

SHORT TERM COURSE

on

**Introduction to AutoCAD, 3D Modeling
and Dynamic Analysis of Mechanical
Systems for Condition Monitoring**

(MDMSCM-2013)

9th July – 12th July, 2013



ORGANISED BY

**DEPARTMENT
OF
MECHANICAL ENGINEERING**

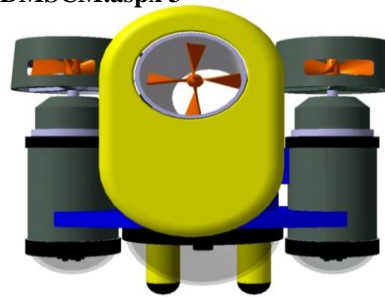
**NATIONAL INSTITUTE
OF
TECHNOLOGY**

ROURKELA - 769008, INDIA

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❖ Bank Transaction Details:

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INTRODUCTION

Now a days Auto CAD and 3D Modeling are the essential tools in all Engineering applications. Basic knowledge on these tools are very much required for higher studies in Under Graduate , Post Graduate and Ph. D. level. For Finite Element Analysis knowledge on 2D and 3D modeling is an integral part. Condition Monitoring heavily depended upon field data and robust CAD model and subsequent Numerical and Experimental Analysis. Artificial Intelligence (AI) technique is very much required for predicting the damage in the Dynamic System during condition monitoring. The course intent to deliver Basics on Auto CAD 2D modeling, 3D Modeling, ANSYS Finite Element Analysis and knowledge on various AI Techniques for condition monitoring of Dynamic Systems.

THEMES

The seminar MDMSCM-2013 will focus on current AutoCAD 2D modeling, 3D Modeling and Dynamic Analysis of Mechanical Systems for Condition Monitoring including the following themes with 30 hours of lectures and class assignments.

- Auto CAD
- FE Analysis
- ANSYS
- Introduction to Artificial Intelligence (AI) Technique
- Analysis of Vibration signatures of dynamic structures
- 3 D Modeling
- CATIA Modeling
- Matlab Tools
- Condition Monitoring using AI Technique
- Sensors used for condition monitoring
- Introduction to composite structures

VENUE

Rourkela is a major hub of industrial activities in Eastern India, with cluster of Steel Industries. The city also hosts the Software Technology Park of India (STPI). Rourkela en routes Calcutta (Howrah) – Mumbai main line of South Eastern railway. The Rourkela railway station and intrastate bus stop are 6 kms and 2 kms from NIT Rourkela respectively. The climate at Rourkela during July will be pleasant with temperature ranging from 22°C to 35°C.

ACCOMMODATION

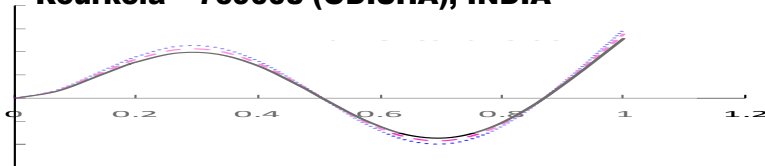
A limited number of rooms with shared accommodations are available in Halls, North and South Guest House of the institute. A good number of hotels are also available in the city with tariff ranging from Rs 0/- (NIL for Halls) Rs.300/- (GH) per day respectively. The confirmed accommodation for the delegates can be arranged by the organizing committee members either in the institute guest house and / or in halls on request accompanied with advance charge in the form of D.D.

REGISTRATION FEE STRUCTURE

- Industry delegates Rs.6000/-
- Delegates from R&D and Academic Institutions Rs. 6000/-
- Bona fide Student/Research Scholar delegates Rs.5000/- and Rs 3500/- (No Accommodation and food) and Rs. 300/- for NIT Rourkela Students
- Delegates from outside India €200 or US \$ 300
- Last date of Registration 6th July 2013.

Mailing Address

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Registration Form for Delegates

Name: -----

Address: -----

Mobile/Phone: -----

E-mail: -----

Gender : -----

Accommodation Required: Yes No

(If yes, Institute Guest House or Hotel):

Details of total amount of registration fee & accommodation charges: -----

D.D. No: -----

Amount ----- Date -----

Date:

Signature