



# Engineering Staff College of India

## Mining Division



*3-Day Continuing Professional Development Programme*

*Residential*

## “Mine Planning and Design”

**28 – 30 May 2025**

### Introduction

The focus and attention of the mining sector is placed on large scale mining as demand for natural resources intensifies in a tough economic environment with many existing feasible deposits already exploited/extracted. Thus, Industry is looking to invest and develop projects that bring greater shareholders value. Many projects are complex and time consuming and success or failure is often determined by the degree of accuracy with which the Mining Plan, EIA-EMP, Project Report are prepared and aligned with the operation, strategy of the Mining Organizations which would facilitate the owner to create the right conditions for a successful project.

It is crucial to consider all potential environmental and social impacts of the mining project. This calls for a wider range of skills and an unprecedented depth of analysis that covers the full financial, operational, environmental, legal, regulatory and logistical aspects of the Project which requires a multidisciplinary network of specialist and smarter thinking. Timing and optimization is everything in mining projects. The project proponent is also expected to possess a sound knowledge of finance and debt structuring of commerce, logistics, local and national laws as well as political and regulatory environment.

### Objectives

A Mining Project Report should be comprehensive and tailored to the specific project and regulatory requirements, should be well-organized, with clear sections and supporting data.

Preparation of Mining Plans, EIA-EMP and Project Report assumes greater role far from the traditional approach. Conservation of minerals, a positive concept, leading to augmentation of the reserve- base through improvement in mining methods, beneficiation and utilization of the low grade ores and rejects in the recovery of associated minerals to promote national, economic and energy security. Mining Laws, Mining Plan and Project Report are based on sustainable mining practices for employment generation, human resources development and environmental protection and automation for safety of men and mineral conservation.

### Course Coverage

- The entire gamut of Mine Planning viz. Formulation of Mining Plan, Environmental Impact Assessment, Environmental Management Plan, Project Report.
- Key components of Mine Planning:
  - Geological Information,
  - Resource Evaluation,
  - Mine Design,
  - Extraction Methods,
  - Processing Plant Design,
  - Environmental Impact Assessment (EIA)
  - Social Impact Assessment (SIA),
  - Economic Feasibility Analysis,
  - Financial Projections,
  - Permission Requirements
  - Reclamation Plans
  - Project Management Plan

- Recycling, Reprocessing of Critical Minerals, Technological Innovation
- IT Enabled System, Application of Software in Mine Planning.
- Mineral Policy,
- ISO: 9001, 14001.

## Methodology

Lectures/Presentations /Interactions

## Resource Persons

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

## Target Participants

This programme would be useful to mining, geologist and environment engineers, executives, managers, researchers, faculty, government & regulatory authorities etc. in the field of mining & allied engineering

## Programme Dates & Timings

**28 – 30 May 2025**

**10.00 a.m. - 5.00 p.m.** each day.

## Course Fee

- **Residential: INR 24,000/-** (Rupees Twenty Four Thousand only) per participant which includes course material, course kit, twin-sharing 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) which includes course material, course kit, lunch, tea and snacks during the actual days of training programme.
- *10% discount in course fee would be offered to organizations if 5 or more delegates are nominated for the programme.*
- 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 will be charged as per ESCI norms.
- Spouses may be allowed to stay along with the delegates with prior intimation and on payment of nominal charges of INR 1000/day including food.

**GST @18%** is to be paid extra over and above the course fee. **PAN: AAATT3439Q**, **GST No: 36AAATT3439Q1ZV**, **HS No.: 999293** (under commercial training or coaching services – clause 65(105) (ZC) of Finance act – 1994).

Course fee is to be paid in favour of **“THE I.E.(I) – ENGINEERING STAFF COLLEGE OF INDIA”** in the form of demand draft 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, contact details, our invoice reference and programme title.*

## Registration

To register manually, please send your nominations by providing name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to: [mining@escihyd.org](mailto:mining@escihyd.org).

## Certification

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

### Profile of Expert Speakers



**Dr. H. Sarvothaman** functioned in different scientific capacities in Geological Survey of India in many places of India before retiring as Deputy Director-General. He conducted Geological Mapping and Mineral Exploration for tungsten, graphite and limestone, besides other research activities of GSI.

He authored 4 (four) books. 1. WATER: Resource Augmentation, Management & Policies (2004—ISBN 81-87680-13-X); 2. Disaster Management: Engineering & Environmental Aspects (2013—ISBN 81-87680-30-X); 3. Environment Science—Issues & Solutions (2017—ISBN81-87680-33-4).4. Disasters and Hazards: Risk Reduction, Mitigation and Management (2021—ISBN 81-87680-34-2). These books are used as text books in Universities, libraries and as references.

Currently, he is (i) Visiting Faculty in the Earth Science Department of University of Hyderabad; (ii) Member, Training Quality Improvement in Centres for Agrarian Studies (CAS) and Natural Resources Management (CNRM), NIRD&PR, Hyderabad; (iii) Guest Faculty in GSI Training Institute, Hyderabad and Badruka College, Hyderabad.



**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.



**Mr. P Sathaiah**, graduated in Mining Engineering from Kothagudem School of Mines, Osmania University in 83 and did MBA from IGNOU (1998) .He has 38 years of experience in Coal Mining and played a key role in formulation, obtaining approvals like Mining Plans, Environmental Clearance & Forest Clearance from Government of India for new coal projects and follow- up action of grounding of the new projects in SCCL. He retired as General Manager (Project Planning) from The Singareni Collieries Company Limited, Telangana State.



**Dr. M V N Shyam Prasad** He did B.Tech from Kothagudem School of Mines, Osmania University, and M.Tech from IIT, Kharagpur and Ph.D. from ISM/IIT, Dhanbad. Presently working as Manager, The Singareni Collieries Company Limited.



**Dr. Bodapati Prasad** is a Mining Graduate with Ph.D in Mining Engineering from the then USSR (Union of Soviet Socialist Republics). He worked in Coal India Limited for over 29 years in various capacities and superannuated as General Manager (Mining), Heading the Department of Science & Technology at Central Mine Planning & Design Institute Limited (CMPDIL), a Subsidiary of Coal India Limited. He was looking after the needs of research work in Coal and Lignite sectors funded by Ministry of Coal and Coal India Limited in the areas encompassing - Exploration, Exploitation, Coal Beneficiation & Utilization and Mine Environment. While in service, he visited Sri Lanka, Turkey, Russia, Germany. Presently he is an Adjunct Faculty, University College of Engineering (A), OU



**Ms. Sirisha Indukuri** is a sociologist with over fourteen years of work experience that combines research and practice in the field of sustainable development in India. She has worked at N R Management Consultants India Pvt Ltd, The Energy and Resources Institute, and has been commissioned as a consultant and fellow by the Ministry of Rural Development-Government of India, Delhi University-UN Women and others. She has taught post-graduate students and imparted training to public sector trainees and in-service officers on environmental policy, conservation and development, social impact assessment, among other themes. On-the-ground, she has worked with a range of stakeholders, from local communities to policy and decision makers to civil society actors and private players.



**Dr. C. S. Krishna Prasada Rao** is a B.E in Mechanical Engineering from University College of Engineering Osmania University, Post Graduate in Tool Engineering from National Institute and M.Tech from JNTU Hyderabad. He did his Ph.D in the area of advanced metal forming science from O U. He worked in Tata Engineering and Locomotive Co. Ltd and Bharat Dynamics Ltd, Ministry of Defence and retired as General Manager. He has published and presented 70 Research papers in Journals and Conferences.



**Ms. Anita Aggarwal** is a B.E. Civil, M.Tech in Environmental Science & Engineering from IIT (ISM) Dhanbad. 16 years of experience in domains related to Water Supply, Sewerage, Waste Management and Training & Teaching. Her areas of interest are in water supply, environment & solid waste management, technical estimation of civil Infrastructure and software applications related to water supply & sewerage system. Presently she is working as Head, Environment Management Division, ESCI

### Contact Persons

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