ORGANIZING COMMITEE

COORDINATORS

Prof. G. S. Dangayach, Head, MED
Prof. Awadhesh Kumar Bhardwaj, MED
Dr. Amar Patnaik, Assistant Professor, MED
Dr. Harlal Singh Mali, Assistant Professor, MED
Dr. Amit Singh, Assistant Professor, MED
Dr. Dinesh Kumar, Assistant Professor, MED
Dr. Gunjan Soni, Assistant Professor, MED
Dr. M. L. Meena, Assistant Professor, MED

COMMUNICATE TO

Dr. Amar Patnaik
Assistant Professor,
Mechanical Engineering Department,
MNIT JAIPUR (Rajasthan) -302017
+91-9530146812
apatnaik.mech@mnit.ac.in
www.mnit.ac.in

Note: All the correspondence regarding program shall be made through email only.

IMPORTANT DTAES

Registration closes: 12th May 2017
Notification of Selection: 14th May 2017
Commencement of program: 22nd May 2017

MISSION STATEMENT

"To achieve and sustain technology in order to produce leading entrepreneurs and innovators in the field of Mechanical Engineering"

ELIGIBILITY

Aspiring student of **B. Tech/ M. Tech / Ph.D** in Mechanical/Automobile/Aeronautical/Materials/Polymer Engineering etc can apply for program. Entries from interested **final year polytechnic students** can also be considered.

REGISTARTION FEE

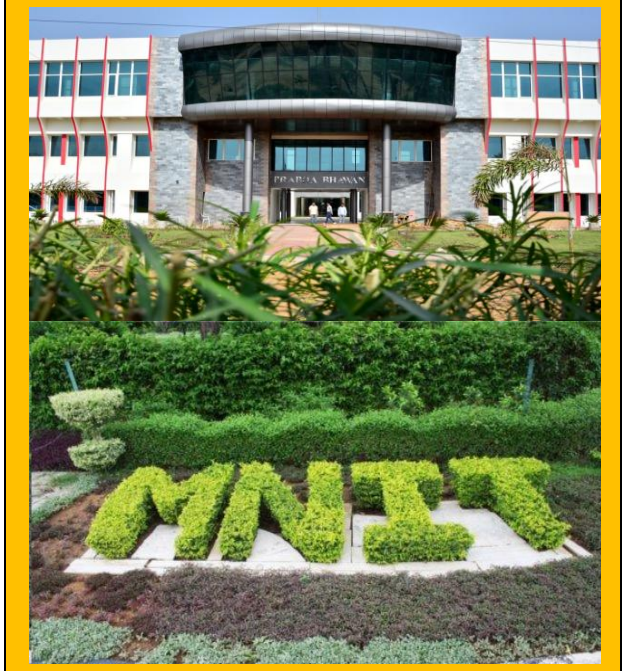
The registration fee for B.Tech Rs. 7500/-
M.Tech/ Ph.D Rs. 20,000/-
and for polytechnic students Rs. 7500/-
is to be paid through **demand draft drawn in favour of "Registrar, MNIT Jaipur" payable at JAIPUR.**
Registration fee includes the following:-

- Program Kit
- Study Material

ACCOMODATION

Limited accommodation will be arranged for the students in the Boys and Girls hostels on payment basis as per Institute norms.

Summer Internship Program In "Computational and Experimental Analysis in Industrial Applications in Mechanical Engineering" (May 22nd -July 5th, 2017)



ORGANIZED BY:

MECHANICAL ENGINEERING DEPARTMENT
MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR
(RAJASTHAN)-302017
(www.mnit.ac.in)

Scope & Objectives

Summer Internship Program (SIP) is an additional part of the course curriculum for the students of B.Tech and M.Tech in Mechanical Engineering and other engineering disciplines. This is a great opportunity for you to gain experience of research, develop project management skills, enhance your CV – and earn more knowledge in real Industrial problems. Internships run for six weeks through the summer.

Students are allocated self-contained projects by academic supervisors, spanning a broad range of subject areas and feeding directly into current research and teaching activities. During the SIP, each student is assigned to handle the various equipments and machines available in the laboratory. This course will be introductory in nature addressing the fundamental understanding as well as the applications of composite materials.

Venue of the Program

Malaviya National Institute of Technology Jaipur (earlier MREC) is one of the NITs established in Jaipur known as Pink City. The institute is actively engaged in research, consultancy and developmental activities besides imparting regular teaching. Mechanical engineering department started functioning in 1963 at the inception of the institute. The department offers a four-year course leading to the Bachelor's Degree in Mechanical Engineering as well as four full and part-time postgraduate programmes in Industrial Engineering, Production Engineering, Design Engineering and Thermal Engineering. The Department also offers Ph. D programme in various specializations of the Mechanical Engineering.

COURSE CONTENTS

Fundamentals of Tribology

1. Fabrication and Development of Polymer/Metal alloy composites
2. Friction, Wear, Lubrication, importance of tribology,
3. Basic characteristics of contact surfaces, Friction: causes of friction in mechanical systems

Using Hyper-Mesh

1. To introduce the basics of Hyper-Mesh and its features.
2. To perform bending analysis of simply supported beam under uniformly distributed load using Hyper-Mesh.

Instrumentation and Robotics

1. Introduction to Industrial Robotics
2. Introduction to Industrial Automation and Control
3. Pressure and Force measurements
4. Introduction to sensors and measurement systems

Advance Manufcaturing Process

1. Conventional & Non-conventional Machinability Studies for different materials for automotive & aviation components.
2. Additive and Subtractive Manufacturing for Innovative Product Development through CAD/CAM tools
3. Abrasive Flow Finishing of Difficult to Finish Components and Materials
4. Using Mechatronics for improving Products and Automating Manufacturing Processes.

Statistical tools in industry

1. Formulation of an industrial problem - Define phase of Six Sigma
2. Measurement system analysis for a Welding appraiser - Measure phase
3. Process capability analysis of a greenhouse-Measure phase.

REGISTRATION FORM

Malaviya National Institute of Technology Jaipur , Jaipur (Rajasthan)-302017

(May 22nd -5th July 2017)

Full Name:----------

Course studying:----------

Institute: ----------

Address of Correspondence:----------

Pin Code: _____ Mobile:----------

E.mail:_____

Details of Registration Fee:

Name of Bank & Branch:

DD No.: _____Dated: ----------

For Rs._____

(DD should be in favour of "Registrar, MNIT Jaipur", payable at Jaipur)

Date: **Signature of Participant**

The student is bonafied student of our institute and we recommend his/her candidature for the program.

Signature and stamp of the head of the institution

(Note: Please post your completely filled registration form)