



ABOUT IIT (ISM) DHANBAD

The Indian National Congress at its XVII Session of December 1901 passed a resolution stating that “in view of the fact that the tendency of recent legislation namely, The Indian Mines Act VII of 1901, is that all Indian mines must be kept under the supervision of mining experts, the Congress is of opinion that a Government College of Mining Engineering be established in some suitable place in India on the models of the Royal School of Mines in England, Mining Colleges of Japan and at other places in the continent”. The McPherson Committee formed by Govt. of India, recommended the establishment of an institution for imparting education in the fields of Mining and Geology, whose report, submitted in 1920, formed the main basis for establishment of the Indian School of Mines, Dhanbad. The Indian School of Mines was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. In 1967 it was granted the status of a deemed to be university under Section 3 of UGC Act, 1956. Since its establishment, IIT(ISM) has undergone considerable expansion of its activities, and presently it can be considered as a total technology education institute.

In 2025 QS World University Rankings by Subject – Engineering Mineral and Mining, IIT (ISM) Dhanbad is ranked 20 Globally and ranked 1 in India.



ABOUT DEPARTMENT OF ELECTRICAL ENGINEERING

The Department of Electrical Engineering is one of the most recent additions to the Institute, having been established in February 2005. The Bachelor of Technology (B.Tech.) program in Electrical Engineering commenced in the academic year 2006-07.

The Electrical Engineering Department, founded in February 2005, is among the newest additions to the institute. The Bachelor of Technology (B.Tech.) program in Electrical Engineering was introduced in the 2006-07 academic year. Despite its recent establishment, the electrical engineering section builds upon a three-decade legacy within the Institute as part of the Mining Machinery Engineering Department. Currently, the department offers B.Tech. program in electrical engineering and dual-degree options. It also provides Master of Technology (M. Tech.) programs in Power System Engineering and Power Electronics and Electrical Drives. The department's research activities are primarily conducted through sponsored projects, doctoral and postdoctoral programs.

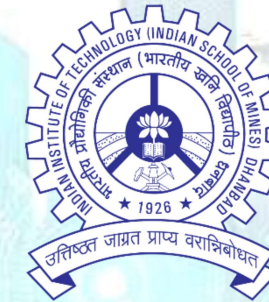
Currently, there are 30 faculty members, 60+ PhD students, 50+ MTech students and 500+ BTech students associated with the department.

Two days Centenary Webinar on

Embracing Control Theory in Modern Real World

28-29 May 2025

**Organized by Department of Electrical Engineering,
Indian Institute of Technology (ISM) Dhanbad,
India**



Program Conveners

**Dr. Bhawana Singh, Assistant Professor,
Electrical Engineering, IIT(ISM) Dhanbad
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**Dr. Shyam A B, Assistant Professor, Electrical
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Invited Speakers



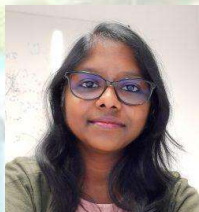
Prof. Leena Vachhani
Systems & Control Engineering,
IIT Bombay
Research interests: Autonomous vehicles, embedded control systems, multiagent systems, and robotic applications in IoT



Prof. Soumya Ranjan Sahoo
Electrical Engineering,
IIT Kanpur
Research interests: Nonlinear systems, control of unmanned autonomous vehicles, coordinated control, discontinuous systems



Prof. Shyam Kamal
Electrical Engineering,
IIT (BHU) Varanasi
Research interests: Fractional-order systems, discrete and continuous higher-order sliding mode control and multi-agent systems



Prof. Kiran Kumari
Electrical Engineering,
Indian Institute of Science
Research interests: event-triggered control, multi-agent system, control of quadrotors, sliding mode control, nonlinear systems and control, networked control systems.

Registration Details

Category	Fees (Including GST)
MTech/PhD	767
MTech/PhD (Only for Internal Cadidates)	500
Faculty Members	1180
Industry Professionals	1770

Bank Details:

Account Name – IIT (ISM) SPECIAL FUND
Account Number – 0986101024892
Bank – Canara Bank, Saraidhela Branch
IFS Code – CNRB0000986

UPI ID: 31012626024892@cnrb

UPI Name: IIT ISM PROJECT AC



All participants should fill the Google Form after payment: <https://forms.gle/kdqJ2AktX6rSZUAo7>

Note: Online certificate and payment receipt will be given to all the participants.

Important Dates

Registration Opens: 25 April 2025

Registration Closes: 25 May 2025

About the Webinar

In an era dominated by automation, smart technologies, and interconnected systems, Control Theory stands as a foundational pillar driving innovation. From self-driving cars and climate control to robotic surgery and AI, modern applications are redefining how we perceive control systems.

This two days centenary webinar (total 04 lecture hours) on “Embracing Control Theory in Modern Real World” explores how traditional control principles are being reshaped and reapplied in the real-world context of the 21st century — providing insights for students, professionals, and enthusiasts across engineering, data science, and tech sectors.

Objective of the Webinar

This webinar aims to enhance the researchers' understanding of Control theory and their practical applications in modern real-world systems like autonomous vehicles enabling precise control, safety and efficiency. Control systems facilitate tasks that were previously reliant on human intervention, allowing for greater adaptability, consistent performance and optimized operation. The theme of this webinar is dedicated to the practical applications of control theory in real world such as robotic systems, unmanned aerial vehicles, multi-agent systems.

Targeted Audience

MTech, PhD students, faculty members, industrialists