TEQIP-III Sponsored Short Term Course on
Noise and Vibration based Condition Monitoring
(12-14 June 2019)

Course Coordinators
Dr. Pavan Kumar Kankar
Dr. Anand Parey

About this Course
One of the goals of maintenance engineer is to determine what needs to be repaired and when. Rotating machines like compressors, pumps, gears etc. are very common in any industry. Failure of these rotating machines causes huge monetary losses. Condition monitoring of rotating machines can help in preventing the catastrophic failure of these machines thereby saving down-time and monetary losses. Noise and vibration monitoring are two most widely used techniques for fault diagnosis of rotating machines. Acoustic emission, wear debris analysis, thermography etc. are some other techniques for condition monitoring of rotating machines. This short-term course is aimed at providing the state-of-the-art knowledge to the participants on above-mentioned aspects of condition monitoring of rotating machines. Participants will be given an opportunity to explore some of the equipment and facilities available at IIT Indore in the field of condition monitoring.

COURSE CONTENTS:
The lectures will cover following topics:
- Basics of Condition Monitoring
- Basics of Vibration
- Basics of Noise
- Measurement of Noise and Vibration
- Frequency Analysis (Detection and classification of faults).
- Condition monitoring of gears and bearings

Training/Demonstration and Hands-on Sessions: A hands-on sessions of total 3 hours duration 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 monitoring.
REGISTRATION FEE:
There will not be any registration fees, accommodation, food charges for TEQIP participants but they shall take care of travel expenses. All TEQIP participants must be nominated by their parent institute. Registration fee for other participants is given below:

- Rs. 15,000 (for industry personnel)
- Rs. 10,000 (for faculty members)
- Rs. 5,000 (for students)

*Including service tax @ 18%

The course fee includes study material, breakfast, lunch, and tea for the entire course duration.

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

ACCOMMODATION: Accommodation can be arranged, if required, in hostel at Rs.250 per day subject to the availability. Limited seats are available. Participants will be selected on first-come-first serve basis. Please send request for hostel accommodation to the course coordinator.

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 e-mail ID on or before 05 June 2019.

Address for correspondence
Dr. Anand Parey, Professor
Mechanical Engineering Discipline
Indian Institute of Technology Indore
Khandwa Road, Simrol, Indore, MP.
E-mail: anandp@iiti.ac.in
Phone: 09425053943(M)

REGISTRATION FORM

Name:
Designation:
Institution/Organization:
Address:
E-mail id:
Phone/Mobile No.:
Accommodation Required: Yes / No

Payment details
Cheque / Demand Draft no. _________ dated__________
bank________________________amount in Rs. ____________ drawn at__________

Signature of the applicant with date

Signature with seal

Nominating Authority (for TEQIP participants)