

Theme :

The scope of the workshop is to inculcate a deeper knowledge on sustainable technologies, primarily on advanced material assisted green hydrogen production and new generation solar cells along with the hands-on training on fabrication and characterization of advanced materials. The workshop is mainly aimed at the faculties of the colleges and it is also planned to include a limited participation of research scholars. The program is proposed to be held from 29th Jan to 2nd Feb 2025. This initiative aims to stimulate industry-academia collaboration in the field of material engineering, hydrogen production and new generation solar cells as the prime focus.

The program is expected to give the following outcomes

1. Trained researchers in the field of material science and engineering
2. Industry-academia research network

Important Dates

Last date for application : 15th Jan 2025

Workshop Date : 29th Jan to 2nd Feb 2025

Funded by



Resource persons :

Academia

Prof. Chinnakonda S. Gopinath, IIT Palakkad

Prof. Anil Verma, IIT Delhi

Prof. S. K. Samdarshi, CU Jharkhand

Prof. D. Mohanta, Tezpur University

Prof. Asim Roy, NIT Silchar

Dr. Phani K. Mallisetty, CSIR-CMERI

Dr. Saumya R. Mohapatra, NIT Silchar

Dr. Subhasis Panda, NIT Silchar

Dr. Abhishek Paul, NIT Silchar

Dr. Ranjith G. Nair, NIT Silchar

Industry

Dr. Sandeep Nagar, Malvern PANalytical

Mr. Subash Pai, Excel Instruments

HIGHLIGHTS

- Expert Lectures
- Hands-on Training
 - * Photocatalytic Hydrogen Production
 - * Solar Cell Fabrication and Testing
 - * X- Ray Diffraction
 - * UV-Vis -NIR Spectroscopy
 - * Photoluminescence Spectroscopy
 - * Electrochemical Workstation
 - * Physical Vapour Deposition
 - * Electrospinning
 - * Spin Coating
 - * Advanced Material Synthesis



**AMST
2025**

**INDUSTRY-ACADEMIA WORKSHOP
ON**

**AMST-2025
ADVANCED MATERIALS FOR
SUSTAINABLE TECHNOLOGIES**

(HYBRID MODE)

29TH JAN TO 2ND FEB 2025



Department of Physics
National Institute of Technology Silchar
Silchar – 788010
Assam, India

National Institute of Technology Silchar

National Institute of Technology Silchar, Assam is recognised as one of the top educational and research institute in India. The Institute was established in 1967 as a Regional Engineering College in Assam. NIT Silchar became an Institute of National Importance in 2007 under the NIT Act. It is known for its strong industry-academia collaborations, student activities, and research. It ranks 40th in engineering and 92nd overall (NIRF 2024), and 601-800 globally in The Engineering Rankings.



About the Department

The Department of Physics focuses on cutting-edge research in areas like thin films, ferroelectrics, multiferroics, solar energy materials, polymer nanocomposites, photocatalysis, energy storage devices, resistive switching devices, and theoretical physics. Supported by DST-FIST (2017) and ongoing high-value projects, including a DST-SERB-funded study on photocatalytic hydrogen production, the department hosts advanced facilities like a semiconductor characterization system, electrochemical workstation, UV-Vis-NIR spectrophotometer, sourcemeter, hybrid physical vapour deposition system, photoluminescence spectrometer, electrospinning system, spin coater and a photocatalytic reactor. The vision is to develop sustainable nanomaterials for energy, memory devices, and sensors.

Chief Patron

Prof. Dilip Kumar Baidya
Director, NIT Silchar

Patrons

Prof. Nalin B. Dev Choudhury
Dean R&C

Prof. Asim Roy

Registrar

Chairmen

Prof. Siddhartha S Dhar **Dr. Saumya R. Mohapatra**
Dean SW HOD, Dept. of Physics

Convener

Dr. Ranjith G. Nair

Co-Convener

Dr. Agnimitra Biswas

Advisory Committee

Dr. Subrat Kumar Barik

Dr. Subhasis Panda

Dr. P. Srinivasan

Dr. Susmita Rabha

Student Members

Ms. Pujita Ningthoukhongjam

Ms. Trinayana Deka

Ms. Nisha Banerjee

Mr. Kintali Manohar Prasad

Ms. Farhana Yasmin

Ms. Snigdha Patra

Ms. Priya Verma

Student Coordinators

Ms. Sarita Jena

Mr. Bibek Ranjan Mangaraj

Mr. Yamineekanta Mishra

CALL FOR PARTICIPATION :

Participants should provide all the details in the google form. The last date for filling the google form is 15th Jan 2025. The shortlisted participants will be notified along with the mode of payment.



Registration link :

<https://forms.gle/KagYRQuZqYSBxJe36>

Registration Fees:

Categories	Amount
Facultyies	1000.00
Research Scholars	500.00

Contact

Dr. Ranjith G. Nair

Convener & Associate Professor

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Scan the QR codes
for further details

