

## 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
Faculty	1000.00
Research Scholars	500.00

### Contact

**Dr. Ranjith G. Nair**

Convener & Associate Professor

Department of Physics

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Scan the QR codes  
for further details

