

Department of Electrical Engineering

Indian Institute of Technology (Indian School of Mines) Dhanbad



VIBHAV



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Monthly Newsletter

MESSAGE FROM HoD's DESK

By PROF. SUKANTA DAS



Dear All,

Greetings from IIT (ISM) Dhanbad!

With immense pride and enthusiasm, we present the February 2026 edition of the Department of Electrical Engineering's monthly newsletter, VIBHAV. Each issue of VIBHAV embodies the dynamic academic spirit of our department and its steadfast commitment to excellence.

The month of February 2026 has been marked by several remarkable individual achievements that highlight the dedication, perseverance, and collaborative ethos of our faculty, students, and staff. These milestones not only celebrate personal success but also contribute to strengthening the collective identity and reputation of our department.

As we move forward, we warmly invite our students to play an active role in enriching the quality, diversity, and reach of VIBHAV. Your thoughtful feedback and creative suggestions are always welcome and may be shared at ee@iitism.ac.in. Together, let us continue to make every edition of VIBHAV more engaging, inspiring, and impactful.

Best wishes.

ABOUT THE DEPARTMENT

The Electrical Engineering department was established in the year 2005. The four-year B.Tech. program in Electrical Engineering was started in the academic session 2006-07. Although the Department of Electrical Engineering is one of the latest of the existing departments of the Institute, the Electrical Engineering Section existed as a part of earlier Mining Machinery Engineering department from 1975. Apart from different B.Tech. programs, the department at present also offers M.Tech programs in Power System Engineering and Power Electronics & Electrical Drives. Through funded projects, consultancies, Doctoral, and postdoctoral programs, most of the research activities are being carried out in the department.

PUBLICATIONS

Journals

- D. Mishra, V. Chopra, D. Mishra, A. Baral, "A Non-Invasive Measurement-Based Modeling for Assessing Power Transformer Aging and Reliability," *Measurement*, Accepted, 2026.
- Prakash Kumar, Sumit Paul, Kalyan Chatterjee, "Detection and mitigation of cyber attacks in PMSG based wind energy system using H-infinity controller," *International Journal of Critical Infrastructure Protection (Elsevier)*, Volume 53, 2026, 100842, ISSN 1874-5482, doi: 10.1016/j.ijcip.2026.100842.

Conferences

- S. Bhowmik, S. Kumar, G. Shankar, "Hybrid P&O-PSO Algorithm for Maximum Power Point Tracking in Grid-Connected PV Systems under Partial Shading Condition," 2026 4th Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON-2026), Bhubaneswar, India, pp 1-6.

INDIVIDUAL ACHIEVEMENT

The paper entitled, "Hybrid P&O-PSO Algorithm for Maximum Power Point Tracking in Grid-Connected PV Systems under Partial Shading Condition," authored by S. Bhowmik, S. Kumar, and G. Shankar has been adjudged as the **Best Paper Award** in the 2026 4th Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON-2026), Bhubaneswar, India, held from 20-21st February, 2026.

Hearty Congratulations to them!

OUTREACH ACTIVITIES

- **Prof. Arijit Baral** delivered an invited lecture in online workshop titled Power Cables: Design, Materials, Diagnostics, and Applications on “Decoding

De-Trapped Charge Influenced PDC Signatures of Oil-Impregnated Paper Insulation”, organized by the Department of Electrical Engineering, Indian Institute of Technology Ropar, February, 2026.

- **Prof. Kalyan Chatterjee** delivered an invited lecture on “Soft Computing Techniques”, organized by the Department of Electrical Engineering, Muzaffarpur Institute of Technology, Muzaffarpur, Bihar, 24th February, 2026.



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Prof. Arijit Baral delivered an invited lecture in online workshop titled Power Cables: Design, Materials, Diagnostics, and Applications.

Mr. Sandeep Kumar Tripathi has fulfilled all the requirements for the award of Ph.D. degree under the guidance of **Prof. Kartick Chandra Jana** and Ashish Shrivastava (External Co-guide). His thesis title is “Advanced Control and Energy Management Strategies for Grid-connected Hybrid Renewable Energy Based Microgrid”.

Hearty Congratulations for his achievement !

Mr. Anshu Mala has fulfilled all the requirements for the award of Ph.D. degree under the guidance of **Prof. Sanjoy Mandal**. His thesis title is “Modelling and Applications of Micro-Optical Ring Resonator in Optical Communication Networks”.

Hearty Congratulations for his achievement !

EDITORIAL TEAM

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