

**Short Term Course  
on  
Application of 2D and 3D Modeling in  
the Field of Mechatronics and Robotics**

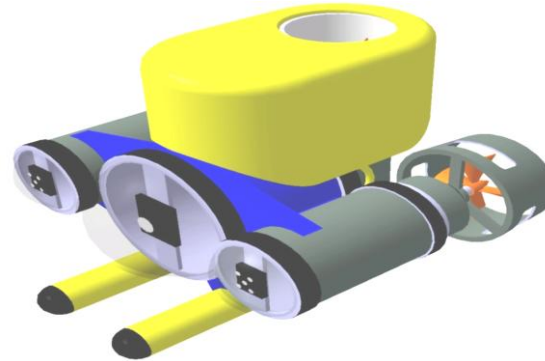
**(AMFMR-2013)**

9<sup>th</sup> August – 11<sup>th</sup> August, 2013



**ORGANISED BY  
DEPARTMENT  
OF  
MECHANICAL ENGINEERING  
NATIONAL INSTITUTE  
OF  
TECHNOLOGY**

**ROURKELA - 769008, INDIA**



**CONTACT ADDRESS**

**Dr. Dayal R. Parhi  
Course Coordinator, AMFMR-2013,  
Department of Mechanical Engineering,  
National Institute of Technology,  
Rourkela – 769008 (ODISHA), INDIA**

**Phone : 0661-2462514 (O)**

**: 0661-2463514 (R)**

**Cell : 09861067309**

**Fax : 0661-2472926, 2462022**

**E-mail : [amfmr2013@gmail.com](mailto:amfmr2013@gmail.com)**

**: [drkparhi@nitrrkl.ac.in](mailto:drkparhi@nitrrkl.ac.in)**

**Please visit our website listed below:  
<http://nitrrkl.ac.in/Academic/1Department/ME/CEP/AMFMR.aspx>**

**\* Bank Transaction Details:**

**The D.D. from any nationalized bank  
should be drawn in favour of  
“Continuing Education NIT Rourkela”  
payable at SBI, NIT Campus Branch,  
Rourkela, India. (Code-2109)**

**Short Term Course  
on  
Application of 2D and 3D Modeling in  
the Field of Mechatronics and Robotics**

**(AMFMR-2013)**

9<sup>th</sup> August – 11<sup>th</sup> August, 2013

*Last date of registration 7<sup>th</sup> August 2013*



**ORGANISED BY  
DEPARTMENT  
OF  
MECHANICAL ENGINEERING  
NATIONAL INSTITUTE  
OF  
TECHNOLOGY**

**ROURKELA - 769008, INDIA**

## INTRODUCTION

Recent developments in mechatronics, robotics and nanotechnology expand their application fields. The evolution of mechatronics and robotic systems require superior functions with advanced control. Recently, their structures and mechanism become more complex. As each element constructing the complex mechanical system becomes miniaturized, it requires much more advanced functions and higher reliability, especially in organic combination of multiple miniaturized actuators and sensors to perform complex motions. Micro/Nano technologies are becoming key and crucial to improve system performance. It is important to promote the research works on theory and applications based on analysis and synthesis from the micro level to the Nano level engineering problems. Micro/Nano robotics is important research field for future Robotics and automation. Micro/Nano technologies are expected to be applied in a number of fields, such as industrial, medical, bio-engineering, and service fields. The scope of the technical interests of this conference is basic technologies and key issues in robotics and mechatronics.

## THEMES

The seminar AMFMR-2013 will focus on current research trends in Robotics and Mechatronics with innovations in design and its applications in institutes and manufacturing industries including the following themes with 30 hours of lectures and class assignments.

- |                                |                           |
|--------------------------------|---------------------------|
| • Introduction to AutoCAD      | • Image Processing        |
| • Introduction to 3D Modelling | • MEMS                    |
| • Robotics                     | • Actuators               |
| • Mobile Robotics              | • Micro controllers       |
| • Humanoid Robots              | • PC 104 Industrial Board |
| • Micro Robotics               | • Sensors                 |
| • Mechatronics                 | • Soft computing          |
|                                | • Expert Systems          |

## 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 6kms and 2kms 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, with Registration fee Rs 5000 ) and 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 1000/- (No Accommodation and food) and Rs. 300/- for NIT Rourkela Students
- Delegates from outside India €200 or US \$ 300
- Last date of Registration 7<sup>th</sup> August 2013.

## Mailing Address

Dr. Dayal R. Parhi  
Course Coordinator, AMFMR -2013,  
Department of Mechanical Engineering,  
National Institute of Technology,  
Rourkela – 769008 (ODISHA), INDIA



## PROFORMA Short Term Course

on

### Application of 2D and 3D Modeling in the Field of Mechatronics and Robotics (AMFMR-2013)

9<sup>th</sup> August – 11<sup>th</sup> August, 2013

Last date of registration 7<sup>th</sup> August 2013

### 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