

One Week Online Workshop

on

Interdisciplinary Approach of Tribology in Engineering and Biomedical Research

(Sponsored by TEQIP-III)

04-08 August, 2020

Coordinators

Dr. Rajeev Nayan Gupta
Dr. Sushant Negi

Assistant Professor, Dept. of Mechanical Engineering



Organized by



Department of Mechanical Engineering
National Institute of Technology Silchar
Assam-788010
(An Institute of National Importance)
www.nits.ac.in

Expected Expert Speakers

Prof. A.P Harsha	IIT(BHU) Varanasi
Prof. P.K Patowari	NIT Silchar
Dr. Mayank Tiwari	IIT Patna
Dr. Amar Patnaik	MNIT Jaipur
Dr. O.P.Khatri	CSIR-IIP Dehradun
Dr. Tej Pratap	MNNIT Allahabad
Dr. S. Halder	NIT Silchar
Dr. Subrata K. Ghosh	IIT(ISM) Dhanbad
Dr. Sumit Bhowmik	NIT Silchar
Dr. Sudip Dey	NIT Silchar

Topics to be Covered

- ❖ Fundamentals of Tribology
- ❖ Materials Tribology and its Application
- ❖ Nanotechnology in Tribology
- ❖ Biomaterials
- ❖ Wear and Friction of Engineering Materials, Composites and Biomaterials
- ❖ Tribology in Biomedical Applications
- ❖ Surface Engineering and Coating in Tribology
- ❖ Lubricants and Lubrication
- ❖ Tribology in Manufacturing Processes
- ❖ Uncertainty Quantification in Tribology

Organizing Committee

Chief Patron: Prof. Sivaji Bandyopadhyay
Director, NIT Silchar

Patron: Dr. Agnimitra Biswas, HoD, MED

Advisors: Prof. R. Gupta, Prof. K.M.Pandey,
Prof. R.D.Misra, Prof. P. K. Patowari,
Prof. K.K.Sharma

Faculty Members: Dr. K. Chakraborty, Dr. P. Choudhury, Dr. L.Roy, Dr.S.Halder, Dr. S.Debbarma, Dr. D.Bhanja, Dr. S. Bhowmik, Mr. D.H. Das, Mr. S.K. Pattanayak, Dr. S. Nath, Dr. A.B. Deoghare, Dr. S. Dey, Dr. P.R. Randive, Dr. P.D. Roy, Dr. S.R. Maity, Dr. Biplab Das, Dr. S. Pati, Dr. Y. Singh, Dr. B.Das, Dr. C.K.Sahoo, Dr.A.Paul, Dr. A Bisoi, Dr. S.Sharma, Dr. S.Kar

Who Can Apply?

This workshop is open to faculty members, scientists, industry personnel and the students including research scholars, PG and UG students of recognized technical institutions, who are interested in science of tribology and its applications in the field of engineering and biomedical research.

Registration Fee

There is **No Registration Fee** for the participants/attendees.

How to Apply?

Registration for the workshop is limited to the 100 participants only (FCFS basis). It can be done by filling the Google Registration Form using the following link:

https://docs.google.com/forms/d/e/1FAIpQLSef63wwok7gCZndXrjzn4T4qEPQxblnAxW9MhjaE33McOD2yw/viewform?usp=sf_link

Last date of registration : 01/08/2020
Confirmation to participants: 02/08/2020

Workshop platform: Workshop will be organized through *Google Meet*. The webinar link will be shared with the participants in their registered email id 24 hours before commencement of the talk.

Certification

E-Certificates will be issued to all the active attendees with minimum 75% attendance.

Contact us

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About the Course

The workshop on “Interdisciplinary Approach of Tribology in Engineering and Biomedical Research” is scheduled to be held during 04-08 August 2020. Experienced experts from IITs, NITs, CSIR labs and reputed universities are invited online to deliver their talks. This course will open up several new paths of research and applications, in the area of tribological science for PG, Ph.D. scholars, faculties, researchers and industry personnel from engineering and biomedical sectors.

Course Objectives

The workshop provides a common platform where participants will be;

- exposed to industrial aspects of their engineering curriculum and relate between theory and practices;
- understand the requirement of tribology engineering in industry;
- able to find directions for research by identifying some of the key problems.

Tentative Schedule

Inauguration: 04.08.2020 at 09:50 AM
Valedictory: 08.08.2020 at 04:30 PM onwards

Date	10:00 AM - 12 Noon		2:30 PM- 4:30 PM
04.08.2020	*L-01	L U N C H	L-02
05.08.2020	L-03		L-04
06.08.2020	L-05		L-06
07.08.2020	L-07		L-08
08.08.2020	L-09		L-10

*L: Lecture Number

REGISTRATION FORM

One Week Workshop on Interdisciplinary Approach of Tribology in Engineering and Biomedical Research

(Sponsored by TEQIP-III)

04-08 August, 2020

1. Name:
2. Designation:
3. Affiliation:
4. Mobile No.:
5. Email ID:
6. Qualification:
7. Payment details: Nil
8. Signature of the applicant:

About NIT Silchar

National Institute of Technology, Silchar is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College in Assam. In 2002, it was upgraded to the status of National Institute of Technology and was declared as Institute of National Importance under the National Institutes of Technology Act, 2007. NIT Silchar is a fully residential campus situated on the banks of river Barak and on a sprawling campus spread over 625 acres of land surrounded by scenic tea gardens on the outskirts of Silchar. NIT Silchar has secured 9th position among NITs, 46th in Engineering and 94th in Overall category in NIRF 2020 ranking.

About the Department

The Department of Mechanical Engineering is one of the oldest and finest Departments in the region. The workshops of the Department contain highly sophisticated machines presenting a unique and unparalleled quality. The Department offers a four year B. Tech Programme in Mechanical Engineering, and a two year M.Tech Programme in Thermal engineering, Design and Manufacturing, CAD-CAM and Automation, Materials and Manufacturing Technology, and PhD Programme in related research topics.