



Skill Development and Hands-on Training on Thin Film Coating Technologies

on 12th-14th August, 2025



Organized by

**Department of Materials Science, School of Chemistry
Madurai Kamaraj University, Madurai- 625 021, Tamil Nadu, India.**

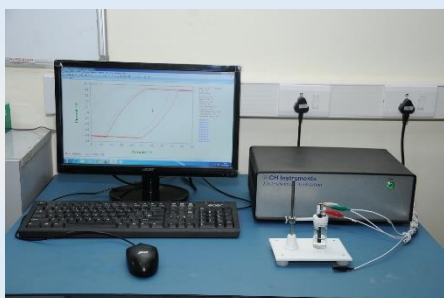
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Sputtering



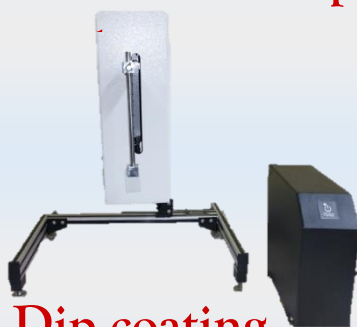
Thermal Vapor Deposition



Electro Chemical Deposition



Spin coating



Dip coating



Screen Printing

About the Program

This hands-on training program provides a practical introduction to key thin film deposition techniques such as spin coating, spray coating, dip coating, sputtering, and thermal evaporation. Participants will gain experience with equipment, processes and applications relevant to industries like electronics, materials science, solar cells, optical devices and thin-film electrochemical applications.



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Objective of the Hands-on Thin Film Technologies

- ★ Understand the principles of various thin film deposition methods.
- ★ To gain hands-on experience with coating equipment.
- ★ To develop skills for research and industrial applications.
- ★ To follow safety and operational protocols effectively.

Outcome of the Training

By the end of the training, participants will have a solid understanding of various thin film deposition techniques and their practical applications. They will be able to operate coating equipment such as spin coaters, sputtering units, electrochemical unit and thermal evaporators, and select appropriate methods based on material and substrate requirements. Trainees will also be equipped to evaluate film quality, understand safety procedures, and apply these skills in academic research or industrial settings involving electronics, optics, and advanced materials.

Madurai Kamaraj University established the **Department of Materials Science** under the School of Chemistry to promote advanced education and research in emerging areas of material technologies. Recognizing the growing importance of nanoscience, energy materials, thin films, and smart materials, the department was set up to provide focused training and interdisciplinary research opportunities. With strong support from national funding agencies like **UGC, DST, SERB, RUSA, ANRF, CMRG, DRDO and CSIR.**

Who can apply?

Final year B.Sc. and M.Sc. Students, Research scholars who are interested in Thin Film Coating Technologies can apply for this training programme.

There is **no registration fee**. The **last date to register is 07.08.2025**, and only **40 seats** are available, making early registration essential. Participants will be **notified of their selection via email on 09.08.2025**. During the program, **working lunch will be provided**, while participants are expected to **arrange their own accommodation**. Upon successful completion of the training, all attendees will be awarded a **Certificate of Participation**.

For registration:

Form link: <https://forms.gle/AXiBxdL1v6VU5txs9>

For further information please contact:

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Organizing Secretary

Skill Development and Hands-on Training on Thin Film Coating Technologies

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