

**SHORT TERM COURSE
ON
MECHATRONICS
AND ROBOTICS**

(STCMR-2013)

3rd July – 6th July, 2013



ORGANISED BY

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

ROURKELA - 769008, INDIA



CONTACT ADDRESS

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Please visit our website listed below:
<http://nitrkl.ac.in/Academic/1Department/ME/CEP/STCMR.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)

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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 STCMR-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.

- Robotics
- Mobile Robotics
- Humanoid Robots
- Micro Robotics
- Mechatronics
- Pneumatics and Electro Pneumatics Systems
- Hydraulic and Electro Hydraulic System
- Image Processing
- MEMS
- Actuators
- Micro controllers
- PC 104 Industrial Board
- Sensors
- 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) 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 1st July 2013.

Mailing Address

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PROFORMA SHORT TERM COURSE ON MECHATRONICS AND ROBOTICS STCMR-2013



3rd July – 6th July, 2013

Last date of registration 1st July 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