

## **ABOUT THE INSTITUTE**

*The Indian Institute of Technology (Indian School of Mines), Dhanbad* formerly known as Indian School of Mines, Dhanbad was formally opened on 09<sup>th</sup> 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), Dhanbad has undergone considerable expansion of its activities and presently it can be considered as a total technology education Institute. Indian Institute of Technology (Indian School of Mines) is the only Institute of its kind in India caters to human resource needs of the nation in the areas of Mining, Petroleum, Mining Machinery, Mineral Engineering and Earth Sciences besides training manpower in the related disciplines of Management, Electrical Engineering, Electronics Engineering, Environmental Science and Engineering, Computer Science and Engineering, Chemical Engineering, Civil Engineering, Applied Science, Humanities and Social Science. The School has linked with reputed Universities and Institutes across the globe and has an alumni base all over the world. The School today is making a foray into the newer areas of academic endeavors in tune with the changing times.

## **ABOUT THE PROGRAMME**

The program has been designed to keep in view the diverse aspects of electrical safety issues of the minors and preventive maintenance of machinery under operations in underground and open-cast mines. Besides the huge production, safety is the first and foremost choice for the miners as well as the preventive maintenance of machineries is the vaccine for Production. Also, the realization of vast potential of its applications in various

dimensions of its functioning has been considered. So, the topic is quite relevant nowadays for sustainable mines to increase productivity efficiently and effectively with safety.

## **PROGRAMME PROFILE**

The program is encapsulated in five days and the presentation and reading materials shall be made available by resource persons. The following modules will be offered in the program:

- Execute preventive maintenance schedule in Mines.
- Carry out preliminary & visual checks. Observe any unusual noise, vibration, leak, spillage, accumulation, identification of right machine spares and lubricants.
- How to use compressors and mining machinery with or without a load.
- Preventive maintenance for mining type switchgears, protective devices etc.
- Some case studies on lightning and its possible protection.
- Case studies on accidents in mines and its mitigation.
- Electric shock hazards and its prevention, Neutral grounding and equipment earthing practices for safe operation of mining equipments.
- Provision of standards and the National Electric Code regarding the general earthing.
- Importance of electrical safety audit, safety management plan in achieving zero accident.
- Positive isolation and implementation of LOTOTO.
- Emergency lighting and communication systems for mines.
- A visit to related mine-industry / mine-research lab.

## **ABOUT THE DEPARTMENT**

*The Department of Electrical Engineering* was formed in February 2005. The B.Tech. course in Electrical Engineering has been started in the academic session 2006-2007. As a part of the Department of Mining Machinery Engineering, the Electrical Engineering Section was fully functional with teaching and R&D activities from 1975. Along with the B.Tech. in Electrical Engineering, the Department runs M.Tech. in Power Systems Engineering, M.Tech. in Power Electronics and Electrical Drives. The Department also runs Ph.D. programmes. The Department has a history of strong R&D based research activity, and it has produced several Ph.D. students. It has also published many research papers in foreign and Indian Journals and Conferences.

## **DURATION**

Five days, from **20<sup>th</sup> – 24<sup>th</sup> January 2025**, 6.0 hours every day.

## **VENUE**

Executive Development Centre (EDC), Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand–826004.

## **COURSE FEES**

- **Non-residential** (No accommodation): **Rs. 50,000/- per participant** (includes charges towards registration kit, course material, certificate, 5-days working lunch, tea and GST).
- However, limited accommodation on twin-sharing basis at EDC, IIT (ISM) Dhanbad as per availability may be provided on a first-come-first serve and additional payment basis.

## REGISTRATION

The registration form duly filled along with the course fees may be sent to the coordinator on or before **10<sup>th</sup> January 2025** by **SPEED POST / Official e-mail**. The program brochure / registration form may also be available on the institute website ([www.iitism.ac.in](http://www.iitism.ac.in)). The number of participations is limited on a first-come-first serve basis. Being an educational institute, IIT (ISM) is exempted of Income Tax.

The course fees may be paid through any one of the following:

- 1) **Demand Draft (DD)**: DD in favor of “IIT (ISM) SPECIAL FUND” payable at Dhanbad.
- 2) **Electronic Transfer**: Electronic transfer may be done to the following bank details:
  - i) Name of Bank: Canara Bank
  - ii) Branch Name: Saraidhela, Dhanbad
  - iii) Account No: 0986101024892
  - iv) Account Holder Name: IIT (ISM) SPECIAL FUND
  - v) IFSC Code: CNRB0000986
  - vi) MICR Code: 826015003

Advanced copies of the duly filled registration form and course fees payment details are to be sent to the **Email ID**: [nitai@iitism.ac.in](mailto:nitai@iitism.ac.in) & [pradip@iitism.ac.in](mailto:pradip@iitism.ac.in). The course fee is refundable if the program is cancelled due to unavoidable circumstances.

## REGISTRATION FORM

EDP PROGRAMME  
ON

“Preventive Maintenance and Electrical Safety  
in Mines”

20<sup>th</sup>–24<sup>th</sup> January 2025

Organized by

DEPT. OF ELECTRICAL ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY  
(INDIAN SCHOOL OF MINES)  
DHANBAD – 826004, JHARKHAND

1. Name: \_\_\_\_\_  
(Capital Letters with Surname)
2. Designation: \_\_\_\_\_
3. Organization/Institution: \_\_\_\_\_  
\_\_\_\_\_
4. Office Address: \_\_\_\_\_  
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5. Phone (Office) : \_\_\_\_\_  
(Residence): \_\_\_\_\_
6. Mobile No.: \_\_\_\_\_
7. Email ID: \_\_\_\_\_
8. Gender (M/F): \_\_\_\_\_
9. Payment Details: Payment enclosed  
(DD No. \_\_\_\_\_ Date \_\_\_\_\_, Drawn  
from \_\_\_\_\_ Amount \_\_\_\_\_).

Date: \_\_\_\_\_ *Signature*

EDP Programme

On

“*Preventive Maintenance and Electrical  
Safety in Mines*”

Duration: 20<sup>th</sup>–24<sup>th</sup> January 2025

Venue: EDC, IIT(ISM) Dhanbad



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DEPT. OF ELECTRICAL ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY  
(INDIAN SCHOOL OF MINES)  
DHANBAD – 826004, JHARKHAND

## PROGRAMME COORDINATORS

Prof. Nitai Pal, Professor & CI  
and

Prof. Pradip Kumar Sadhu, Professor (HAG) & Co-CI

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