

## **NIT Rourkela**

NIT Rourkela is a premier centre for teaching, research and industrial consultancy in the country. At present, the institute has 21 departments and the campus is situated in lush green zone with beautiful hills and ponds. The institute offers B.Tech, M.Tech and Ph.D. programmes in all the disciplines. The city of Rourkela has a German sponsored public sector undertaking steel plant SAIL along with many supporting small scale industries around it.

### **Mechanical Engineering Department**

As an oldest Department in the institute, the Department strives to train the students in Mechanical Science as well as those under interdisciplinary programs. The broad areas of interest in the Department include Mechanics of Solids and Stress Analysis, Dynamics and vibrations, Manufacturing Science & Industrial Engineering, Energy Conversion and Power Systems, Heat Transfer and Fluid Mechanics, in addition to Engineering Design and cryogenics. Department offers four streams of post graduate programmes: (i) Machine Design and Analysis (ii) Production Engineering (iii) Thermal Engineering and (iv) Industrial Cryogenics

### **Objective of the workshop**

Modern manufacturing industries make use of computers for programming numerically controlled machines and robots. The level of automation has drastically increased over the last two decades. Various new manufacturing operations have originated due to developments in laser and ultrasonic technologies. In order to avoid high cost experiments, it is common to use some modeling tools. Performing experiments

identifying most influencing variables and developing regression models relating outputs with some input parameters is most common practice. In recent years, due to enormous developments in numerical modeling, every machining operation is analyzed with tools such as finite element/finite difference methods. Inserting nonlinearity in modeling and contact analysis studies drastically raised the practicality of the operations. In this regard, this one-day workshop discusses various developments in dynamic modeling of production operations. Invited lectures are arranged from eminent people in this area.

### **The Workshop Topics/Themes**

Researchers all over are requested to share their contributions in the following areas:

- Dynamic modelling of machining operations such as turning, boring, milling etc.
- Finite element modelling of machining and joining operations.
- Thermal and flow analysis in casting, welding and forming operations.
- Any other topic relevant to modelling and analysis of production operations.

The workshop invites the researchers, industry professionals and students to submit their original and unpublished work on above themes. An extended abstract in MS Word in 300 words with authors' name, affiliations, and e-mail/phone numbers should be mailed to [ddnmpp2017@gmail.com](mailto:ddnmpp2017@gmail.com) with subject title as extended abstract submission. All the accepted papers will be published in the workshop proceedings.

### **Important Dates**

Extended abstract : 31<sup>st</sup> July 2017  
Full length paper : 20<sup>th</sup> August 2017

## **National Workshop on “Developments in Dynamic & Numerical Modeling of Production Processes”**

**(DDNMPP-2017)**

**9<sup>th</sup> September 2017**

**Organized by**

**DEPARTMENT OF MECHANICAL  
ENGINEERING**



**NATIONAL INSTITUTE OF  
TECHNOLOGY  
ROURKELA-769 008, ODISHA  
<http://www.nitrkl.ac.in>**

**National Workshop on  
'Developments in Dynamic &  
Numerical Modeling of  
Production Processes'**

**(DDNMPP-2017)  
9<sup>th</sup> September 2017**

**Registration form**

(It may be printed on A4 size paper)

1. Name:.....
2. Designation:.....
3. Department:.....
4. Institution/Organization:.....
5. Address:.....  
.....  
.....
6. E-mail Address:.....  
Mobile/Tel Ph.: .....
7. Areas of Research  
interests:.....  
.....  
.....
8. Accommodation wanted: Yes/No

Date  
Signature

**Organizing Committee**

**Patron**

Prof. Amitesh Biswas, Director,  
NIT Rourkela

**Advisory Committee**

Prof. Surjya K.Pal, IIT Kharagpur  
Prof. Sanjay Kumar Jha, BIT Mesra

**Departmental Committee**

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Prof.M.K. Moharana, NIT-Rourkela  
Prof.S.Gangopadyay, NIT-Rourkela  
Prof.S.Ambaresu, NIT Rourkela

**Registration Fee**

Student/Research Scholars	Rs.1000
Faculty from academics	:Rs.1500
R&D/Industry Delegates	Rs.2000

All payments should be made through NEFT transfer to A/c No: 36734418111, on the name of 'Conference NIT Rourkela' payable at NIT Rourkela SBI (IFSC code: SBIN0002109). No cash transactions are allowed.

**Accommodation**

Accommodation will be provided on pre-request in the institute guest house. It is purely first come-first serve basis. Other than institute guest house, many hotels are available at Rourkela. Institute is located at a distance of 10 Km away from railway station; auto fare is Rs100. For accommodation at institute guest house, please contact the coordinators e-mail at the earliest.

**Contact Details**

Convenor  
Prof.J.Srinivas

Co-Convenor  
Prof S.K.Behera

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NIT-Rourkela

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