Training Programme
On
Micro & Nano Manufacturing

Course Code: 4201

18th – 19th September 2025

Targeted Audience

This course provides participants with both theoretical understanding and practical skills to apply micro and nano machining techniques in real-world industrial and research applications.

CONTACT US

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CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE
Tumkur Road, Bengaluru - 560 022

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 :

a)Brief Introduction to Micro and Nano Machining
b)Mechanical Micromachining: Micro Milling, Micro drilling, Micro turning etc.
c)Micro EDM and Micro WEDM
d)Laser micromachining
e)Single point Diamond Turning
f) Nano Finishing Processes
g)Inspection of Micro and Nano machined parts
h)Demonstration of the facilities

Targeted Audience :

Scientists /Engineers/R&D labs/Researcher involved in micro/nano product development and micro/nano machining activities

Programme Co-ordinator :

Karthik M S , Scientist –C Working in the field of Micro machining and Precision manufacturing for the past 10 years and involved in development of micro machining parts indigenously for various sectors like Automobile, Aerospace and Defense etc. Also worked in indigenous micromachining technology development for Biomedical parts like micro needles for bio potential measurement, moulds for micro needles, moulds for cochlear implants and other medical implants.

Programme Schedule :

it is a **02 Days** Non - Residential Training Programme scheduled during **18th -19th September 2025**. The Programme will be held at Central Manufacturing Technology Institute, Bengaluru.

Participation Fees :

Rs. 7,800/- plus GST @ 18%***, per participant. This includes Course Kit, working veg lunch, midsession 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
- nclosed 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**

Tentative Programme Schedule

Days	Topics
Day 01	Introduction to Micro & Nano Machining
	Micro Machining (Turning, Milling, EDM, WEDM)
	Laser Micro Machining
	Single Point Diamond Turning
	Demo On Micro Machining
	Demo On Excimer & Femtosecond Laser Systems
	Demo On Single Point Diamond Turning System
Day 02	Nano Finishing Processes
	Focused Ion Beam Machining
	Confocal Microscopy & Electron Microscopy
	Inspection of Micro-components
	Demo On Nano Finishing Processes (AFM & MAFD)
	Demo On Micro components Inspection (PP, VM, CMM, Roughness etc)
	Demo On Confocal Microscope
	Demo On Electron Microscope (SEM)

For further enquiries / registration / nominations, please contact:
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09449842686 / 78 , Fax: (080) 2337 0428
E-mail : training@cmti.res.in