2025 IEEE 1ST INTERNATIONAL CONFERENCE ON SMART AND SUSTAINABLE DEVELOPMENTS IN ELECTRICAL ENGINEERING (SSDEE)

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28TH FEBRUARY - 2ND MARCH 2025

ORGANIZED BY

DEPARTMENT OF ELECTRICAL ENGINEERING

Legacy that Inspires the Future

भारतीय प्रौद्योगिकी संस्थान
भारतीय खनि विद्यापीठ
धनबाद

INDIAN INSTITUTE OF TECHNOLOGY
INDIAN SCHOOL OF MINES
DHANBAD

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About International Conference (SSDEE - 2025)

An International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE - 2025) is being organized by the Department of Electrical Engineering, IIT(ISM), Dhanbad. The conference serves as a premier gathering for researchers, engineers, and professionals to explore the latest developments and trends in power generation, transmission and distribution. With a focus on advancing technologies such as renewable energy integration, power electronics, automation, electrification of transportation, smart grid technologies, resilient monitoring, protection systems and intelligent systems, the conference provides a platform for exchanging ideas, sharing insights, and fostering collaborations in cutting-edge research. Participants from academia, industry, and government agencies come together to present their research findings, discuss challenges, and propose innovative solutions to address the evolving demands of the electrical engineering field. Through keynote speeches, technical sessions, and networking opportunities, the conference aims to stimulate interdisciplinary discussions and inspire new avenues of research that contribute to the advancement of modern electrical engineering practices worldwide.

TRACKS OF THE CONFERENCE

Track-1: Power System:

1. Operation & Control
2. Monitoring
3. Protection
4. FACTS Devices
5. Stability
6. High Voltage Engineering
7. Energy Market
8. Deregulation

Track-2: Smart Grid:

1. Renewable Energy Resources
2. Microgrid
3. Grid Integration
4. Energy Management
5. Islanding
6. IoT

Track-3: Power Electronics and Applications:

1. Devices & Converters
2. Electrical Drives
3. Power Quality

Track-4: Electric Transportation:

1. Electric Vehicle
2. Electric Aircraft
3. Electrical Machines
4. Energy Storage Devices
5. Charging Infrastructure
6. Wireless Power Transfer

Track-5: Soft Computing Techniques in Electrical Engineering:

1. Artificial Intelligence
2. Machine Learning
3. Big Data Analytics
4. Cyber Security
5. Quantum Computing

Track-6: Control, Measurement and Instrumentation:

1. Cyber Physical Systems
2. Robotics
3. Sensors
4. Interfacing Electronics
5. Fibre Optics

Track-7: Application of Electrical Engineering in Special Topics:

1. Mines Application
2. Underground Coal Gasification
3. Hydrogen Technology
4. Carbon Capturing, Utilization & Storage
5. Coal-bed Methane

GUIDELINES

» At least one author of each accepted paper must register on/before 01.02.2025.

» Unregistered papers will not be included in the final program for presentation and publication in IEEE Xplore.

» Each full registration is valid for one paper. Besides, with one full registration, ONLY one additional paper by the same registered author will be considered after paying an additional amount as mentioned under Category B of Regular Registration Fee.

» Each full fee registration is entitled to present/publish only one (1) accepted paper with the maximum of six pages. Extra two pages (i.e. maximum of 8 pages) may be allowed with over length page charge of Rs. 2500 / $30 per page.

» Please keep a copy of the Payment Transaction ID, generated by the payment gateway / by your bank. You may need these later in registration process or if you need to track your payment/registration.

» The paid registration fee is non-refundable.

» The eligible authors are requested to provide the scan copy of valid IEEE membership card / Student Institute ID proof during the registration process.

» To complete the registration process, the authors must fill the below Google Form by 01.02.2025 (Google Form link will be available soon) after making the payment. The late registration is allowed with 20% extra conference fee till 05.02.2025.

» Registering author must refer the category of eligible registration. Refer Table in "Registration Fee" Section for detailed registration fees.

» Receipt will be provided in the name of registered author only.

» Any one of the registered authors/co-authors can present the accepted paper.

» The authors can pay the conference registration fee through NEFT/ RTGS/ IMPS/ Direct Deposit/ Swift Transfer to the following bank account.

» Additional transaction fees may be charged by the payment gateway.

» Based on the availability, the participants may get hostel accommodation from 27-02-2025 to 02-03-2025 on minimal charges (Details charges will be provided soon). More details and procedure to apply for accommodation will be provided on the conference website.

» For any query, contact **ssdee@iitism.ac.in**

» **Please Fill the Google Form after the Registration and Payment of Fees using below Bank Details**

Bank Details for Registration in SSDEE-2025

Account Name*	**IIT (ISM) SPECIAL FUND**
Account Number	**0986101024892**
Bank Name	**Canara Bank, Saraidhela Branch, Dhanbad, 828127**
IFSC Code	**CNRB0000986**
SWIFT Code	**CNRBINBBBFD**

Please Visit the Official Registration Page and Fill the Google Form after Registration in SSDEE-2025

Scan the QR to Visit the
Registration Page and Register

For More Details,
Visit our official
SSDEE-2025
Website

REGISTRATION FEE

At least one author of the accepted paper must register with appropriate conference fee to include the paper in the First SSDEE-2025 conference program and publication in IEEE Xplore.

(Early Bird Registration)

Category A: For Presenting Authors of Each Accepted Regular Paper (Physical Mode)

S.no	Category	IEEE Members Fee (Inclusive of 18% GST)	Non-IEEE Members Fee (Inclusive of 18% GST)
1	Student Authors	5,310 INR	5,900 INR
2	Academic Institution Delegates	10,620 INR	11,800 INR
3	Industry / R&D Professionals	11,800 INR	12,980 INR
4	Internation Authors	250 USD	300 USD

(Regular Registration Fee)

Category A: For Presenting Authors of Each Accepted Regular Paper (Physical Mode)

S.no	Category	IEEE Members Fee (Inclusive of 18% GST)	Non-IEEE Members Fee (Inclusive of 18% GST)
1	Student Authors	6,372 INR	7,080 INR
2	Academic Institution Delegates	12,744 INR	14,160 INR
3	Industry / R&D Professionals	14,160 INR	15,576 INR
4	Internation Delegates	300 USD	360 USD

Category B: For Non-Authors / Non-Presenting Foreign (Virtual Mode)

S.no	Category	IEEE Members Fee (Inclusive of 18% GST)	Non-IEEE Members Fee (Inclusive of 18% GST)
1	Student Authors	4,130 INR	4,720 INR
2	Academic Institution Delegates	8,260 INR	10,620 INR
3	Industry / R&D Professionals	10,620 INR	11,800 INR
4	Internation Delegates	200 USD	250 USD

Category C: For presenting foreign authors of each accepted regular paper (Virtual Mode)

S.no	Category	IEEE Members Fee (Inclusive of 18% GST)	Non-IEEE Members Fee (Inclusive of 18% GST)
1	Student Authors	300 USD	360 USD
2	Academic Institution Delegates	400 USD	450 USD
3	Industry / R&D Professionals	500 USD	550 USD

CALL FOR SPECIAL SESSIONS FOR SSDEE-2025

Special sessions can cover subjects or cross-subjects belonging to the topics of interest, or novel topics related with the ones identified within the topics of interest.

SPECIAL SESSION PROPOSAL CONTENT

If you are interested to organize a special session, please send a proposal by using the template and email to the Special Session Co-chairs, with subject as "Special Session Chair" at **ssdee_ss@iitism.ac.in** and including the following information:

1. Title of the Special Session
2. Brief description of the area of concern (approx. 100 words), with special focus on why we should believe this is an interesting and significant topic?
3. The name and contact information of THREE or more special session organizers (multi-nationals preferred and multi-institutional mandatory), who are willing to promote and organize a sufficient amount of quality submissions to the special session.
4. Special session organizer, affiliation, e-mail ID and phone number.
5. Short biography of the proposed session chair (s) - Maximum 200 words.
6. Expected number of submissions.
7. A list of potential authors and their affiliations
8. A list of national/international potential reviewers and their affiliations (minimum 20 nos.)
9. The sponsoring Technical Committee (if any)

SUCCESSFUL SPECIAL SESSION

For each session, there must be a minimum of 6 accepted and registered papers with authors from two different countries and at least three independent universities (other than the organizers' institutions). In the event that a session has too few papers, the accepted papers will be assigned to regular sessions wherever feasible. In case of poorly planned special sessions, the conference organizers will offer required guidance and reserve the right to take appropriate action, such as calling off the relevant special session.

SESSION CHAIRS

When a Special Session is finally accepted by the conference, Special Session organizers will serve as Session chairs in the conference. In the unlikely event that the organizers of the special session are unable to attend the conference, the Technical Program Chair and the Conference General Chair may assume all responsibility for selecting the session chairs.

ORGANIZATION OF SPECIAL SESSIONS

» Once the Special Session has been approved, it is the responsibility of the Organizers to publicize among researchers, academicians and practitioners in the field about it and to attract a good number of high quality research papers.
» Papers submitted to special sessions will undergo the same review process as regular papers. The special session organizers of the respective special session are responsible for organizing the review process, assuring at least three reviews per paper.

CONFLICT OF INTEREST

Before starting the review process, special session organizers must explicitly declare papers which present a conflict of interest for them. Such cases may be brought to the notice of the Special Session Co-Chair(s) so that he/she can arrange for the independent review process.

RESTRICTIONS

During the review process, Special Session Organizers must take into account that:

1. An individual cannot be (co-) author of more than two papers submitted to the same Special Session.
2. The Organizers can contribute a maximum of two papers in their special session.
3. The Organizers' contribution does not count toward reaching the minimum threshold of 6 papers.

FREE CONFERENCE REGISTRATION

Organizers of successful Special Sessions must register for and attend the conference, and chair the corresponding sessions.

Sponsorship Opportunities

Category Sponsorship	Fee (in INR)
Title Sponsor	₹ 4,00,000 + 18% GST
Platinum	₹ 3,00,000 + 18% GST
Diamond	₹ 2,00,000 + 18% GST
Gold	₹ 1,00,000 + 18% GST
Silver	₹ 50,000 + 18% GST
Bronze	< ₹ 50,000 + 18% GST

Key Benefits to the Contributors

Partners that participate in SSDEE-2025 will have the opportunity to interact with a wide range of global power and energy industry specialists. The IEEE network, IIT (ISM) Dhanbad and social media are just a few of the platforms that will be used to promote the conference. Our supporters will receive substantial national and worldwide exposure as a result of our marketing.

Guidelines for Contributors

SSDEE-2025 is the first international conference organized by Department of Electrical Engineering of Indian Institute of Technology (ISM) Dhanbad, in collaboration under the aegis of IEEE Kolkata Section. SSDEE-2025 provides a distinct and targeted platform for showcasing your technology, solutions, and services. It also allows you to look into ways to reach out and establish a connection with possible clients. A distinct emphasis on your advertising at the conference is included in our sponsorship packages, along with a number of exclusive benefits. We are thrilled to extend an invitation to you to attend as an exhibitor at Indian Institute of Technology (ISM) Dhanbad, India, for our upcoming SSDEE-2025. Participating as an exhibitor or contributor will allow you to join one of the leading power and energy conferences in the Indo-Asia area. Contributors can network and engage with approximately 500 attendees, including representatives from many nations, top leaders from the Indian and worldwide IT industries, pre- and post-event media coverage, and numerous potential for industry/academia partnerships.

Contributors' Benefits

Title Sponsor (₹ 4 Lakh + 18% GST)

1. The logo of the primary contributor appears on the conference website/brochure/banner/hoardings and other promotional materials of the event.
2. Opportunity to present to the audience around 30 minutes (maximum) duration related to their Organization/R&D activities/Products.
3. Maximum five (5) approved promotional items (supplied by contributor) distributed with the conference packs to all delegates.
4. Four banners/standees received from contributor will be displayed at the venue.
5. Maximum two (2) stalls (each of 10 feet × 10 feet) are arranged for the contributors.
6. The conference offers four (4) free registrations for the contributors. These registrations include all technical sessions, daily working lunches, admission to the welcome reception, the conference gala dinner, and the closing ceremony.

Platinum Category (₹ 3 Lakh + 18% GST)

1. The logo of the primary contributor appears on the conference website/brochure/banner/hoardings and other promotional materials of the event.
2. Opportunity to present to the audience around 20 minutes (maximum) duration related to their Organization/R&D activities/Products.
3. Maximum four (4) approved promotional items (supplied by contributor) distributed with the conference packs to all delegates.
4. Three banners/standees received from contributor will be displayed at the venue.
5. Maximum one (1) stall (10 feet × 10 feet) is arranged for the contributors.
6. The conference offers three (3) free registrations for the contributors. These registrations include all technical sessions, daily working lunches, admission to the welcome reception, the conference gala dinner, and the closing ceremony.

DIAMOND CATEGORY (₹ 2 LAKH + 18%)

1. The logo of the primary contributor appears on the conference website/brochure/banner/hoardings and other promotional materials of the event.
2. Maximum three (3) approved promotional items (supplied by contributor) distributed with the conference packs to all delegates.
3. Two banners/standees received from contributor will be displayed at the venue.
4. Maximum one (1) stall (10 feet × 10 feet) is arranged for the contributors.
5. The conference offers two (2) free registrations for the contributors. These registrations include all technical sessions, daily working lunches, admission to the welcome reception, the conference gala dinner, and the closing ceremony.

GOLD CATEGORY (₹ 1 LAKH + 18% GST)

1. The logo of the primary contributor appears on the conference website/brochure/banner/hoardings and other promotional materials of the event.
2. Maximum one (1) approved promotional items (supplied by contributor) distributed with the conference packs to all delegates.
3. Two banners/standees received from contributor will be displayed at the venue.
4. There are two (2) complimentary tickets available for the conference's gala dinner.
5. Maximum one (1) stall (each of 10 feet × 10 feet) are arranged for the contributors.
6. The conference offers one (1) free registration for the contributors. These registrations include all technical sessions, daily working lunches, admission to the welcome reception, the conference gala dinner, and the closing ceremony.

SILVER CATEGORY (₹ 50,000 + 18% GST)

1. The logo of the primary contributor appears on the conference website/brochure/banner/hoardings and other promotional materials of the event.
2. One banner/standee received from contributor will be displayed at the venue.
3. There is one (1) complimentary ticket available for the conference's gala dinner

BRONZE CATEGORY (< ₹ 50,000 + 18% GST)

1. The logo of the primary contributor appears on the conference website/brochure/banner/hoardings and other promotional materials of the event.

To know more, visit the SSDEE-2025 contributors' official page

Bank details for making your contribution to SSDEE-2025

Account Name*	IIT (ISM) SPECIAL FUND
Account Number	0986101024892
Bank Name	Canara Bank, Saraidhela Branch, Dhanbad, 828127
IFSC Code	CNRB0000986
SWIFT Code	CNRBINBBBFD

Please visit the SSDEE-2025 contributors' official page and fill the Google form after making your contribution

About IIT(ISM) Dhanbad

The Indian Institute of Technolgy (Indian School of Mines) Dhanbad, Jharkhand is located in the prime coking coal belt of India which is 260 km away from the Kolkata city. The IIT(ISM) Dhanbad has all the facilities of a world class academic research institute and is fully residential. The Indian School of Mines was formerly opened on 9th December 1926, by Lord Irwin, the then Vice-Roy of India to address the need for trained man power related to mining activities in the country with disciplines of Mining and Applied Geology. The Indian School of Mines has been conferred the status of Indian Institute of Technology (IIT) on September 06, 2016, by the Government of India and has been renamed as Indian Institute of Technology (Indian School of Mines), Dhanbad. Since its establishment, the institute has undergone considerable expansion of its activities, and emerged as a reputed technical institution of the country. IIT(ISM) offers courses like B.Tech. (4 Years), Integrated M.Tech. (5 Years), M.Sc. and M.Sc.Tech., Master of Business Administration (MBA), and Ph.D. IIT(ISM) Dhanbad has been contributing significantly to the growth and development of different disciplines of engineering.

About Department

Though the Electrical Engineering Department has been established only recently, the Electrical Engineering Section existed in the School for over last 35 years. As a part of Mining Machinery Engineering department, the Electrical Engineering Section was fully functional with teaching and R&D activities from 1975.

The Department of Electrical Engineering at IIT(ISM) Dhanbad is renowned for its excellence in academic and research pursuits. With a dedicated faculty, the department offers a comprehensive curriculum that encompasses both theoretical knowledge and practical applications in the field of electrical engineering. The department has produced a number of M.Tech. and Ph.D. scholars in different specializations of Electrical Engineering.

The department is equipped with state-of-the-art laboratories, research facilities, and advanced tools that provide students with hands-on experience and opportunities to engage in cutting-edge research. The faculty members are actively involved in interdisciplinary research and collaborative projects, fostering an environment that encourages innovation and creativity.

Moreover, the department maintains strong industry connections, offering students the chance to participate in internships, industrial training, and industry-sponsored projects, thus bridging the gap between academia and real-world engineering practices.

The Electrical Engineering Department at IIT(ISM) Dhanbad also promotes a culture of entrepreneurship and leadership, nurturing the development of future industry leaders and innovators through various initiatives and programs.

Nearby visiting places of IIT(ISM) Dhanbad

The area around the campus offers a variety of attractions that are worth visiting during your time here. Here are some notable sightseeing locations near IIT(ISM) Dhanbad that you might want to consider:

1. **Panchet Dam:** Situated around 52 kilometers from IIT ISM Dhanbad, Panchet Dam is a picturesque location offering breathtaking views of the dam and the surrounding landscape. It's an ideal spot for nature enthusiasts and photography enthusiasts.

2. **Maithon Dam:** Approximately 48 kilometers away from the campus, Maithon Dam is another popular tourist destination known for its scenic beauty and boating facilities. The tranquil waters and lush green surroundings make it a perfect place for a day trip.
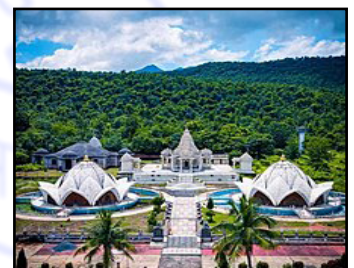
3. **Topchanchi Lake:** This beautiful lake is located around 37 kilometers from IIT ISM Dhanbad and is known for its serene atmosphere and scenic surroundings. It's a great place to unwind and enjoy some peaceful time amidst nature.

4. **Bhatinda Falls:** About 35 kilometers away from the campus, Bhatinda Falls is a hidden gem known for its cascading waterfalls and lush greenery. It's an ideal spot for a refreshing getaway and a picnic with friends.

5. **Parasnath Temple:** Parasnath, located in Jharkhand, is a significant pilgrimage site for Jains. The presiding deity at Parasnath is Lord Parshvanath, the 23rd Tirthankara of Jainism. Devotees visit the Parasnath Temple to pay homage to Lord Parshvanath and seek spiritual blessings.

Indian Institute of Technology
(Indian School of Mines)
Dhanbad - 826004
Jharkhand, India

IMPORTANT DATES

Paper Submission Opens	July 30, 2024
Paper Submission Deadline	October 15, 2024
Final Paper Acceptance Notification	December 01, 2024
Camera-Ready Paper Submission Deadline	December 31, 2024
Early Bird Registration	January 01 - January 07, 2025
Registration Starts	January 08, 2025
Registration Ends	February 01, 2025
Conference Dates	February 28 – March 2, 2025

Scan the QR to Visit the Registration Page and Register

📍 **IIT(ISM) DHANBAD**

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