8th Students' Conference on Engineering and Systems (SCES-2024)

Instructions for Authors:

1. The first author of each submitted paper must be a student.
2. Prospective authors are invited to submit original and unpublished papers in the conference.
3. Paper(s) should be submitted in IEEE double column format limited to 6-pages in the paper template available on website.
4. As per the IEEE norms, the papers submitted will undergo a peer review process for acceptance. The papers will be reviewed by the technical experts.
5. The conference will have oral and poster sessions. The papers accepted under poster session will only be included in the Conference Proceeding.
6. High quality original papers as per the standards of IEEE will be accepted under oral session and shall be sent to IEEE for possible publication in IEEE Xplore.
7. Technical program committee of the conference will decide the inclusion of paper in oral or poster sessions.
8. All the papers should be submitted through on-line paper submission process. Refer paper submission link on website for paper submission.
9. All the papers will be checked for plagiarism and papers that violate IEEE's publication principles will be summarily rejected.

For more information and updates please visit conference website www.mnnit.ac.in/sces2024/

Call for Papers

https://cmt3.research.microsoft.com/SCES2024/Submission/Index

Paper Submission opens: January 25, 2024
Paper Submission deadline: ~~March 01, 2024,~~ **March 20, 2024**
Paper acceptance notification: April 15, 2024
Submission of final paper with registration: June 1, 2024

Registration Fees (excluding GST @ 18%):

Category	Participants From India (INR)	Participants From other Countries (USD)
IEEE Student Member	4000	70
Non-IEEE Student Member	5000	90
All other IEEE members	7000	100
All other Non-IEEE Members	8000	150

Sponsorship Opportunities:

Category	Sponsorship Fee
Platinum	Rs. 100000.00
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8th Students' Conference on Engineering and Systems (SCES-2024)

Co-sponsored by

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Interdisciplinary Technologies for

Sustainable Future

June 21 – 23, 2024

Organized by

Department of Electrical Engineering

Motilal Nehru National Institute of Technology Allahabad

Prayagraj, U.P. - 211004, INDIA

About the Conference:

The Department of Electrical Engineering, Motilal Nehru National Institute of Technology Allahabad has successfully organized seven successive students' conferences titled: "**Students' Conference on Engineering and Systems (SCES-2012, SCES-2013, SCES-2014, SCES-2015, SCES-2019, SCES-2020, & SCES-2022)**", which were technically sponsored by the IEEE Uttar Pradesh Section and co-sponsored by the IEEE Joint Society Chapter of IE/PEL/CS (Industrial Electronics/ Power Electronics/ Control System). Department is organizing the seventh sequel conference of SCES to motivate student scholars working in the area of Engineering and Systems. The conference will focus on the emerging areas in the field of Power, Energy & Control, Electronics, Communication & Signal Processing, Computational Intelligence & Machine Learning, Mechanical Systems and Mechatronics, Applied Sciences, etc. The aim of the conference is to provide a platform for research students to present original work done by them which leads to sharing of knowledge at a highly technical platform. The student researchers and academicians from various reputed institutes will be invited for presentations, deliberations, and discussions. It is proposed to have a 3-day program during **June 21-23, 2024**. The technical program will comprise of keynote and tutorial sessions delivered by academic and industry experts of repute, and involve students' research work through oral /poster presentations and technical exhibitions, etc.

About Electrical Engineering Department

The Electrical Engineering Department (EED) was established in 1961 with the primary goal of producing high-quality technical professionals and promoting research and development activities. It commenced its journey by introducing a four-year BE degree course in 1961, and in the academic year 1970-71, it expanded to include postgraduate programs in Electrical Machine, Power System, and Control System. Presently, EED offers a range of programs, including a Bachelor of Technology in Electrical Engineering, as well as postgraduate (M. Tech.) and Ph.D. programs in Power Electronics and Drives, Control & Instrumentation, and Power Systems, under Regular, Part-Time and QIP categories. The department boasts a faculty of highly qualified and experienced professionals in various fields of Electrical Engineering, encompassing Electrical Power Systems, Electrical Machines, Control & Instrumentation, and Power Electronics and Drives. The vision of the Department vision is to cultivate globally competitive technical experts with a deep understanding of theory and practice, driven by a commitment to societal service, and dedicated to pioneering research in Electrical Engineering that addresses contemporary challenges faced by both the nation and the world.

Technical Tracks

Following are the technical tracks and topics for the technical papers to be submitted in the conference.

Power, Energy & Control:
Control Systems, Instrumentation & Measurement, Dielectrics & Electrical Insulation, EHV AC & HVDC Transmission, Electric Vehicle/ Mobility, Energy storage & Battery Charging Techniques, Industrial Drives & Applications, Intelligent Transportation Systems, Modelling & Simulation of Machines, Power Electronic Converters, Power Quality & EMI, Power System Operation & Control, Power System Protection, Regulation & Electricity Market, Renewable Energy & Grid Integration, Robotics & Automation, Smart Grid & Micro Grid Technologies.

Electronics, Communication & Signal Processing:
Antennas & Propagation, Circuits & Systems, Communication, Consumer Electronics, & Electromagnetics, Electron Devices & Solid-State Circuits, Micro & Nano-electronics, Photonic Technology & Applications, Optical Communication, RF, Microwave, & Millimetre Wave Techniques, Ultrasonic, Ferroelectrics, Sensors & Sensing Systems, Signal, Image & Video Processing, VLSI design, Wireless Technologies.

Computer Networks & Machine Learning:
Artificial & Augmented Intelligence and their applications, Big Data Analysis, Biometrics & RFID, Computational Intelligence, Computer Networks, Computer Vision, Data & Business Analytics, Deep Learning, Image & Video Processing, Internet of Things, Machine learning, Wireless Networks & Security, 5G Networks & Cloud Computing,

Mechanical Systems and Mechatronics:
Aerospace Engineering, Computational Fluid Dynamics, Composite Materials, Finite Element Methods, Heat & Mass Transfer, Manufacturing Technology, Mechatronics, MEMS, Refrigeration & Cryogenics, Smart Materials & Mechanics, Solid Mechanics.

Applied Sciences:
Applied Superconductivity, Bioinformatics, Biomedical Engineering, Computational Biology, Emerging Technologies in Education, Healthcare & Agriculture etc., Engineering in Medicine & Biology, Geo-informatics and Transportation Engineering, Geoscience & Remote Sensing, Nano-biotechnology & Applications, Nuclear Science, Pervasive Computing, Social & Humanitarian Implications of Technology, Statistical Methods, Stability Theory.

Best Paper Awards:
A *Best Paper Award* will be given in each technical track.

Track Chairs

Power, Energy & Control
Dr. Nitin Singh, MNNIT Allahabad
Dr. Deepak Kumar, MNNIT Allahabad
Dr. Navneet Kumar Singh, MNNIT Allahabad
Dr. Niraj Kumar Choudhary, MNNIT Allahabad
Dr. M. Venkatesh Naik, MNNIT Allahabad
Dr. Dipayan Guha, MNNIT Allahabad
Dr. Suman M, IIT (BHU) Varanasi
Dr. Indrajeet Sarkar, NIT Rourkela
Dr. Naveen Kumar Sharma, PTU

Electronics, Communication & Signal Processing
Dr. Arvind Kumar, MNNIT Allahabad
Dr. Manish Tiwari, MNNIT Allahabad
Dr. Arun Prakash, MNNIT Allahabad
Dr, Yogendra Kumar Prajapati, MNNIT Allahabad
Dr. Vinay Kumar, MNNIT Allahabad
Dr. Anand Sharma, MNNIT Allahabad
Dr. Sumit Kumar Jha, MNNIT Allahabad

Computer Networks & Machine Learning
Dr. Ranvijay, MNNIT Allahabad
Dr. Divya Kumar, MNNIT Allahabad
Dr. Rupesh Kumar Dewang, MNNIT Allahabad
Dr. Shailendra Shukla, MNNIT Allahabad
Dr. Badal Soni, NIT Silchar

Mechanical Systems and Mechatronics
Dr. Manish Gupta, MNNIT Allahabad
Dr. Bireswar Paul, MNNIT Allahabad
Dr. Rahul Dev, MNNIT Allahabad
Dr. Manoj Kumar Gupta, MNNIT Allahabad
Dr. Sumit Bhowmik, NIT Silchar
Dr Prashant Kumar Singh. Invertis University Bareilly

Applied Sciences
Dr. Manohar Yadav, MNNIT Allahabad
Dr. Anupam Rawat, MNNIT Allahabad
Dr. Sameer Srivastava, MNNIT Allahabad
Dr. Mitu Mandal, MNNIT Allahabad
Dr. Kedar Nath Das, NIT Silchar

Special Session
1. Dr. Ramanujan E., NIT Silchar, (SS1)
2. Dr. Abirami A M., TCE Madurai, (SS1)
3. Dr. Shailendra Singh, NIT Agartala, (SS2)
4. Dr. Sadhan Gope, TCE Madurai, (SS2)
5. Dr. Padmagirisan P., NIT Agartala, (SS2)

SS01: eXplainable Artificial Intelligence (XAI) for Cyber –Physical System

SS02: Smart Technologies for Sustainable Energy, Environment and Transportation System

Keynote Speakers

Dr. Binoy Krishna Roy
Professor, Department of Electrical Engineering
National Institute of Technology, Silchar

Dr. Saraju Mohanty
Professor, Department of Computer Science and Engineering
University of North Texas

Dr. Mani Bhushan
Professor, Department of Chemical Engineering
Indian Institute of Technology, Bombay

Dr. Bhavesh Kumar R. Bhalja
Professor, Department of Electrical Engineering
Indian Institute of Technology, Roorkee

More to Come...

Tutorial Speakers

Dr. Twinkle Tripathy
Assistant Professor, Department of Electrical Engineering
Indian Institute of Technology, Kanpur

Dr. Vishvas Pandey
Associate Scientist, Wilson Fellow
Fermi National Accelerator Laboratory, Batavia, USA

More to Come...

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