

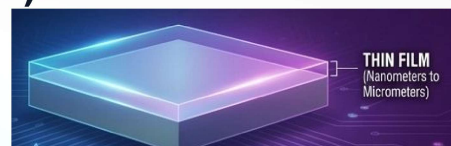
Skill Development Training on Preparation & Characterization of Advanced Functional Thin Films (PCAFTF-2026).



18-20 November, 2026 |



CSIR-IMMT, Bhubaneswar - 751013



About the program

Thin films are the cornerstone of modern technological advancements in energy harvesting, nano-electronics, optical coatings, and surface engineering. This intensive 3-day workshop is engineered specifically for Research Scholars, M.Sc. / M.Tech students, and young professionals. Participants will bridge theoretical foundations with practical expertise through direct exposure to state-of-the-art deposition systems and high-end advanced characterization tools at CSIR-IMMT.

KEY THEMATIC AREAS

* ADVANCED DEPOSITION TECHNIQUES:

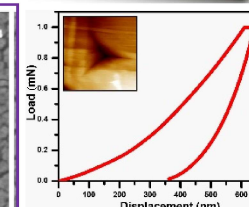
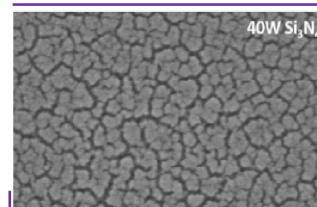
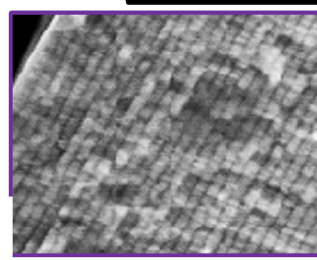
- Physical Vapor Deposition (RF/DC Magnetron Sputtering, Evaporation)
- Chemical Vapor Deposition (CVD/PECVD) & Chemical Solution Deposition
- Electrodeposition, Polymer & Thick Film Processing Methods

HIGH-END CHARACTERIZATION :

- Microstructural & Phase Analysis: XRD, Cross-sectional FESEM & TEM
- Nanomechanical & Surface Profiling: Nanoindentation & Profilometry
- Optoelectronic & Thermoelectric Evaluation: Seebeck & Electrical Transport
- Gas Sensing Analysis

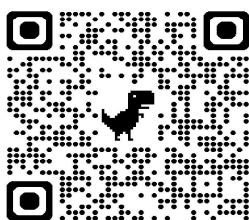
CUTTING-EDGE APPLICATIONS:

- Energy Harvesting, Photovoltaics, Protective Coatings, hard coating, anticorrosive coating & Sensors.



Lecture Sessions and Hands-on Demo

Lectures and practical sessions will be given by experts and specialists to broaden participants' understanding of advanced thin film preparation technique and its characterization



<https://forms.gle/dsA1PpF3k2zBMZkV6>

Registration Details

For M. Sc. Students/Research Professional/ PhD students: Rs. 500/
No. of Participants: 50*

*(First come First Serve basis)

Bank Details

Account Name: Industrial Research Fund Account for
Institute of Minerals and Materials Technology
Account No.: 30267734773
IFSC Code: SBIN0007499



Course Coordinator: Dr. Sharmistha Anwar, Scientist-F

Email: sharmistha.immt@csir.res.in, **Tel:** 06742379149