

Five Days Online Course/Web-Training

on

**SUSTAINABLE DEVELOPMENT OF MINING, MINERAL AND
ENERGY RESOURCES INDUSTRY**

30.11.2020 to 04.12.2020

by

DEPARTMENT OF MINING ENGINEERING, IIT KHARAGPUR



Coordinators

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&

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Department of Mining Engineering

**INDIAN INSTITUTE OF TECHNOLOGY
Kharagpur – 721302**

INTRODUCTION

India is aiming to become a 5 trillion economy by 2024-25. Mining and energy resources industry including power and oil and gas industry are pillars of economic growth for any economy and more so for the aspiring 5 T economy of India. In order to achieve the 5 T goal, the mining sector has to grow by 3%. Similarly, there will be a huge expansion in the oil and gas and other energy sector. Keeping pace with the growth in the mineral and energy sector, however, there will be huge environmental footprint that has to be managed scientifically. Sustainable development of the mining, mineral and energy resources industry requires a holistic approach from exploration of resources to their exploitation as well as ecofriendly management of the waste material. Frameworks for sustainable development of mineral sectors are to be designed keeping economy, health and safety, ecology and global laws in perspective. The web-training on “SUSTAINABLE DEVELOPMENT OF MINING, MINERAL AND ENERGY RESOURCES INDUSTRY” will discuss all these issues by lively lectures and presentations by professors, subject experts, and policy makers.

COURSE CONTENT

The course will include:

- Sustainability issues of coal mining, metalliferous mining, atomic and rare earth minerals.
- Sustainability issues of oil and gas industries
- Environmental, social and economic sustainability framework
- Technology and decision support tools for sustainable development vis a vis industry 4.0
- Health and Safety management in mining and energy resources industries
- Remote-sensing application in mineral and energy resources industries

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 online course will be conducted during November 30- December 4, 2020 preferably through Google Meet. Soft copy of the course materials and Certificate of Participation will be emailed to the registered participants. The effectiveness of this online course will be evaluated through online examinations (short question/MCQ type).

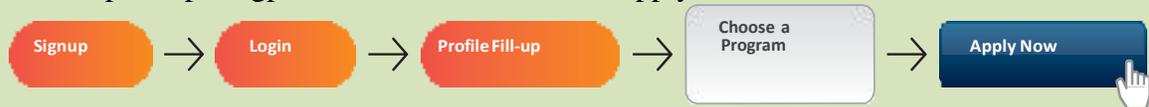
PARTICIPATION

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.

The link for attending the webinar and password will be sent to registered participants by email

HOW TO APPLY

Use the link: <https://erp.iitkgp.ac.in/CEP/courses.htm> to apply ONLINE



(The detailed procedure for applying through IIT Kharagpur online course registration portal is enclosed along with this brochure)

Alternatively, please email the names of your nominees with their designations, valid email addresses and mobile numbers to the Course Coordinator as early as possible.

SPONSORSHIP AND COURSE FEES

Sponsorship opportunities for industries are available under the following categories.

- **Gold Sponsor:** Sponsorship fees is Rs. 1.50 Lakh + GST (12 free participants)
- **Silver Sponsor:** Sponsorship fees is Rs.1.00 Lakh + GST (07 free participants)

For individual (non-bulk) registration, course fees of Rs.15, 000.00 (Rupees Fifteen Thousand only) + GST (18%) will be charged.

For students and research scholars, the course is free. However, those who want the certificate will have to pay a nominal fee of Rs.500.00 only.

The course fee is payable by electronic money transfer to “CEP STC IIT Kharagpur” to the account number 95562200002955 of Syndicate Bank at Branch SRIC IIT Kharagpur (IFSC Code SYNB0009556).

ADDRESS FOR COMMUNICATION

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

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DEPARTMENT OF MINING ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

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.

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.

Continuing Education Programme (CEP)

Indian Institute of Technology Kharagpur

Procedure for applying through IIT Kharagpur online course registration portal

Use the link: <https://erp.iitkgp.ac.in/CEP/courses.htm>

Steps to be followed:

1. Sign-Up
2. Verify your email-id (link will be sent to your e-mail)
3. Login
4. Edit Profile(Fill up all the mandatory fields, upload photo and signature)
5. Click on 'APPLY NOW' button.
6. Upload your **.pdf** format id-card (if necessary).
7. Payment Gateway activated

*******An e-mail will be communicated from Principal Coordinator/Convenor/Organiser, IIT Kharagpur to the shortlisted applicants stating the payment procedure.

******* This is a one time sign up process for applying through IIT Kharagpur online course registration portal. You can apply for any other programme using the same Login-id and Password.



For any help please call @ the following help-line numbers:(0)-3222-269626

or Email us: cep_erp@iitkgp.ac.in