

On

Nano Material Characterization, SEM, XRD, SPM, Nanoindenter, etc.

Course Code: 2301

07th – 10th October 2025

Key Takeaways

- FESEM, Confocal Microscopy, SPM (AFM/STM), Optical Profiler, Nanoindentation, XRD, Raman and FTIR Spectroscopy, Particle Size Analyzer, Surface Area Analyzer, Rheometer and Spectroscopic Ellipsometer.



CONTACT US



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About AEAMT

Centre for Skill Development, is a flagship initiative of CMTI, aims to enhance the knowledge and skills of practicing engineers, create job ready engineers to the Indian Manufacturing sector and to bridge the gap between industry and academia.

Focused Area / Objectives :

- This training covers essential techniques for advanced materials characterisation, beginning with an introduction to analytical methods, selection criteria, and applications. Course covers analytical techniques such as FESEM and EDS, confocal microscopy, SPM (AFM/STM), optical profiler, nanoindentation, XRD, Raman and FTIR spectroscopy, particle size analyzer, surface area analyzer, rheometers and spectroscopic ellipsometer. The course integrates these techniques through data correlation, live demonstration with instruments, and case studies. This comprehensive program equips participants with practical skills and theoretical knowledge for advanced materials research and applications.

Targeted Audience :

Researchers, Scientists, Metallurgists, Scientific/ Engineering Officers, Quality Managers, Laboratory Technicians, Consultants, Semiconductor Laboratories, Research Laboratories, Quality/Testing Laboratories and Analytical Laboratories.

Program Coordinator :

Mr. Murugan A is a Scientist. he has prior research experience in 2-dimensional nanostructures. Started his career at CMTI in Ultra Precision Metrology and later moved on to Advanced Materials and Characterization at Nanomanufacturing Technology Centre, NMTC. Currently he is the officer-in-charge of Nanomaterial Characterization Laboratory and laboratory-in-charge of Electron Microscopes (FESEM+FIB, HRTEM) & Sample Preparation Laboratory. He is also coordinating training courses and faculty services for "Electron Microscopy and Analysis" and "Microscopy and Analysis"

Programme Schedule :

It is a **04 days** Non - Residential Training Programme scheduled during **07th -10th October 2025**. The Programme will be held at Central Manufacturing Technology Institute, Bengaluru.

Participation Fees :

Rs. 15,600/- plus GST @ 18%***, per participant. This includes Course Kit, veg lunch, mid-session tea.

Course Fee can be paid through NEFT / RTGS / Demand Draft. Demand Draft to be drawn in favor of "Central Manufacturing Technology Institute", payable at Bengaluru and should reach CMTI one week before the actual date of commencement of the course

Beneficiary for RTGS/NEFT

a) Name	: Central Manufacturing Technology Institute
b) GST No	: 29AAATC2085K1ZJ
c) Account No	: 10521862015
d) Bank Name & Branch	: State Bank of India, Yeshwanthpur Branch
e) IFSC Code	: SBIN0003297
f) MICR Code	: 560002055

Additional Information :

- A 10% rebate on course fee will be given to organizations nominating 3 or more participants for each programme, only if payment is made in advance, ten days before the commencement of the course.
- Individuals/ Companies interested in participation are requested to fill in the enclosed Enrollment Form and submit at the earliest.
- Participants are advised to proceed for the programme only after the nominations / Programme confirmed by us (by Fax / Letter / Phone / E-Mail).
- Participants should report at CMTI on the day of commencement of the course. Participants are advised to reach Bangalore the previous day, evening/ night.
- Course will be conducted from 09:00 to 17:00 hrs. Participants may plan their return journey accordingly.
- Participants will be given Certificate after the completion of the Training Programme
- Enclosed are the tentative programme contents for ready reference
- GST No. to be shared while sending your nomination / Registration (If a company is exempted from GST they have to provide GST Exemption certificate).
- Please note that Course fee once paid will not be refunded. However, change in nomination will be permitted.

Note: * Taxes and other levies will be charged as per the prevailing rates at the time of Billing**

For further enquiries/registration / nominations, please contact:

Mr. Arun Kumar J .G, Joint Director & Centre Head – AEAMT,

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E-mail: training@cmti.res.in