

**DEPARTMENT OF MINING ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR-721302
WEST BENGAL**

Course No:

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**One Week Online Short Term Course on
LATEST OPENCAST AND UNDERGROUND MINING TECHNOLOGY,
MINES SAFETY AND LEGISLATION
(FROM 16.05.2022 - 20.05.2022)**

Objective

Mining is a hazardous occupation. The hazards include roof failure, support failure, slope failure, subsidence, air blast, methane and coal dust explosion, mines fire, inundation, equipment failure, blasting oriented hazards etc. The mining operations have direct implications on the safety, health and well being of the mining personnel and indirectly on the production and productivity of the mines. Recently mechanization and automation advancement is showing a rising trend right from the mining to the processing areas but at the same time we can not ignore unscientific mining practices in many underground and opencast mines in India and also the present density of accidents. To provide a safe, disaster less and healthy working environment, maintenance of a higher safety standards in the mines are very urgently necessary in India and it must match the level acceptable internationally.

Beside these a huge number of Modern thoughts and innovation in the surface and underground mining technology, needs dissipation and deliberation of knowledge to the students, Engineers, mining personnel and others for their awareness and implementation in their respective mines for achieving higher production and productivity and also to achieve "Zero Accident Potentiality". Under such a background the Department of Mining Engineering of Indian Institute of Technology, Kharagpur designed this one week short term course on **LATEST OPENCAST AND UNDERGROUND MINING TECHNOLOGY, MINES SAFETY AND LEGISLATION**, which tailored to cover up various emerging thrust areas of mining technology, accident prevention, safety and related areas as mentioned in the course structure.

This online course shall definitely benefit heavily the total mining community as a whole (For both metal and coal and underground and opencast mines). Because of COVID-19 this course we are conducting this time online so that the participants of the course need not to bother for transportation by air and rail.

The Course Structure

Status of safety in mining and future scenario, new scientific and modern mining technology both for opencast (Highwall mining, in pit crusher and cable belt conveying system, very high capacity shovel, dumper, dragline operation etc.) and underground mining (Wongawili system, Top coal caving, steep seam mining, thin seam mining etc.) system including various problems, accidents, hazards and their mitigation, safety, safety management system, risk management, adequacy in mining legislations and suggestions, amended legislation, safety in underground and opencast mining equipment, modern blasting

techniques, safety in working environment, accidents, disasters etc.

Methodology and Faculty

The program will consist of lectures, practical and group discussion. Faculty will include faculty of IIT, Kharagpur, DGMS and other organizations (If available).

Course Coordinator

Prof. (Dr.) Samir Kumar Das

Ph.D., M.Tech. (Mining), B.Tech. (Mining)

PGDHRM, F.C.C. (Coal), FIE, MMGI, MMEA

Professor & Former Head, Dept. of Mining Engineering, IIT Kharagpur -721302, West Bengal, India

Former Director, NIT Jalandhar, Panjab

Former Director (Actg.), NITTTR Chandigarh, Punjab

Former Professor and Head, Dept. of Mining Engg., The Papua New Guinea University of Technology

Former Executive Coal India Ltd.

Eligibility

Executives of all mining and allied industries, DGMS, faculty members of universities, institutions, officers of the Government organization, candidates appearing for First and Second class Mines Managership examinations, etc.

Course Fee and Registration

Mining and allied industries, educational institutions, CMPDIL, mining equipment manufacturing companies, DGMS, other Government establishments, etc are requested to send the name of candidates including their designation, email address, mobile no., etc. along with the Course fees of **Rs 23600/- per head including GST through e-payment in A/C Name: CEP-STC, A/C No.: 95562200002955, Name of the Bank: Canara Bank, SRIC, IIT Kharagpur, IFS Code: CNRB0019556, SWIFT: CNRB-IN-BB-BFD** or you may also pay the course fee by demand draft in favour of **“CEP-STC, IIT Kharagpur”** payable at SBI, Kharagpur, Code 0202. **Please don't deduct any TDS. For this if you want I can send you a copy of TDS exemption letter.** The last date of receipt of nomination cum course fees is 15.05.2022. **Note: If an organization arranges to send more than fifteen course participants then their course fees will be reduced to 20060/- only per head including GST. Cheque will not be accepted and after online transaction of the course fees kindly arrange to intimate the same with details to the course coordinator.**

All individual candidates have to register and login into the CE application portal at <https://erp.iitkgp.ac.in/CEP/courses.htm>

For more details please read the Modalities for ONLINE Programs given as attachment. Course commences at 10:00 A.M on 16.05.2022.

Please rush your nomination to Prof. (Dr.) Samir Kumar Das.

(Samir Kumar Das)
Course Coordinator