

Registration Form
Five days' short term course on
ADVANCES IN
MANUFACTURING PROCESSES

19th -23rd March, 2018



About the Institution

The Ministry of Human Resources Development, Govt. of India established NIT Mizoram in the year 2010 in the state of Mizoram with an objective to impart Education, Research & Training leading to B.Tech, M.Tech, M.Sc & Ph.D degrees. This Institute has been declared as an Institute of National Importance by an Act of Parliament. Here the students are admitted through All India Entrance Exam-Joint Entrance Exam (JEE Main). NIT Mizoram is an Institute situated in the scenic beauty of Mizoram, wrapped between clouds and mountain rocks, which add to its beauty. Being amongst the most educated states of our country with a literacy rate of 91%, it beholds a very peaceful and calm environment suitable for studies. The Institute, to cope with the present competitive needs, comprises of laboratories with the latest equipment and installed with best & latest software.

How to Reach

Aizawl can be reached by Air via Kolkata / Guwahati. The NIT Mizoram is approximately 35 km far from Lengpui (Aizawl) Airport. Silchar is the nearest railway station to Aizawl. The journey (by road) from Silchar to Aizawl may take approx. 5 hrs. Private Buses (Network, Capital, etc.) are available from Guwahati. The journey from Guwahati to Aizawl by Bus is approx. 24 hrs.

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Organized by

Department of Mechanical Engineering
NIT Mizoram, Chaltlang, Aizawl – 796012
Mizoram, India
www.nitmz.ac.in

Technical Sponsor

TEQIP-III
National Institute of Technology Mizoram

- 1. Name.....
- 2. a) Age b) Sex: M/F.....
- 3. Present Position
- 4. Affiliation
- 5. Address for Correspondence
.....
.....
- E-mail:.....
- Phone/Mobile.....
- 6. Area(s) of Interest
- 7.a) Date and Time of Arrival
.....
- b) Date and Time of Departure
.....
- Date.....
- Place

Signature of the Applicant

Signature of the HOD/ Director

Introduction

Implementing change in the manufacturing process can be a difficult task for any organization, big or small. Therefore, computational modeling is increasingly being used in the design and optimization of manufacturing processes to produce high quality products with higher productivity and quick response to customer needs. Modeling of the complex manufacturing process is an arduous task which can be achieved via both mathematical and experimental means or the combination of these techniques. Mathematical modeling is the art of translating problems from an application area into tractable mathematical formulations whose theoretical and numerical analysis provides insight, answers, and guidance useful for the originating application. However, experimental modelling helps to determine the factors which are important for explaining a process variation as well as to represent the relationship between the inputs and the out puts of physical system.

Who can Attend

PG Students, Research scholars, faculties and Persons from Industries.

Registration Fee

Participants from NIT Mizoram.

1. UG/PG/Ph.D students : Rs. 500/-
2. Faculties : Rs. 1000/-

External Participants

1. UG/PG/Ph.D students : Rs. 1000/-
2. Faculties : Rs. 2000/-
3. Persons from Industries : Rs. 5000/-

Accommodation

Accommodation may be arranged based on request on payment basis for limited participants.

Course Contents

This course is designed to provide and insight in the recent developments in manufacturing process especially for the practicing engineers, faculties, PG and Ph. D students. In addition, the course will also provide extensive hands on training for solving problems involved in discrete production processes with real examples from machine, welding and forming shops. The sessions include lectures by experts from Premier Institutions like IITs, NITs, Central Universities and Professional from Industries. The topics covered are:

1. Introduction to advanced manufacturing process
2. Basics of numerical modeling
3. Application of FEM in manufacturing
4. Numerical modeling and simulation in,
 - Machining
 - Welding
 - Forming
 - Casting
5. Statistical methods in process modeling
6. Hands on training on the advance simulation/analysis software

How to Apply

Participants willing to attend the short term course should submit the completed Registration Form through proper channel by **March 16, 2018** to the Coordinators. Confirmation of selection would be sent to participants by E-mail.

Chairman

Prof. Rajat Gupta

Director, NIT Mizoram

Coordinators

Dr. Basil Kuriachen & Dr. Abhijit Sinha

Assistant Professor

Department of Mechanical Engineering

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Organizing Committee

Dr. Bachu Deb

Assistant Professor and HoD, ME Dept.

Dr. Bidesh Roy

Assistant Professor, ME Dept.

Dr. H. Lalhmingsanga

Assistant Professor, ME Dept.

Mr. Saurav Suman,

Trainee Teacher, ME Dept.