

INTRODUCTION

Tribology and Lubrication Technology are most important applications for industry to maintain higher level of maintenance and process operation in machinery and equipment. Tribology comprises of the science and technology of interacting surfaces in relative motion; that is, friction, lubrication and wear. Condition Monitoring based on wear debris analysis of used oil is considered as a tool which can quickly identify the health of machinery and diagnose the same before breakdown.

The course on Tribology and Lubrication Technology will provide the foundational skill-set for applying Tribology practices. Through this course, the Participants will be able to use the best practices for selecting, storing and testing lubricants to boost reliability and generate lasting results in machine equipment, efficiency/ maintenance. They will also gain better understanding of oil analysis, so as to align their efforts with those of maintenance professionals.

COURSE CONTENT

- Fundamentals of Tribology
- Friction and Wear Analysis
- Lubricants and Lubrication
- Condition Monitoring Based On Wear Debris Analysis
- Health Monitoring of Mine Hydraulic System
- Maintenance Planning and Control of Tribological System
- Materials for Tribological Applications
- Practical Classes
- Field / Plant Visits

ABOUT IIT(ISM) DHANBAD

The **Indian Institute of Technology (Indian School of Mines), Dhanbad** is a fully residential and co-educational institute situated in the heart of the country's prime coking coal belt, 260 kms from Kolkata with a campus spread over an area of 393 acres, (with 218 acres of existing campus and 175 acres under acquisition and development) the fully residential IIT(ISM) has all the facilities of world class academic institute. What started as an institution to impart mining education has graduated into a full-fledged technical institution of international acclaim offering a host of programmes like B. Tech., M. Tech., M. Sc. Tech., and MBA. In addition the School offers M. Phil. and full as well as part time Ph. D. programmes, while also awarding D.Sc. as the highest degree of academic achievement.

DATE and DURATION:

One Week (7th August to 11th August, 2017)

INTENDED PARTICIPIANTS

Participants should be practicing engineers from mines and allied fields, Post Graduate Students, Research Scholars, Faculty Members, and Scientists working in the field of Tribology.

REGISTRATION

External Participants (outside IIT (ISM))	
Post Graduate students	Rs. 10,000/-
Research Scholars	Rs. 15,000/-
Faculty members / Scientists from R& D	Rs. 20,000/-
practitioners from Industry	Rs 32,000/- (non-resident participant)
	Rs 35,000/- (residential participant)

- A/C room accommodation at EDC in IIT (ISM) will be provided for residential participant.
- Accommodation and dinner will not be available for non-resident participant.
- Fooding and lodging shall not be provided to participants from IIT(ISM) and the course fee is as per the IIT (ISM) rules.

NOMINATION & PAYMENT

Nomination along with course fee in the form of Demand Draft in favor of "**Registrar, Indian Institute of Technology (ISM), Dhanbad-826004**" payable at any bank available in Dhanbad, should reach to Course Coordinator at the address as given above on or before **25.7.2017**. The formal consent for attending the workshop may be sent in advance through email to the Coordinator.

The details for online transaction (e-payment) of the fee is given below*:

Name of Beneficiary: **Indian Institute of Technology (ISM), Dhanbad**
Address: Dhanbad, Jharkhand, Pin:-826004.
Bank Name: Canara Bank
Branch Name: Saraidhela, Dhanbad-828127
MICR Code: 826015003, IFSC code: CNRB0000986

Account no.: 0986101009746

Type of account: Saving

PAN No: AAAAI0686D

COURSE COORDINATOR:

Dr. Subrata Kumar Ghosh
Assistant Professor,
Department of Mechanical Engineering,
Indian Institute of Technology (ISM),
Dhanbad-826004, Phone: 0326 - 2235601,
Mobile: +91- 9430187029,
Email: subratarkl@gmail.com

***Kindly send a copy of transaction with duly filled registration form to the course coordinator before 25.07.2017.**

Registration Form

**A Short Term Course
on
TRIBOLOGY AND LUBRICATION
TECHNOLOGY IN MINING INDUSTRY
(7th August to 11th August, 2017)**

1. Name: _____
(Capital Letters with Surname underlined)
2. Organization/Institute: _____

3. Designation/Dept.: _____
4. Qualification: _____
5. Specialization: _____
6. Gender : (M/F) _____
7. Mailing Address: _____
8. Mobile: _____
9. E-mail _____
10. Registration Fee: _____
11. Mode of payment: _____
Amount: _____
DD No./ Transaction ID: _____
Date: _____
Issuing Bank: _____

- SIGNATURE: _____
Date: _____

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**TRIBOLOGY AND LUBRICATION
TECHNOLOGY IN MINING INDUSTRY
(7th August to 11th August, 2017)**

Coordinator

Dr. Subrata Kumar Ghosh



Organized by

**DEPT. OF MECHANICAL
ENGINEERING**

**Indian Institute of Technology (ISM)
Dhanbad– 826004, JHARKHAND
INDIA**