

ADVANCES IN MACHINING PROCESSES (AMP 2019)



Organized by
National Institute of Technology Mizoram
Chaltlang – 796012, Aizawl,
Mizoram



In association with
IIT Kharagpur
Kharagpur-721302
West Bengal

TEQIP-III

Sponsored by
Third Phase of Technical Education Quality
Improvement Program (TEQIP – III), MHRD,
Govt. of India - **(Under Twinning System)**

Preface

Machining is one of the most important among all the manufacturing processes. Parts manufactured by other processes often require to be further machined before the final application. Recent advancement in technology led to the development of ultra-hard, high strength, high temperature resistant, difficult to machine materials for the advanced industries like aerospace, automotive, marine, power plant, missile and turbine industries are being developed day by day. Machining complex shapes with dimensional accuracy on these advanced materials are extremely difficult in conventional machining methods. Hence, it necessitates the development of advanced machining processes and new concepts on improving the effectiveness of the existing conventional methods.

Course Contents

This course is designed to provide and insight in the recent developments in machining process especially for the practicing engineers, faculties, PG and Ph. D students. In addition, the course will also provide extensive training in various modelling software and case studies related to advanced machining problems. The sessions include lectures by experts from Premier Institutions like IITs, NITs, Central Universities and Professionals from Industries.

The topics covered are:

1. Introduction to Machining Processes
2. Mechanics of Machining Processes
3. Advanced Machining Processes
4. Hybrid Machining Processes
5. Processing of Advanced Materials
6. Sustainability in Machining
7. Minimum Quantity Lubrication
8. Introduction Micro/Nano Machining
9. Modelling of Machining Processes
10. Optimization Techniques

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 pre-registration and early bird request. The same would be processed purely on payment basis for limited participants (first come first serve). The participants who wish to book their stay on their conveniences, is also appreciated.

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 or 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.

How to Apply

Participants willing to attend the short-term course should submit the completed Registration Form through proper channel by **May 17, 2019** to the Coordinators. Confirmation of selection would be sent to participants by E-mail.

Who can Attend

PG Students, Research scholars and faculties with research focus in Manufacturing, Production and Design Fields (Mechanical Engineering). Consulting Engineers working in Manufacturing and Design Fields can also benefit from the program.



ORGANIZERS

Chairman

Prof. (Dr.) Rajat Gupta
Director, NIT Mizoram

Coordinators

Dr. Basil Kuriachen

&

Dr. H. Lalhmingsanga
Assistant Professors

Deptt. of Mechanical Engineering
NIT Mizoram, Aizawl-796012

E-mail: basilkuriachen@gmail.com

Mobile: +91-9947187133

Committee

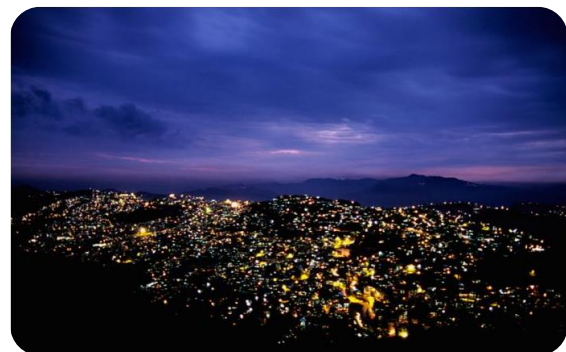
Dr. Bachu Deb

Asst. Professor and HoD, ME Deptt.

Dr. Bidesh Roy
Asst. Professor, ME Deptt.

Dr. Abhijit Sinha
Asst. Professor, ME Deptt.

Mr. Saurav Suman
Trainee Teacher, ME Deptt.



Five Days' Short-Term Course
on
ADVANCES IN MACHINING PROCESSES (AMP 2019)
(Under the aegis of TEQIP - III)
20th-24th May, 2019 at NIT Mizoram

Registration Form

1. Name of the Candidate:
2. Category: Academic / Industry / Student
3. Category of Registration: SC/ ST/ General & OBC
4. Organization:
5. Address:

6. Mobile Number:
7. E-mail:
8. Highest Academic Qualification:
9. Demand Draft Details:

Bank Draft Number:

Date:

Amount:

Drawn on:

Signature of the Candidate

Signature of the Head of the Dept. /Institution

Important Points:

- ❖ Fill in this Registration Form. Take a print out of it. Get it signed by Corresponding Authority.
- ❖ Draw DD (amount specified in brochure) in favour of “**Director, NIT Mizoram**” payable at SBI Bawngkawn, Aizawl – 796012 and send the hard copy of the filled in Registration Form along with DD to: **Dr. Basil Kuriachen, Assistant Professor, Department of Mechanical Engineering, National Institute of Technology Mizoram, Chaltlang, Aizawl, Mizoram - 796012**, Contact: +91-9947187133, E-mail: basilkuriachen@gmail.com.