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Safety and Productivity in Bulk Material Handling in Mining, Steel Plant and Thermal Power Stations

January 08-10th, 2016 at, Department of Mining Engineering IIT Kharagpur

Mining, Steel Plant and thermal power Stations are involved in large scale bulk material handling and application of large number of high capacity machinery. Management of productivity of these sectors are highly dependent on safety issues besides other factors. The practicing engineers in these industries require comprehensive exposure to the basic principles of integrated safety and productivity management. Today's advancement of science and technology for these sectors need to be understood for effective application for enhancement in safety. GPS technology, remote diagnostics, automation and robotics along with reliable down time minimizing techniques etc are going to be introduced in the future plants. Wide range application of data acquisition system, digital ore body modeling integrated with mining machinery controls, computerized mine planning, reliable on line machine diagnostics and advanced communication systems will make the industry more competitive. Implementation of automation, cleaner mining systems and advances of machinery management etc. will be needed for the promising growth.

The Department of Mining Engineering of Indian Institute of Technology, Kharagpur believe in continuous and lifelong learning and we design courses for the engineers in the Mining and Allied Industry to train them in specific areas. The present course is one of such courses for the practicing engineers. The participants with industrial exposure and technology management will be highly benefitted by this course as this course will help them in assessment of safety and productivity and design new approach for achieving enhancement of both.

Accommodation of Course Participants

The course will be **non-residential**. Accommodation in the campus is considered convenient; and can be booked at the Technology Guest House of IIT Kharagpur, on prior request.

Address for Communication

For any other information or sending nomination please write to:

Prof. Khanindra Pathak,

Course Coordinator

Head, Department of Mining Engineering

IIT Kharagpur-721302

Phone: 03222283722 Mobile: 09800877877, Fax: 03222282700/282282

E-mail: khanindra@mining.iitkgp.ernet.in / Khanindra.p@gmail.com/ hod_mining@iitkgp.ac.in

Secretary: Mr.Sandip Mukherjee, Mobile. 09635833145

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. Be 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 regular activities.

SPMSPTPS-16: Safety and Productivity in Bulk Material Handling in Mining, Steel Plant and Thermal Power Stations

Welcome to the SPMSPTPS-16 Training Brochure 2016

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 Surface Mining: Safety and Productivity is designed to suit all levels of ability in mining, whether you are a mining engineer carrying out drilling and blasting, a civil engineer in charge of roads and facilities, a mechanical/electrical engineer responsible for productivity of machinery or an environmental engineer to ensure environmental conservation and restoration.

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

New for 2016

We have included a new Topic for SPMSPTPS-16. It is case studies of application of Vetiver System Technology for spoil dump management and for Catchment Area Treatment (CAT) around surface mining projects. We expect the participants will be able to prepare a list of required initiatives for their place of work.

Developing your team

We can offer attractive discounts for booking more delegates to this 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. Remote Sensing and GIS for Environmental Management and Mine Closure Planning
2. Vetiver System Technology for CSR and EMP integration
3. Mining Machinery: Maintenance and Capacity Utilization
4. Bulk Material handling in mines, plants and ports
5. Mineral Economics and Mining Finance: what the mine managers must know

Dates: January 08-10, 2016 at Department of Mining Engineering, IIT Kharagpur

SPMSPTPS-16: Safety and Productivity in Bulk Material Handling in Mining, Steel Plant and Thermal Power Stations

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 The purpose of this three-day course is to enable the participants to enhance their understanding of unit operations in the mines, thermal power stations and steel plants. The recent trends of developments in achieving work place safety will be highlighted. Number of generic tools of safety and productivity management will be discussed.

SPMSPTPS-16: Safety and Productivity in Bulk Material Handling in Mining, Steel Plant and Thermal Power Stations

Who should attend?

- This course will be suitable for those who have already had exposure to mining and material handling in TPS and Steel Plant and are exposed to organizational practices through work experience in surface mining operations.
- The managers, executives and supervisory staff engaged operations and planning of mining, raw material handling in TPS and Steel Plants.
- Safety Engineers of any industry.
- The course will be very helpful in discharging their duties particularly for the Safety Officers, Environmental Managers and Excavation Engineers

How will this course benefit you?

Upon completion you will be able to:

- Identify and evaluate the recent developments in safety engineering that could be useful for their work sites,
- Define the requirements of safety and productivity enhancement and plan a programmes to achieve that

Course fee:

Fees

Rs. 25000.00 per participant,

Payable by demand draft : in favor of "CEP-STC, IIT, Kharagpur" at Kharagpur.

Fees does not include boarding and lodging charges.

Course programme:

During this interactive course the following topics will be covered:

- Work Breakdown structure and Job Safety Analysis
- Professional issues of safety and productivity and their audits
- Procedures for safety and productivity auditing and audit planning
- Basics of safety and productivity database and monitoring
- Safety analysis and system improvement
- Basics of hazard management and rescue operations
- Emergency preparedness management
- Productivity management

Duration : Three days (**January 08-10, 2016**)

Please send the names of your nominees with their designations and addresses to the Course Coordinator before 22.12.2015.

SPMSPTPS-16: Safety and Productivity in Bulk Material Handling in Mining, Steel Plant and Thermal Power Stations:

Course reduce fee

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 4 participants: **Rs 95000/-**
2. More than five participants:
Rs. **22500/-** per additional 1 participant.

Electronic Transfer Details

Bank Detail and Electronics Transfer:

Name of the Account : CEP-STC, IIT Kharagpur

PARTICULARS OF BANK ACCOUNT

Banks Name : Syndicate Bank
Branch Name : IIT Kharagpur
Account No. (as appearing on the Cheque book) : 95562200002955
IFSC Code. (Indian Financial
System code for RTGS) : SYNB0009556
PAN No : AAAJ10323G

CONTACT:

Dr. Khanindra Pathak
Course Coordinator
Department of Mining Engineering
Indian Institute of Technology Kharagpur
Kharagpur – 721302, West Bengal

For any queries please send E-mail to:
khanindra@mining.iitkgp.ernet.in, sandip.p.1982@gmail.com,

How to reach Campus at IIT Kharagpur

Situated about 120 km west of Kolkata, Kharagpur can be reached in about 2 hours by train from the Howrah railway station of Kolkata or 3 hours by car from Kolkata Airport. Kharagpur is also connected by direct train services to most major cities of the country. The Institute is about 10 minutes drive (5 km) from the Kharagpur railway station. Private taxi, auto rickshaw or cycle rickshaw can be hired to reach the Institute.

Accommodation

Accommodation in Technology guest house in IIT Campus Kharagpur.

TECHNOLOGY GUEST HOUSE – All A/c					
Type of Accommodation		Cat A / B / C		Cat D	
Double Bedded Room on sharing Basis (Per Per)		600.00		1200.00	
Single Occupancy in a Double Bedded Room		800.00		1600.00	
Suite		1500.00		3000.00	
VISVESWARAYA GUEST HOUSE					
Type of Accommodation		Cat A	Cat B	Cat C	Cat D
Double Bedded Room on sharing Basis (Per Person) (A/c)		200.00	200.00	200.00	200.00
Single occupancy in a Double Bedded room (A/c)		300.00	300.00	300.00	300.00
Single Room (Non A/c)		100.00	100.00	100.00	100.00
Double Bedded Room on sharing Basis (Per Person) (Non A/c)		100.00	100.00	100.00	100.00
Single occupancy in a Double Bedded room (Non A/c)		150.00	150.00	150.00	150.00
Three Bedded / Four Bedded Room – Per Person (Non A/c)		100.00	100.00	100.00	100.00
Community Center 6 AM TO 6 AM next day		300.00	600.00	1200.00	2000.00
Partial – 8 Am to 4 Pm or 4 PM to 11 PM		200.00	400.00	800.00	1200.00
Class Room East & West (A/C)		400.00	400.00	600.00	800.00
KOLKATA GUEST HOUSE					
Type of Accommodation		Cat A / B / C		Cat D	
Double Bedded Room on sharing Basis (Per Per)		600.00		1200.00	
Single Occupancy in a Double Bedded Room		800.00		1600.00	
Double Bedded Cottage on sharing Basis (Per Per)		200.00		400.00	
Single Occupancy in a Cottage		200.00		400.00	
Meeting Room		450.00		900.00	

Categories of Guest			
Category	Eligibility	Authority	Payment Mode
Cat 'A'	Guest invited by the institute for academic, administrative work and for campus interview	Director/ Dy. Director / Registrar / All Deans / All HOD	Institute
Cat 'B'	Guest / Individual visiting institute in connection with scheme, project / Consultancy/ short term courses, seminars & conference etc.	Dean SRIC / PIC	By SRIC through project / respective coordinator.
Cat 'C'	Employee, Students parents/ Guardians and Alumni Guest from other academics institutes offered accommodation on reciprocal basis	Faculty / Officers	By the individual before checking out. If charges are not paid by the guest then person making the booking is required to clear the bill.
Cat 'D'	Guest not covered under above categories	For individual – Manager GH and for block booking through institute authority	By the individual – if charges are not paid by the guest then the person recommending is required to clear the bill.

Note:

1. Priority for accommodation will be accorded to guest covered Under Cat A and Cat B.
2. The Management of the guest house may at its discretion, Cancel a booking or offer alternate accommodation.
3. Normally a booking in the GH can be made for a period of 3 days this can be extended upto a maximum period of 7 Days and beyond that with the approval of the competent
4. In advance 50 % payment is to be made for bulk booking Against confirmation.
5. 100 % payment if cancellations are made 60 days prior to The Commencement of Conf /Course etc and 72 Hours in case

