

High End Workshop
on
**Emerging trends in Material Science &
Engineering for its Applications in
Manufacturing Sector**



Funded By
**Science & Engineering Research Board
(SERB)**
under the Accelerate Vigyan Scheme

24th Jan – 30th Jan, 2023

Coordinator
Dr. Sumitra Sharma



Organized By
**Department of Mechanical Engineering
National Institute of Technology Silchar
Silchar-788010
Assam, India**
<https://www.nits.ac.in>

INTRODUCTION

Material Science and Engineering is the foundation of strategic emergence of the manufacturing industries. It plays a significant role in the high-tech revolution of the industries and it is the motivation of promoting technological progress. Every major technology development and successful development of new products is inseparable from the discovery and application of new materials. Therefore, proper understanding the properties of new materials, knowledge about their exquisite preparation and manufacturing in order to get the actual application is of utmost importance in today's emerging India.

Broad areas covered but not limited to:

1. Advances in Materials Science and Engineering
2. Materials characterization techniques and equipment
3. Materials and Manufacturing
4. Nanomaterials and Nanotechnology
5. Emerging Smart and Intelligent Materials
6. Biomaterials and Medical Device
7. Simulation and Modeling of materials

WHO CAN APPLY

PhD and PG students from various engineering as well as basic science background.

REGISTRATION & CERTIFICATION

- There is no registration fees.
- Number of participants is limited to 25. Only selected participants will be informed by email.
- Acknowledgement and acceptance of the offer by selected candidate for participation in the workshop through return email is mandatory.
- TA (as per GoI norms), stationary, accommodation and food for the participating students will be provided as per the SERB norms.
- Registration can be done by filling the online registration form (<https://forms.gle/MczCTVVaxjKhqmgA7>).
- After successful completion of the workshop, certificate will be provided to participants.

IMPORTANT DATES

- Last date for online registration: **12th January 2023**
- Date of confirmation to participants: **13th January 2023**
- Acknowledgement and acceptance of the offer by selected candidate: **15th January 2023 (on or before 05:00 pm)**



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 Silchar 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 green campus spread over 625 acres of land surrounded by scenic tea gardens on the outskirts of Silchar. NIT Silchar is a teaching and research institute which reflects in the top NIRF ranking. NIT Silchar has been ranked internationally for the very first time by the highly reputed Times Higher Education (THE) World University Ranking 2021 with a rank in the band of 801-1000. NITS ranked in band of 11-21st rank in Atal Ranking of Institutions on Innovation Achievements 2021. In 2022 NIRF ranking, NIT Silchar secured 38th rank in engineering and 76th in overall category.

ABOUT DEPARTMENT

The Department of Mechanical Engineering was established in the year of 1967 and currently offers a four year B.Tech. programme in Mechanical Engineering, 02 years M. Tech. in Thermal Engineering, Design and Manufacturing, CAD CAM and Automation, Materials and Manufacturing Technology, and Renewable Energy and Ph.D. in different fields of Mechanical Engineering..

TENTATIVE RESOURCE PERSONS

Highly qualified and experienced faculties from various reputed institutes (IITs, NITs etc.).

- Prof. P. Saha, Professor
Department of Mechanical Engineering, IIT Kharagpur
- Prof. I. A. Palani, Professor,
Department of Mechanical Engineering, IIT Indore
- Prof. Swarup Bag, Professor,
Department of Mechanical Engineering, IIT Guwahati
- Prof. S. Kanagaraj, Professor,
Department of Mechanical Engineering, IIT Guwahati
- Prof. P. K. Patowari, Professor,
Department of Mechanical Engineering, NIT Silchar
- Dr. Atul Thakur, Associate Professor
Department of Mechanical Engineering, IIT Patna
- Dr. S. Bhowmik, Associate Professor
Department of Mechanical Engineering, NIT Silchar
- Dr. Ashish B. Deoghare, Assistant Professor
Department of Mechanical Engineering, NIT Silchar
- Dr. Bipul Das, Assistant Professor
Department of Mechanical Engineering, NIT Silchar

VENUE

Seminar Room
Department of Mechanical Engineering
National Institute of Technology Silchar
Silchar, Cachar, Assam, India, 788010

CHIEF PATRON

Prof. Rajat Gupta,
Director, NIT Silchar

PATRON

Prof. Nalin B. Dev Choudhury, Dean R&C, NIT Silchar

CONVENER

Dr. Sukumar Pati, HoD, Dept. of ME

COORDINATOR

Dr. Sumitra Sharma, Assistant Professor
Dr. Yogesh Singh, Assistant Professor

ORGANIZING COMMITTEE MEMBERS

All faculty members of Department of Mechanical Engineering, NIT Silchar



CONTACT DETAILS

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Registration Form

Name of the Participant: _____

Department: _____

Gender: _____

Pursuing Degree: M.Sc./ M.Tech/ M.E / Ph.D.: _____

Organization: _____

Mobile No. _____

Email: _____

I agree to abide by the rules and the regulations governing the Workshop.

Signature of the Participant

Place:

Date:

Mr./Ms. is _____ a student of our Institution and is permitted to attend the programme.

Signature of the HoD/Supervisor and Seal

Place:

Date: