

## Short Term Course

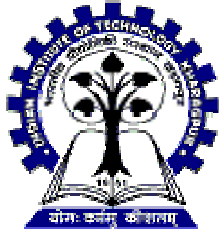
on

## Asset Management of Engineering Systems

(February 21-23, 2014)

at

IIT Kharagpur Extension Centre  
Salt Lake City, Kolkata 700 091



Organized by  
Department of Industrial  
Engineering and Management  
Indian Institute of Technology  
Kharagpur 721 302 India

### Introduction

In today's highly competitive business environment, management of physical assets (their selection, maintenance, inspection and renewal) plays a key role in determining operational performance and profitability of any business unit, manufacturing plant or industry that operate assets as a part of their core business. Asset Management, being the art and science of making right decisions and optimizing these processes, attempts to minimize the total life cost of assets and directly or indirectly influences manufacturing/production/operation/service cost, processes and quality, and throughput or delivery time. There is particular interest in the application of asset management principles to the management of engineering systems in any industrial unit where the cost and performance of the assets are of major significance.

Asset Management for any engineering system needs to focus on maintenance, renewal and enhancement activities, with an integrating mechanism, on delivering sustainable outputs valued by customers and funding providers at the lowest whole-life cost emphasizing on creating knowledge of how assets degrade and fail to optimize maintenance and renewal interventions. **It is essential that industries across India, many organizations of which being asset-intensive, promote a consistent asset management approach to their infrastructures and systems in overall manufacturing, production and supply chain domain to develop their own methods, standards and framework for achieving excellence in business performance.**

Although industries, in general, are aware of the potential of Asset Management for achieving excellent and all-out organizational performance, a well-trained group of personnel cutting across different functions and departments of any organization is a prime necessity in order to achieve the goal of Asset Management. IIT Kharagpur, being an internationally recognized technical institution of India with its Department of Industrial Engineering and Management having a number of experts with proven knowledge, expertise, and research capabilities in the broad field of asset management, plans to organize a Short Term Course on 'Asset Management of Engineering Systems' to provide industry professionals and researchers with valuable insights into several pertinent issues required for successful implementation of Asset Management framework at an organizational level.

**Internationally acclaimed academics, researchers and practitioners with proven knowledge, experience, and demonstrable ability in teaching, consultancy, research, and training in the field of Asset Management will deliver lectures and discuss cases in the course.**

### Objectives of the Course

The primary objectives of the course are as follows:

- i) Exposing participants to the fundamentals of asset management practices,
- ii) Building in confidence and capability amongst the participants in the application of asset management tools and techniques and mapping the

- organizational activities and problems in terms of Asset Management framework,
- iii) Providing exposure to practical problems and their solutions, through case studies and live projects in asset management,
  - iv) Enhancing the capability of the participants to identify, control and remove asset management-related problems.

### Course Contents

The course will address the following **main issues**:

- i) Present industrial situations and relevance of Asset Management
- ii) Theory and principles of Asset Management
- iii) Asset Management methodology
- iv) Tools and Techniques for Asset Management
- v) Implementation Framework for Asset Management in an organization

The following specific **topics** will be covered in the course:

**Pertinent Issues of Asset Management in Indian industries**

**Life Cycle Cost Analysis for Asset Management**

**ISO 55000 Standards: Recent Trends in Asset Management**

**Failure Mode and Effects Analysis for Specific Assets**

**Application of Lean Engineering Principles for Asset Management**

**Asset Design and Maintenance Issues**

### Course Schedule and Methods

9 am to 5 pm with 2-hour lunch break in each day.

The methods consist of lecture sessions, hands-on-exercises, discussions on cases, and live problems.

### Eligibility

Executives, engineers and researchers from manufacturing, service and government organizations including R&D units research laboratories, and technical institutions.

### Course Coordinators

#### Professor Pradip Kumar Ray

Principal Coordinator  
Department of Industrial Engineering and Management, IIT Kharagpur  
Kharagpur 721 302 West Bengal  
Tel: +91 3222 283742 (O), 283743 (R)  
+91 9434055274  
Email: [pkp@vgsom.iitkgp.ernet.in](mailto:pkp@vgsom.iitkgp.ernet.in)

#### Dr Jhareswar Maiti

Coordinator  
Department of Industrial Engineering and Management, IIT Kharagpur, India  
Kharagpur 721 302 West Bengal  
Tel: +91 3222 283750 (O), 283751 (R)  
+91 9474305050  
Email: [jhareswar.maiti@gmail.com](mailto:jhareswar.maiti@gmail.com)

### Address for Communication

All queries regarding the course may be addressed to the Principal Coordinator or the Coordinator

### Application and Fee

The course is designed to be offered for a duration of **three days**. Number of participants for the course will be limited to **thirty**. The participants will be selected on 'first-come-first-served' basis out of the eligible applicants.

The course fee is **Rs. 20,000 per participant**. Payment is to be made through bank draft drawn in favor of '**CEP-STC, IIT Kharagpur**' payable at Kharagpur. The course fee includes course materials, working lunch, and tea/coffee during lecture schedules only.

The interested applicants are requested to apply to one of the coordinators by filling in the **Registration Form** provided with this brochure.

### ACCOMMODATION

Participants have to arrange their accommodation on their own. Expenses towards travel and local hospitality are to be borne by them separately.

**REGISTRATION FORM**  
**SHORT-TERM COURSE**  
**on**  
**ASSET MANAGEMENT**  
**OF ENGINEERING SYSTEMS**  
**(February 21-23, 2014)**

1. Name: \_\_\_\_\_
2. Affiliation: \_\_\_\_\_
3. Educational Qualification:  
\_\_\_\_\_
4. Address for Correspondence:  
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\_\_\_\_\_
5. Telephone: \_\_\_\_\_
6. Mobile: \_\_\_\_\_
7. E-mail: \_\_\_\_\_
8. Bank Draft Details:  
Draft No. \_\_\_\_\_  
Date: \_\_\_\_\_  
Amount Rs. \_\_\_\_\_  
Bank: \_\_\_\_\_  
Branch: \_\_\_\_\_

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**Signature of the participant**

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**Signature of the Sponsoring  
Authority (with Seal)**