

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



A Report of

4th International Conference on “Advancements in Nano-electronics & Communication Technologies”



(ICANCT-2024)

Dates: February 16-17, 2024

Organized by
Department of Electronics and Communication
Engineering



OPTICA
Formerly OSA

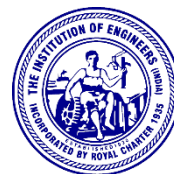


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Organizing Committee

General Chair

Dr. Mukesh Arora, Professor and Head-OFA & ECE, SKIT

Convener

Dr. Praveen Kumar Jain, Professor and Dy. Head, ECE-SKIT

Dr. Vikas Pathak, Associate Professor, ECE-SKIT

Co-Convener

Dr. Pallav Rawal, Associate Professor, ECE-SKIT

Dr. Ankit Agarwal, Associate Professor, ECE-SKIT

Dr. Shubhi Jain, Associate Professor, ECE-SKIT

Secretary

Mr. Rahul Panday, Assistant Professor, ECE-SKIT

Mr. Lalit Kumar Lata, Assistant Professor, ECE-SKIT


Ms. Gloria Joseph, Assistant Professor, ECE-SKIT

Ms. Priyanka Sharma, Assistant Professor, ECE-SKIT

Mr. Harshal Nigam, Assistant Professor, ECE-SKIT

Sanction Letter

Proposal for Conference to be
Organized in 2023-2024 Session


Swami Keshvanand Institute
of Technology, Management & Gramothan
Approved by AICTE, Ministry of HRD, Government of India
Recognized by UGC under Section 2(f) of the UGC Act, 1956
Affiliated to Rajasthan Technical University, Kota

Event: 4th International Conference on "Advancements in Nano-electronics and Communication Technologies (ICANCT-2024)"

Proposed Dates: 9-10 February, 2024

Jointly organized by:
Department of Electronics and Communication Technology, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur & Center for Advanced Materials, Qatar University, Qatar

in Association with
CSIR-IMMT: InTEC, Bhubaneswar

General Chair:
Prof. Kishor Kumar Sadasivuni, Center for Advanced Materials, Qatar University, Qatar
Prof. Mukesh Arora, Head-ECE, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
Dr. Umesh Chand, Scientist, A Star Lab, Singapore

Convener:
Prof. Praveen Kumar Jain
Dr. Vikas Pathak

Co-Convener: Mr. Ankit Agarwal Mr. Pallav Rawal Dr. Shubhi Jain	Organizing Secretary: Mr. Rahul Pandey Mr. Lalit kr. Lata Mr. Harshal Nigam Ms. Priyanka Sharma Ms. Gloria Joseph
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P. Jain
23/02/2023



Swami Keshvanand Institute of Technology, Management & Gramothan

Approved by AICTE, Ministry of HRD, Government of India
Recognized by UGC under Section 2(f) of the UGC Act, 1956
Affiliated to Rajasthan Technical University, Kota

Expected number of Participants: 100

Tentative Budget: 1.0 Lakh

Expected Journals for Publication (Tentative):

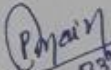
Materials Today: Proceeding (Elsevier Publication)

Emergent Materials (Springer Publication)

Lecture notes in electrical engineering (Springer Publication)

Communication in Computer and Information Science (Springer Publication)

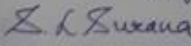
SKIT Research Journal


23/02/2023

Dr. Praveen K Jain
Convener-ICANCT 2024


HOD- ECE Department


Head-OFA

Approved .

23/2/23
Director (Academics)

About Conference

Two Day International conference on “Advancements in Nano-electronics & Communication Technologies (ICANCT-2024) is organized by Department of Electronics & Communication Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT M & G), Jaipur during February 16-17, 2024. 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.

Scope of the Conference

Mobile & Wireless Networks	Communication Engineering
Signal and Image Processing	Photonics Communication
Optical Signal Processing	Wireless Communication
Antennas	Embedded Systems & VLSI Design
Optical Devices & Photonics	Nano Electronic Devices
Nano-Medical Devices	Integrated Photonics
Nano Composites	Nano Structures

Event Poster

4th INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN NANO-ELECTRONICS & COMMUNICATION TECHNOLOGIES (ICANCT-2024) FEBRUARY 16-17, 2024

CALL FOR PAPERS

About ICANCT 2024

Two Day International conference on Advancements in Nano-electronics & Communication Technologies (ICANCT-2024) to be organized by Department of Electronics & Communication Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur during February 16-17, 2024 in **Hybrid Mode**. 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.

Scope of the Conference

Communication Engineering	Optical Fibers and Devices
Signal and Image Processing	Nano Electronic Devices
Communication Networks	Nano Structures Devices
Mobile and Wireless Communication	Nano-Medical Devices
Antennas	Embedded System and VLSI Design
Photonics Communication	Image Processing
Optical Signal Processing	Internet of Things and Machine Learning
Integrated Photonics	Artificial Intelligence

Paper Submission

Authors can submit their original paper (Minimum Paper Length: 4 pages) including figures, tables & references on mail id: icanct2024@skit.ac.in.

Accepted and presented paper will be published in ISBN Conference proceeding or SKIT Research Journal.

Important Dates

Abstract Submission Deadline	February 01, 2024
Notification of Acceptance	February 03, 2024
Camera Ready Paper	February 12, 2024
Registrations Close	February 12, 2024
Conference Dates	February 16-17, 2024

Registration Fees

Category	Indian	Foreigner
Ph.D./M.Tech./B.Tech Students	Rs 1600/-	USD \$70
Academicians/ Industry Person	Rs 2400/-	USD \$100

25% DISCOUNT FOR IEEE, IE, IETE, ISTE AND OPTICA SOCIETY MEMBERS

Technical Sponsors (SKIT Student Chapters)



CoE- "Antenna, Microwave and RF Engineering", SKIT



Organized By

Department of Electronics and Communication Engineering
Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur
(Rajasthan) -302017

For More Information: Contact us



+91-8503856191 (Dr. Vikas Pathak)



icanct2024@skit.ac.in



<https://icanct.skit.ac.in/index.html>

Conference Schedule

Day 1: February 16, 2024 (Friday)	
9:00 am- 10:00 AM	<p>Inauguration Program (Online) Zoom Meeting Link: https://us06web.zoom.us/j/87657694095?pwd=FtX82ESpThMQ64HpQ7OiVIa9uaaCy7.1</p> <p>Chief Guest: Dr. Dong Suk Han, Professor, Qatar University, Qatar</p> <p>Guest of Honor:</p> <ul style="list-style-type: none"> ❖ Dr. Kishor Kumar Sadasivuni, Professor, Center for Advanced Materials, Qatar University, Qatar ❖ Dr. Badrul Hisham bin Ahmad, Professor, University Teknikal, Malaysia, Melaka ❖ Dr. Pooja Sharma, University of South Bohemia, Czech Republic
10:00 am- 10:45 AM	<p>Invited Talk – 1 (online) Dr. Kishor Kumar Sadasivuni, Professor, Center for Advanced Materials, Qatar University, Qatar</p>
11:00 am- 11:45 AM	<p>Invited Talk – 2 (online) Dr. Pooja Sharma University of South Bohemia, Czech Republic</p>
12:00 noon – 1:00 PM	Break
1:00 – 1:30 PM	<p>Invited Talk – 3 Prof. Aysegul Uygun Oksuz Suleyman Demirel University, Turkey</p>
1:30 – 3:30 PM	<p>Paper Presentation Session – 1 (Online) Session Chair: Dr. Ashutosh Tripathi Professor, and Head ECE & EE Chandigarh University, Chandigarh</p>
Day 2: February 17, 2024 (Saturday)	
09:00 am – 10:00 am	<p>Invited Talk – 4: (Offline) Dr. Sanyog Rawat Associate Professor and Head, Department of Electronics and Communication Engineering (ECE), Central University, Kishangarh, Ajmer</p>
10:00 am – 10:30 am	Tea Break

10:30 am – 1:00 pm	<p><u>Paper Presentation Session – 2 (Offline)</u> <u>Session Chair:</u> Dr. Virendra Swaroop Sangtani, Assoc. Professor, Deptt. of Electrical Engineering, SKIT, M & G, Jaipur</p> <p><u>Paper Presentation Session – 3 (Offline)</u> <u>Session Chair:</u> Dr. Rukhsar Zafar, Assoc. Professor, Deptt. of Electronics & Comm. Engineering, SKIT, M & G, Jaipur</p>
1:00 pm – 2:00 pm	Lunch Break
2:00 pm – 2:30 pm	<p><u>Invited Talk – 5</u> Dr. Umesh Chand, Senior Scientist, Institute of Microelectronics, A Star, Singapore</p>
2:30 pm – 3:00 pm	<p><u>Invited Talk – 6</u> Dr. Arrindam Mukherjee, Postdoc, university of South Bohemia, czech Republic,</p>
3:00 pm- 3:30 pm	<u>Valedictory Session</u>

Minute to minute program of Inauguration Ceremony

Date: 16 February, 2024

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 – 2024 Conference Prof. Mukesh Arora, Conference Chair, HOD – ECE and Head – OFA, SKIT, Jaipur
9:15 – 9:20 AM	Address by Guest of Honour: Dr. Kishor Kumar Sadasivuni, Professor, Center for Advanced Materials, Qatar University, Qatar
9:20 – 9:25 AM	Address by Guest of Honour: Dr. Badrul Hisham bin Ahmad, Professor, University Teknikal, Malaysia, Melaka
9:25 – 9:30 AM	Address by Guest of Honour: Dr. Pooja Sharma, University of South Bohemia, Czech Republic

9:30 – 9:45 AM	Word of Wisdom by Chief Guest: Dr. Dong Suk Han, Professor, Qatar University, Qatar
9:45 – 9:50 AM	Souvenir Presentation
9:50 – 9:55 AM	Vote of Thanks by Prof. P. K. Jain, Convenor, ICANCT – 2024




INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN NANO-ELECTRONICS & COMMUNICATION TECHNOLOGIES (ICANCT-2024)

FEBRUARY 16-17, 2024

Keynote Speakers



Dr. Dong Suk Han
Qatar University, Qatar



Dr. Kishor Kumar Sadasivuni
Qatar University, Qatar



Dr. Badrul Hisham bin Ahmad
University Teknikal, Malaysia



Dr. Pooja Sharma
University of South Bohemia, Czech Republic



Dr. Umesh Chand
Institute of Microelectronics,
A Star, Singapore



Dr. Sanyog Rawat
Central University, Kishangarh



Dr. Sanjay Kumar
University of South Bohemia,
Czech Republic



Prof. Aysegul Uygun Oksuz
Suleyman Demirel University, Turkey

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

Technical Report

Day-1 started with the inaugural ceremony. Dr. Dong Suk Han, Professor, Qatar University, Qatar, was the chief guest for inaugural ceremony along with our Guest of Honor Dr. Kishor Kumar Sadasivuni, Professor, Center for Advanced Materials, Qatar University, Qatar, Dr. Badrul Hisham bin Ahmad, Professor, University Teknikal, Malaysia, Melaka and Dr. Pooja Sharma, University of South Bohemia, Czech Republic. In the Inauguration Ceremony Prof. S. L. Surana, Director (Academics), Prof. Ramesh Kumar Pachar, Principal, Prof. Mukesh Arora, Conference Chair, Head ECE & OFA, and Prof. P. K. Jain, Conference - Convener were also present. In this conference total 75 papers were received, out of those total 36 papers were selected. All presented papers will be published in Conference proceedings with ISBN No.

On first day there were total three invited talks. First talk was given by Dr. Kishor Kumar Sadasivuni, Professor, Center for Advanced Materials, Qatar University, Qatar. He discussed about artificial intelligence-based finger point sensor and bio-inspired solar tracking robot. Second session was started with the expert talk of Dr. Pooja Sharma, University of South Bohemia, Czech Republic. She discussed about the latest research work in the field of polymer metallization, Nano-composite sensors and solar cells. Next session was taken by Dr. Aysegul Uygun Oksuz, Suleyman Demirel University, Turkey. Her topic of expert talk was “Advancements in Magnetic Au-Ni nano-meter based Drug delivery for breast cancer treatment”. After the expert talks, Paper presentation session-1 was started. In this session, there were two session chairs: 1. Dr. Arun Dev Dhar Dwivedi, Senior Associate Professor, School of Electronics Engineering, VIT University, Vellore and Dr. Neeraj Jain, Associate Professor, Department of ECE, SKIT M & G, Jaipur. Total 13 papers were presented during this session.

day – 2 was started with 2 expert talks in offline mode. 1st talk was delivered by Dr. Sanyog Rawat, Associate Professor and Head, Department of Electronics and Communication Engineering (ECE), Central University, Kishangarh, Ajmer. His topic of expert talk was “Planar Antennas for Health Monitoring”. He discussed about advancements in the field of various antennas used for bio-medical health monitoring. On day – 2, we were having two parallel offline sessions of papers presentation. Paper presentation session – 2, was chaired by Dr. Virendra Swaroop Sangtani, Assoc. Professor, Deptt. of Electrical Engineering, SKIT, M & G, Jaipur. In this session total 12 papers were presented. Dr. Rukhsar Zafar, Assoc. Professor, Deptt. of Electronics & Comm. Engineering, SKIT, M & G, Jaipur chaired the Paper presentation session – 3 of day – 2. Total 13 researchers showcase their research work in this session.

Finally, the conference was ended with Invited talk by Dr. Arindam Mukherjee, Post Doc, University of South Bohemia, Czech Republic. He discussed about “Atom diffraction, Thin film growth techniques and XRD techniques”.

Session-wise details

Presentation Schedule

Session-1 (Online) 16 Feb 2024, 1:30-3:30 PM

S.N	Name of Author	Title of Paper	Paper ID
1	Vijay Laxmi Kalyani	Six nanocavities coupled two dimensional phc biosensor for detection of covid nineteen	ANCT_2422
2	Sharad Singhal	Optimized design of Hybrid Renewable Electrical System for university campus to minimize the LOCE cost	ANCT_2414
3	Lokesh Kumar Avasthi	Optimization of LCOE cost of Hybrid Solar Wind Bio Gas Plants for rural electrification of Rajasthan using Machine Learning	ANCT_2409
4	Swati Arora	Cu ZnSn as a Favorable Photovoltaic Absorber	ANCT_2436
5	Manju Choudhary	Comparison of High Level Synthesis of Bubble check and L-bubble check algorithm for check node processing	ANCT_2423
6	Monika Mathur	AI Based Vehicle Tracking System with Automated Licence Plate Recognition for Criminal Identification	ANCT_2432
7	Dr Giriraj Kumar Prajapati	Millimeter-Wave Photonic Components for Broadband Wireless Systems	ANCT_2403
8	Abhinandan Jain	Numerical Simulation of Zno-based thin film transistor for high performance application	ANCT_2439
9	Harshal Nigam	Radiation Pattern Analysis for Microstrip Antenna Phased Array with Multibeam at 5G Frequency	ANCT_2445
10	Sudesh Garg	Leveraging Drone Technology for Agricultural Advancements A Comprehensive Study on Monitoring for Irrigation and Pesticide Control	ANCT_2429
11	Shubhi Jain	Innovations in 6G Communication shaping the future of connectivity	ANCT_2407
12	Rajiv Kumar	A study of ternary NiFeO CoO G nanocomposite or supercapacitor applications	ANCT_2404

Session -2 (offline) 17 Feb 2024; 10:30 AM -1:00 PM

Venue: JC Bose Seminar hall

S.N	Name of Author	Title of Paper	Paper ID
1	Gloria Joseph	review reach towards better dispersion compensation	ANCT_2433
2	Satyendra Kumar	Investigation of Efficient Material for CIGS Solar Cell	ANCT_2438
3	Mamta Jain (16 feb)	A review on Hardware Implementation of Clustering Algorithms	ANCT_2415
4	Kishan Kumar Das	Hardware Implementation of Floating Point Arithmetic Unit	ANCT_2406
5	Mayur Sharma	Low profile slotted rectangular microstrip antenna for satellite communication in C band	ANCT_2435
6	Sitaram Meena	VLSI implementation of neural network	ANCT_2416
7	Amisha Jha, 21ESKEC200	Automatic Seed Sowing Machine	ANCT_2425
8	Ashutosh Jangir 20ESKEC026	Design and Analysis of Microstrip Patch Antenna for Dual-Band Applications with Enhanced Bandwidth at 6.3 GHz and 10.3 GHz	ANCT_2424
9	Chakshit Gunidia 20ESKEC031	A Cutting-Edge E-Cart System for Intelligent Retail Settings	ANCT_2427
10	Vanshaj Kataria 21ESKEC070	IoT-Based Garbage Segregator for Efficient Waste Management	ANCT_2418
11	Vipasha Goyal 20ESKEC123	Smart Waste Management	ANCT_2444
12	Om Verma (20ESKEC084)	Safety LINK: Emergency alert system for mine workers	ANCT_2440

Session -3 (offline) 17 Feb 2024; 10:30 AM -1:00 PM**Venue: ECL-06**

S.N	Name of Author	Title of Paper	Paper ID
1	Jagrati Meena 20ESKEC050	Aid for Specially Abled Person	ANCT_2417
2	Anshuman 20ESKEC20	Sign language detection	ANCT_2408
3	Moksh Avasthi(20ESKEC075)	Affordable Respiratory Solutions: Design and Implementation of an Arduino-Based Low-Cost Ventilator	ANCT_2426
4	Megha Jangid,20ESKEC072	Smart wheelchair	ANCT_2431
5	Avni Jain and 20ESKEC028	A fuzzy logic framework for dynamic noise reduction in audio signals	ANCT2419
6	Kashish Arora , 20ESKEC057	IoT Based dog Health Monitoring System	ANCT_2437
7	Saurabh Mishra (21ESKEC059)	RFID Based Smart Shopping Trolley.	ANCT_2442
8	Naman Agarwal , 20ESKEC077	Crash Detection-Prevention using Smart Helmet	ANCT_2434
9	Bhoomika Bulchandani, 20ESKEC030	Smart Energy Monitoring and Control System using IOT	ANCT_2443
10	Tanish Khandal 20ESKEC116	Wearable Device for Health Monitoring and Stress Management using ML	ANCT_2428
11	Navdeep Choudhary, 20ESKEC079	Smart Currency Counting Machine using Arduino.	ANCT_2441
12	Utkarsh Khandelwal - 20ESKEC121	Double Square Loop Frequently Selective Surface for 5G Wireless Technology	ANCT_2430

Certificates





International Conference on
Advancements in Nano-electronics & Communication
Technologies

(ICANCT-2024)

(FEBRUARY 16-17, 2024)

CERTIFICATE OF PARTICIPATION

This is to certify that Prof./Dr./Mr./Ms. Shanad Singh of EE Deptt.

Jaoramath University, Jaipur attended and presented a paper entitled

Optimized Design of Hybrid Renewable Electrical system for university campus to minimize

the LOCE cost in the International conference on “Advancements in Nano-electronics &

Communication Technologies (ICANCT-2024)” held during February 16-17, 2024.

Mukeshy
Prof. Mukesh Arora
(Conference Chair)

Prajay
Prof. Praveen K. Jain
(Convener)

Vk
Dr. Vikas Pathak
(Convener)




International Conference on
Advancements in Nano-electronics & Communication
Technologies

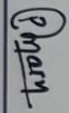
(ICANCT-2024)


(FEBRUARY 16-17, 2024)

CERTIFICATE OF APPRECIATION

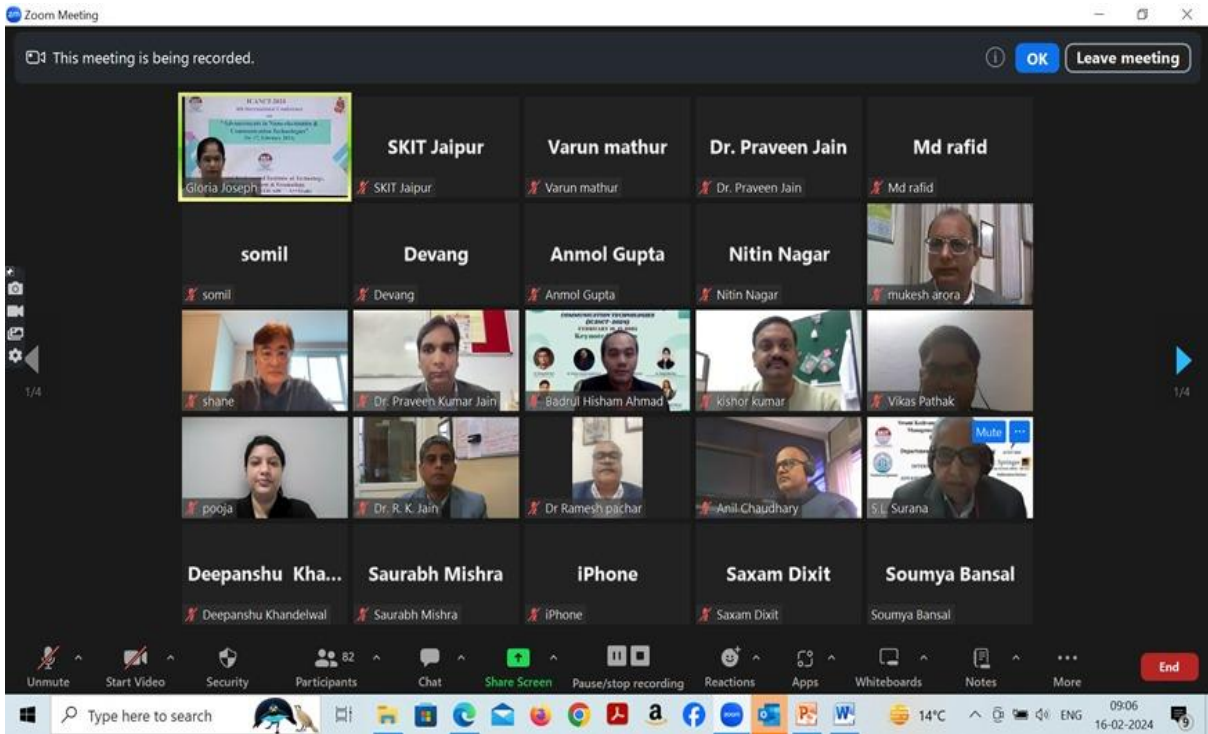
This is to certify that Dr. Virendra Swaroop Sangtani of SKIT, M & G, Jaipur has been recognized and honored for their invaluable contribution as a Session Chair in the International conference on “Advancements in Nano-electronics & Communication Technologies (ICANCT-2024)” held during February 16-17, 2024.


Prof. Mukesh Arora
(Conference Chair)


Prof. Praveen Kumar Jain
(Convener)


Dr. Vikas Pathak
(Convener)

Photographs of the event







अस्मिन् आ सत्यमवसति

ICANCT-2024

4th International Conference

on

“Advancements in Nano-electronics & Communication Technologies”

(16–17, February 2024)



WELCOMES YOU FOR ICANCT-2024 CONFERENCE



Dr. Pooja Sharma
Professor, University of South Bohemia, Czech Republic
Guest of Honor





Swami Keshvanand Institute of Technology, Management & Gramothan
(Accredited by NAAC with A++ Grade)

Zoom Meeting

Recording

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Zoom Meeting

Recording

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SKIT

ICANCT-2024
4th International Conference
on
“Advancements in Nano-electronics & Communication Technologies”
(16–17, February 2024)

WELCOMES YOU FOR ICANCT-2024 CONFERENCE

Dr. Dong Suk Han
Associate Professor
Department of Chemical Engineering
Qatar University, Qatar
Chief Guest

SKIT Swami Keshvanand Institute of Technology, Management & Gramothan
(Accredited by NAAC with A++ Grade)

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Zoom Meeting

Recording

Sign in

Dr. Dong Suk Han
Associate Professor
Department of Chemical Engineering
Qatar University, Qatar

- Dr. Dong Suk Han is an Associate Research Professor at the Center for Advanced Materials (CAM), a joint Associate Professor in the Department of Chemical Engineering, and Graduate Faculty of the Materials Science and Technology Program at Qatar University (QU).
- Dr. Han achieved a Ph.D. degree from Texas A&M University, College Station, TX, USA. He has over 25 years of experience in environmental and chemical engineering research on Water Environment and Energy using nanomaterials and environmental physical/chemical technologies and engineering such as adsorption/membrane separation, (Photo)electrochemistry, and advanced oxidation/reduction process and water treatment.
- Dr. Han is an Associate Editor of Frontiers in Chemistry (electrochemistry section) and an editorial board member of Desalination journal. Up to now, his research has been supported by the National Research Foundation of Korea (NRF-K), the U.S. Department of Energy (US DOE), the U.S. Geological Survey (USGS), and the Qatar National Research Foundation (QNRF), Qatar University, Qatar Shell Research and Technology Center (QSRTC) and Qatar Fertilizer Company (QAFCO).

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Zoom Meeting

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Zoom Meeting

Recording

Vikas Pathak, Badrul Hisham Ahmadi, shane, pooja, mukesh arora, kishor kumar

ICANCT-2024

4th International Conference on "Advancements in Nano-electronics & Communication Technologies" (16-17, February 2024)



Swami Keshvanand Institute of Technology, Management & Gramothan
Approved by NAAC with A++ Grade

Gloria Joseph

Speakers (2- High Definition Audio Device)
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16°C Haze 09:30 16-02-2024

Zoom Meeting

Recording

Vikas Pathak, Gloria Joseph, Badrul Hisham Ahmadi, shane, pooja, mukesh arora


International Conference on Advancements in Nano-electronics & Communication Technologies (ICANCT-2024)
16-17 February 2024
Weblink: www.icanct.skitt.ac.in

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

Heyzine Flipbooks

Swami Keshvanand Institute of Technology, Management & Gramothan
Rannagara, Jagatpura, Jaipur-302017, Rajasthan (India)
(+91 141 3500300, 2759609) Website: www.skitt.ac.in

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Audio, Stop Video, Participants (79), Chat, Share Screen, Record, Show Captions, Reactions, Apps, Whiteboards, Notes

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16°C Haze 09:30 16-02-2024

Recording



Dr. Kishor Kumar Sadasivuni

Center for Advanced Materials
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Email: kishorkumars@qu.edu.qa

Vikas Pathak
kishor kumar
Dr. Praveen Jain
SKIT Jaipur



4th International conference on
Advancements in Nano-electronics & Communication Technology
(ICANCT-2024)
16-17 February, 2024

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अस्तो मा सद्गमय

Zoom Meeting

Recording

Vikas Pathak Gloria Joseph Badrul Hisham Ahmad share pooja mukesh arora

Dr. Praveen Jain


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Zoom Meeting You are viewing kishor kumar's screen View Options

Recording

Vikas Pathak kishor kumar ankit Dr. Praveen Jain Gloria Joseph SKIT Jaipur



Dr. Kishor Kumar Sadasivuni
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 Tel.: +974 4403 6686
 Email: kishorkumars@qu.edu.qa

4th International conference on
 Advancements in Nano-electronics & Communication Technologies
 (ICANCT-2024)

SKIT


Audio Stop Video Participants Chat Share Screen Record Show Captions Reactions Apps Whiteboards Notes Leave

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Zoom Meeting

Recording

Vikas Pathak kishor kumar ankit Dr. Praveen Jain Gloria Joseph SKIT Jaipur



Activate Windows
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Zoom Meeting | You are viewing kishor kumar's screen | View Options

Recording...

"The State of Qatar has placed climate change at the forefront of its priorities, and it continues to take the necessary measures to develop climate change-related technologies and clean energy".

His Highness Sheikh Tamim bin Hamad Al Thani, September 2021

Gloria Joseph
Gloria Joseph

SKIT Jaipur
SKIT Jaipur

Dr. Praveen Jain
Dr. Praveen Jain

Unmute | Start Video | Security | Participants (65) | Chat | Share Screen | Pause/stop recording | Reactions | Apps | Whiteboards | Notes | More | End

Type here to search | 16°C | ENG | 09:52 | 16-02-2024

Zoom Meeting | You are viewing kishor kumar's screen | View Options

Recording...

CO2 Electrochemical Reduction Mechanism

Overall Reaction:
 $CO_2 + H_2O + Energy \rightarrow C_xH_yO_z + O_2$

Reaction	E ⁰
Water Oxidation (Anode) $2H_2O \rightarrow O_2 + 4(H^+ + e^-)$	1.23 V
CO₂ Reduction (Cathode) $CO_2 + m(H^+ + e^-) \rightarrow C_xH_yO_z + nH_2O$	~0 V

Fuels + Chemicals **Overpotential: -1 V**

Hydrogen Evolution: $2(H^+ + e^-) \rightarrow H_2$ 0 V

Two-step CO₂ conversion

Electro-catalytic water electrolysis: $H_2O \rightarrow H_2 + O_2$

Thermo-catalytic CO₂ hydrogenation: $H_2 + CO_2 \rightarrow$ Chemicals & Fuels

One-step CO₂ conversion

Electrocatalytic CO₂ reduction: $CO_2 \rightarrow$ Alcohols and olefins

Metal Catalyst Surface

Water and Carbon Dioxide are converted into Carbon, Hydrogen, and Oxygen Atoms on the catalyst surface, which then combine to form Chemicals & Fuels.

Gloria Joseph
Gloria Joseph

SKIT Jaipur
SKIT Jaipur

Badrul Hisham...
Badrul Hisham Ahmad

Unmute | Start Video | Security | Participants (66) | Chat | Share Screen | Pause/stop recording | Reactions | Apps | Whiteboards | Notes | More | End

Type here to search | 17°C | ENG | 09:57 | 16-02-2024

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Colorimetric Sensor

Methyl orange P^H 9

Figure : Concentration effect of test solution on dye solution.

0.1 ppm 1 ppm 10 ppm
Dye color change response for different ppm of methanol

Concentration (ppm)
Colorimetry NMR
Potential (V vs RHE)

Top view

Side view

23

Gloria Joseph
Gloria Joseph

SKIT Jaipur
SKIT Jaipur

kishor kumar

Badrul Hisham...
Badrul Hisham Ahmad

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Introduction

Polymer Metallization for Decorative Parts

- Grilles
- Door handles*
- Emblems
- Hubcaps
- ...

Cr⁶⁺
Cr³⁺

Electroplating process of polymer generates highly toxic hexavalent chromium during surface activation

REACH COMPLIANCE

- Door handles*
- Knobs*
- Badging
- Accents around the displays and controls
- Roof modules

*Heavily touched

low density, flexibility, design versatility and low production cost of the plastics while maintaining the shiny finish, high reflectivity

3

Unmute Start Video Security Participants 42 Chat Share Screen Pause/stop recording Reactions Apps Whiteboards Notes More End

Dr. Praveen Jain
Dr. Praveen Jain

SKIT Jaipur
SKIT Jaipur


Satyendra Kumar
Satyendra Kumar

pooja

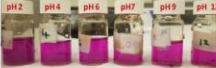
Zoom Meeting You are viewing kishor kumar's screen View Options

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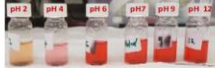
Dyes response at Low PPM




Starch (25°C) before adding H₂O₂




KMnO₄ (25°C) before adding H₂O₂




Eosin blue (25°C) before H₂O₂



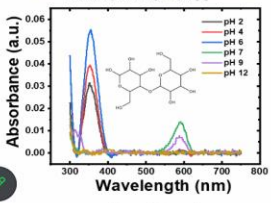
Starch (25°C) after adding 0.003ppm H₂O₂



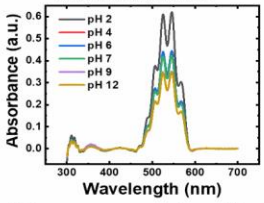
KMnO₄ (25°C) after adding 0.003ppm H₂O₂



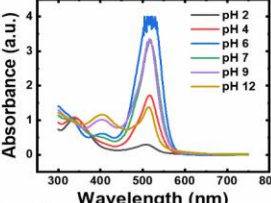
Eosin blue (25°C) after adding 0.003ppm H₂O₂



Absorbance (a.u.) vs Wavelength (nm) for Starch



Absorbance (a.u.) vs Wavelength (nm) for KMnO₄



Absorbance (a.u.) vs Wavelength (nm) for Eosin blue

Figure: Various dye response toward H₂O₂ at room temperature before and after adding 0.003ppm H₂O₂ solution.

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Dr. Praveen Jain

SKIT Jaipur


Gloria Joseph

Gloria Joseph

kishor kumar

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PC_Control



PC_Ag 10nm




PC_Ag 10nm_180°C



PC_Ag 15nm_180°C



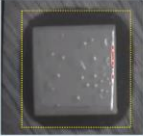
E.Coli



PC_Ag 10nm



PC_Ag 10nm_180°C



PC_Ag 15nm_180°C



S.Aureus

Sharma P, Fialho L, Figueiredo NM, Cavaleiro A, Carvalho S. Under submission

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Badrul Hisham...

Badrul Hisham Ahmad

SKIT Jaipur

poolia

Vikas Pathak

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Comparison of propulsion modalities

Advantages, disadvantages, and incompatibilities of the different nanomotor propulsion modalities.

Propulsion methods	Advantages	Disadvantages	Incompatibilities
Chemical	Doesn't require external equipment, intrinsic propulsion capabilities	Requires fuel source, creates bubbles, potentially toxic by-products of reaction	Bloodstream and interstitial spaces
Acoustic/ultrasound	Good depth of penetration, non-invasive	Bulky equipment required, limited guidance	Acoustic standing waves cannot be used
Magnetic	Excellent depth of penetration, non-invasive, excellent guidance, magnetic imaging possible	Bulky equipment required	Patients with metal implants (depending on field strength)
Light	Moderate depth of penetration, non-invasive, photothermal effects, guidance	Limited depth of penetration, sophisticated equipment required	Thicknesses deeper than near-infrared (NIR) penetration in tissue, UV
Biohybrid	Sophisticated and self-powered designs already present in nature	Potential immune response, higher level of complexity	Bacterial or xeno-biohybrids in the blood

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Type here to search | 25°C | 13:26 | 16-02-2024

Participants: SKIT Jaipur, Sunil Iakhawat, Dr. Shubhi Jain

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L929 (Dox free NM)

Cell viability (%)

NM concentration

Legend:

- 24h NM (Black)
- 48h NM (Dark Grey)
- 24h FA (Yellow)
- 48h FA (Light Yellow)
- 24h PAA (Orange)
- 48h PAA (Light Orange)
- 24h PSS (Green)
- 48h PSS (Light Green)

In vitro cytotoxicity analyses of Doxorubicin-unloaded Nanomotors were conducted using the MTT assay on the L929 cell line. Accordingly, at the highest NM concentration, the lowest cell viability was approximately around 59% in the FA and PAA modified nanomotor group.

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Type here to search | 25°C | 13:42 | 16-02-2024

Participants: SKIT Jaipur, ARUN DEV DHAR DWIVEDI, GLORIA

Zoom Meeting

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Conclusion

The data covers grid capacities from 100 kW to 1000 kW and examines scaling effects on economic indices. Grid sale capacity is inversely related to financial viability metrics like ROI and IRR, indicating that larger HRES configurations generate energy more efficiently but have lower investment returns, which investors and policymakers should consider. The results show that a 2500 kW grid sale capacity system has an optimal IRR of 35%, a ROI of 31%, and a 2.7-year payback period, demonstrating the economic appeal of smaller installations. The system's rapid profitability despite large initial outlays shows its financial viability. As capacity increases to 250 kW and 500 kW, profitability decreases slightly: the former has a 3.2-year payback with a 32% IRR and 27% ROI, while the latter has a 28% IRR and 21% ROI. The largest system, with a 1000 kW sale capacity, has the longest payback period at 3.9 years, a 29% IRR, and a 21% ROI, indicating a cautious but profitable return as the system scales.

Sharad Singhal

SKIT Jaipur

GLORIA

ARUN DEV DHAR DWIVEDI

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SEN... ENG 13:58 16-02-2024

Zoom Meeting

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Electrical characteristics of thin film transistor[2]

- Field Effect Mobility
- Threshold Voltage: V_T
- I_{On}/I_{off} ratio
- Sub-threshold swing (SS)

GLORIA

SKIT Jaipur

Abhinandan Jain

Neeraj Jain

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PARAMETER METRIC

- **Data Rate**
 - Measures the rate at which data is transmitted in the 6G network, reflecting the high-speed capabilities of the technology.
 - **DR = Total Data Transmitted Time**
- **Latency (L)**
 - Represents the time it takes for data to travel from the source to the destination, reflecting the low-latency capabilities of 6G.
 - **L=Time Delay in Communication**
- **Spectral Efficiency (SE)**
 - Reflects the efficiency with which the available frequency spectrum is utilized to transmit data.
 - **SE = Bandwidth**
 - **Data Rate**
- **Energy Efficiency (EE)**
 - Measures the efficiency of energy utilization in 6G communication, considering the environmental impact and sustainability.
 - **EE = Energy Consumed**
 - **Useful Work Done**

16

Neeraj Jain
Neeraj Jain

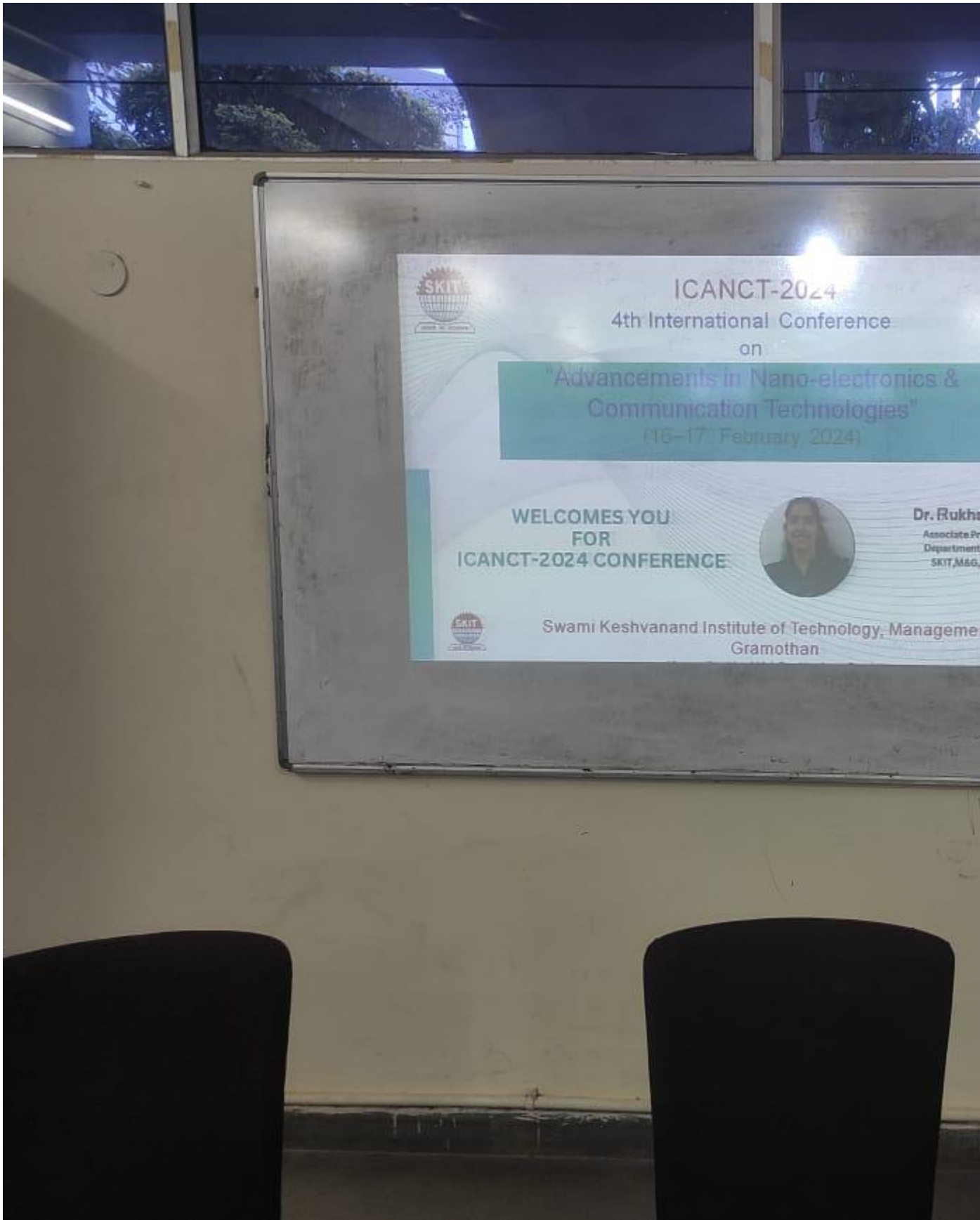
SKIT Jaipur
SKIT Jaipur

Sudesh Garg
Sudesh Garg

Dr. Shubhi Jain
Dr. Shubhi Jain

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Grazing Incidence Fast Atom Diffraction in high pressure conditions

Dr. Arindam Mukherjee
Postdoctoral fellow
University of South Bohemia, Czech Republic
17/02/2024

University of South Bohemia in České Budějovice Faculty of Science
CNRS
université PARIS-SACLAY ECOLE DOCTORALE Ondes et Matière (EDOM)
ISMO

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SKIT Jaipur Gloria Joseph suresh kumar Dr. Shubhi Jain prema ram

SKIT Jaipur Dr. Praveen Kumar Jain Gloria Joseph suresh kumar Dr. Shubhi Jain prema ram

Arindam Mukherjee

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14:18
17-02-2024

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SKIT Jaipur Vikas Pathak Gloria Joseph

Rahul Pandey Dr. Praveen Kumar Jain Vikas Pathak Gloria Joseph amitd

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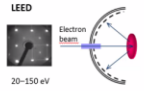
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Surface structure analysis by diffraction

Low Energy Electron Diffraction (LEED)

LEED

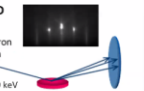


20-150 eV

2D surface structure

Reflection High Energy Electron Diffraction (RHEED)

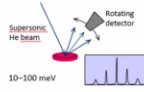
RHEED



5-50 keV

Real-time growth monitoring

Thermal Energy Atom Scattering (TEAS or HAS)



10-100 meV

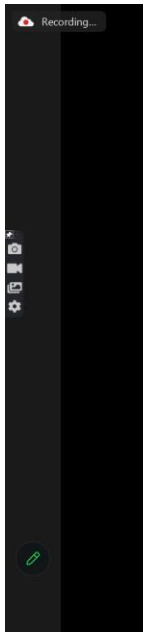
Sensitive to the top layer but slow and laborious

4

universitè
PHYSICS DEPARTMENT

Arindam Mukherjee

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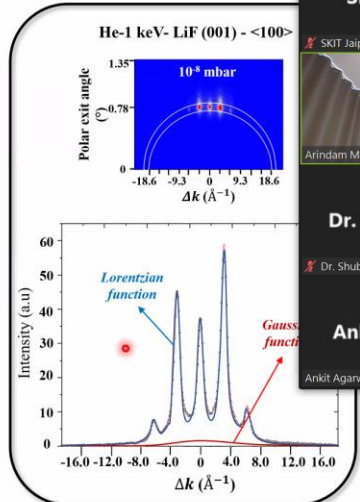


Decoherence in HP-GIFAD

$$PV(x) = y_0 + \sum_n A_n [\mu \times L(x) + (1 - \mu) \times G(x)]$$

Quantum contribution (Lorentzian)
 $\mu = \text{coherent fraction}$

Classical contribution (Gaussian)
 $0 < \mu < 1$



SKIT Jaipur

SKIT Jaipur

Arindam Mukherjee

Dr. Shubhi Jain

Dr. Shubhi Jain

Ankit Agarwal

Ankit Agarwal

17

université PARIS-SACLAY
Dipole et Matière (EDOM)



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Dr. Praveen Kumar Jain

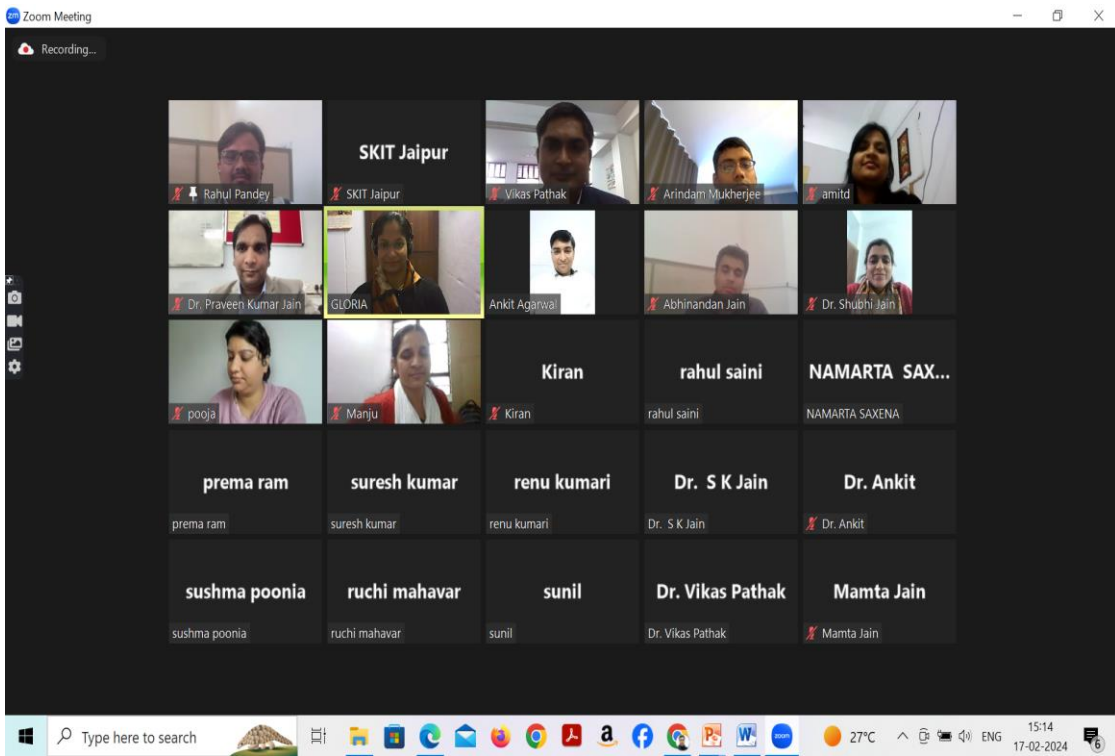
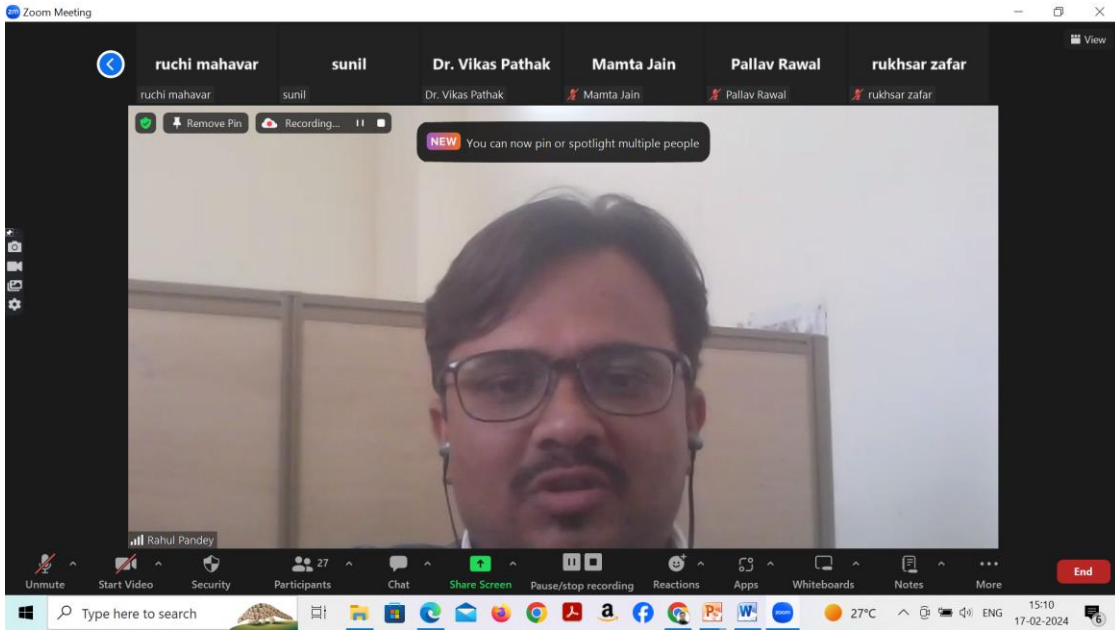
Arindam Mukherjee

Vikas Pathak

Gloria Joseph

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सीमा सन्देश श्रीगंगानगर, शनिवार, 17 फरवरी 2024

एसकेआईटी में अंतरराष्ट्रीय सम्मेलन

जयपुर(सीमा सन्देश)। एसकेआईटी में इलेक्ट्रॉनिक्स एंड कम्युनिकेशन विभाग द्वारा 'एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी' विषय पर दो दिवसीय अंतरराष्ट्रीय सम्मेलन का शुभारंभ किया गया। संस्था के निदेशक शिक्षाविद् प्रो. एसएल सुराणा ने संस्था की उपलब्धियों बारे बताया तथा आज के परिदृश्य में नैनो टेक्नोलॉजी के महत्व पर प्रकाश डाला। प्रो. मुकेश अरोड़ा ने आगंतुकों का स्वागत किया तथा बताया कि कुल 75 शोधपत्र आए थे, जिनमें से 30 को प्रकाशन हेतु चुना गया। मुख्य अतिथि



कतर विवि कतर के प्रो. डॉ. डोंग सुक हॉन ने अपने शोध अनुभवों को साझा करते हुए नैनो मैटेरियल्स द्वारा जल पर्यावरण व ऊर्जा प्रबंधन पर ज्ञानवर्धन किया। विशिष्ट अतिथि कतर विवि के प्रो. डॉ. किशोरकुमार सदाशिवनी, यूनिवर्सिटी ऑफ

टेक्रीकल मलेशिया के डॉ. बदरुल हिशाम बिन अहमद तथा यूनि. ऑफ साउथ बोहेमिया चेक गणराज्य की डॉ.पूजा शर्मा ने भी नैनो टेक्नोलॉजी विषय पर प्रतिभागियों का मार्गदर्शन किया। प्रो. पीके जैन ने सभी का आभार जताया।



दो दिवसीय अंतरराष्ट्रीय सम्मेलन शुरू

खबरों की दुनिया

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान में इलेक्ट्रॉनिक्स एंड कम्युनिकेशन विभाग द्वारा 'एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी' विषय पर दो दिवसीय अंतरराष्ट्रीय सम्मेलन का शुभारंभ किया गया। कार्यक्रम की शुरुआत में संस्था के निदेशक शिक्षाविद् प्रो. एस.

एल. सुराणा ने संस्था की उपलब्धियों के बारे में बताया तथा आज के परिदृश्य में नैनो टेक्नोलॉजी के महत्व पर प्रकाश डाला।

प्रो. मुकेश अरोड़ा ने इस अंतरराष्ट्रीय सम्मेलन में सम्मिलित विभिन्न आगंतुकों का स्वागत किया तथा सम्मेलन के विषय वस्तु पर विस्तृत जानकारी साझा की उन्होंने बताया कि इस सम्मेलन में कुल 75 शोध पत्र आये जिनमें से समीक्षा के उपरांत 30 शोध पत्रों को प्रदर्शन हेतु चुना गया।

दो दिवसीय अंतरराष्ट्रीय सम्मेलन शुरू



आधुनिक समाचार नेटवर्क

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान में इलेक्ट्रॉनिक्स एंड कम्युनिकेशन विभाग द्वारा एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी विषय पर दो दिवसीय अंतरराष्ट्रीय सम्मेलन का शुभारंभ किया गया। कार्यक्रम की शुरुआत में संस्था के निदेशक शिक्षाविद प्रो. एस. एल. सुराणा ने संस्था की उपलब्धियों के बारे में बताया तथा आज के परिदृश्य में नैनो टेक्नोलॉजी के महत्व पर प्रकाश डाला। प्रो. मुकेश अरोड़ा ने इस अंतरराष्ट्रीय सम्मेलन में सम्मिलित विभिन्न आगंतुकों का स्वागत किया तथा सम्मेलन के विषय वस्तु पर विस्तृत जानकारी साझा की उन्होंने बताया कि इस सम्मेलन में कुल 75 शोध पत्र आये जिनमें से समीक्षा के उपरांत 30 शोध पत्रों को प्रदर्शन हेतु चुना गया ।

Yuva स्टोरीज

SKIT में शुरू हुआ वर्चुअल अंतरराष्ट्रीय सम्मेलन



बेधड़क | जयपुर

स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान में इलेक्ट्रॉनिक्स एंड कम्युनिकेशन विभाग की ओर से 'एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी' विषय पर दो दिवसीय अंतरराष्ट्रीय सम्मेलन का शुभारंभ किया गया। कार्यक्रम की शुरुआत में संस्था के निदेशक शिक्षाविद प्रो. एस एल सुराणा ने संस्था की उपलब्धियों

के बारे में बताया तथा आज के परिदृश्य में नैनो टेक्नोलॉजी के महत्व पर प्रकाश डाला। प्रो. मुकेश अरोड़ा ने इस अंतरराष्ट्रीय सम्मेलन में सम्मिलित विभिन्न आगंतुकों का स्वागत किया तथा सम्मेलन की विषय वस्तु पर विस्तृत जानकारी साझा की। उन्होंने बताया कि इस सम्मेलन में कुल 75 शोध पत्र आए जिनमें से समीक्षा के उपरांत 30 शोध पत्रों को प्रदर्शन के लिए चुना गया।

एसकेआईटी मे एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी विषय पर दो दिवसीय अंतरराष्ट्रीय सम्मेलन का शुभारंभ

P3 Police Public Politics

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान में इलेक्ट्रॉनिक्स एंड कम्युनिकेशन विभाग द्वारा एडवांसमेंट इन नैनो इलेक्ट्रॉनिक्स एंड कम्युनिकेशन टेक्नोलॉजी विषय पर दो दिवसीय अंतरराष्ट्रीय सम्मेलन का शुभारंभ किया गया। कार्यक्रम की शुरुआत में संस्था के निदेशक शिक्षाविद प्रो. एस. एल. सुराणा ने संस्था की उपलब्धियों के बारे में बताया तथा आज के परिदृश्य में नैनो टेक्नोलॉजी के महत्व पर प्रकाश डाला। प्रो. मुकेश अरोड़ा ने इस अंतरराष्ट्रीय सम्मेलन में सम्मिलित विभिन्न आगंतुकों का स्वागत किया तथा सम्मेलन के विषय वस्तु पर विस्तृत जानकारी साझा की उन्होंने बताया कि इस सम्मेलन में कुल 75 शोध पत्र आये जिनमें से समीक्षा के उपरांत 30 शोध पत्रों को प्रदर्शन हेतु चुना गया। यह शोध पत्र सम्मेलन के आईएसबीएन प्रोसीडिंग्स में प्रकाशित किए जाएंगे। कार्यक्रम के मुख्य अतिथि डॉ डोंग सुक हॉन (प्रोफेसर कतर यूनिवर्सिटी कतर) ने अपने शोध अनुभवों को साझा करते हुए नैनो मैटेरियल्स के द्वारा जल पर्यावरण व



ऊर्जा प्रबंधन पर ज्ञानवर्धन किया। उद्घाटन समारोह में विशिष्ट अतिथि डॉ किशोर कुमार सदाशिवनी(प्रो सी.ए.एम.कतर यूनिवर्सिटी, कतर), डॉ बदरुल हिशाम बिन अहमद(प्रो. यूनिवर्सिटी टैक्निकल मलेशिया) तथा डॉ.पूजा शर्मा (यूनिवर्सिटी ऑफ साउथ बोहेमिया चेक रिपब्लिक) ने भी नैनोटेक्नोलॉजी विषय पर अपने शोध अनुभवों से सभी प्रतिभागियों का मार्गदर्शन किया। उद्घाटन समारोह के अंत में प्रो. पी.के.जैन ने समस्त आगंतुकों , प्रतिभागियों तथा आयोजन कर्ताओं के प्रति धन्यवाद ज्ञापित किया।

कार्यक्रम के प्रथम दिन तीन व्याख्यान सत्र आयोजित हुए- प्रथम सत्र में कतर यूनिवर्सिटी के प्रोफेसर किशोर सदाशिवनी ने आर्टिफिशियल इंटेलिजेंस बेस्ड फिंगरप्वाइंट सेंसर तथा बायो इंस्पायर्ड सोलर ट्रैकिंग रोबोट पर

चर्चा की। द्वितीय सत्र में डॉक्टर पूजा शर्मा ने नैनो कंपोजिट्स के सेंसर तथा सोलर सेल के क्षेत्र में अनुप्रयोगों पर चर्चा की। तृतीय सत्र की व्याख्याता डॉ आयसेगुल (प्रो सुलेमान डेमीरेल यूनिवर्सिटी तुर्की) रहीं। उन्होंने मेटल नैनो पार्टिकल्स बेस्ड कंडक्टिंग पॉलीमर कंपोजिट्स पर अपने शोध परिणामों पर चर्चा की तथा बायोसेंसिंग के क्षेत्र में उनके अनुप्रयोगों पर प्रकाश डाला। प्रथम दिन के अंतिम सत्र में डॉ अरुण धर द्विवेदी (प्रोफेसर वी आई टी वैलोर) की अध्यक्षता में शोध पत्र प्रदर्शन का सत्र भी आयोजित हुआ।

शोध पत्र प्रदर्शन के अन्य दो सत्र दिनांक 17 फरवरी को आयोजित किए जाएंगे। इस कार्यक्रम के संयोजक डॉ विकास पाठक रहे तथा संचालन मि. हर्षल निगम व मिस ग्लोरिया जोसेफ ने किया।