



# Engineering Staff College of India

Mining Division

*3-Day Professional Development Programme*

*Classroom / Online*

**Optimal Utilization of Organizational Resources in Opencast Mining Projects**

**21 - 23 May 2025**



**Mining Division**

**Engineering Staff College of India**

An Autonomous Organ of The Institution of Engineers (India)  
Hyderabad

***Centre for Promotion of Professional Excellence***

*“The action of making the best or most effective use of a situation or resource is optimization”*

## Introduction

Non-renewable minerals are still the main energy resource for India. However, mining of minerals, mainly through opencast technology, for fulfilling energy demands and to boost the national economy, have to be on a sustainable basis. Therefore, sustainable development of mining industry considering effective utilization and conservation of organizational resources, minimizing environmental impact and above all economic viability through modernization, digitization technological innovations are vital for future prospects. It also requires people and the volition commitment of these people. The economic viability of mine is dependent on careful planning and management to avoid any hazardous events which results not only in destruction, economic losses and environmental damage but also affects safety and productivity resulting in unaffordable losses in terms of men & machinery, mineral assets and thus financial losses.

## Objectives

Ensuring effective results for the existing organizational resources is one of the principal requisites of any mining operation. Techniques can be successfully applied to resolve a number of challenges that arise in planning, operations and management like best choice of HEMM, productive maintenance, logistics, efficient transportation and handling plants, conservation of energy & petroleum, oil, lubricants, TPM, Tyre care, waste to resources, reuse-recycle

## Course Coverage

- Training & Development
- Optimization of Mine Operations-Blasting
- Best Equipment Maintenance -TPM (Total Productive Maintenance), Predictive Maintenance - Condition Monitoring
- OITDS (Operator Independent Truck Dispatch System) for productive utilization of operators, trucks/dumpers, dump sites
- Standard Operating Procedures
- Design of Haul Roads, Slope Stability
- Tyre Management,
- Conservation of POL (Petroleum, Oil & Lubricants) & Energy
- Electrical Safety & Safety Audit
- Energy Audit
- Mine Wastes to Resources
- TQM, ISO 50001:2018

## Benefits to Participants

Learning the concepts of the course coverage and case studies.

## Methodology

- Lectures / presentations
- Interactive sessions

## Target Participants

This programme would be useful to mining, electrical & mechanical, industrial engineers, executives, managers in the field of mining engineering & allied services.

## Programme Dates & Timings

**21-23 May 2025**

## Resource Persons

The faculty consists of experts from the industry, research establishments and academia besides in-house faculty of ESCI.

## Course Fee

- **Residential** : **INR 24,000/-\* (Rupees Twenty Four thousand only)** per participant which includes course kit, course material, twin-sharing/single AC accommodation, breakfast, lunch, dinner, tea and snacks during the actual days of training programme.
- **Non-Residential** : **INR 21,000/-\* (Rupees Twenty One thousand only)** per participant which includes course kit, course material, lunch, tea and snacks during the actual days of training

programme.

\* Goods and Service Tax @ 18% is to be paid extra over and above the programme fee. **PAN Card No AAATT3439Q; GST No. 36AAATT3439Q1ZV. H.S. No. 999293** (Under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

- *Special concession of 10% in course fees to organization for 5 or more nominations and attendance.*
- ESCI provides complimentary boarding & lodging for the participants a day prior to the commencement of training programme and a day after the conclusion of the programme (check in & check out at 12:00 noon respectively).
- **Overstay charges will be charged as per ESCI norms.**
- **Spouses may be allowed to stay along with the delegates with prior intimation and on additional payment of nominal charges of INR 1000 per day including boarding & lodging.**

Programme fee is to be paid in favour of **“THE IE(I) – ENGINEERING STAFF COLLEGE OF INDIA”** in the form of Cheque / Demand Draft (DD) payable at Hyderabad. Alternatively, the payment may be made by Electronic Fund Transfer (EFT) to ESCI - **SB A/c No. 33705165550 with State Bank of India, Manikonda Branch, Door No.2-30/1, Indira Nagar, Gachibowli, Hyderabad – 500032, our NEFT/RTGS/IFSC Code No. SBIN0011076 – MICR No. 500002107.**

*While using EFT method of payment, please ensure to communicate your company name, our Invoice reference and programme title.*

### Registration

To register, please send your nominations by providing name, designation, contact address, email address, mobile no, telephoner of the participant along with the details of mode of payment of fee, addressed to: [mining@escihyd.org](mailto:mining@escihyd.org). After registration participants can have access to ESCI LMS platform for digital learning.

### Certification

A **Certificate of Participation** will be awarded to each participant on conclusion of the programme.

### Profile of Expert Speakers



**Dr. Karra Ram Chandar** graduated in Mining Engineering from Kothagudem School of Mines, M.Tech (Rock Mechanics) from IIT- BHU, Ph.D in Rock Blasting from NITK – Surathkal and Post-Doctoral Fellowship from University of Illinois at Chicago- USA. He also holds MBA degree in HR.

He has been working with NITK Since 2002. He was involved in 8 R&D projects and 220 Industry sponsored consultancy projects / scientific studies related to rock blasting and slope stability in mines, quarries and infra projects. He has travelled widely, visited many universities/ countries like USA, Australia, Japan, UAE, Hongkong, Singapore, Malaysia, Vietnam, Sri Lanka.



**Dr. N Darga Kumar** currently serving as Associate Professor and Head Department of Civil Engineering, JNTUH College of Engineering, Hyderabad. He obtained his doctoral degree in the field of Geotechnical Engineering from the Department of Ocean Engineering, IIT Madras. Dr. Darga Kumar took Foreign Teaching Assignment and served as Professor of Geotechnical Engineering and Professor of Civil Engineering at Adama Science and Technology University, Ethiopia. and Fiji National University, Fiji Islands.

.He presented research papers in conferences in countries like Switzerland, Italy, USA, Fiji, Ethiopia, Japan, Singapore, Malaysia, Hong Kong, France and New Zealand.



**Dr. Guntha Karthik**, Completed B.Tech and M.Tech from Jawaharlal Nehru Technological University, Hyderabad. Dr. Karthik completed his Ph.D. from NIT Rourkela Presently working as Associate Professor, Board of Studies Member (BoS), Co-Convener for Research & Innovation in Electronics and Communication Department, and Deputy Director for Institute Academic Planning and Informatics Cell at Stanley College of Engineering and Technology for Women (Autonomous)



**Mr Mahesh Kumar T.** graduated in Mining Engineering from Osmania University and did masters in Industrial Engineering from NITIE (Mumbai). Later he worked with Tata Steel, Sonata Software & Cap Gemini before founding Minematics Solutions. He has over 2.5 decades of experience in both operations and technology consulting. His expertise lies in using technology to optimize operations and increase efficiency. Currently, at Minematics, helping mining, construction and manufacturing companies to gain visibility of operations, identify bottlenecks and improve efficiency with technologies such as IoT, Analytics & Data Science.



**Mr P Kumar** graduated B.Tech (Mech) from NIT, Calicut, Kerala, M.Tech (I.C Engines and Gas Turbines) from NIT, Warangal, Telangana, M.B.A (Marketing) from IGNOU, FIE- The Institute of Engineers (India) and SMIIIIE - Sr. Member in Indian Institute of Industrial Engineering. He worked in The Singareni Collieries Company Limited in erection, commissioning, maintenance of various models and capacities of mining equipment, and as TPM coordinator. He worked as Executive Director in Radials International PL.





**Dr Yamuna Singh** is a Post Graduate and PhD in Geology. Currently he is a visiting faculty at the Centre for Earth, Ocean & Atmospheric Sciences, University of Hyderabad. He has 36 years of experience in Exploration Research, Resource Evaluation and Characterization of Atomic and "Rare Earth Elements Resources: Indian Context". He published 154 technical papers and authored a book on Rare Earth Minerals. He is a fellow of the Telangana Academy of Sciences. He is a regular resource person for ESCI.



**Dr Hari Sarvothaman** did M.Sc. in Presidency College, Madras and Ph.D. in Osmania University, Hyderabad. He started his geological professional career in ONGC in 1976. Currently he is a Visiting Professor in University of Hyderabad and a guest faculty at ESCI and Badruka Group of Colleges.



Dr. Shaik Altaf Hussain did his B.Tech in Chemical Engg from NIT Warangal, subsequently pursued, M.Tech in Environmental Management from JNTU, Hyderabad, and then did his Ph.D in Chemical Engineering from IIT Delhi & JNTUA, Anantapur. He is also enriched with Professional degrees like Diploma in Industrial Safety as well as Master of Human Resource Management, from Annamalai University. Then, joined Lords Institute of Engineering & Technology, Hyderabad and presently he is holding the post of Director. He has published more than 30 publications in National and International Journals. He has published six books. Some of his important books and publications include: (1). Sound Health Management, (2). Standard Operating Procedure for Learning (3). Chemical Engineering Yoga (4). Human Excellent Index (5). Academic Excellence in Engineering Education (6) Editor of Enpsyclopaedic Dictionary of Chemistry. His Hobbies are Teaching, Investigation, Social Service.



**Mr Bhaskarudu Peddakotla** is a Diploma in Automobile Engineering Industry.

He had 40 years' experience and worked as General Manager (Customer Support) in GMMCO Limited (Caterpillar Dealer), Vice President in Vijay Engineering Presently he is working as freelance consultant in "Condition monitoring and predictive maintenance" of mining and construction machines..



**Mr K N V Subrahmanyam** is a Mechanical Engineer and done his Executive MBA (Oil & Gas Management) from National Institute of Business Management.

Presently he is the Vice President-Operations & Technical for Vas Tribology Solutions Pvt Ltd-Jamshedpur.

Noria Corporation-USA Certified Professional International trainer in the field of Machinery Lubrication and Oil Analysis.

His core expertise is with Lubrication Program Development, Complete fluid condition monitoring, Reliability improvements through used oil analysis. 23 years of hands-on experience in Lubrication Management, Fluid Condition Monitoring and Lubrication Program Development experience and has worked with many reputed oil analysis and oil condition monitoring laboratories. He is Certified Machinery Lubrication Specialist from International Council for Machinery Lubrication (ICML), USA. MLE, MLA-III & MLT-II.



**Er K J Amarnath** a Gold Medalist, in BE (Mining Engineering) from College of Engineering, Osmania University, Hyderabad. He retired as Chief General Manager from The Singareni Collieries Company Ltd. (A Government Company) He was Director in NSGPVL, A Joint Venture Company of NTPC Ltd, and The Singareni Collieries Company Ltd,

He visited the United Kingdom, Spain, United States of America & Australia. He is also a holder of First Class Manager's Certificate of Competency.

Presently, he is working as Senior Faculty-Head, Mining Division, Engineering Staff College of India, Hyderabad.



**Er L Krishna** did his M. Tech in Mining Engineering and worked as an Assistant Professor at JBIET, Hyderabad and worked as Graduate Trainee for one year in SCCL.

He holds Second Class Manager's Certificate of Competency (Unrestricted) He published 4 papers in National Journals. He is an Associate Member of Institute of Engineers India (AMIE) and Life Member of MEAI (Mining Engineers' Association of India)

Presently he is working as a Faculty, Mining Division, Engineering Staff College of India, Hyderabad.

### Contact Persons

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