

**FIVE DAYS OUTREACH PROGRAMME OF IIT KHARAGPUR**

*on*

**SUSTAINABLE DEVELOPMENT OF MINING INDUSTRY**

**November 21-25, 2022**

*by*

**DEPARTMENT OF MINING ENGINEERING, IIT KHARAGPUR**



**Coordinator**

**Prof. Basanta Kumar Prusty**



**Department of Mining Engineering**

**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR  
Kharagpur – 721302**

## **INTRODUCTION**

Mining and allied industries (power, oil and gas) are pillars of economic growth for any economy and more so for the aspiring 5 T economy of India. Keeping pace with the growth in the mineral and energy sector, however, there will be significant environmental footprint that needs to be managed scientifically. “Sustainable development” of the mining industry is the key word now with focus on growth of the mining industry while taking due care of environmental protection, resource conservation, health and safety of people, protection of biodiversity and abatement climate change issues etc. India has set an ambitious target of achieving net zero emission by 2070. In this direction, the mining industry, in the short term has to reduce its carbon emission by 40% within 2030. Sustainable development of mining industry will require a holistic approach from exploration to exploitation, ecofriendly management of the waste material and adoption of new economic models such as circular economy. The course on “SUSTAINABLE DEVELOPMENT OF MINING INDUSTRY” will discuss all these issues by lively lectures and presentations by professors, subject experts, and policy makers.

## **COURSE CONTENT**

The course will include the following broad areas:

- Sustainability issues of mining, and mineral resources industry
- Net Zero and decarbonisation in Mining industries
- Environmental, social and economic sustainability framework
- Health and Safety management in mining and energy resources industries
- Remote-sensing application in mineral and energy resources industries
- Circular economy for mining industry.

## **COURSE STRUCTURE**

The programme will consist of lectures primarily by the faculty members of Indian Institute of Technology Kharagpur. Some lectures will be delivered by the experts from industry and governmental agencies. Each session will be followed by interactive Q &A session. The course will be conducted during November 21-25, 2022 in the Seminar Hall of the Department of Mining Engineering, IIT Kharagpur. Soft copy of the course materials and Certificate of Participation will be provided to the registered participants. The effectiveness of this course will be evaluated through examinations (short question/MCQ type).

## **PARTICIPATION**

The course will be useful for the middle and higher level executives looking after production, raw material supply, environment, health and safety management in mining, mineral, oil and gas industry, power plants and other allied industries. Executives from atomic and rare earth mineral industries, and environment, health and safety consultants, R&D organizations will also be benefitted from this course. Students from Mining Engineering, Petroleum Engineering, Geology and other streams are encouraged to attend this course.

## **HOW TO SEND NOMINATIONS**

Please email the nomination letter with the names of your nominated participants, designations, valid email address and mobile numbers to the Course Coordinator as early as possible (preferably before 16.11.2022).

## **ACCOMODATION**

Accommodation for the participants is normally booked at the *Technology Guest House of IIT, Kharagpur on prior request on payment basis*. Alternatively, there are local hotels available in the town. However, the accommodation in the campus is considered convenient

## **SPONSORSHIP**

Sponsorship opportunities for industries are available under the following categories.

- **Platinum Sponsor:** Sponsorship fees is Rs. 5.0 Lakhs (10 free participants)
- **Gold Sponsor:** Sponsorship fees is Rs. 3.0 Lakhs + GST (05 free participants)
- **Silver Sponsor:** Sponsorship fees is Rs.1.50 Lakhs + GST (02 free participants)

## **COURSE FEE**

The course fee of this programme is **Rs. 30,000.00 (Rupees Thirty thousand only)** per nominated participant from industries. ***Additional 18% GST will be levied as per GOI rules.*** The course fee is payable by electronic money transfer to “CEP STC IIT Kharagpur” to the account number 95562200002955 of Canara Bank at Branch SRIC IIT Kharagpur (IFSC Code CNRB0019556). ***The course fee does not include boarding and lodging charges.*** IIT Kharagpur is exempted from Income Tax and while sending the course fee no Tax should be deducted. The Tax Exemption Certificate will be provided.

Students and research scholars from recognized colleges, universities and academic institutions are also encouraged to register in this programme with payment of a nominal fee of Rs.1000.00 only.

**PLEASE LET US KNOW THE COMPLETE TRANSACTION DETAILS WITH DATE AFTER THE PAYMENT**

## ADDRESS FOR COMMUNICATION

For any other information or sending nomination, please email to:

**Prof. B.K Prusty**  
**Course Coordinator**  
**Department of Mining Engineering**  
**IIT Kharagpur-721302**  
**Phone: +91-3222-283700**  
**Mobile: +91-9474065042**  
**Email: [bkprusty@mining.iitkgp.ac.in](mailto:bkprusty@mining.iitkgp.ac.in); [bkprusty@gmail.com](mailto:bkprusty@gmail.com)**

**Alternatively, please contact Mr. Sourav Kr. Mandal**  
**(Email: [souravm.iitkgp@gmail.com](mailto:souravm.iitkgp@gmail.com); Mobile: +91-8436718289)**

## INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

With a modest start in the Hijli Detention Camp, a symbol of the national struggle for freedom, Indian Institute of Technology Kharagpur has grown during the last 60 years to become a Centre of Excellence in teaching and research in diverse fields of engineering and technology, and has dedicated itself to fulfill the science and technology ambitions of the resurgent India. Indian Institute of Technology Kharagpur (IITKGP) is set in a sylvan surrounding about 120 km from the City of Kolkata.

## DEPARTMENT OF MINING ENGINEERING

Set up in the year of 1956, the Department of Mining Engineering has grown over the years as one of the pioneer mining education centers in the country. It has played a pivotal role in introducing the modern mining engineering curriculum in India. The department offers undergraduate, postgraduate, and doctoral courses in mining engineering. This department has produced more number of doctoral degrees in mining engineering than any other institute in India. The department is actively involved in research activities in the areas of rock mechanics and ground control, mining machinery, underground and surface environment, coalbed methane, mine safety and reliability, mine fire and explosions, model studies in ventilation, numerical analysis of mine structures, geomatics and remote sensing, mine closure planning and relevant computer applications.