



E-ETHOS

*Official Newsletter of Electronics & Communication Department,
SEEC, Manipal University Jaipur*



**Inside this
month's issue:**

- Messages
- Events & Awards
- International Events
- National events

ABOUT THE DEPARTMENT

The Department of Electronics & Communication Engineering(ECE), Manipal University Jaipur is a centre for advanced research and teaching. The department aims at becoming a leading department that has introduced courses to students that covers larger domains of the curriculum such as robotics, imaging, RF engineering, Low power VLSI, MEMS, nanotechnology, microwave engineering and antenna, microchips and many more. The Electronics & Communication department offers Undergraduate programs, Postgraduate programs and Doctorate programs, which constitute high-tech syllabus, which is industry-oriented. Undergraduate and Postgraduate students have the opportunity to participate in research projects in ECE labs, and a research paper presented at engineering conferences both at national and international levels. Positions are available during the academic year for the student researchers. The ECE department have well – equipped laboratories and resourceful library constitute the best info-oriented junction for the students.

MESSAGES



FROM DIRECTOR'S DESK



Prof. Amit Soni
Director SEEC,
Manipal University
Jaipur

I am glad to learn that the Department of ECE, MUJ is releasing its quarterly newsletter "E-ETHOS" for the session Jan- Mar 2024 and providing its students with an opportunity to showcase their achievements and innovative ideas. Newsletters, magazines and journals provide us with a medium for the expression of ideas and innovations. I hope that this publication would prove to be a good forum for sharing useful ideas & information. I congratulate the faculty members and the students of the department for publishing this newsletter well in time and convey my best wishes for its success.

FROM HOD'S PEN



Dr. Shilpi Birla
HoD, ECE
Manipal University
Jaipur

I am delighted that the department of ECE MUJ is publishing its quarterly issue of their newsletter "E-ETHOS". The theme of this issue is "Semiconductor". We are here in the department, continuously working on the nourishment of the future of our students by providing an appropriate environment and technical support. Also, we are consistently providing the students with an active platform to show their excellence on the technical as well as the social front. I hope that the consistent efforts of students and faculty will redefine success and brilliance in the field of electronics.



Department of ECE

From Left to Right: Dr. Ankur Saharia, Dr. Madhuri Sahal, Dr. Neetu, Dr. Shilpi Birla, Dr. Neha Singh, Dr. Abhishek Shrivastava, Dr. Himanshu Chaudhary, Dr. Tarun Kumar Dubey, Dr. Sanyog Rawat, Dr. Amit Soni, Dr. Manish Tiwari, Dr. Amit Rathi, Dr. Dinesh Yadav, Dr. Tejpal, Mr. Ashish Vijay, Dr. Chandra Prakash Gupta, Dr. Vishal Das.



VISION

Global leadership and excellence in academics and research in electronics and communication engineering

MISSION

- M1. To deliver a competitive academic curriculum for intellectual growth and multi-disciplinary skill acquisition
- M2. Promoting quality education, scientific awareness for future endeavors in higher education and career in electronics and communication industry
- M3. To cater to the need of promoting leadership and professionalism with human values

INTERNATIONAL EVENTS

VISITS OF RENOWNED PERSONS

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, SCHOOL OF ELECTRICAL, ELECTRONICS & COMMUNICATION (SEEC), MANIPAL UNIVERSITY JAIPUR, RAJASTHAN, INDIA, HAS ORGANIZED VARIOUS INVITED TALKS OF INTERNATIONAL SCIENTISTS AND INDUSTRY EXPERTS BETWEEN JAN TO MAR 2024.



Department of ECE presents,
**International Webinar on
Introduction to Open-RAN
(O-RAN) Architecture &
RAN Intelligent Controller
(RIC)**

30 January, 2024
02:00 PM (IST)
10:30 AM (EET)

Zoom Meeting



Scan the QR
to join



Prof. Tawfik Ismail
Professor of Electronics
and Communication
Engineering, Faculty of
Engineering, King Salman
International University,
Egypt



MANIPAL UNIVERSITY
JAIPUR



IEEE AP-S Student Branch Chapter, Manipal University Jaipur in
Association With IEEE AP-S Chapter-Jaipur
Presents

Talk on
"IEEE and AP Society- the professional
aspects and benefits" and
"Wireless: a magical blend of Science
and Engineering"

DATE: 25 JAN 2024
TIME: 11.00 AM ONWARDS
VENUE: SMT. SHARDA PAI
AUDITORIUM, 2 A-B
ACADEMIC BLOCK

CONVENORS:
DR. DINESH YADAV
DR. AMIT RATHI



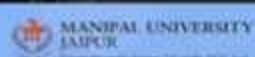
IEEE

Student Branch
Manipal University Jaipur



PROF. DEBATOSH GUHA
RADIO PHYSICS AND ELECTRONICS,
UNIVERSITY OF CALCUTTA,
FELLOW IEEE, CHAIR AP-S MGA

THE SEMICONDUCTOR TALK AT MANIPAL UNIVERSITY JAIPUR



DEPARTMENT OF ELECTRONICS &
COMMUNICATION ENGINEERING

08-01-2024

**An Industry
Expert Talk**

THE SEMICONDUCTOR INDUSTRY:
OVERVIEW, CAREER OPPORTUNITIES, AND
PRODUCTION



Mr. Chetan Arvind Patil
Senior Product Engineer
NXP USA Inc.

Organizer:
Dr. Stuti Birla

22 JANUARY, 2024



9:15 AM

Online (MS Teams)



<https://teams.microsoft.com/join/...>



**Students Need Guidance On What
Semiconductor Industry Is About
And Opportunities It Presents.**

INTERNATIONAL EVENTS

CONFERENCES ORGANIZED

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, SCHOOL OF ELECTRICAL, ELECTRONICS & COMMUNICATION (SEEC), MANIPAL UNIVERSITY JAIPUR, RAJASTHAN, INDIA, IS HOSTING TWO REMARKABLE CONFERENCES ON 28TH - 29TH MARCH 2024.

◆ 1ST INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY APPROACHES FOR SUSTAINABLE DEVELOPMENT IN SCIENCE & TECHNOLOGY (MASDST-2024). THIS PIONEERING CONFERENCE, A COLLABORATIVE EFFORT BY SEEC, MANIPAL UNIVERSITY JAIPUR, SCHOOL OF BUSINESS AND COMMERCE, MANIPAL UNIVERSITY JAIPUR, MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY (MNIT), JAIPUR, AND NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND, AIMS TO FOSTER INNOVATION AND SUSTAINABILITY IN SCIENCE AND TECHNOLOGY.

◆ 1ST INTERNATIONAL CONFERENCE ON SENSORS AND MICROSYSTEMS (ICSM-2024) - ORGANIZED BY SEEC, MANIPAL UNIVERSITY JAIPUR, THIS CONFERENCE IS SET TO BE A CORNERSTONE EVENT FOR ADVANCEMENTS AND RESEARCH IN THE FIELD OF SENSORS AND MICROSYSTEMS.



First International Conference On

MULTIDISCIPLINARY APPROACHES FOR SUSTAINABLE DEVELOPMENT IN SCIENCE & TECHNOLOGY

MASDST-2024

(Hybrid Mode)

MARCH 28 - 29, 2024, MANIPAL UNIVERSITY JAIPUR

In Association With **National Institute of Technology, Uttarakhand**
Malaviya National Institute of Technology, Jaipur

Publication Partner



1st International Conference on Sensors and Microsystems (ICSM-2024)

Jan 24-25, 2024

Organized by
Department of Electronics and Communication Engineering
Manipal University Jaipur, India

Chairpersons:
Dr. S. Subramanian, Chairperson
Prof. Dr. R. Arora, President MUJ

Patron:
Prof. Dr. R. Arora, President MUJ

Co-Chairpersons:
Prof. Dr. R. Arora, President MUJ
Prof. Dr. R. Arora, President MUJ

General Chairs:
Prof. Dr. R. Arora, President MUJ
Prof. Dr. R. Arora, President MUJ

Technical Program Chairs:
Prof. Dr. R. Arora, President MUJ
Prof. Dr. R. Arora, President MUJ

Secretaries:
Prof. Dr. R. Arora, President MUJ
Prof. Dr. R. Arora, President MUJ

Technical Program Committee:
Prof. Dr. R. Arora, President MUJ
Prof. Dr. R. Arora, President MUJ

About the conference
The aim of this conference is to present a unified platform for advanced and multi-disciplinary research towards design of sensors and microsystems. The theme is a broader front focuses on various innovation paradigms in nano and micro electronic sensor, circuits and various systems that may be applied to provide realistic solution to varied problems in medical, society, environment and industries. In order to foster interactions among active researchers in the area of sensors and microsystems, Electronics & Communication Engineering department, Manipal University Jaipur, is organizing International Conference on Sensors and Microsystems (ICSM-2024) on Jan 24-25, 2024 in Jaipur, India.

Conference Tracks (not limited to)

| Advanced Microsystems | Sensors and Sensors Processing | MEMS and NEMS | Smart Sensors | Artificial neural networks |
|---|----------------------------------|-----------------------------|----------------------------|----------------------------|
| Material sensors | Microfluidic sensors and systems | Optical sensors and systems | Artificial neural networks | Artificial neural networks |
| Acoustic/Electromagnetic sensors and systems design | Microfluidic sensors and systems | Optical sensors and systems | Artificial neural networks | Artificial neural networks |

Important Dates

Paper Submission open: 15th June 2023
Paper Submission Deadline (extended to): 1st December 2023
Paper Acceptance Decision: 15th December 2023
Camera Ready Paper submission: 15th December 2023
Registration Deadline Early Bird: 15th December 2023
Registration Deadline Regular: 31st December 2023

Registration Fees

| S.N. | Category | Fees for Indian Authors (in INR) | Fees for foreign Authors (in USD) |
|------|---|-------------------------------------|-----------------------------------|
| 1. | Faculty/Industry Experts | Regular- 10,000 Early bird- 8000 | 250 |
| 2. | Student/Research Scholar (10% discount for student members of Optoelectronics/IEEE/ACM/ETC) | Regular- 8000 Early bird- 6000 | 250 |
| 3. | Attendees | 1500 | 100 |

Contact Person:
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ankur.saharia@jaipur.manipal.edu

Paper Submission Link:
All the accepted papers will be sent to Springer for Scopus Index publishing. Paper can be submitted through the link given below:
<https://www.researchscopus.com/ICSM2024>

For more details

Workshops

MANIPAL UNIVERSITY JAIPUR
(University under Section 2(f) of the UGC Act)

MICRO WORKSHOP ON OPTICAL FIBER SPLICING





Akshat Agarwal **Ballavi Misra**

Date: 2 February 2024 **Time:** 10:00 AM

Venue: Room 101, Workshop Building (Optoelectronics and Photonics Lab)

E-certificate will be awarded to the participants

OPTICA | Manipal University Jaipur Student Chapter **SPIE. STUDENT CHAPTER**

MANIPAL UNIVERSITY JAIPUR
(University under Section 2(f) of the UGC Act)

AMS Circuithon

Department of Electronics & Communication Engineering, Manipal University Jaipur (MUJ) in collaboration with industry partner einfochips, Atal Incubation Centre and E-Cell, MUJ is organizing 2nd Analog Mixed Signal Design Contest AMS CIRCUITHON-2023 from December 2023 to March 2024.

AMS CIRCUITHON 2023 aims to provide a platform to design and simulate circuit for real-world applications in either Analog or Mixed Signal circuits. The scope of the contest covers circuit techniques for Analog/ RF/ Mixed-Signal Circuits, Custom Application Specific Circuits, Memories, and methodologies for Custom Designs. Submissions are acceptable for Industry standard and all open source EDA tools.

Registration Categories:
Undergraduates/ Postgraduates/ Research Scholars

Registration charges:
INR 200/- per team of max. 3 members

Prizes in each category.
Certificate to each participant.

Industry Expert
Dr. Rajendra Pratap
Head, Noida Design Center, einfochips

Sponsored Cash prizes upto INR 1 Lakh!

Share your ideas with team einfochips for Student Startup and Innovation Policy (SSIP)

Timeline:

- Abstract Submission open: 15 Dec, 2023
- Abstract Submission Closes: 25 Jan, 2024
- Acceptance of Abstract: 5 Feb, 2024
- Registration Closes: 15 Feb, 2024
- Final Report Submission: 15 March, 2024
- Final Presentation: March 3rd week, 2024
- Result Declaration: March 4th week, 2024

Organizers: Dr. Shilpi Birla, Dr. Neha Singh, Dr. Rohit Mathur

For abstract submission and queries:
mujvlsi@gmail.com

MANIPAL UNIVERSITY JAIPUR **IEEE AP-S** **MTT-S** **OPTICA** **SPIE** **AMS CIRCUITHON** **einfochips**

MANIPAL UNIVERSITY JAIPUR

HYBRID SEMINAR DISTINGUISHED INSTRUCTOR WORKSHOP - 2024

05 March, 2024 | 2:00pm - 4:00pm
Dr. TMA Pai Auditorium, AB2

Prof. Jae-Sung Rieh
Korea University South Korea

Prof. Reyhan Bakur
Utah State University USA

Prof. Shiban Koul
IIT Delhi India

Organised by MTTs/AP-S
Student Branch Chapter, Department of ECE, SEEC in RF and Microwave Field

NATIONAL SCIENCE DAY

On the occasion of National Science Day (28 Feb. 2024) OPTICA, SPIE student chapters IEEE AESS SBC along with MTT-S, AP-S and RAS SBC's department of ECE, SEEC have organized various activities

ON THE OCCASION OF NATIONAL SCIENCE DAY DEPARTMENT OF ECE PRESENTS, HANDS-ON WORKSHOP ON ARDUINO

On the occasion of National Science Day, to commemorate the discovery of human heart by Dr. CV Raman

28 FEBRUARY, 2024
1:30 PM ONWARDS
ROOM 303, AB-1

MR. AADARSH KUMAR

QR CODE



CLUBS & TECHNICAL CHAPTERS

SPIE. STUDENT CHAPTER
MANIPAL UNIVERSITY
JAIPUR

OPTICA
Advancing Optics and Photonics Worldwide

Manipal University Jaipur
Student Chapter



Achievements

Prof. Manish Tiwari has visited Department of Physics, University of Western Cape, Cape Town as a PI of BRIC project



UG students publications

- A. Agarwal, P. Shrivastava, A. Saharia, and M. Tiwari, "A D-Shaped Circular Photonic Crystal Fiber based Surface Plasmon Resonance Biosensor," in Optica Biophotonics Congress: Biomedical Optics 2024
- Sushma Punia(1); Jeevani Gudipati, Gudipati,; Ankur Saharia; Anton V. Bourdine; Yaseera Ismail; G. Singh; M. Tiwari, "A Star Shaped Nested PCF for OAM Mode Propagation" accepted for publication at FIO\LS-2024.
- Mittal, Shweta; Agarwal, Akshat; Mudgal, Nitesh; Choure, Kamal Kishor; Saharia, Ankur; kumar, Santosh; Singh, Ghanshyam; tiwari, Manish, "Modified Spiral-Shaped PCF based SPR Biosensor with Circular Ring", accepted for publication at FIO\LS-2024.