

Short Term Course on
“Technology Solution and Equipment Selection for Sustainable
Mining in Indian Coal Industry”

(15.04.2019 to 19.04.2019)

Department of Mining Engineering, IIT Kharagpur

It is highly essential for human resource development and appropriate technology adoption towards suitable mining solution in the country.

In Indian coal mining industry, it is a need of the hour to develop management skills within the mining companies for sustainable mining in the days to come. Indian coal industry needs to enhance the capability of coal production from underground coal mines which is currently contributing only around **6%** of total coal production in the country. For this leap from the current level, the underground mining that produces around **50Mte** now requires to enhance to the level of around 100Mte. The surface (opencast) mining is also to contribute the bulk output (around 90%) of coal in the country with eco-friendly mining practices & technology up-gradation. To achieve this it will require proper planning, appropriate technology adoption, suitable mechanization and mindset towards the goal. **The existing practicing engineers and new incumbents have to be groomed accordingly for suitable technology adoption and for sustainable mining solution.** 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 Industry.** This course will address the following issues:

- **Technological advances in the globe & its applicability in Indian coal Industry.**
- **Current mining practices and scope of technology adoption for both Surface and underground operations with proper equipment selection.**
- **Capacity utilization assessment and mode of capacity enhancement via-à-via mine economics.**
- **Solution for future U/G & O/C coal mining Techno-Economically with safety.**
- **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.**
- **Mitigation on Environmental challenges, means for effective mine closure and post mining liability management.**
- **Planning, implementation for surface & underground coal mines with appropriate Technology Adoption.**

Course Object

Mining Solution for sustainable coal mining and future Eco- friendly, Techno-Economic coal mining in India with suitable equipment selection.

Course Outcome

The participants after attending the course will be able to –

1. Accept the **mining practices needed for current Indian coal mining scenario for sustainable development.**
2. **Select appropriate mining technology for planning and operation towards achieving the targeted coal production economically.**
3. Accept **suitable sites for high capacity mine planning and required operations to meet the organizational objective.**
4. Develop analytical thinking for **Technology up-gradation of mining activities.**
5. Positively contribute towards **improvement in production and productivity** including **optimization of manpower in mines.**

- Manage effectively the suitable **equipment selection towards mechanization its operation and** maintenance.
- Develop skill for time bound projects implementation and production commissioning with appropriate technology adoption for Techno-Economic mining solution.

Participation

This 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 and stake holders too in the Industry.

How to Send Nomination

Please send the names of the nominees with their designations and addresses to the course coordinator by 08.04.2019

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. Prior intimation to the coordinator, course Asst. will solve the accommodation purpose of participants for the course. Early nomination will help to facilitate booking guest house at IIT Kharagpur being the best option with nominal charges. For both fooding & lodging.

Course Fee

*The course fee of this non-residential course is **Rs. 30,000.00** 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-95562200002955** of Syndicate Bank at Branch SRIC-IIT Kharagpur (IFSC Code:SYNB0009556). The course fee will not be refunded unless the nomination is withdrawn 3 (Three) 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 5 participants will avail the following reduced fee if payment released with 6 weeks of the course i.e. by 30th June '19 fund transferred to IIT Kharagpur.*

1. For 5 participants: Rs. 1,40,000.00 (excluding boarding and lodging)if fund transferred by June 30, 2019
2. More than five participants : Rs. 28,000.00 for every additional participant (excluding boarding and lodging) if course fee transferred to IIT by 30th June '19
3. The above course fee does not include the GST that will have to be paid additionally by the sponsors as per GOI rule.(18% now)
4. The concessional/reduced course fee is applicable only when the course fee is transferred to above IIT A/C within the above stipulated time i.e. by June 30, 2019

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, 08436718289,

Fax: 03222282700/282282

E-mail:dikshit1955@gmail.com/manabica88@gmail.com/souravm.iitkgp@gmail.com