Vibration Monitoring Techniques forINDIAN INSTITUTE OF TECHNOLOGY INDORE

A SHORT TERM COURSE

ON

Vibration Monitoring Techniques for Machinery Fault Diagnosis

(18-19 March 2019)

Registration Form

Name:

Designation:

Gender:

E-mail id:

Phone/Mobile No.:

Highest Qualification:

Do you require accommodation: Yes/No

Institution/Organization:

Address:

Areas of Interest:

Payment details (DD in favor of ***Registrar, IIT Indore*****)**

Demand draft/ Web ref. no._____

Dated_____ Bank_____

Amount in Rs._____ drawn at_____

Signature of the applicant with date

COURSE FEE*

Rs. 12,000 (for industry personnel)
Rs. 8,000 (for faculty and scientists)
Rs. 4,000 (for students)

The course fee includes course materials and lunch.
*including service tax.

MODE OF PAYMENT

Through demand draft drawn in favor of ***Registrar, IIT Indore*** or through online payment/ bank transfer.

For Online payment/ Bank Transfer

Bank Name: Canara bank
Branch: IIT Indore, Khandwa Road, Simrol, Indore
Account number: 1476101027440
IFS Code: CNRB0006223

NUMBER OF SEATS: Limited

IMPORTANT DATES

The soft copy of completely filled registration form (along with the DD/ Online payment slip for the course fee) should be sent to the following email ID on or before 10th March 2019.

Address for correspondence

Dr. Pavan Kumar Kankar
Associate Professor
Mechanical Engineering Discipline
Indian Institute of Technology Indore
Khandwa Road, Simrol, Indore, MP.
E-mail: pkankar@iiti.ac.in

Course Coordinators

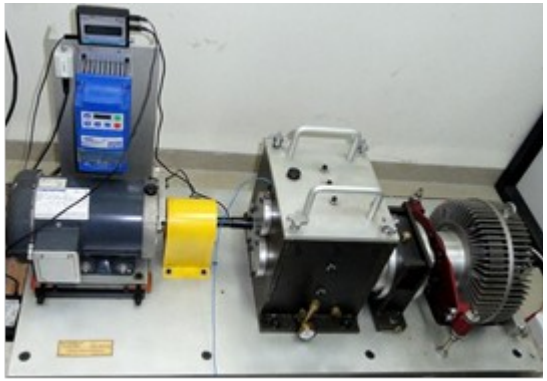
Dr. Pavan Kumar Kankar, IIT Indore
Contact: 07324-306517, 9425807612
Email: pkankar@iiti.ac.in
Prof. Anand Parey, IIT Indore
Contact: 07324-306512, 9425053943
Email: anandp@iiti.ac.in

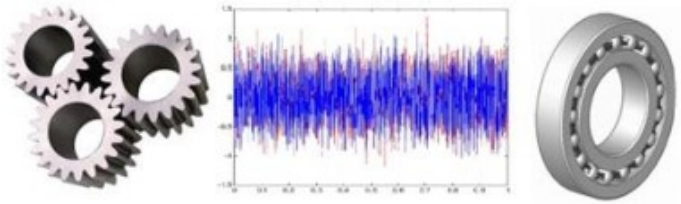
A SHORT TERM COURSE

ON

Vibration Monitoring Techniques for Machinery Fault Diagnosis

(18-19 March 2019)





Discipline of Mechanical Engineering

INDIAN INSTITUTE OF TECHNOLOGY INDORE

ABOUT THE COURSE

One of the goals of maintenance engineer is to determine what needs to be repaired and schedule maintenance activity accordingly. Industrial systems like compressors, pumps, gears, bearings etc. are very common. Failure of these systems/ sub-systems causes huge monitory losses. Condition monitoring can help in preventing the catastrophic failure of these systems thereby saving down-time and monitory losses.

Vibration monitoring is most widely used technique for fault diagnosis of machines. Acoustic emission, wear debris analysis, thermography etc. are some other techniques for condition. This short-term course is aimed at providing the state-of–the-art knowledge to the participants condition based maintenance of industrial systems using vibration monitoring technique. Participants will be given an opportunity to explore some of the equipments and facilities available at IIT Indore in the field of condition based maintenance.

OBJECTIVES

This short-term course is aimed at providing the sound fundamental knowledge to the participants on above-mentioned various aspects of industrial systems and complementing it with intensive training/ demonstration and hands-on sessions on some of the state-of-art equipments and facilities available at IIT Indore.

COURSE CONTENTS

The lectures will cover following topics:

- Condition Based Maintenance (CBM)
- Basics of Vibration
- Vibration monitoring techniques
- Measurement of Vibration
- Signal Processing of vibration signals
- Fault diagnosis of Bearings and Gears

TRAINING/DEMONSTRATION AND HANDS-ON SESSIONS

Hands-on sessions will be conducted on bearing and gear fault diagnosis simulator.

WHO SHOULD ATTEND?

- Condition monitoring Engineer/ Maintenance Engineer/ Manager/ Supervisor
- Professionals working in R&D organizations
- Faculty from Engineering/ Polytechnic colleges
- Research scholars, post graduate and undergraduate students working in the field of noise, vibration and condition based maintenance