

# Short Term Course on Ventilation Planning & Design for Underground Mines

19 – 23<sup>rd</sup> May, 2025



## Organized By

Department of Mining Engineering  
National Institute of Technology, Rourkela  
Rourkela-769008, Odisha

## Coordinator

Dr. Mahesh Kumar Shriwas

## Co-coordinators

Dr. Devidas Sahebraoji Nimaje  
Dr. Bukke Kiran Naik

## About the Course

Short-term course on “Ventilation Planning & Design for Underground Mines” is designed to provide an in-depth understanding of the concepts of mine ventilation and hand on experience of Ventsim software for the practical improvement of the ventilation system to ensure better productivity, health and safety of the miners.

## Course Content

- Fundamentals of mine ventilation
- Ventilation survey
- Ventilation network analysis
- Mine fans
- Psychrometry: study of moist air
- Heat and humidity problems in deep and mass-production panels/stopes
- Physiological reaction to climatic conditions
- Mine cooling & refrigeration system
- Planning & design of ventilation system using Ventsim
- Smart ventilation monitoring
- Statutory norms and legislation relevant to mine ventilation

## Target Audience

UG/PG/MS students/ research scholars, staff/ faculty members, and professionals from the mining industry.

*A certificate will be awarded to all the participants upon successful completion of the course*

## Key Speakers

Academicians from premier institutions like IITs & NITs. Professionals from Mining Industry, CMPDI, DGMS, and CIMFR having expertise and experience in relevant domain knowledge.

## Course Fee & Nominations

The registration fee (non-refundable) for attending the course is Rs. 25,000 per person for Faculties/ industry professionals and Rs. 5000 per person for students/ research scholars

*\*Course fee mentioned above is excluding 18% GST*

For nominations please send the names of your nominees with their details along with sponsorship certificate to the course coordinator preferably before 20.04.2025.

## Sponsorship

Sponsorship opportunities for industries are available under three categories.

- Platinum Sponsor: Sponsorship fee is Rs.2.00 Lakhs (4 free participants)
- Gold Sponsor: Sponsorship fee is Rs.1.00 Lakh (2 free participants)
- Silver Sponsor: Sponsorship fee is Rs.0.50 Lakh (1 free participant)

*\*Sponsorship fee mentioned above is excluding 18% GST*

## Bank Account Details

The registration fees can be paid using following Bank details:

Account Number	10138951784
Account Name	Continuing Education NIT Rourkela
IFSC code	SBIN0002109
Bank & Branch name	SBI & NIT Campus, Rourkela

## Accommodation

Limited accommodation on sharing basis is available at NIT Rourkela guest house and shall be booked on prior request on payment basis. Furthermore, students participants can stay at NIT Rourkela hostels on payment basis.

## About NIT Rourkela

NIT Rourkela is one of the premier national level institutions of repute for technical education in the country and is funded by the Government of India. Government of India has elevated the Regional Engineering College, Rourkela to a deemed university under the name of National Institute of Technology, Rourkela. Please visit <https://www.nitrkl.ac.in/> to explore more about NIT Rourkela.

## About Mining Department

Established in the year of 1979, the Department of Mining Engineering has grown over the years as one of the pioneer mining education centers in the country. The department offers UG, PG and doctoral courses in mining engineering. The department is actively involved in research activities in the areas of mine ventilation, spontaneous heating, rock mechanics and ground control, underground and surface environment, coalbed methane, mine safety, remote sensing and GIS, mine closure planning and relevant computer applications. Please visit <https://nitrkl.ac.in/MN> to explore more.

## Organizing Committee

### PATRON

**Prof. K. Umamaheshwar Rao**

**Director**

National Institute of Technology, Rourkela

### CHAIRPERSON

**Prof. Amit Kumar Gorai**

**Head**

Department of Mining Engineering

### COORDINATOR

**Dr. Mahesh Kumar Shriwas**

Assistant Professor

Department of Mining Engineering

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### CO-COORDINATORS

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**Dr. Bukke Kiran Naik**

### STUDENT COORDINATOR

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**Department of Mining Engineering,  
NIT Rourkela**