

## One Week Workshop

on

# Finite Element Structural Analysis using ANSYS

[May, 20-25, 2019]

### Coordinator

Dr. Vineet Sahoo  
Dr. Deepak Kumar  
Dr. Vishesh Ranjan Kar



Organized by:

**Department of Mechanical Engineering**  
*National Institute of Technology*  
*Jamshedpur, Jamshedpur*



## Organizing Committee:

Patron:	Prof. Karunesh Kumar Shukla Director NIT, Jamshedpur
Chairperson:	Prof. Mani Kant Paswan HOD, MED, NIT Jamshedpur
Coordinators:	Dr. Vineet Sahoo, MED, NIT Jamshedpur Dr. Deepak Kumar, MED, NIT Jamshedpur Dr. Vishesh Rn Kar, MED, NIT Jamshedpur

## Advisory Committee

Prof. Hari Narayan Singh, MED, NIT Jamshedpur  
Prof. Mritunjay Kumar Sinha, MED, NIT Jamshedpur  
Prof. Prabha Chand, MED, NIT Jamshedpur  
Prof. Ram Vinoy Sharma, MED, NIT Jamshedpur  
Prof. Sanjay, MED, NIT Jamshedpur  
Prof. ShalendraKumar, MED, NIT Jamshedpur

## Resource Persons

Mr. Binu Kumar, Scientific Officer, BARC, Mumbai  
Mr. Tushar Jadhav, Developer, ANSYS Ltd., Pune  
Prof. Karunesh Kumar Shukla, Director, NIT Jamshedpur  
Prof. Shalendra Kumar, MED, NIT Jamshedpur  
Dr. Deepak Kumar, MED, NIT Jamshedpur  
Dr. Vineet Sahoo, MED, NIT Jamshedpur  
Dr. Vishesh Ranjan Kar, MED, NIT Jamshedpur

## For

Students (UG/PG/Ph.D.), faculty members of  
Science/Engineering, Industry personnel and  
Scientists.

## Important dates

Registration/Payment Closes on : 07.05.2019  
Acceptance : 15.05.2019

## Notes:

- Registration fee is non-refundable.
- No TA/DA will be provided for attending the course.

Registration Form

# Finite Element Structural Analysis using ANSYS [May, 20-25, 2019]

Name: .....

Designation: .....

Department: .....

Institute: .....

Address: .....

Email: .....

Phone No: .....

Mobile Nos: .....

Qualification: .....

Area of specialization: .....

## Details:

Amount in Rs.....

Transaction ID (in case of online transfer).....

Date of Transaction.....

(Please enclose transaction slip) Sponsored  
by.....

Name.....

Designation.....

Organization.....

Signature of applicant

Recommendation

Signature of Head of the Institution/ Head of the  
Department with seal)

### About Institute and Jamshedpur

National Institute of Technology Jamshedpur was originally founded as Regional Institute of Technology in 1960. It was upgraded to National Institute of Technology on 27th December 2002, with the status of Deemed University. It is now totally under the control of Ministry of Human Resources Development (MHRD), Government of India, New Delhi, since April 2003. The institute offers B.Tech, M.Tech., Ph.D., M.C.A., and M.Sc. degrees in various disciplines of Engineering, Sciences, Management and Humanities.

### About the Department

The Department of Mechanical Engineering offers an undergraduate program in Mechanical Engineering and postgraduate programs in Computer Integrated Design and Manufacturing, Thermal Engineering and Energy System Engineering and PhD program in various research areas. The department also runs three year certificate course in Mechanical Engineering for the employees of Tata Steel under Continuing Education Program. The Department has experienced faculty and well-established laboratories to meet the requirement of UG, PG and PhD students

### Objectives of the Course

These days, Modeling and Simulation of any mechanical component has become an inherent part of design for automotive, aerospace, manufacturing industries. The huge competition in the market puts tremendous pressure on the industries to launch reasonably priced products in short time, making them to rely more on virtual tools (CAD/CAE) to accelerate the design and development of products. The results of FE simulation are so accurate that FE simulations have replaced physical experiments. The Objective of this course is to introduce finite element method to scientists and engineers so that they are equipped to solve various problems of engineering, sciences and industries. The course is best suited to young teachers, researchers and Research and Development executives and will be very useful to those who do FEA based numerical simulations using commercial software package ANSYS. A background of engineering/applied

sciences is necessary for the understanding of the materials covered in this course. Through this course, the participants will get a thorough idea of the FEM starting from the fundamental concepts to more advanced topics. Specific emphasis will be given to problems of thermal and structural mechanics. term course will include lectures, Lab visits and conduct of experiments.

### Short term course topics:

- Introduction to FEM
- Practical insights
- Structural Analysis
- Model Analysis
- Transient Analysis
- Composite Structure analysis

### Faculty

Experts in the area of Solid Mechanics, FEM will be invited from NIT Jamshedpur primarily, as well as Research Institute and, industries and other reputed institutions.

**Number of seats:** 50

**Accommodation:** The participants may be provided accommodation in the institute hostels **depending on the availability and on a nominal payment basis as per actual on First-cum-First Serve Basis.** Accommodation can also be booked in nearby hotels directly or through prior information to organizers.

### Registration Fee:

Students (UG/PG/Ph.D.): Rs. 4000  
Faculty from Science/Engineering: Rs. 6000  
Industry persons/Scientists: Rs. 8000

**Registration fees includes:** Program kit, lunch, & tea

Registration Link:

<https://goo.gl/forms/RMVjaGpP8eITNj432>

- To avoid postal delay, it is advised to send scanned copy of duly signed registration form and transaction receipt by email.

- If registration is done by online, then send scanned copy of transaction slip by email.

Offline Registration form and scan copy of transaction slip can be sent on the following email id:

[stc\\_mech@nitjsr.ac.in](mailto:stc_mech@nitjsr.ac.in)

### Mode of payment:

Participants can make payment by depositing the registration fee online in

Account No. 37963459091 (Current Account)

Account Name: RIDFM-2018

Bank: SBI, RIT Jamshedpur

Branch Code: 001882;

MICR Code: 831002004;

IFSC Code: SBIN0001882

*Spot payment is also admissible but only after prior approval from the organizers.*

### Address for correspondence:

Dr. Vineet Sahoo  
Mechanical Engineering Department  
NIT Jamshedpur-831014  
Mob:8348502799  
Email: [vsahoo.me@nitjsr.ac.in](mailto:vsahoo.me@nitjsr.ac.in)



Dr. Deepak Kumar  
Mechanical Engineering Department,  
NIT Jamshedpur-831014  
Phone: 09102794520  
E-mail: [deepakmit2003@gmail.com](mailto:deepakmit2003@gmail.com)



Dr. Vishesh Ranjan Kar  
Mechanical Engineering Department,  
NIT Jamshedpur-831014  
Phone: 9439569975  
E-mail: [vishesh.me@nitjsr.ac.in](mailto:vishesh.me@nitjsr.ac.in)

