

**TEQIP -III Sponsored One Week Short
Term Course**

on

MACHINES AND MECHANISM

[June 17-22, 2019]

Co-ordinators

Dr. Vijay Kumar Dalla
Dr. Bipin Kumar
Dr. Satish Kumar



Organized by:

Department of Mechanical Engineering
National Institute of Technology
Jamshedpur, Jamshedpur



Organizing Committee

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Dr. Bipin Kumar
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Prof. Sanjay, MED, NIT Jamshedpur
Prof. Shalendra Kumar, MED, NIT Jamshedpur

Resource Persons

The speakers will be drawn from IITs and other reputed organizations. Some speakers will be from National Institute of Technology Jamshedpur.

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

Important dates:

Registration/Payment Closes on: 03.06.2019

Acceptance: 05.06.2019

Notes:

- Registration fee is non-refundable.
- Lunch will be provided.
- No TA/DA will be provided for attending the course.
- To avoid postal delay, it is advised to send scanned copy of duly signed registration form by email.

Registration Form

MACHINES AND MECHANISM

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Name:

Designation:

Department:

Institute:

Address:

Email:

Phone No:

Mobile Nos:

Qualification:

Area of specialization:

Payment 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. Later 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., M.Sc. degrees in various disciplines of Engineering, Sciences 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

Objective

Mechanical devices are characterized by the fact that they have mobility and must move to perform their function. The kinematics and dynamics of machines is an applied field of mechanical engineering that is concerned with understanding the relationship between the geometry and the motions of the parts of a machine and the forces that produce this motion. The overall objective of this course is to learn how to analyze the motions of mechanisms, design mechanisms to have given motions, and analyze forces in machines. This includes relative motion analysis and design of gears, gear trains, cams, and linkages, simultaneous graphical and analytical analysis of position, velocity, and acceleration, considering static and inertial forces.

Short term course topics:

- Kinematics and Dynamics
- Robotics and Mechatronics
- Vibration
- Design of composite structure
- Structural health monitoring
- Fundamental of Finite Element Analysis.
- Gear Design
- Modal Analysis.
- Crack Analysis.
- Acoustic Analysis.
- Tribology
- Damage mechanics
- Computational Fluid Dynamics

Faculty

Experts in the area of Machines and Mechanism will be invited from NIT Jamshedpur primarily, as well as IITs, other NITs, 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:

UG/PG/PhD Students:	Rs 1000
Faculty:	Rs 3000
Industry persons/Scientists:	Rs 4000

Registration fees includes: Program kit & tea

Mode of payment: Will be intimated

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

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