Introduction

Mining of mineral resources can spur economic development and create new wealth. It is a well-known fact that from energy, construction and agriculture to communications, transportation, national defense, at home, work or play, we all use or require minerals and mineral materials every day. Nevertheless, mining is a destructive process and a potential for causing negative environmental effects and irrevocably shaping the social dynamics. Climate change and environmental challenges are actual and a global phenomenon. However, continuous efforts in terms of framing national, international conventions, laws and treaties to promote sustainable living is on. The task of ensuring all obligations and expectations are to be met to protect the health of miners and the environment is an ongoing challenge. Acceleration in the adoption of new technology is transferring the way the mining industry operates today, whatever be the goals—reducing costs, improving uptime or safety or fulfilling sustainability. Scientific mining is to maximize recovery of natural resources on the premise of the harmonized geology and ecological environment and to achieve sustainable mining with safety, high efficiency, economy and social harmony. Tailored solutions and applications know-how that improves operational safety and sustainability whilst increasing efficiency in resource recovery is the need of the mining industry.

Objectives

To understand the origin of environmental rights, policies, and existing legal regimes governing pollution, toxic substances, waste management, land reclamation, mine closure, environmental impact analyses, and environmental risk and knowledge of the laws and their interrelationship and sustainable mining which is an objective as well as a tool to balance economic, environment and social considerations. In order to understand the environmental laws for better environmental management this course has been designed. Finding ways to significantly minimize the adverse effects while remaining compliant with environmental restrictions, as well as maintaining maximum production levels. It is essential as a professional in the mining & energy sector, to recognize the benefits that environmental laws—which are often seen as obstacles—can bring. By leveraging these laws, we can drive positive change within the organizations, Adhering to regulations related to emissions, waste management, and water conservation can help optimize the mining operations, reduce costs, and minimize the environmental footprint thus foster sustainable practices, contribute to a cleaner and greener energy landscape and uplift societal well-being.

Demonstration of commitment to responsible practices and engagement with stakeholders effectively and by showcasing compliance efforts, adopting transparent reporting practices, and investing in community initiatives, trust can be built up and enhance organizational reputation, which ultimately leads social acceptance and to greater business opportunities.

Benefits to the Delegates

This course provides with a background on environmental laws, policies along with legal terminologies, fundamental principles and agencies that monitor proper functioning and chart development and environmental challenges faced universally and effective management practices to address environmental challenges at local, national, and international levels and will help to be equipped with the knowledge and skills to navigate the complexities of environmental and social governance.
Course Coverage

- Introduction to Environmental Laws and Policies in India
- Environmental Quality Standards
- Regulatory Reforms in Environmental Management in India
- Environment conservation and rejuvenation via sustainable practices
- Pollution of Land, Water, Air and control measures.
  - Environmental Compliance
  - Ecological restoration in mining projects
- Understanding how Environmental, Social and Governance factors are an integral part of Sustainable Development.
- Social Impact Assessment
- Land Acquisition
- Rehabilitation & Resettlement
- Controlled Blasting Techniques
- District Mineral Foundation
- Skilled Development of Affected Persons

Methodology

Methodology of the programme includes lecture / discussion with audio-visual aid, case studies, sharing of experiences by expert faculties, demanding active participation from all the delegates

Target Participants

This course will be beneficial for decision makers, environment engineers and mine managers, executives working in the areas of project formulation and for obtaining social license including environment and forest clearances in various mine development projects from various sectors, regulatory authorities.

Programme Dates & Timings

Dates: 18- 20 September 2024
Timings: 10.00 a.m. to 5.30 pm each day with a 5 - hour city tour on one of the days after the lecture.

Faculty / Speaker Details

Apart from the core internal faculty, experienced professionals/faculties/sector experts will be delivering the lively lectures with practical knowledge & case studies.

Course Fee

- **Residential Fee : INR 24,000/-** (Rupees Twenty Four Thousand only) per participant which includes course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme.
- **Non-Residential Fee: INR 21,000/-** (Rupees Twenty one Thousand only) per participant which includes course material, course kit, lunch, tea and snacks during the actual days of training programme.
- **Special concession of 10% in course fees to organization for 5 or more nominations and attendance.**
- ESCI provides complimentary accommodation to 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 payment of nominal charges of Rs 1000/- Day**

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

Online registration shall be available on ESCI web portal: www.esciupskill.org / www.escihyd.org

To register manually please send your nominations giving details of name, designation, contact address, fax, telephone, email address and mobile number along with the details of mode of payment of fee, addressed to the Course Director.

CERTIFICATION

A ‘certificate of participation’ will be awarded to each participant on conclusion of the programme.

Profiles of Experts

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. The thematic areas of her work include natural resource management, climate change, livelihoods, where she focuses on the governance, institutional, community and gender dimensions. 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.


He was Editor of the monthly Mining Engineers’ Journal during 2013-17 and functioned as Secretary-General of Mining Engineers’ Association of India in 2017-18. He was Convenor of an International Geological Correlation Programmes (IGCP510) for four years, and also organized several national seminars. 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; and (vi) Treasurer, Vivekananda Educational Centre, an NGO managing Vivekananda Public School for the economically and socially downtrodden students.

Dr. N Darga Kumar currently serving as Associate Professor and Head Department of Civil Engineering, JNTUH College of Engineering Manthani in Telangana state.

He began his academic career as lecturer at Sri Venkateswara University Tirupati in the year 1997. He pursued 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 in abroad as Professor of Geotechnical Engineering and Professor of Civil Engineering at Adama Science and Technology University, Ethiopia and Fiji National University, Fiji Islands.

He has guided 5 Ph.D theses and 25 Masters theses and also Published about 90 articles in journals and conference proceedings.

He has received the Best Teacher Award from the Adama Science and Technology University, Ethiopia for his contributions in teaching and development of PG program in Geotechnical Engineering.

He has delivered good number guest/invited/keynote lectures in the field of geotechnical engineering to the students and working engineers.

He has served as Chair PG programs, Program Leader for BE Civil Hons. Program, Head of School, Head of the Department and Additional Controller of Examinations.

He has carried out collaborative research activities sponsored by TEQIP, DST and Universities where he has served.

He has visited abroad on teaching assignment, as Geotechnical Engineer and presented research papers in conferences in countries like Switzerland, Italy, USA, Fiji, Ethiopia, Japan, Singapore, Malaysia, Hong Kong, France and New Zealand.
**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.

**Dr N Srinivasa Rao**
Scientist - M Sc (Physics) Osmania University. Ph.D ( Remote Sensing), JNTU - Hyderabad
18 Years of Research Experience in Remote Sensing Application (Land ,Ocean & Atmospheric)
Guided 50 Academic Projects
Resource Person to Universities, Academic Institutes & Research Organizations.

**Prof. Dr. S. ALTAF HUSSAIN**

Academic Profile:
- B.Tech in Chemical Engineering from National Institute of Technology, Warangal.
- M.Tech in Environmental Management from JNTU, Hyderabad.
- Master of Human Resource Management from Annamalai University
- Diploma in Industrial Safety from Annamalai University
- Ph.D from JNTUA in Chemical Engineering, with a specialization in Civil Engineering
- Worked as Principal in Lords Institute of Engineering & Technology, Hyderabad,
- Padmasri Dr. B.V.Raju Institute of Technology, Narsapur, Medak Dist.,
- Head-Chemical Engineering Dept., BVRIT, Narsapur, Medak Dt.
- Adjunct Professor for Centre for Environment, IST, JNTUH, Hyderabad
- Professor & Head of Pharmaceutical Engineering

Since Oct 2018, working as Director, Lords Institute of Engineering & Technology, Hyderabad

Books Written : Sound Health Management, Chemical Engineering Yoga, Encyclopedic Dictionary of Chemistry, Elevated Blooms Taxonomy – Complete Learning through sensors
Professional Training Exposure in General Management ,Leadership Development, Fitness and Nutrition Training, Mission 10 X, Dale Carnegie High Impact Teaching skills
NCC ‘C’ Certificate holder

Areas of Training (a few)

Projects executed pertaining to waste to wealth: Production of gypsum from spent acid : Effective Utilization of spent carbon : Separation of iron from granite industry waste: Utilization of granite waste as cement substitute.

**Dr V Balaram** is an Emeritus Scientist & Former Chief Scientist & Head, Geo-Chemistry, National Geophysical Research Institute, Hyderabad. He has a vast experience in Geology, Geochemistry, Mineral Exploration, Analytical Geochemistry and Environment. He published many articles and also authored many books on Rare Earth Minerals.

**Mr BRV Susheel Kumar** is a graduate in Mining Engineering from Kothagudem of School of Mines, Osmania University and secured distinction. He started his career in The Singareni Collieries Company Limited and worked as Under Manager. Later he was selected in the Department of Mines & Geology as Group-I officer from AP Public Service Commission and joined as Assistant Director (Mines) in March 1993 and was promoted as Director in the year 2011.He underwent full time Intensive Training on Implementation of Information Technology conducted by IIM, Ahmedabad and designed Online Filing and Processing of Mineral Concession Application. He played a vital role in bringing in amendments to MMD&R Act 1957 and also took a lead role in conceptualizing the documentary film on Extraction of Bauxite to create awareness among the tribes. He participated in the World Mining Congress in Iran, PADAC in Canada, Granite Expo Exhibition in Italy-Verona, and Granite International Fair in China. He is a good sportsman and played Football for State for Subroto Mukherjee Trophy and played hockey & cricket at the District Level.
Dr. M.V.S.S. Giridhar is a Ph.D. from JNTUH, M.Tech. from IIT, Kharagpur. He published 150 papers in International / national journals & conferences.

- Design of water pipeline for BHEL industry to distribute STP water to various blocks to irrigate lawns and horticulture crops.
- Developed a methodology for disposal of flash flood water in TCS campus using Remote Sensing and GIS systems

Ms. Anita Aggarwal is a B.E. Civil, M.Tech in Environmental Science & Engineering from IIT (ISM) Dhanbad. Thirteen 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.

Dr D Venkat Reddy, Doctor of Philosophy [Ph.D.]-Geology, Osmania University, Hyderabad, Telangana State, India in 1985

Master of Science in Hydrogeology, University Science College, Osmania University, Hyderabad, Telangana State, India in 1978

Master of Science in Geology- Engineering Geology specialization -University Science College, Osmania University, Hyderabad.

Professor, Department of Civil Engineering, National Institute of Technology Karnataka.

Consulting Faculty, Larsen & Toubro (L&T) Construction-Heavy Civil Infrastructure, Chennai, Tamil Nadu.

Present Position: Adjunct Professor, Dept. of Civil Engineering – Dr. Babasaheb Ambedkar Technological University, Maharashtra and visiting faculty, Reva University, Bengaluru.

Advisor, CCC, CTE & EM Divisions in Engineering Staff College of India, Hyderabad.


He visited the United Kingdom, Spain, United States of America & Australia during his service which enhanced his capabilities in terms of Technical, Managerial & Business Skills. He is also a holder of First Class Manager's Certificate of Competency issued by The Director General of Mines Safety, Ministry of Labour, Government of India.

He is a Fellow of Institution of Engineers (FIE) and Life Member of Institution of Engineers, MEAI (Mining Engineers' Association of India), MGM( Mining, Geology, Metallurgical Association of India), Alumni of Mining Engineers' Association (Osmania University and Kakatiya University)

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 in the year 2019 and worked as an Assistant Professor at JBIET, Hyderabad and worked as Graduate Trainee for one year in SCCL.

He holds Second class Managers Certificate of Competency (Unrestricted) from Board of Mining Examinations, DGMS.

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, ESCI

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