

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!

I am pleased to share with you the "May 2026" edition of the Department of Electrical Engineering's monthly newsletter, "VIBHAV".

The month of "May 2026" has been marked by some remarkable individual achievements that highlight the dedication, perseverance, and collaborative ethos of our faculty members. 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 Intelligent Control and Instrumentation, 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

- Md Asif Hussain and **Ananda Shankar Hati** "An Intelligent Digital Twin Framework for Real-Time Underground Mines Ventilation on Demand System," *IEEE Transactions on Industry Applications* - IEEE IAS.
- V. K. Raushan, S. Ganguly, **A. Baral**, S. Chakravorti, "Fast and Reliable Estimation of Transformer Oil Properties Using Nonlinear Model consisting Time-Varying Parameters," *IEEE Transactions on Dielectrics and Electrical Insulation*, Early Access,

DOI:10.1109/TDEI.2026.3692416, May 2026.

- YK Singh, SK Ghosh, **T. Maity**, "Comparative Investigation of Aerodynamic Performance Between a Hybrid ϕ shaped Darrieus and Multi-Staged Modified Savonius Turbines Under Controlled Flow Parameters: A Novel Experimental Study," *Flow Measurement and Instrumentation*, May 2026.

Conferences

- Sri Krishna Roshan and **Sethupathy S.**, "Parametric Study on the Effect of Pole Area and Radial Placement of Poles in Disk Eddy Current Braking Systems for Electric Transportation," *IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE)*, pp. 1-6, Dharwad, India, 2025.
- Sri Krishna Roshan and **Sethupathy S.**, "Optimal Distribution of Pole Area and Its Angular Separation on Braking Performance in Eddy Current Brakes," *IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE)*, pp. 1-6, Dharwad, India, 2025.

OUTREACH ACTIVITIES

- **Prof. Dushyant Sharma** delivered a guest lecture on, "Integration of Distributed Energy Resources: Some Aspects of Control, Protection, Stability, and other Associated Issues", in a Hybrid Faculty Development Program on "Advances in Smart Energy Technologies, Intelligent Control, and Drives"

organized by Department of EEE, Birla Institute of Technology, Mesra, Ranchi, on 7th May 2026.

- **Prof. Nitai Pal** received Senior (Individual) Membership of Indian National

Academy of Engineering (INAE) w.e.f. 15th May 2026.

- **Prof. P. K. Sadhu** has completed “Environmental and Social Impact Assessment (ESIA) Studies at Maithon, Konar,

Panchet, Tilaiya and Barhi for Development of Renewable Energy Project within DVC Command Area”, with the rate of total Rs. 65,00,000.00.



Prof. Tanmoy Maity visited Poznan University of Technology, Poland, 18-22 May, under Faculty Teaching mobility Erasmus+ program

UPCOMING EVENTS

Executive Development Program (EDP) on “Mine Electrical Drives Technology and Safety Challenges” (EDP No. OCEP/T003E/2026-27) to be held during 17th–21st August 2026 at Seminar Room (No. 113), 1st Floor, New Academic Complex, Department of Electrical Engineering, IIT (ISM) Dhanbad. CI- **Prof. Nitai Pal**, Professor and Co-CI- **Prof. P. K. Sadhu**, Professor (HAG), Department of Electrical Engineering.

Link: <https://www.iitism.ac.in/seminar-1>

Registration Details:

https://www.iitism.ac.in/storage/SeminarDoc/SeminarDoc_6a02b76b0d0641778562923.pdf

Link: <https://www.iitism.ac.in/electrical-engineering>

IEEE International Conference on “Condition Assessment Techniques in Electrical Systems”, “CATCON-2026” under IEEE Dielectrics and Electrical Insulation Society (DEIS) to be held during 18th – 20th December 2026.

Link: <https://catcon2026.iitism.ac.in/index.php>

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