

**Two days Course  
on  
Mechanical Vibrations**

**REGISTRATION FORM**

Name: .....

Designation: .....

Institution: .....

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Address for Correspondence: .....

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Pin Code: .....

Mobile No: .....

email ID: .....

**PAYMENT DETAILS**

Amount: .....

DD No: .....

Date: .....

Name of the Bank & branch

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Demand Draft drawn in favour of **"The Director, AU-FRG  
Institute for CAD/CAM, Anna University, Chennai"**

Date: Signature

**Venue: AU FRG Institute for CAD/CAM  
Anna University**

AU-FRG Institute for CAD/CAM, a premier centre of Anna University, conducts high quality training programmes for the benefit of working engineers and engineering graduates and takes up consultancy works for Industries in the fields of CAD/CAM/CAE. The Institute also offers services to the needs of Indian Industries in CAD/CAM/CAE areas to enable them to become global players. It also offers a part time PG programme on Product Design and Development for the benefit of working professionals. The Institute provides consultancy to industries in large, medium and small scale sectors, besides R&D organization and government sector organizations, to small and medium sector companies like Automobile Manufacturers as well as Automotive ancillary parts manufacturers and consumer product industries etc.

The Institute is equipped with the latest version of CAD/CAM/CAE Software tools with matching hardware facilities. In addition, the institute has two Rapid Prototyping machines to enable form and fitment testing of new products by 3D printing objects directly from the CAD model.

**Course Schedule**

**DAY 1:**

08:30am - 09:00am	Registration
09:00am - 10:30am	Inauguration & Introduction
10:30am - 11:00am	Tea break
11:00am - 12:30pm	Free Vibration
12:30pm - 01:30pm	Lunch
01:30pm - 03:00pm	Forced Vibrations
03:00pm - 03:30pm	Tea break
03:30pm - 05:00pm	Isolators and Instrumentation

**DAY 2:**

09:00am - 10:30am	Two & Multi dof Vibration Systems
09:30am - 11:00am	Tea break
11:00am - 12:30pm	Numerical Techniques
12:30pm - 1:30pm	Lunch
01:30pm - 3:00pm	Case Studies
3:00pm - 3:30pm	Tea break
03:30pm - 5:00pm	Quiz and Valedictory

## ABOUT THE COURSE

All mechanical systems consist of structural components which have distributed mass and elasticity. Most of such machines have reciprocating or rotating parts which induce vibrations. Such vibrations may be undesirable in most applications as it tends to produce increased stresses and energy losses, cause added wear, increase bearing loads, induce fatigue, create passenger discomfort in vehicles, and absorb energy from the system. The control of vibration is only possible by measuring it or by predicting the behavior of the system by numerical techniques during the early design stage itself. Seismic qualification for most products is being made mandatory.

Hence, understanding of vibrations is very important for engineers to enable them to bring out durable quality products. This course attempts to refresh the fundamentals of mechanical vibration, its measurement and control. Modal analysis and harmonic analysis using software will also be introduced.

## Resource Persons

Faculty members from Premier academic institutions and industry will deliver lectures and share their expertise.

## CONTACT

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## REGISTRATION FEE

U.G/P.G Students & Research Scholars : Rs.500/-  
Faculty Members : Rs.1000/-  
Industry : Rs.2000/-

Maximum No. of Attendees restricted to 30  
Registration on First come First Serve basis

## IMPORTANT DATES

Last date for registration: 10<sup>th</sup> October 2016

Registration charges include workshop materials, lunch and tea. Participants are requested to send their filled in registration form

## WHO SHOULD ATTEND

- Students pursuing Masters Programme in Engineering Design, CAD/CAM, CAD, CIM, PDD, Automobile & Production. Faculty & Research Scholars.
- Faculty members to update their knowledge in Mechanical Vibrations
- Industry participants.

## Two Days Course on Mechanical Vibrations

21<sup>st</sup> & 22<sup>nd</sup> October, 2016

*Organized by*



**AU FRG INSTITUTE FOR CAD/CAM**

**Dept of Mechanical Engineering**

**College of Engineering Guindy**

**ANNA UNIVERSITY**

**CHENNAI 600 025**