



राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय

NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Organizes
A Five-day Workshop and Training Program
on
**Semiconductor Fabrication, Packaging
and Testing**

22 - 26 JUNE 2026

1 KEY TOPICS

- Foundations of Semiconductor Fabrication
 - Technology and process for semiconductor devices
 - Virtual Fabrication using IntelliSense Software
- Die Preparation and Wire Bonding
 - Hands on training on diamond wafer scriber
 - Hands on training on wire bonder
- Thin Film Deposition and Device Testing
 - Demonstration of thin film deposition by sputtering
 - Hands on session on testing of Semiconductor devices



**Program Fees
Rs. 3000/-**
(which includes
Registration Fees,
Accommodation, and
Fooding charges)



2 IN-HOUSE FACILITIES

- **Equipments:** Device characterization system (4200A-SCS), Precision diamond scriber, Wire bonder, Signal Oscilloscope, etc.
- **EDA Tools:** Silvaco, Synopsys, Cadence, Hspice, ModelSim, Ansys, Vivado Design Suite, etc.
- **Softwares:** Matlab, LabVIEW, Multisim, Intellisuite, etc



3 ABOUT NIT MEGHALAYA

- An Institute of National Importance
- Dynamic Environment for quality education and Research
- State of the art Library and modern classroom & laboratories
- Interdisciplinary Research and Technology Incubation

4 TARGET PARTICIPANTS

Working in the area of Semiconductor and Microelectronics:

- Faculty/Technical Staff/Research Scholar
- Graduate Students (Diploma/B.Sc./M.Sc./B.Tech/M.Tech)

Coordinators

Dr. Pradeep K. Rathore
Head & Asst. Prof., Dept. of ECE,
NIT Meghalaya

Dr. Bibhas Manna
Asst. Prof. Dept. of ECE,
NIT Meghalaya

Dr. K. Senthilkumar
Asso. Prof., Dept. of Physics,
NIT Meghalaya

Prof. Jamil Akhtar
Visiting Prof., NIT Meghalaya
& Chief Scientist (Retd.), CEERI
Pilani

Registration Link: <https://forms.gle/p8GaHfb6y5EGhPUX7>

5 TENTATIVE LIST OF EXPERT SPEAKERS



Prof. Jamil Akhtar
Visiting Prof. (NIT Meghalaya) &
Chief Scientist, CEERI Pilani



Dr. Wasi Uddin
Head- R&D
Kaynes Semicon



Dr. Sripadaraja
Head - IntelliSense
Software, India



Mr. Kumar Priyadarshi
Founder
TechoVedas



Dr. K. Senthilkumar
Asso. Prof., Dept. of Physics
NIT Meghalaya



Dr. S. Majumdar
Asst. Prof., Dept. of ECE
NIT Meghalaya



Dr. Pradeep Rathore
Asst. Prof., Dept. of ECE
NIT Meghalaya



Dr. Jagritee Talukdar
Asst. Prof., Dept. of ECE
NIT Meghalaya



Dr. Bibhas Manna
Asst. Prof., Dept. of ECE
NIT Meghalaya

6 TENTATIVE SCHEDULE

Final Schedule of the workshop will be prepared based on the availability of the external speakers

Participants will be provided with accommodation and food in the Boys and Girls hostels of NIT Meghalaya