KATTANKULLATUR	Offline
4	Ravi Sangwa	Design of a miniaturized Fractal Ground Antenna on 3D Printed TPU Substrate for UAVs application	46	NITTTR Chandigarh	Offline
5	Naresh Kumar Meena	An Analysis of 3D printed substrate on PIFA for Wi-Fi/Bluetooth, 4G LTE (S band) Application	63	National Institute of Technical Teachers Training and Research, Chandigarh	Offline

Paper Presentation Session-2 (online)
(11:00 AM -1:00 PM), May 17, 2025

S.N	Name of Author's	Paper Title	Paper ID	Institute/Organization Name	Mode of Presentation (Online/ Offline)
1	Sonia Joshi	Element Design Using Metamaterial Inspired Fractal Square Patches Metal and Complementary	69	Sardar Patel Institute of Technology	Online
2	Satyendra Kumar	Study of an Efficient and Flexible Thin Film Solar Cell	85	St. Wilfred's PG College, Jaipur	Online
3	Saraswathi V	DYNAMIC TRAFFIC SIGNAL REGULATION LEVERAGING MICRO GENETIC ALGORITHMS AND FUZZY LOGIC	60	S.A. ENGINEERING COLLEGE	Online
4	G Ashwini	ICD-U-Net: A Novel Approach for Medical Image Segmentation	72	SRI VENKATESWARA UNIVERSITY COLLEGE OF ENGINEERING, TIRUPATI	Online
5	Nainika Agrawal	Analysis of Cu2ZnSn as Promising Photovoltaic Absorber	88	SKIT	Online
6	Subhiksha S	Design and Analysis of Microstrip patch antenna for wireless application at multi band	61	Dr. Mahalingam College of Engineering and Technology, Pollachi	Online
7	Syed Harish, I.B. Sharma and K. K. choure	Smart Harvest: Deep Reinforcement Learning for Crop Yield Prediction	95	SRMIST, SRM UNIVERSITY, KATTANKULLATUR	Online

Certificates

International Conference on
Advancement in Nano Electronics & Communication Technologies
(May 16-17 , 2025)

ICANCT - 2025

CERTIFICATE OF APPRECIATION

This is to certify that **Dr. Kamal Kishor Choure** of SRM Institute of Science and Technology, Tamil Nadu has been recognized and honored for their invaluable contribution as a **Keynote Speaker** on topic "Quantum computing and its applications" in the International Conference on "Advancement in Nano Electronics & Communication Technologies **(ICANCT-2025)**" held during **May 16–17, 2025**.

Prof. Mukesh Arora (Conference Chair)
Prof. Monika Mathur (Convener)
Dr. Pallav Rawal (Convener)

International Conference on
Advancement in Nano Electronics & Communication Technologies
(May 16-17 , 2025)

ICANCT - 2025

CERTIFICATE OF APPRECIATION

This is to certify that **Dr. Heena Rathore** of Texas State University , USA has been recognized and honored for their invaluable contribution as a **Keynote Speaker** on topic "Security and safety for autonomous vehicles using generative AI " in the International Conference on "Advancement in Nano Electronics & Communication Technologies **(ICANCT-2025)**" held during **May 16–17, 2025**.

Prof. Mukesh Arora (Conference Chair)
Prof. Monika Mathur (Convener)
Dr. Pallav Rawal (Convener)

International Conference on
Advancement in Nano Electronics & Communication Technologies
(May 16-17 , 2025)

ICANCT - 2025

CERTIFICATE OF APPRECIATION

This is to certify that **Dr. Debabrata Sikdar** of IIT Guwahati has been recognized and honored for their invaluable contribution as a **Keynote Speaker** on topic "Nanophotonic Metamaterials utilizing Epsilon-Near-Zero-Effect for Free-space Optical Intensity & Polarization Modulation" in the International Conference on "Advancement in Nano Electronics & Communication Technologies **(ICANCT-2025)**" held during **May 16–17, 2025**.

Prof. Mukesh Arora (Conference Chair)
Prof. Monika Mathur (Convener)
Dr. Pallav Rawal (Convener)

International Conference on
Advancement in Nano Electronics & Communication Technologies
(May 16-17 , 2025)

ICANCT - 2025

CERTIFICATE OF APPRECIATION

This is to certify that **Dr. Jaume Anguera** of University Ramon Llull, Barcelona, Spain has been recognized and honored for their invaluable contribution as a **Keynote Speaker** on topic "Antenna booster technology for wireless communications" in the International Conference on "Advancement in Nano Electronics & Communication Technologies **(ICANCT-2025)**" held during **May 16–17, 2025**.

Prof. Mukesh Arora (Conference Chair) | Prof. Monika Mathur (Convener) | Dr. Pallav Rawal (Convener)

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This is to certify that **Dr. Kamal Kishor Choure** of SRM Institute of Science and Technology, Tamil Nadu has been recognized and honored for their invaluable contribution as a **Session Chair** in the International Conference on "Advancement in Nano Electronics & Communication Technologies **(ICANCT-2025)**" held during **May 16–17, 2025**.

Prof. Mukesh Arora (Conference Chair) | Prof. Monika Mathur (Convener) | Dr. Pallav Rawal (Convener)

International Conference on
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ICANCT - 2025

CERTIFICATE OF APPRECIATION

This is to certify that **Sai Krishna Gunda** of The Home Depot, LPL Financial, Mexico, USA has been recognized and honored for their invaluable contribution as a **Keynote Speaker** on topic "AI & ML at the frontiers of nanoelectronics and communication technologies" in the International Conference on "Advancement in Nano Electronics & Communication Technologies **(ICANCT-2025)**" held during **May 16–17, 2025**.

Prof. Mukesh Arora (Conference Chair) | Prof. Monika Mathur (Convener) | Dr. Pallav Rawal (Convener)

International Conference on
Advancement in Nano Electronics & Communication Technologies
(May 16-17 , 2025)

ICANCT - 2025

CERTIFICATE OF APPRECIATION

This is to certify that **Dr. Arun Kishor Johar** of GLA University, Mathura has been recognized and honored for their invaluable contribution as a **Session Chair** in the International Conference on "Advancement in Nano Electronics & Communication Technologies **(ICANCT-2025)**" held during **May 16–17, 2025**.

Prof. Mukesh Arora (Conference Chair) | Prof. Monika Mathur (Convener) | Dr. Pallav Rawal (Convener)

International Conference on
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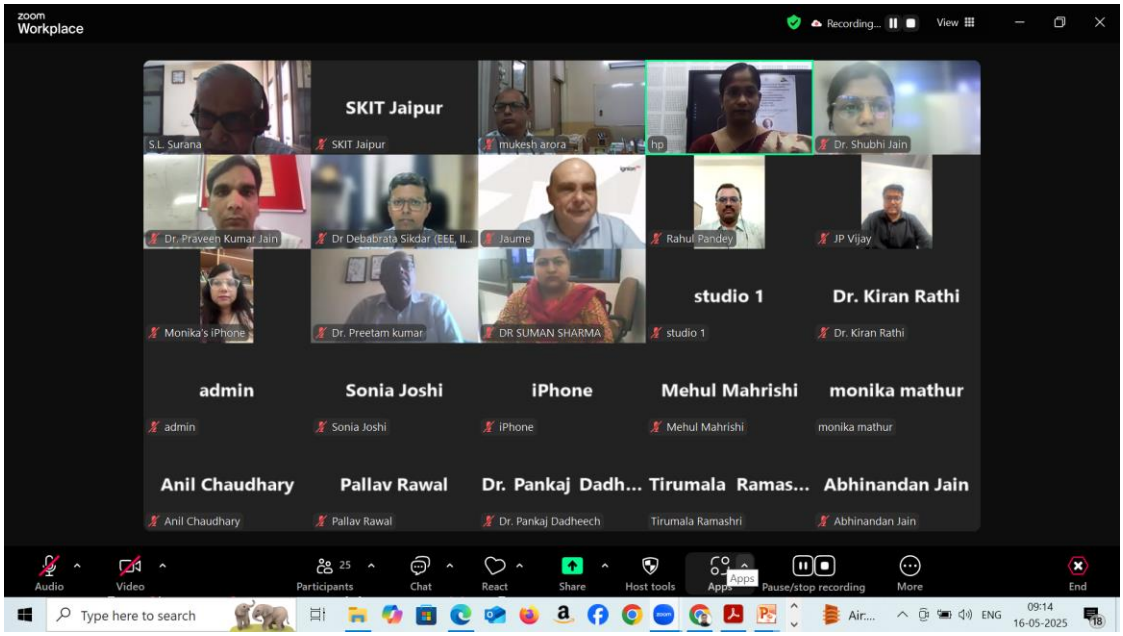
ICANCT - 2025

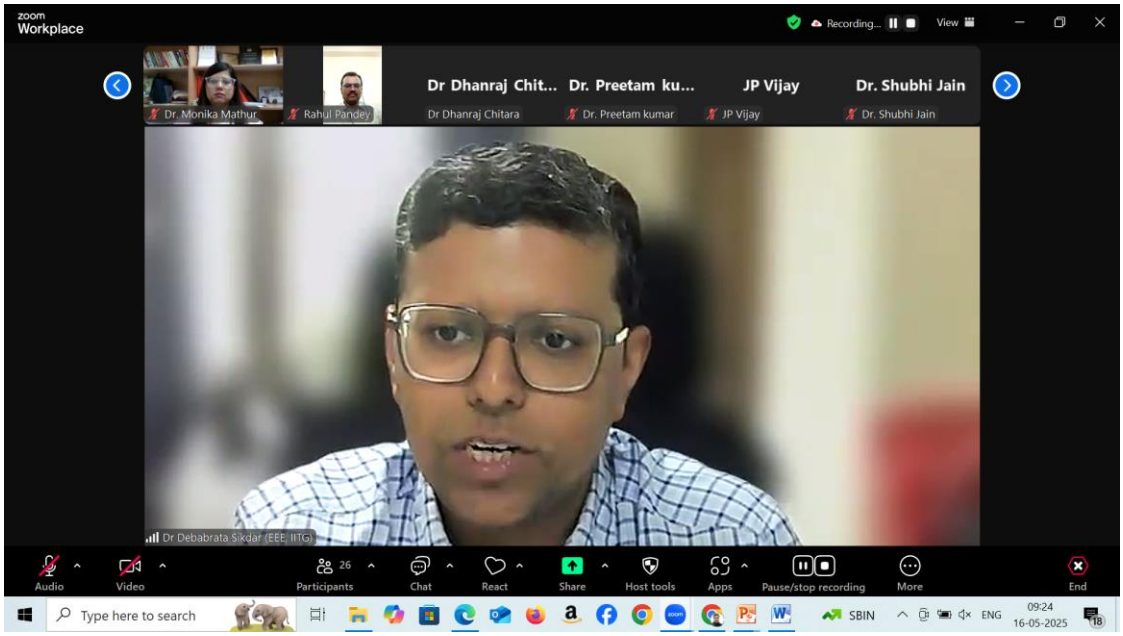
CERTIFICATE OF APPRECIATION

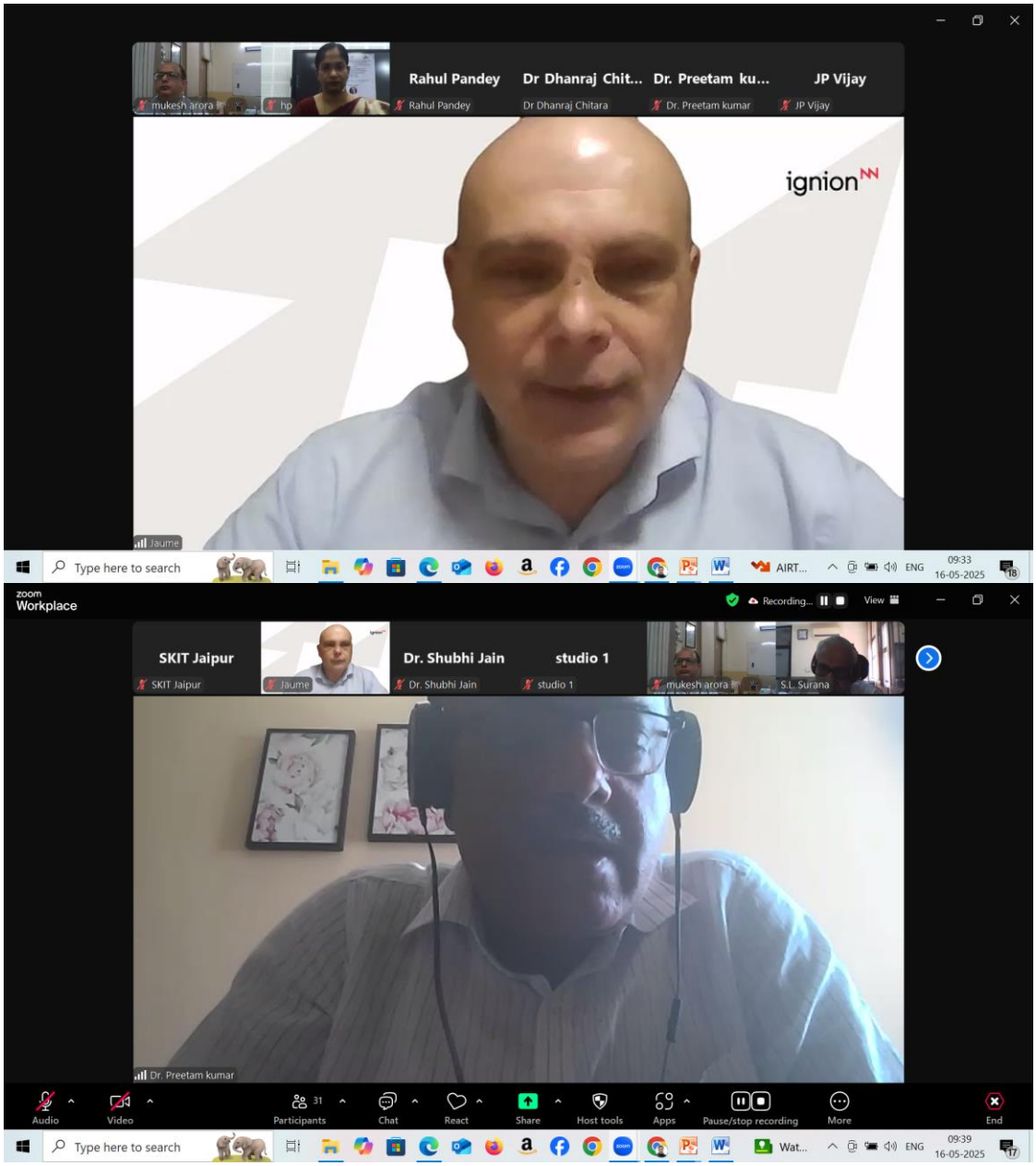
This is to certify that **Dr. Srinivasa Rao Nelamarri** of MNIT Jaipur has been recognized and honored for their invaluable contribution as a **Keynote Speaker** on topic "Ion beam modification of structural and optical properties of semiconductor and oxide materials for optoelectronic applications" in the International Conference on "Advancement in Nano Electronics & Communication Technologies **(ICANCT-2025)**" held during **May 16–17, 2025**.

Prof. Mukesh Arora (Conference Chair) | Prof. Monika Mathur (Convener) | Dr. Pallav Rawal (Convener)

Photographs of the event



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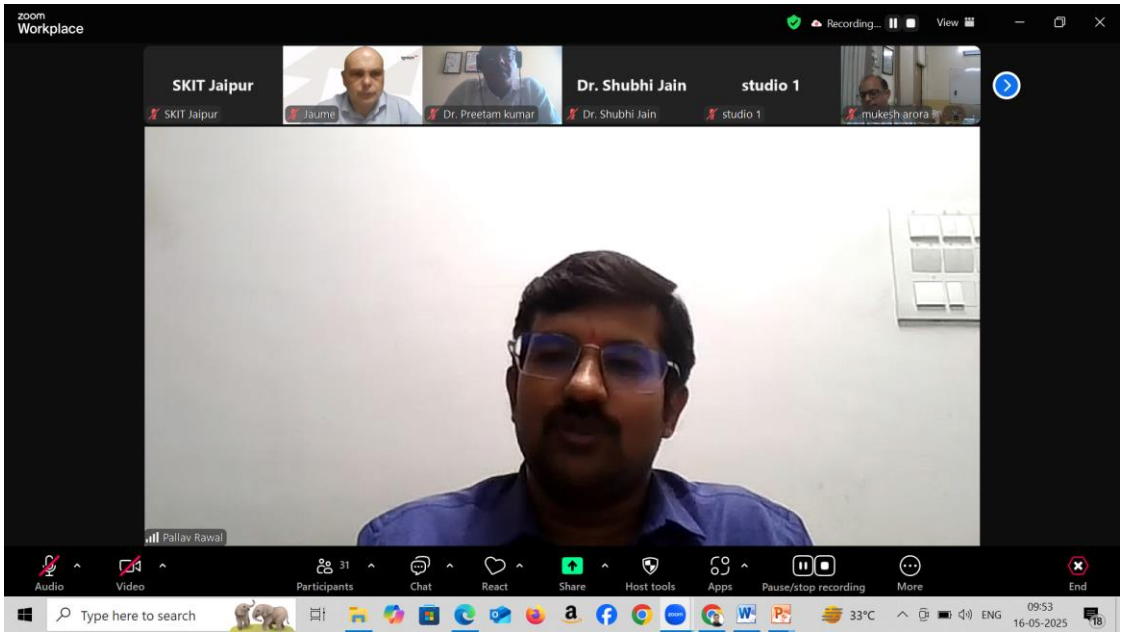
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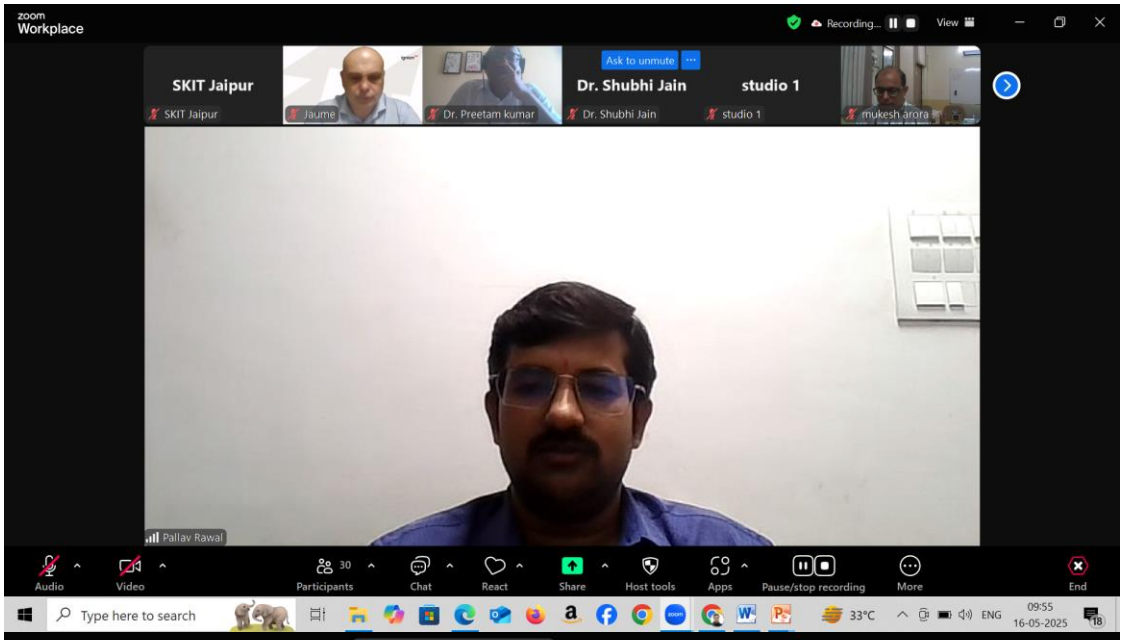
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Jaume
Dr. Preetam kumar
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Dr. Shubhi Jain
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Pallav Rawal
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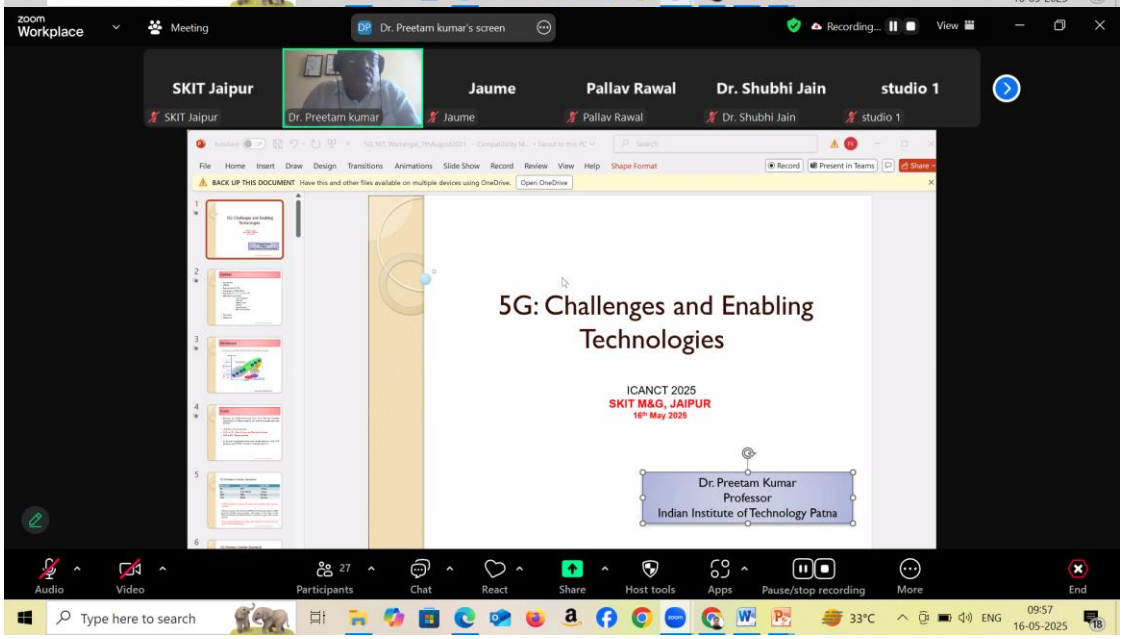
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Pallav Rawal
Dr. Shubhi Jain
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5G: Challenges and Enabling Technologies
ICANCT 2025
SKIT M&G, JAIPUR
16th May 2025
Dr. Preetam Kumar
Professor
Indian Institute of Technology Patna
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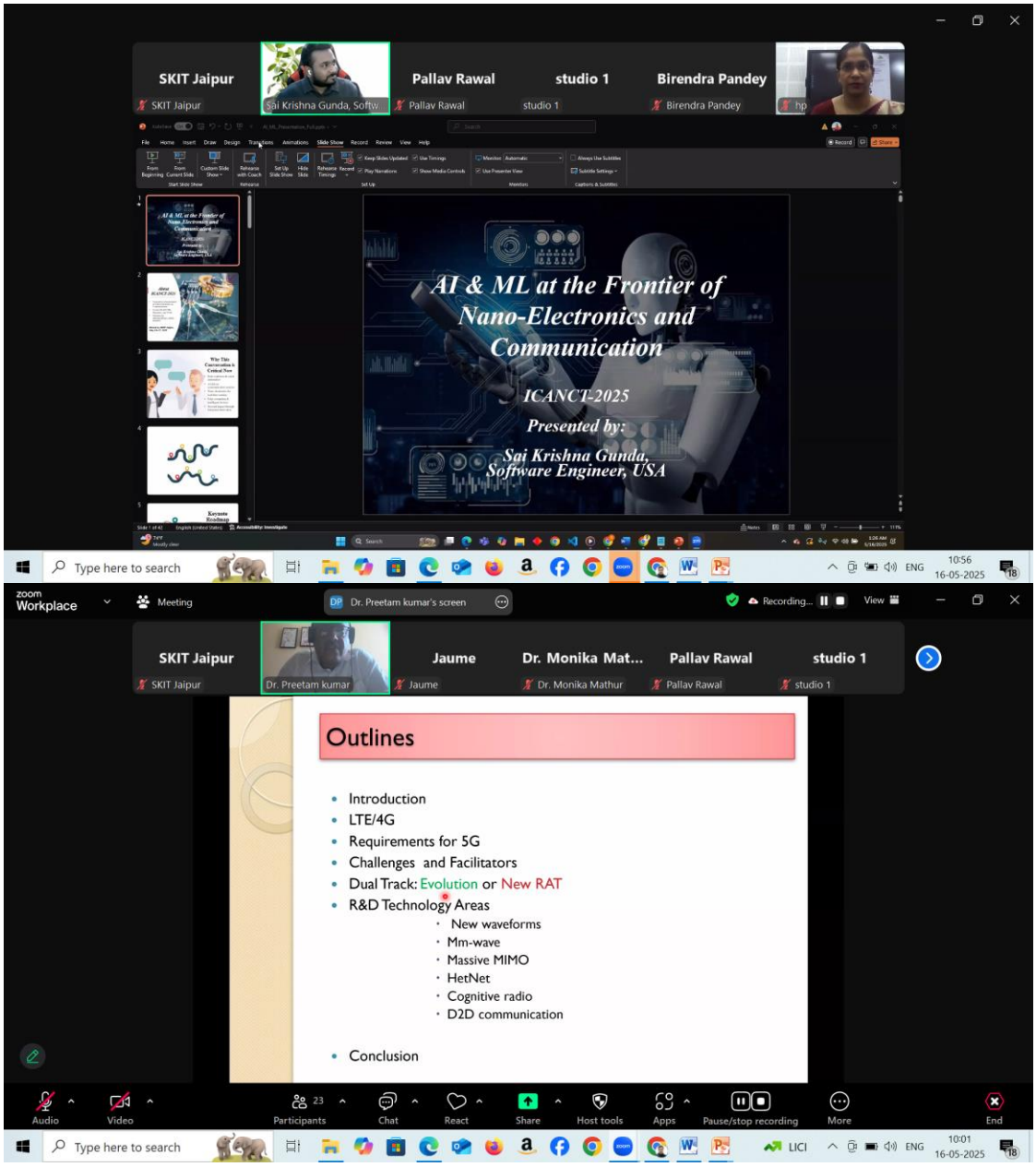
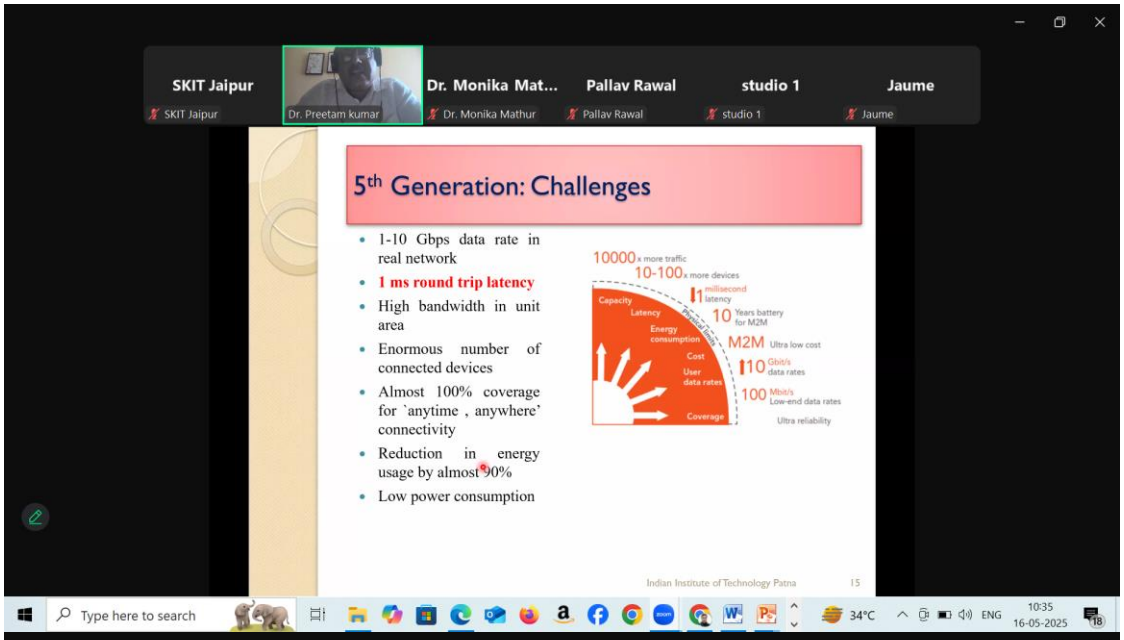

SKIT Jaipur
Pallav Rawal
studio 1
Birendra Pandey
AI & ML at the Frontier of Nano-Electronics and Communication
ICANCT-2025
Presented by:
Sai Krishna Gunda,
Software Engineer, USA
Outlines
Introduction
LTE/4G
Requirements for 5G
Challenges and Facilitators
Dual Track: Evolution or New RAT
R&D Technology Areas
New waveforms
Mm-wave
Massive MIMO
HetNet
Cognitive radio
D2D communication
Conclusion


SKIT Jaipur
Dr. Preetam kumar
Dr. Monika Mat...
Pallav Rawal
studio 1
Jaume
5th Generation: Challenges
1-10 Gbps data rate in real network
1 ms round trip latency
High bandwidth in unit area
Enormous number of connected devices
Almost 100% coverage for `anytime , anywhere' connectivity
Reduction in energy usage by almost 90%
Low power consumption
10000 x more traffic
10-100 x more devices
1 millisecond latency
10 Years battery for M2M
M2M Ultra low cost
10 Gbit/s data rates
100 Mbit/s Low-end data rates
Ultra reliability
Capacity
Latency
Energy consumption
Cost
User data rates
Coverage
Indian Institute of Technology Patna
15
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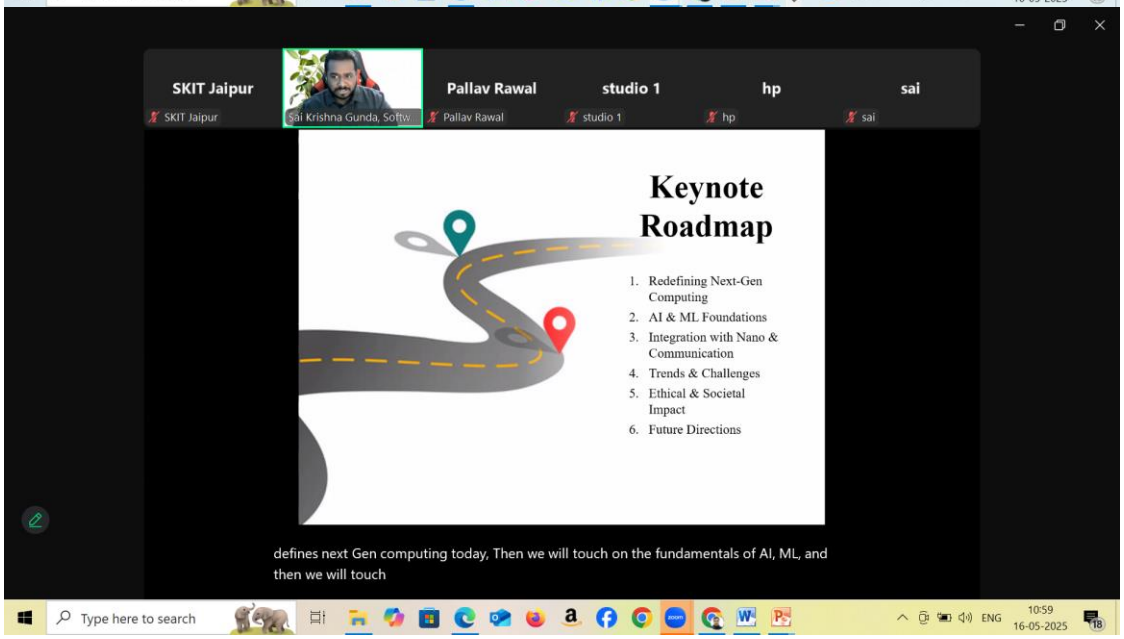
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Sai Krishna Gunda, Softw
Pallav Rawal
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sai
Keynote Roadmap
1. Redefining Next-Gen Computing
2. AI & ML Foundations
3. Integration with Nano & Communication
4. Trends & Challenges
5. Ethical & Societal Impact
6. Future Directions
defines next Gen computing today, Then we will touch on the fundamentals of AI, ML, and then we will touch
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Dr. Shubhi Jain
Dr. Kiran Rathi
Dr. Shubhi Jain
Pallav Rawal
Nanophotonic Metamaterials utilizing Epsilon-Near-Zero Effect for Free-space Optical Intensity & Polarization Modulation
Dr. Debabrata Sikdar
Associate Professor
Department of Electronics and Electrical Engineering
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Birendra Pandey
Dr. Shubhi Jain
Dr. Kiran Rathi
Pallav Rawal
CONTENTS
Harnessing ENZ Effect in Nanophotonic Metamaterials via
Introduction
Scheme I
Scheme II
Scheme III
Why Metamaterial based Optical Modulators?
Introducing ENZ Effect & Materials
Dual-band Electro-Optic Intensity Modulation
Polarization-insensitive Electro-Optic Intensity Modulation
Metamaterial based Electro-Optic Polarization Modulation
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Your innovation. Accelerated.
Antenna Booster Technology for Wireless Communications
Dr. Jaume Anguera, IEEE Fellow
IEEE Distinguished Lecturer Antennas and Propagation
Founder and CTO at Ignion
Professor at Universitat Ramon Llull
Barcelona, Spain
Jaume.anguera@ignion.io, jaume.anguera@salle.url.edu
5th International Conference on Advancement in Nano Electronics & Communication Technologies - 2025
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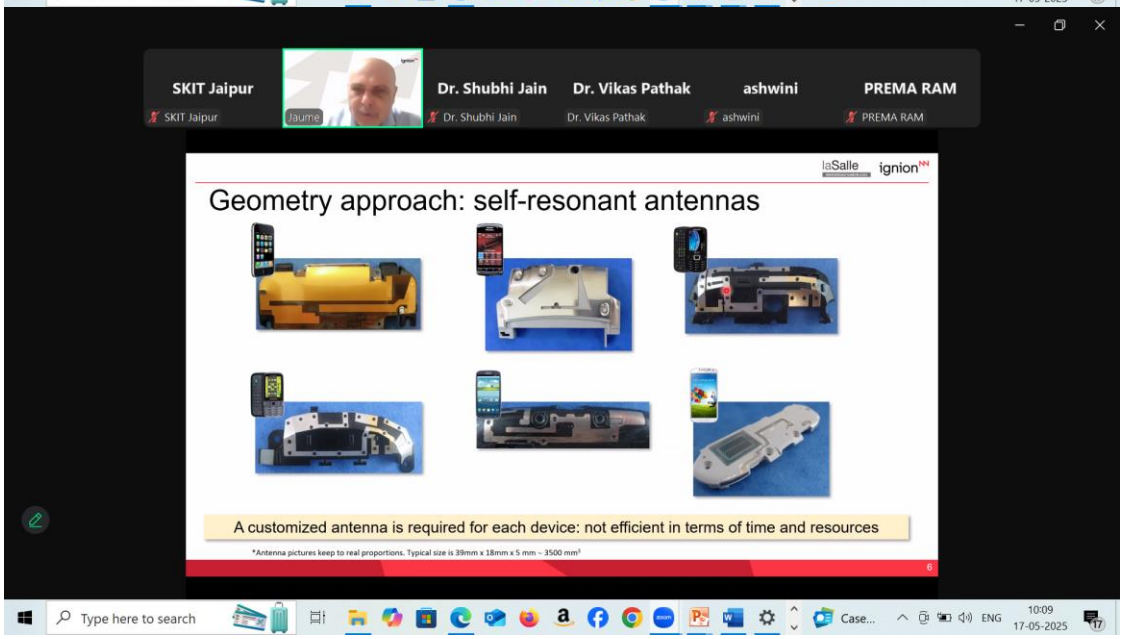
SKIT Jaipur
Jaume
Dr. Shubhi Jain
Dr. Vikas Pathak
ashwini
PREMA RAM
laSalle
ignion
Geometry approach: self-resonant antennas
A customized antenna is required for each device: not efficient in terms of time and resources
*Antenna pictures keep to real proportions. Typical size is 39mm x 18mm x 5 mm ~ 3500 mm³
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Case...
ENG
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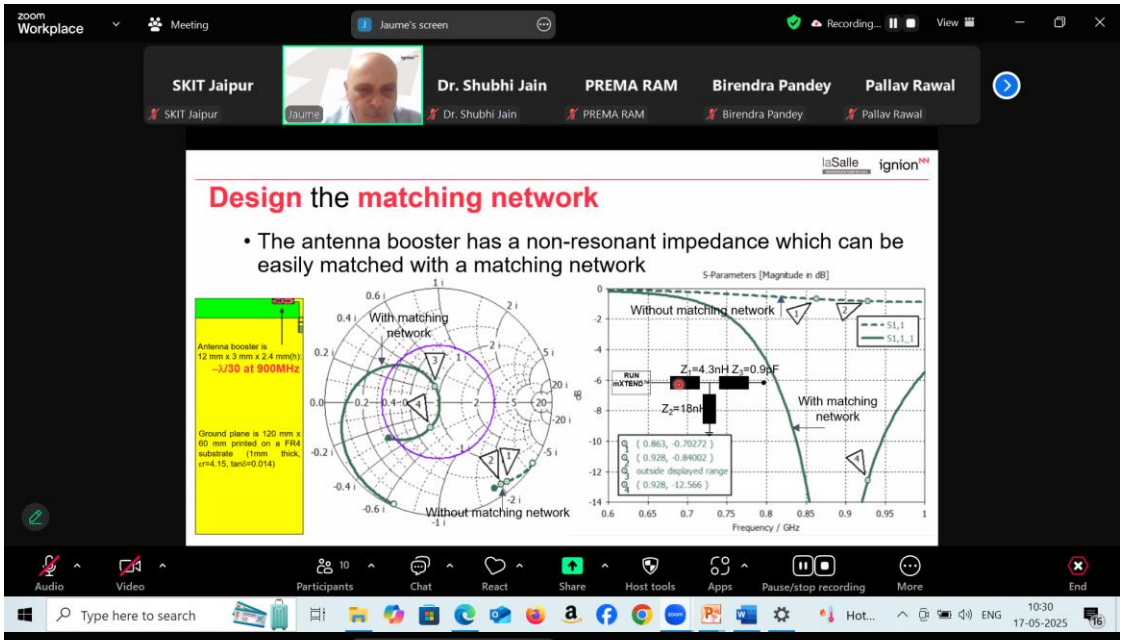
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PREMA RAM
Birendra Pandey
Pallav Rawal
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ignion
Design the matching network
• The antenna booster has a non-resonant impedance which can be easily matched with a matching network
Antenna booster is 12 mm x 3 mm x 2.4 mm(h); ~λ/30 at 900MHz
Ground plane is 120 mm x 60 mm printed on a FR4 substrate (1mm thick, εr=4.15, tanδ=0.014)
With matching network
Without matching network
S-Parameters [Magnitude in dB]
Without matching network
With matching network
Z1=4.3nH Z2=0.9pF
Z3=18nH
Frequency / GHz
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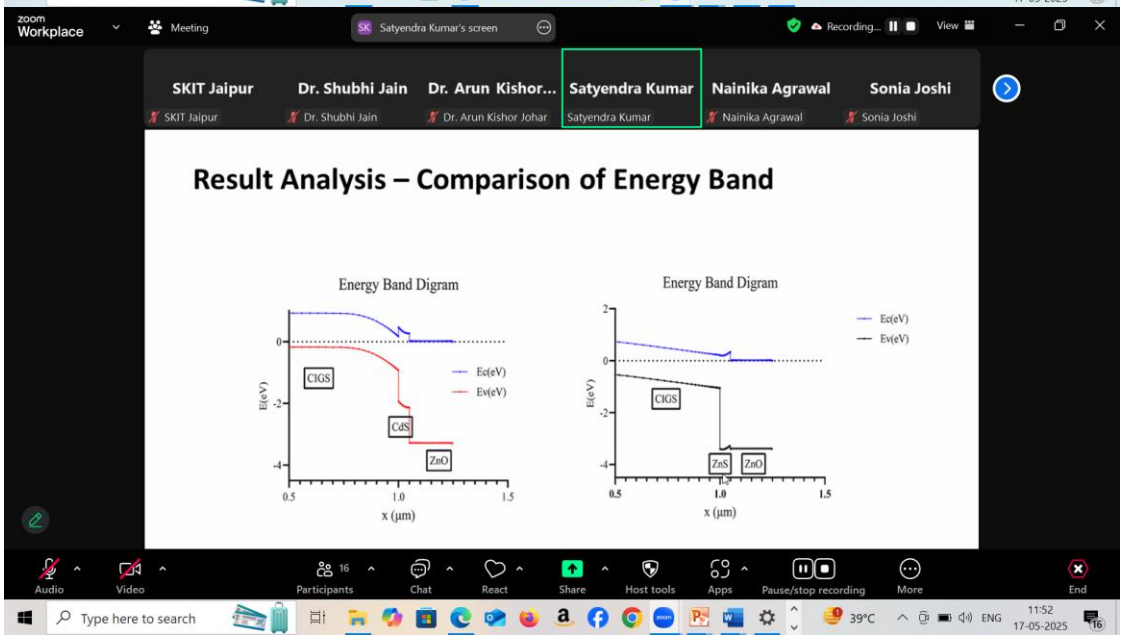
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SKIT Jaipur
Dr. Shubhi Jain
Dr. Arun Kishor...
Satyendra Kumar
Nainika Agrawal
Sonia Joshi
Result Analysis – Comparison of Energy Band
Energy Band Digram
Ec(eV)
Ev(eV)
CIGS
CdS
ZnO
E(eV)
x (μm)
Energy Band Digram
Ec(eV)
Ev(eV)
CIGS
ZnS
ZnO
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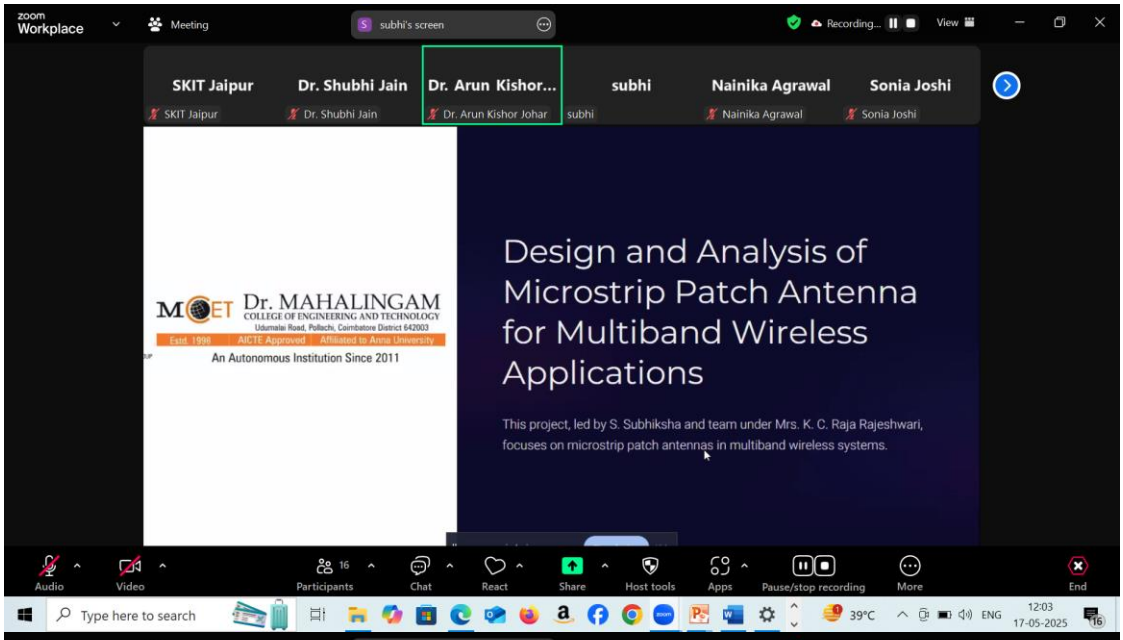
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subhi's screen
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SKIT Jaipur
Dr. Shubhi Jain
Dr. Arun Kishor...
subhi
Nainika Agrawal
Sonia Joshi
Dr. MAHALINGAM
COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution Since 2011
Design and Analysis of Microstrip Patch Antenna for Multiband Wireless Applications
This project, led by S. Subhiksha and team under Mrs. K. C. Raja Rajeshwari, focuses on microstrip patch antennas in multiband wireless systems.
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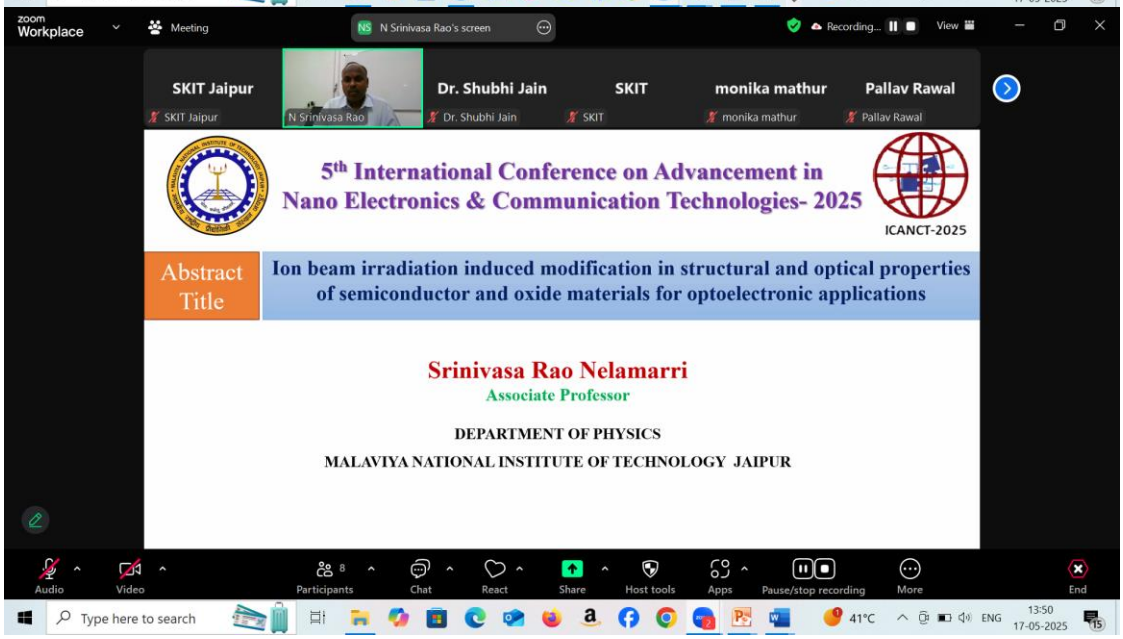
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SKIT Jaipur
N Srinivasa Rao
Dr. Shubhi Jain
SKIT
monika mathur
Pallav Rawal
5th International Conference on Advancement in Nano Electronics & Communication Technologies- 2025
ICANCT-2025
Abstract Title
Ion beam irradiation induced modification in structural and optical properties of semiconductor and oxide materials for optoelectronic applications
Srinivasa Rao Nelamarri
Associate Professor
DEPARTMENT OF PHYSICS
MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
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17-05-2025

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N Srinivasa Rao

Lab facilities

3/52

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ENG 13:51 17-05-2025

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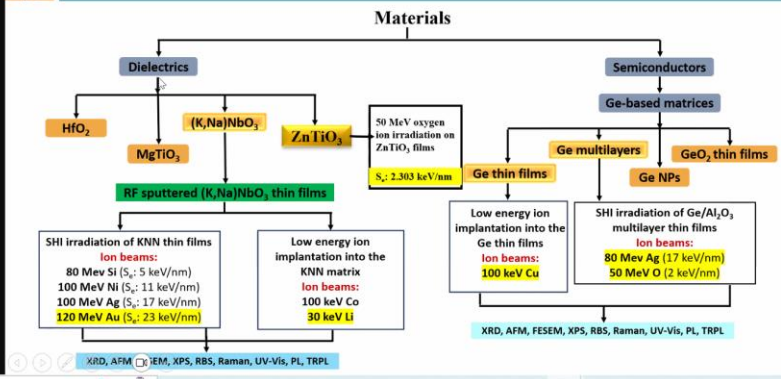
N Srinivasa Rao

Overview of our group research work at MNIT Jaipur

6/52



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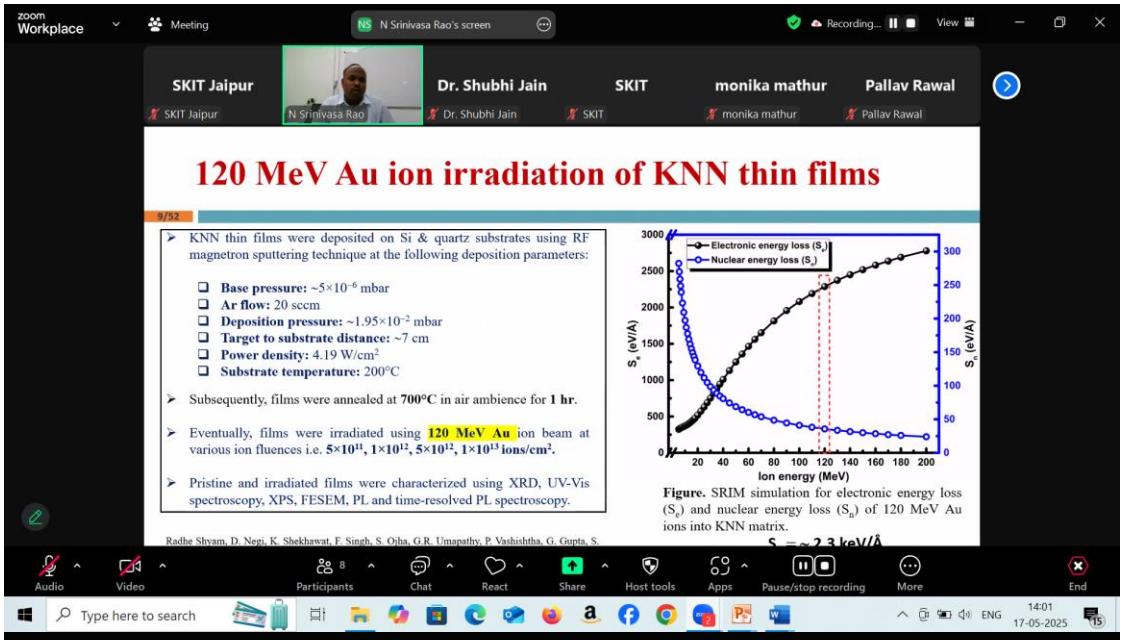
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monika mathur
Pallav Rawal
N Srinivasa Rao
120 MeV Au ion irradiation of KNN thin films
9/52
KNN thin films were deposited on Si & quartz substrates using RF magnetron sputtering technique at the following deposition parameters:
Base pressure: ~5×10⁻⁶ mbar
Ar flow: 20 sccm
Deposition pressure: ~1.95×10⁻² mbar
Target to substrate distance: ~7 cm
Power density: 4.19 W/cm²
Substrate temperature: 200°C
Subsequently, films were annealed at 700°C in air ambience for 1 hr.
Eventually, films were irradiated using 120 MeV Au ion beam at various ion fluences i.e. 5×10¹¹, 1×10¹², 5×10¹², 1×10¹³ ions/cm².
Pristine and irradiated films were characterized using XRD, UV-Vis spectroscopy, XPS, FESEM, PL and time-resolved PL spectroscopy.
Electronic energy loss (Se)
Nuclear energy loss (Sn)
Se (eV/Å)
Sn (eV/Å)
Ion energy (MeV)
Figure. SRIM simulation for electronic energy loss (Se) and nuclear energy loss (Sn) of 120 MeV Au ions into KNN matrix.
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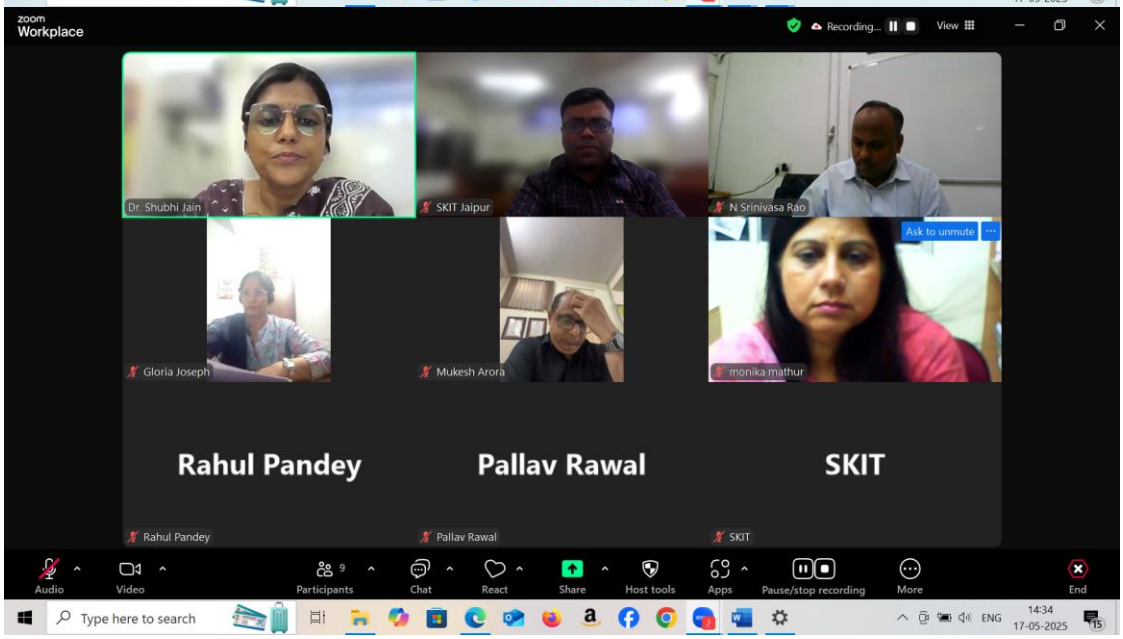
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Gloria Joseph
Mukesh Arora
monika mathur
Rahul Pandey
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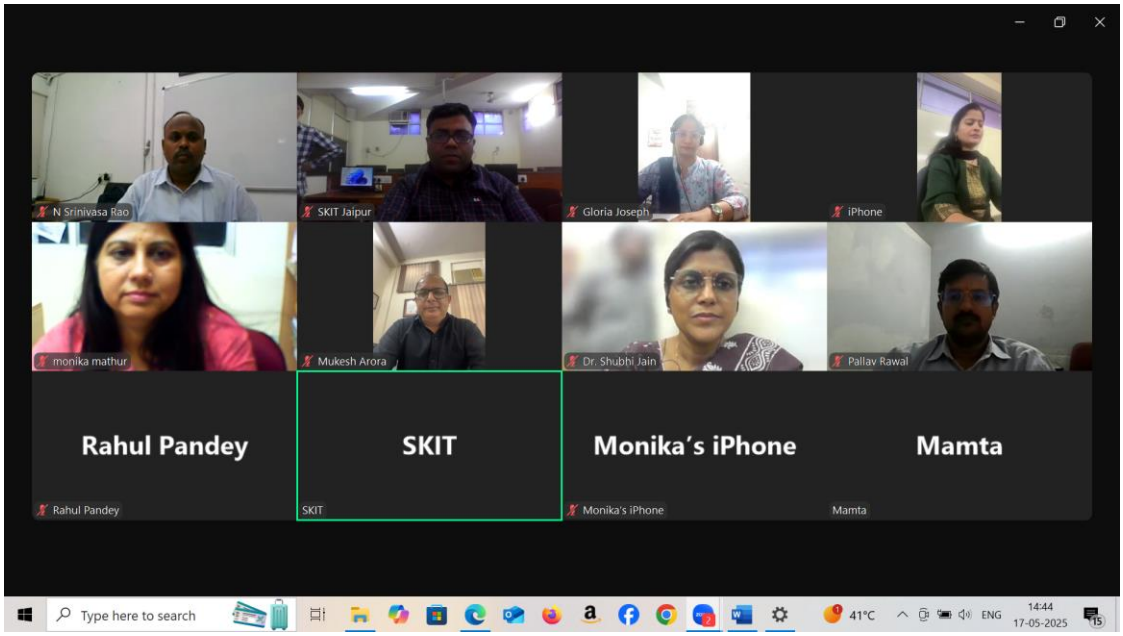
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SKIT Jaipur
Gloria Joseph
iPhone
monika mathur
Mukesh Arora
Dr. Shubhi Jain
Pallav Rawal
Rahul Pandey
SKIT
Monika's iPhone
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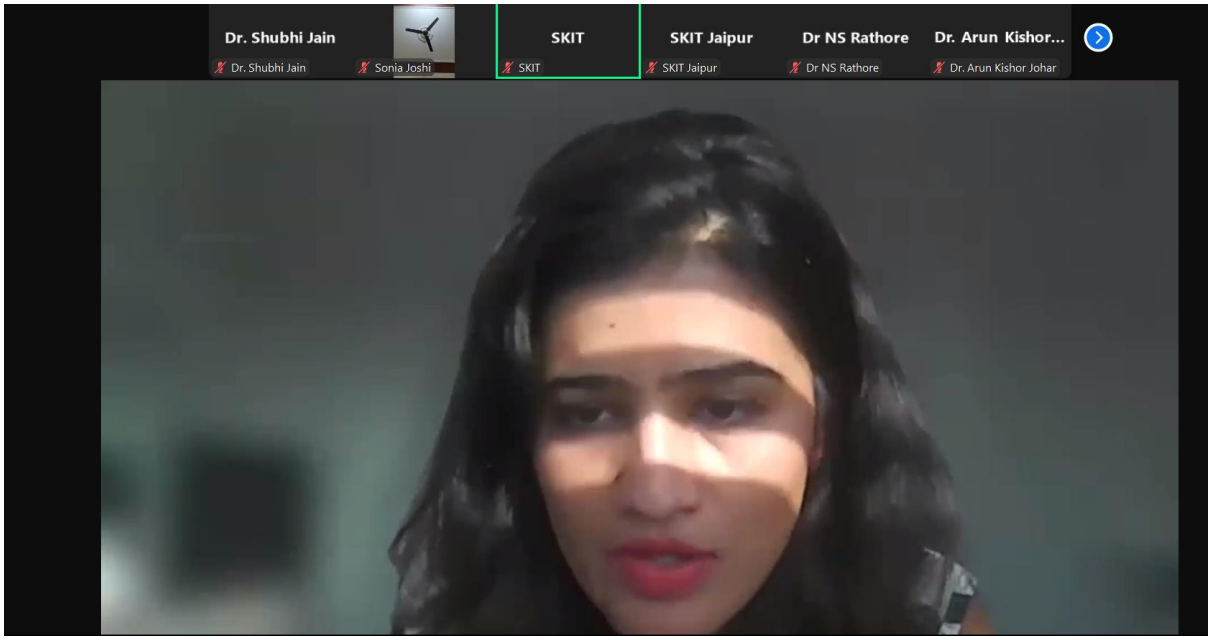
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Sonia Joshi
SKIT
SKIT Jaipur
Dr NS Rathore
Dr. Arun Kishor...
Dr. Shubhi Jain
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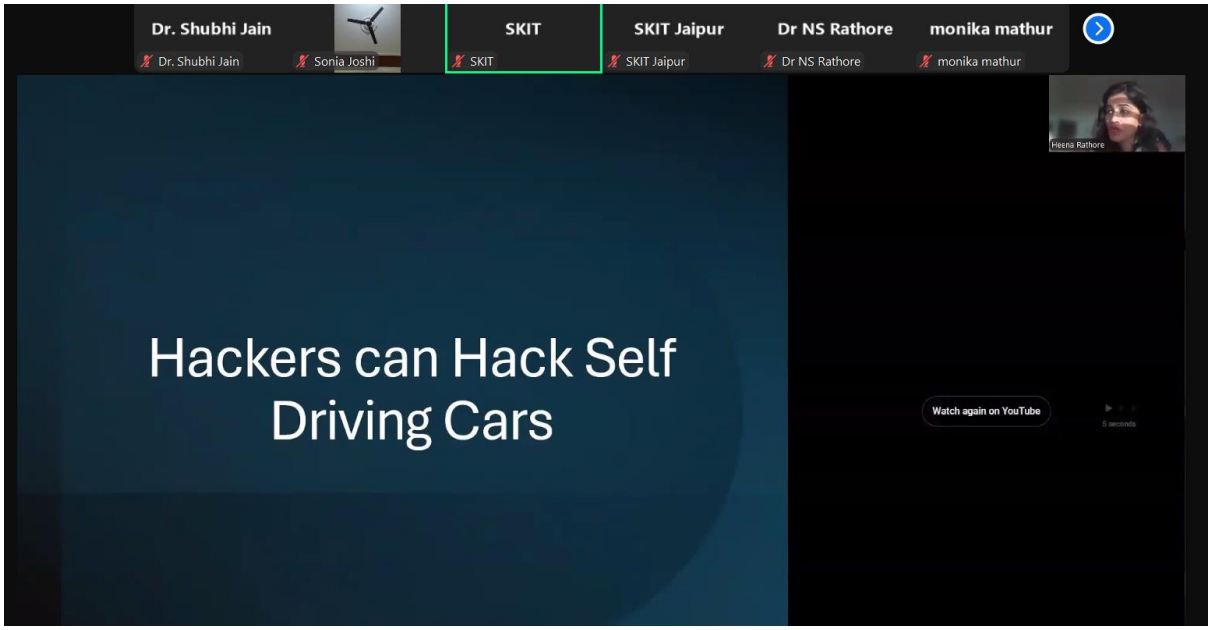
SKIT Jaipur
Dr NS Rathore
Dr. Arun Kishor Johar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Dr NS Rathore
Dr NS Rathore
monika mathur
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Hackers can Hack Self Driving Cars
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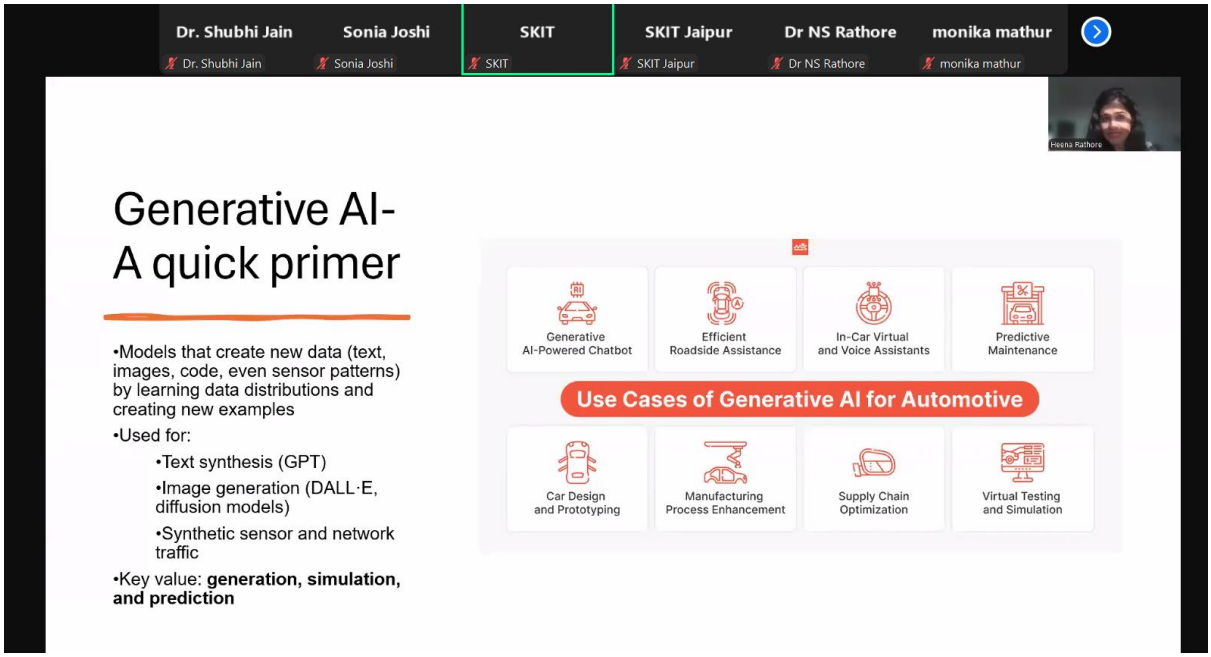
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Dr. Shubhi Jain
Sonia Joshi
Sonia Joshi
SKIT
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Dr NS Rathore
Dr NS Rathore
monika mathur
monika mathur
Heena Rathore
Generative AI-
A quick primer
•Models that create new data (text, images, code, even sensor patterns) by learning data distributions and creating new examples
•Used for:
•Text synthesis (GPT)
•Image generation (DALL·E, diffusion models)
•Synthetic sensor and network traffic
•Key value: generation, simulation, and prediction
Generative AI-Powered Chatbot
Efficient Roadside Assistance
In-Car Virtual and Voice Assistants
Predictive Maintenance
Use Cases of Generative AI for Automotive
Car Design and Prototyping
Manufacturing Process Enhancement
Supply Chain Optimization
Virtual Testing and Simulation

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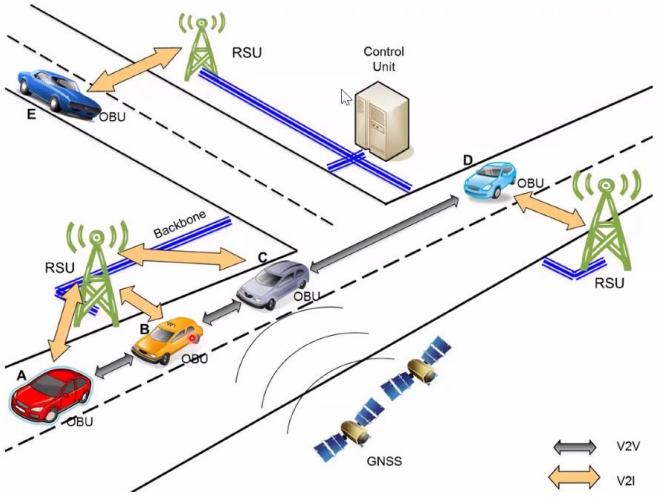
Introduction: AV Communication



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Performance Analysis

Model	Fault	F1 Score	Precision	Recall	Accuracy
RF	Trend	0.96	0.96	0.96	0.96
	Stuck-at	0.99	0.99	0.99	0.99
	Drift	0.89	0.89	0.89	0.94
	Hard-over	0.99	0.99	0.99	0.99
XGBoost	Trend	0.98	0.99	0.98	0.98
	Stuck-at	0.99	0.99	0.99	0.99
	Drift	0.87	0.87	0.87	0.93
	Hard-over	0.99	0.99	0.99	0.99
Stacking	Trend	0.99	0.99	0.99	0.99
	Stuck-at	0.975	0.975	0.975	0.975
	Drift	0.94	0.94	0.94	0.94
	Hard-over	0.99	0.99	0.99	0.99

Accuracy

Fault Name	Mistral				LLAMA				GEMMA	
	Zero		CoT		Zero		CoT		Zero	CoT
	Base	Fine Tuned	Base	Fine Tuned	Base	Fine Tuned	Base	Fine Tuned	Base	Base
Drift	56.71	57.43	59.3	62.95	64.1	64.86	63.12	70.68	66	3.46
Trend	39	63.79	43	30	73	41.63	85	35	77	5.14
Stuck	63.67	78.41	22.34	52.67	76.93	73.1	92.14	75.8	77.18	3.48
Hard-over	52.86	75.14	38.4	0.32	69.72	45.11	77.93	45.64	56.02	20.78

F1-score

LLM Model	Fault Name	Zero			COT		
		Base Model	Fine Tuned	Embedding	Base Model	Fine Tuned	Embedding
Mistral	Drift	0.38	0.35	0.647	0.5	0.4	0.642
	Hard-over	0.21	0.1	0.62	0.25	0.32	0.69
	Stuck-at	0.0093	0.09	0.17	0.074	0.1	0.07
	Trend	0.07	0.13	0.28	0.13	0.09	0.23
LLAMA	Drift	0.4	0.49	0.77	0.22	0.58	0.72
	Hard-over	0.2	0.3	0.66	0.1	0.34	0.62
	Stuck-at	0.1	0.15	0.19	0.13	0.16	0.22
	Trend	0.11	0.09	0.36	0.18	0.08	0.36

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Autonomous systems, particularly those designed for safety-critical applications like AVs, require human-like reasoning capabilities [1].

LLMs have the potential to assist in this by modeling diverse human moral responses [2]. There is emerging research on leveraging LLMs to support or simulate the decision-making process in autonomous systems, including AVs [3].

LLMs can be used to enhance decision-making algorithms by simulating different moral frameworks (utilitarianism, deontological ethics, etc.) thus providing insights into the ethical preferences of different user groups, such as age and gender.

[1] L. Li, K. Ota, and M. Dong, ``Humanlike driving: Empirical decision-making system for autonomous vehicles", IEEE Transactions on Vehicular Technology, vol. 67, no. 8, pp.6814-6823, 2018
[2] N. Scherrer et al. ``Evaluating the moral beliefs encoded in llms", \textit{Advances in Neural Information Processing Systems}, 36, 2024

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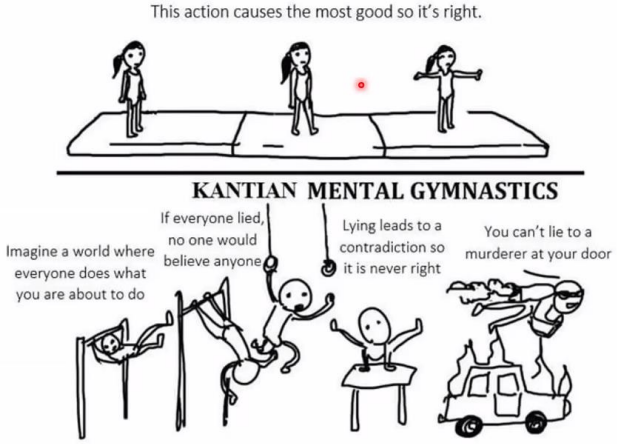
Utilitarian vs Deontological



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Antenna Boosters in the market

Already introduced in the market the following products and applications:
fleet management, smart tracking, smart metering, headsets, smart home, smart cities, alarms, IoT/Mobile modules, medical devices, IoT sensors

- Thingy:91 by **Nordic Semiconductor** and Monarch 2 by **Sequans**
- **TRIO mXTEND™** by **NN**
- Global **Cellular IoT** with **embedded antenna**
- **Mobile + GPS** in a single antenna component

- mangOH® Yellow by **Sierra Wireless** and P32 series module by **Cavli Wireless**
- **RUN mXTEND™** by **NN**
- Global **Cellular IoT**, small package (<CR80), **embedded antenna**

- Generic Node by **The Things Industries**
- **ONE mXTEND™** by **NN**
- Global **LoRA sensor**, small package (<CR80), **embedded antenna**

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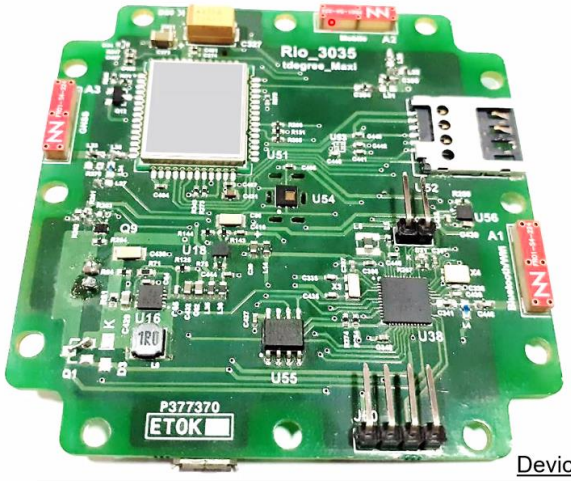
Same antena booster for any frequency band



Device by RioSH Technologies

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laSalle ignion

Triple radio with the same component: OMNIA

- **Cellular**
- **Global Satellite Connectivity**
- **Bluetooth**
- Results of measurements on an evaluation board demonstrate that the average efficiency of an OMNIA mXTEND device is greater than 55% from 790 MHz to 960 MHz (cellular), over 75% in the 1,561 MHz – 1,606 MHz range (GNSS), and greater than 65% between 2,400 MHz and 2,500 MHz (Wi-Fi/BLE)

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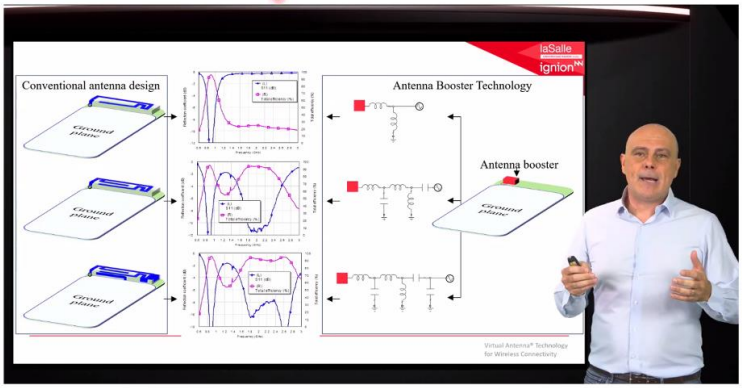

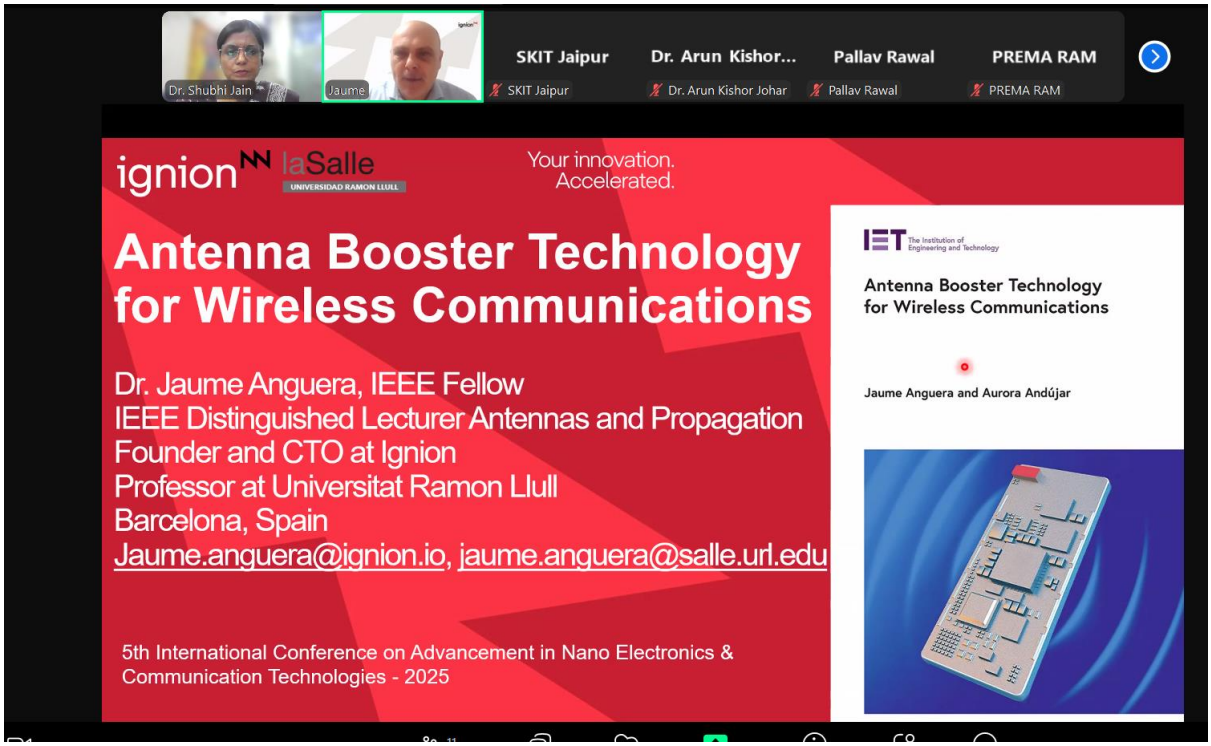
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Jaume Anguera and Aurora Andújar


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Quantum computing is an emerging field that depends upon the basic properties of quantum physics and principles of classical systems. This leads a way to develop systems to solve complex problems that a classical system cannot do.
Definition :
A type of computing that uses quantum-mechanical phenomena, such as superposition and entanglement, to perform operations on data.
Comparison to classical computing:
While classical computers use bits (either 0 or 1) to represent data, quantum computers use quantum bits, or qubits, which can be in a superposition of both 0 and 1 at the same time.
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एसकेआईटी मैनेजमेंट एंड ग्रामोत्थान में अंतरराष्ट्रीय सम्मेलन

एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी का आयोजन

जयपुर (मृदुल पत्रिका)। स्वामी केशवानंद इंस्टिट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान, जयपुर के इलेक्ट्रॉनिक्स एवं कम्युनिकेशन इंजीनियरिंग विभाग द्वारा दो दिवसीय अंतरराष्ट्रीय सम्मेलन एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी 2025 का हाइब्रिड माध्यम में आयोजन किया गया। जिसमें देश-विदेश से प्रोफेसरों, शोधकर्ताओं एवं विद्यार्थियों ने भाग लिया।

उद्घाटन सत्र का शुभारंभ संस्थान के अकादमिक निदेशक प्रो. एस. एल. सुराणा के स्वागत संबोधन से हुआ।

उन्होंने नैनोटेक्नोलॉजी और वायरलेस कम्युनिकेशन टेक्नोलॉजी के आपसी संबंधों पर प्रकाश डालते हुए इसे आगामी औद्योगिक क्रांति का आधार बताया।

कॉन्फ्रेंस के अध्यक्ष प्रो. प्रवीण कुमार जैन ने सम्मेलन की जानकारी साझा करते हुए बताया कि यह एएनसीटी कॉन्फ्रेंस श्रृंखला की पाँचवीं कॉन्फ्रेंस है, जिसमें इस बार 90 से अधिक शोध पत्रों में से 35 को चयनित किया गया। उन्होंने यह भी बताया कि भारत कैसे सेमीकंडक्टर मिशन (आई एस एम) के माध्यम से वैश्विक मंच पर एक अग्रणी भूमिका निभाने की ओर अग्रसर है। कार्यक्रम के मुख्य अतिथि प्रो. प्रीतम कुमार, प्रोफेसर, आईआईटी पटना ने बताया कि ऐसे सम्मेलन छात्रों और शोधकर्ताओं के लिए करंट स्टेट-ऑफ-द-आर्ट टेक्नोलॉजी समझने का एक सशक्त माध्यम हैं।

उन्होंने बताया कि हर पाँच वर्षों में डाटा रेट 10 गुना बढ़ रहा है और तकनीक अब केवल आकार नहीं, बल्कि स्मार्टनेस से परिभाषित हो रही है।

विशिष्ट अतिथि के रूप में उपस्थित डॉ. देवव्रत सिकदर, एसोसिएट प्रोफेसर, आई आई टी गुवाहटी ने अपने संबोधन में कहा कि आज का युग ट्रांसफॉर्मेशन ऑफ टेक्नोलॉजी का है। नैनो-इलेक्ट्रॉनिक्स के माध्यम से डिवाइसेज और भी छोटे, तेज और ऊर्जा कुशल हो रहे हैं।

उन्होंने 5जी, 6जी और उससे आगे की तकनीकों के संभावित योगदान पर भी चर्चा की तथा इंटरडिसिप्लिनरी कोलैबोरेशन की महत्ता को रेखांकित किया।

स्पेन के यूनिवर्सिटी रेमन ल्युल, बार्सिलोना से विशिष्ट अतिथि डॉ. जाउमे एंगुएरा ने अपने अनुभव साझा करते हुए इंडस्ट्री-एकेडेमिया कोलैबोरेशन के महत्व पर प्रकाश डाला।

उन्होंने पूर्व राष्ट्रपति डॉ. ए. पी. जे. अब्दुल कलाम को उद्धृत करते हुए प्रतिभागियों को प्रेरित किया – जीवन की कठिनाइयाँ आपको नष्ट करने के लिए नहीं होतीं, बल्कि यह जताने के लिए होती हैं कि आपके भीतर उन्हें सामना करने की अद्भुत क्षमता है।

उद्घाटन सत्र के अंत में सम्मेलन के संयोजक में डॉ. पल्लव राखल ने सभी अतिथियों, वक्ताओं और प्रतिभागियों का आभार प्रकट करते हुए कहा कि व्यस्त कार्यक्रमों के बावजूद सबने समय निकाल कर सम्मेलन को सफल बनाया। आयोजन समिति के अध्यक्ष प्रो मुकेश अरोड़ा और प्रो प्रवीण कुमार जैन रहे।

संयोजक डॉ. मोनिका माथुर, डॉ. पल्लव [illegible] डॉ. शुभं [illegible] पांडे, [illegible] रहे।

6 / 8

ई को, 18 मई को 25 से अधिक शहरों में होंगी मल्टीसिटी वॉक

नोबल कन्वर्सेशन के साथ होगा पेनल डिस्कशन, को लेकर जागरूकता का दिया जाएगा सन्देश

डॉक्टर को बताएं, तो पेट के कैंसर का खतरा कम किया जा सकता है। इसके साथ ही कैंसर की पहचान शुरूआती चरण में हो सकती है और उसका सही इलाज समय पर किया जा सकता है। आईआईईएमआर इंस्टीट्यूट ऑफ इवेंट मैनेजमेंट के निदेशक मुकेश मिश्रा ने बताया कि इस बार की थीम माय हेल्थ, माय रेस्पोंसिबिलिटी है जिसका उद्देश्य लोगों में अपनी बीमारियों के प्रति खुद सक्रिय होकर अपनी सेहत को प्राथमिकता देने के प्रति जागरूक करना है। 18 मई को [illegible] लिए धूम्रपान और शराब के सेवन से परहेज जरूरी है क्योंकि ये आदतें पाचन [illegible] पहुंचाकर कैंस [illegible] सकती हैं। अपनाकर इस [illegible] किया जा सक

क्या है ए

एडेनोमिनल कैंसर में वे कैंसर शामिल होते हैं जो पेट (एब्डोमेन) के भीतर मौजूद विभिन्न अंगों को प्रभावित करते हैं। आमतौर पर कैंसर (गैस्ट्रिक), लिवर, पैंक्रियाटिक, कोलन और रेक्टल, [illegible] [illegible]

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जयपुर, शनिवार, 17 मई 2025
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स्वामी केशवानंद इंस्टिट्यूट ऑफ़ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान, जयपुर में अंतरराष्ट्रीय सम्मेलन 'एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी-2025' का आयोजन

(आयुष-अन्तिमा नेटवर्क)

जयपुर (श्रीराम इंदौरिया)। स्वामी केशवानंद इंस्टिट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान, जयपुर के इलेक्ट्रॉनिक्स एवं कम्युनिकेशन इंजीनियरिंग विभाग द्वारा दो दिवसीय अंतरराष्ट्रीय सम्मेलन 'एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी 2025' का हाइब्रिड माध्यम में आयोजन किया गया। जिसमें देश-विदेश से प्रोफेसरों, शोधकर्ताओं एवं विद्यार्थियों ने भाग लिया। उद्घाटन सत्र का शुभारंभ संस्थान के अकादमिक निदेशक प्रो.एसएल सुराणा के स्वागत संबोधन से हुआ, जिसमें उन्होंने नैनो टेक्नोलॉजी और वायरलेस कम्युनिकेशन टेक्नोलॉजी के आपसी संबंधों पर प्रकाश डालते हुए इसे आगामी औद्योगिक क्रांति का आधार बताया। कांफ्रेंस के अध्यक्ष प्रो.प्रवीण कुमार जैन ने

सम्मेलन की जानकारी साझा करते हुए बताया कि यह ANCT कांफ्रेंस श्रृंखला की पाँचवीं कांफ्रेंस है, जिसमें इस बार 90 से अधिक शोध पत्रों में से 35 को चयनित किया गया। उन्होंने यह भी बताया कि भारत कैसे सेमी कंडक्टर मिशन (ISM) के माध्यम से वैश्विक मंच पर एक अग्रणी भूमिका निभाने की ओर अग्रसर है। कार्यक्रम के मुख्य अतिथि प्रो.प्रीतम कुमार, प्रोफेसर, IIT पटना ने बताया कि ऐसे सम्मेलन छात्रों और शोधकर्ताओं के लिए करंट स्टेट-ऑफ-द-आर्ट टेक्नोलॉजी समझने का एक सशक्त माध्यम हैं। उन्होंने बताया कि हर पाँच वर्षों में डाटा रेट 10 गुना बढ़ रहा है और तकनीक अब केवल आकार नहीं, बल्कि स्मार्टनेस से परिभाषित हो रही है। विशिष्ट अतिथि के रूप में उपस्थित डॉ.देबब्रत सिकदर, एसोसिएट प्रोफेसर, IIT गुवाहाटी ने अपने संबोधन में कहा कि आज का युग ट्रांसफॉर्मेशन ऑफ टेक्नोलॉजी का है। नैनो-इलेक्ट्रॉनिक्स के माध्यम से डिवाइसेज और भी छोटे, तेज और ऊर्जा कुशल हो रहे हैं। उन्होंने 5G, 6G और उससे आगे की तकनीकों के संभावित योगदान पर भी चर्चा की तथा इंटरडिसिप्लिनरी कोलैबोरेशन की महत्ता को रेखांकित किया।

स्पेन के यूनिवर्सिटी रेमन ल्युल, बार्सिलोना से विशिष्ट अतिथि डॉ.जाउमे एंगुएरा ने अपने अनुभव साझा करते हुए इंडस्ट्री-एकेडेमिया कोलैबोरेशन के महत्व पर प्रकाश डाला। उन्होंने पूर्व राष्ट्रपति डॉ.एपीजे अब्दुल कलाम को उद्धृत करते हुए प्रतिभागियों को प्रेरित किया - 'जीवन की कठिनाइयाँ आपको नष्ट करने के लिए नहीं होतीं, बल्कि यह जताने के लिए होती हैं कि आपके भीतर उन्हें सामना करने की अद्भुत क्षमता है।' उद्घाटन सत्र के अंत में सम्मेलन के संयोजक में डॉ.पल्लव रावल ने सभी अतिथियों, वक्ताओं और प्रतिभागियों का आभार प्रकट करते हुए कहा कि व्यस्त कार्यक्रमों के बावजूद सबने समय निकाल कर सम्मेलन को सफल बनाया। आयोजन समिति के अध्यक्ष प्रो.मुकेश अरोड़ा और प्रो.प्रवीण कुमार जैन रहे। संयोजक डॉ.मोनिका माथुर, डॉ.पल्लव रावल तथा समन्वयक डॉ.शुभी जैन, हर्षल निगम, राहुल पांडे तथा मिस ग्लोरिआ जोसेफ रहे।

एसकेआईटी मैनेजमेंट एंड ग्रामोत्थान में अंतरराष्ट्रीय सम्मेलन आयोजित

एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी का आयोजन

■ आस-पास ब्यूरो

जयपुर। स्वामी केशवानंद इंस्टिट्यूट ऑफ़ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान, जयपुर के इलेक्ट्रॉनिक्स एवं कम्युनिकेशन इंजीनियरिंग विभाग द्वारा दो दिवसीय अंतरराष्ट्रीय सम्मेलन 'एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी 2025' का हाइब्रिड माध्यम में आयोजन किया गया। जिसमें देश-विदेश से प्रोफेसरों, शोधकर्ताओं एवं विद्यार्थियों ने भाग लिया। उद्घाटन सत्र का शुभारंभ संस्थान के अकादमिक निदेशक प्रो. एस. एल. सुराणा के स्वागत संबोधन से हुआ। उन्होंने नैनोटेक्नोलॉजी और वायरलेस कम्युनिकेशन टेक्नोलॉजी के आपसी संबंधों पर प्रकाश डालते हुए इसे आगामी औद्योगिक क्रांति का आधार बताया।

कांफ्रेंस के अध्यक्ष प्रो. प्रवीण कुमार जैन ने सम्मेलन की जानकारी साझा करते हुए बताया कि यह एएनसीटी कांफ्रेंस श्रृंखला की पाँचवीं कांफ्रेंस है, जिसमें इस बार 90 से अधिक शोध पत्रों में से 35 को चयनित किया गया। उन्होंने यह भी बताया कि भारत कैसे सेमीकंडक्टर मिशन (आई एस एम) के माध्यम से वैश्विक मंच पर एक अग्रणी भूमिका निभाने की ओर अग्रसर है। कार्यक्रम के मुख्य अतिथि प्रो. प्रीतम कुमार, प्रोफेसर, आईआईटी पटना ने बताया कि ऐसे सम्मेलन छात्रों और शोधकर्ताओं के लिए करंट स्टेट-ऑफ-द-आर्ट टेक्नोलॉजी समझने का एक सशक्त माध्यम हैं। उन्होंने बताया कि हर पाँच वर्षों में डाटा रेट 10 गुना बढ़ रहा है और तकनीक अब केवल आकार नहीं, बल्कि स्मार्टनेस से परिभाषित हो रही है।

विशिष्ट अतिथि के रूप में उपस्थित डॉ. देबब्रत सिकदर, एसोसिएट प्रोफेसर, आई आई टी गुवाहाटी ने अपने संबोधन में कहा कि आज का युग ट्रांसफॉर्मेशन ऑफ टेक्नोलॉजी का है। नैनो-इलेक्ट्रॉनिक्स के माध्यम से डिवाइसेज़ और भी छोटे, तेज़ और ऊर्जा कुशल हो रहे हैं। उन्होंने 5जी, 6जी और उससे आगे की तकनीकों के संभावित योगदान पर भी चर्चा की तथा इंटरडिसिप्लिनरी कोलैबोरेशन की महत्ता को रेखांकित किया।

स्पेन के यूनिवर्सिटी रेमन ल्युल, बार्सिलोना से विशिष्ट अतिथि डॉ. जाउमे एंगुएरा ने अपने अनुभव साझा करते हुए इंडस्ट्री-एकेडेमिया कोलैबोरेशन के महत्व पर प्रकाश डाला। उन्होंने पूर्व राष्ट्रपति डॉ. ए. पी. जे. अब्दुल कलाम को उद्धृत करते हुए प्रतिभागियों को प्रेरित किया। जीवन की कठिनाइयाँ आपको नष्ट करने के लिए नहीं होतीं, बल्कि यह जताने के लिए होती हैं कि आपके भीतर उन्हें सामना करने की अद्भुत क्षमता है। उद्घाटन सत्र के अंत में सम्मेलन के संयोजक में डॉ. पल्लव रावल ने सभी अतिथियों, वक्ताओं और प्रतिभागियों का आभार प्रकट करते हुए कहा कि व्यस्त कार्यक्रमों के बावजूद सबने समय निकाल कर सम्मेलन को सफल बनाया। आयोजन समिति के अध्यक्ष प्रो मुकेश अरोड़ा और प्रो प्रवीण कुमार जैन रहे। संयोजक डॉ. मोनिका माथुर,डॉ. पल्लव रावल तथा समंवयक डॉ.शुभी जैन, हर्षल निगम, राहुल पांडे, तथा मिस ग्लोरिआ जोसेफ रहे।