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## Welcome to the **MinEco-13** Training Brochure 2013

In the today's competitive world, it goes without saying that keeping up to date and continuing learning throughout one's career are indispensable. We at the Department of Mining Engineering, IIT Kharagpur are committed to contribute to Continuing Professional Development in the mining industry.



With a team of highly qualified people with expertise in diverse fields, we are leading provider of higher education and research in mining and allied fields. We are also provider of quality training to practicing mining professionals.

The present course on **MINERAL ECONOMICS AND MINING FINANCE: what the mine managers must know** is designed to suit all the managers in mines who are directly or indirectly involved and contribute to the financial decision making of a mine. The participants will be exposed to plethora of important mineral economics and mining finance issues that will assist them in their holistic expertise development and in their life long learning.

Specialist trainers will deliver this training course, and the number of delegates is normally kept limited to ensure that everyone receives individual attention and achieves their learning goals. Registration will be on the **First Come First Serve basis**. The course is open to all, companies willing to send more than five participants enjoy preferential reduced rates.

### New for **MinEco-13**

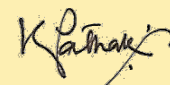
We have included several Topics for **MinEco-13**. The course will be a blend of theories and practice. The participants will be encouraged to case-study presentation and bring out issues of practical importance for fact finding exercises to be conducted during the course

### Developing your team

We can offer attractive discounts for booking more delegates onto a course and can also create bespoke training courses, tailored to your organization and delivered at your place.

Other than this course you can contact the undersigned for the following courses that are regularly organized:

1. CSR and EMP integration through Vetiver System Technology for Erosion Prevention and Spoil Dump Stabilization: *Next course expected in July 2013*
2. Catchment Area Treatment (CAT) Plan and Water Management in mining industry: Next Course expected in August 2013.
3. Surface Mining Safety and Productivity: *Next Course expected in September 2013*
4. Mining Machinery: Maintenance and Capacity Utilization: *Next course expected in November 2013*
5. Bulk Material handling in mines, plants and ports: *Next Course expected in January 2014*
6. RS and GIS for Mine Closure and Environment Management: Next Course expected in March 2014.



Dr. Khanindra Pathak,  
Course Co-Ordinator

Professor, Department of Mining Engineering

**Continuing Professional Development (CPD)** is undoubtedly one of the essentials to the growth of efficiency and deliverance of results by professionals in industry. This can be achieved through an ongoing, structured process designed to update knowledge, and maintain and enhance professional competence and personal effectiveness. A CPD programme therefore attempts to incorporate new learning that can leave durable impressions in mind and induce subtle impacts that result in increased effectiveness of people.

The participating professional in the course must identify their competencies and the required competencies of their work place and continuously thrive by reducing the gaps. The training programme will assist to achieve this.

### **Monitoring Objectives**

The nominees for this course will be asked to record their objectives. Following the course, delegates should consider whether they have met their objectives and to consider any further development opportunities arising. This is proven to aid the learning process and reflects our policy – to plan, undertake and reflect upon professional development activity.

Through the deliveries in the course we try to expose standards, theory and methodologies, specific knowledge areas, interpersonal skills and latest tools and techniques with special attention to their applicability in specific mining environment.

The participants will be encouraged to continue their exposure to the learning environment at the Department of Mining Engineering at IIT Kharagpur for their professional development using various online resources and contacts.

### **The benefits**

#### **Meeting the experts**

The faculty members delivering lectures in the course are highly qualified in their areas and possess wealth of national and international exposure and experience. Many of them share their experience through case studies and can offer hand on experience in using decision-making tools. The participants get an opportunity to discuss their specific problems with them.

#### **Cost effective**

The participants from different companies share the cost of the course. Conducting the course for training few participants of your company alone would be very costly. Thus your company saves money.

#### **Flexibility**

Should you require something more tailored to your exact training requirements, we can also develop a course to suit your specific needs.

#### **Building Relationship**

The course participants get opportunity to meet their peer groups in different companies. Sharing the experience of best practices of relevant fields results in long term relationship in solving industry problems.

The purpose of this Four-days course is to enable the participants to refresh their basic information and analyzing skill to judge investment and production strategies considering the market, finance, taxation and policy issues related to the mineral industry. Mineral Economics and Mining Finance issues will be covered and case studies related to these areas would be discussed. Mineral Taxation and Mineral pricing as well as Mineral export import policies of India and the new mineral policy will be critically examined through participative and group learning approach.

### Who should attend?

- ✓ This course will be suitable for the mine managers.
- ✓ The managers, executives and supervisory staff engaged operations and planning of surface mining.
- ✓ the finance and accounts officers working in mines.

### How will this course benefit you?

Upon completion you will be able to:

- describe the methods of classification of mineral resources and explain their role in investment decisions
- explain the development of JORC and other international mineral resource classification system
- compare different methods of project evaluation techniques for an investment proposal.
- analyze the factors contributing to the volatility of mineral price and the problems of mineral price forecasting

#### Fees

Rs. 17000.00 per participant.

Payable by demand draft :

in favor of "CEP-STC, IIT, Kharagpur"  
at Kharagpur

Fee does not include boarding and lodging charges.

Please send the names of your nominees with their designations and addresses to the Course Coordinator before **20.06.2013**.

### Course programme

During this interactive course the following topics will be covered:

- ✚ Important Mineral Resource Issues
- ✚ Conservation of Mineral Resource and Substitution
- ✚ **Reserve Resource Dynamics:** Conventional Resource/ Reserve Estimation Techniques, JORC and Other International Classification Systems, UN Framework Classification System for Mineral Resources, Concept and Economic Significance of Marginal Reserve
- ✚ **Valuation of Mineral Properties and Project Evaluation:** Concepts of Cash Flow and Time Value of Money, Mining Project Feasibility Study Parameters
- ✚ **Mine Finance and Accounting:** Cost-Accounting in Mining Operations, Cost-Volume-Profit Analysis
- ✚ **Mineral Taxation:** Basic Principles of Mineral Taxation, Mineral Taxation in India
- ✚ Pricing of Minerals
- ✚ Mineral Export Import Policy of India

**Pre-course work** Before the course, the participants can contact us for preparing the participation materials and basic information relevant to the course. If necessary they will be provided pre-course study materials for specific purposes .

**Duration** Four days

IIT Kharagpur is exempted from Income Tax and while sending the course fee no Tax should be deducted.

Companies sending more than 4 participants will avail the following reduced fee:

1. For 5 participants: Rs75,000/-
2. More than five participants: Rs. 14000/- for every additional participant

## Short Term Course

On

### **MINERAL ECONOMICS AND MINING FINANCE: what the mine managers must know**

(During July 16-19, 2013 at Department of Mining Engineering, IIT Kharagpur)

The course is designed to enable the mine managers to refresh their basic information and analyzing skill to judge investment and production strategies considering the market, finance, taxation and policy issues related to the mineral industry.

The supply of raw materials for different industries by the mineral industry plays a pivotal role in a country's overall economy. The availability of different minerals and their distribution in the globe determines the global business and mineral trade, which is governed by various national and international framework and regulations. To comply with these, proper evaluations of the mineral deposits based on effective sampling and data acquisition is of crucial importance. The estimated reserve and its marketability attract the sources of funds for investment in the mineral industry. Government taxation and prevailing market structures determine the viability and continuity of the mining trades. The mineral rich countries develop their mineral policies considering the geo information and market possibilities, which provide the overall dynamism to the mineral industry. Thus for a mining manager it is essential to develop skill in analyzing the geo-resources and economics related information.

Though this subject is very vast and require careful teaching learning approach to master it, in this 4 days training issues related to the following will be discussed:

- Important Mineral Resource Issues
- Conservation of Mineral Resource and Substitution
- **Reserve Resource Dynamics:** Conventional Resource/ Reserve Estimation Techniques, JORC and Other International Classification Systems, UN Framework Classification System for Mineral Resources, Concept and Economic Significance of Marginal Reserve
- **Valuation of Mineral Properties and Project Evaluation:** Concepts of Cash Flow and Time Value of Money, Mining Project Feasibility Study Parameters
- **Mine Finance and Accounting:** Cost-Accounting in Mining Operations, Cost-Volume-Profit Analysis
- **Mineral Taxation:** Basic Principles of Mineral Taxation, Mineral Taxation in India
- Pricing of Minerals
- Mineral Export Import Policy of India

### **Accommodation of Course Participants**

Accommodation for the participants is 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.

### **Address for Communication**

For any other information or sending nomination please write to:

**Prof. Khanindra Pathak,**

Course Coordinator

Department of Mining Engineering

IIT Kharagpur-721302

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E-mail: [khanindra@mining.iitkgp.ernet.in](mailto:khanindra@mining.iitkgp.ernet.in) / [Khanindra.p@gmail.com](mailto:Khanindra.p@gmail.com)

### **Department of Mining Engineering, IIT Kharagpur**

Set up in the year of 1956, this Department has steadily grown as one of the best mining education centre in the country. Besides offering undergraduate, postgraduate, and doctoral courses in Mining Engineering, it is actively involved in short term courses and research activities in the areas of Mining Machinery, Mine Safety and Reliability, Mine Fire and Explosions, Model Studies in Ventilation, Rock Mechanics and Ground Controls, Numerical Analysis of Mine Structures, Underground and Surface Environment, Geometrics and Remote Sensing, Mine Closure Planning and relevant computer applications. Short-term courses, consultancy, sponsored research programmes and postgraduate project works are part of the department's