

Short Term Course on
“Technology solution for Sustainable and Economic Coal Mining in India”
(From 15.11.2017 to 18.11.2017 at the Department of Mining Engineering, IIT Kharagpur)

In Indian coal mining scenario, it is a need of hour for human resource development and appropriate technology adoption and management skills within the coal producing companies for sustainable future coal mining in the country. Indian coal industry needs to enhance the capability of coal production from underground coal mines which is currently contributing only **8%** of the total coal production of around **660Mte**. For this leap from the current level, the underground mining that produces around **50Mte** now requires to enhance to the level of 100Mte. Also surface (o/c) mining is to contribute the bulk output (around 90%) of coal in country with technology up-gradation & ecofriendly mining practices. To achieve this within a period of around 4 years, it will require proper planning, appropriate technology adoption and mindset towards the goal. The **existing practicing engineers and new incumbents have to be groomed accordingly for technology adoption and its economic sustainability**. IIT Kharagpur with its Department of Mining Engineering is dedicated to serve the nation and ready to play its role in the present scenario. Keeping these in mind a **short term course** under **Continuing Education** Programme **has been designed for the practicing engineers, planners, equipment manufacturers of the Coal Mining** Industry. This course will address the following issues:

- Coal Mining Technological **advances in the globe** & its **applicability in Indian conditions**.
- Analysis of **current mining practices** and **scope of technology adoption** for both **surface and underground operations**.
- Assessment of capacity utilization and **mode of capacity enhancement via-à-via mine economics**.
- **Techno-economic** solution for **future UG & O/C coal mining with safety**.
- Supply chain management in domestic coal production and distribution.
- **Appraisal of economic performance of underground coal mines in India** and associated constraints, scopes of amalgamation of smaller units for integrated economic operation.
- Legislative supports and **management of mine safety** in the **changing coal mining** scenario.
- Environmental challenges and their mitigation means for effective mine closure and **post mining liability** management.
- Facility planning and implementation for surface & underground coal mines and **adoption of technology**.
- **Techno-Economic Mining Solution** for sustainable coal mining and future eco-friendly coal mining.

Course Outcome

After attending/participating this course the **participants** will be able to -

- **Select appropriate mining technology** for planning and operation **towards achieving the targeted coal production economically**.
- Explain the **mining practices** needed for **current Indian coal mining scenario** for **sustainable development**.
- **Identify suitable sites for high capacity mine planning** and **required operations to meet the organizational objective**.
- Develop analytical thinking for **Technology up-gradation of mining activities**.
- Contribute towards **improvement in production and productivity** including **optimization of manpower in mines**.
- Manage effectively to the **equipment selection**, operation and maintenance.

- **Develop skill for time bound projects implementation and production commissioning with steady output.**

Participation

The course will be useful for the executives and engineers working in the middle and higher level management in the coal mining industry including equipment manufacturer, scientific organizations too, the stake holders in the “coal industry”.

How to Send Nomination

please send the names of the nominees with their designations and addresses to the course coordinator before 02.11.2017.

Accommodation

Accommodation for the participants is normally booked at the Technology Guest House of IIT Kharagpur on prior request. Alternatively, there are local hotels available in the town. However, the accommodation in the campus is considered to be convenient. Early booking is necessary as there are limitations in the guest house facility.

Course Fee

*The course fee of this non-residential course is Rs. 25,000.00 per participant payable by demand draft in favor of “CEP-STC, IIT, KHARAGPUR” payable at Kharagpur or by electronic money transfer to “CEP-STC IIT Kharagpur” to the Account Number-9556220002955 of Syndicate Bank at Branch SRIC-IIT Kharagpur (IFSC Code:SYNB0009556). The course fee will not be refunded unless the nomination is withdrawn 3 weeks prior to course-commencement. **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. However GST (18%) is to be paid as applicable now as per Govt. directives over the above course fees***

Companies sending more than 4 participants will avail the following reduced fee:

- 1. For 5 participants: Rs. 1,00,000.00 (excluding boarding and lodging)*
- 2. More than five participants : Rs. 20,000.00 for every additional participant (excluding boarding and lodging)*
- 3. The above course fee does not include the GST that will have to be paid additionally by the sponsors as per GOI rule.*

Address for Communication

For any other information or sending nomination please write to:

Prof. M. P. Dikshit

Course Coordinator

Department of Mining Engineering

IIT Kharagpur – 721302

Phone: 03222283712/83722 Mobile: 09433002310, 09732952854

Fax: 03222282700/282282

E-mail:dikshit1955@gmail.com/souravm.iitkgp@gmail.com, hod_mining@iitkgp.ac.in