

Greetings from CMTI

We are pleased to inform you that we are conducting a 03 day Non-Residential Training programme on "**Microscopy and Analysis**", course code **0460**

Highlights / Overview of the Program:

Any material synthesized or fabricated, requires observation and analysis its properties and behaviour. Microscopy is one of the most preferred and critical area of characterization of materials in both micro and nano domains. The course aims to emphasize on need and role of microscopy and analysis in versatile field of applications.

Topics covered:

- Basics and need for Microscopy
- Different types of microscopes (Optical, Confocal, Electron, Scanning probe)
- Sample preparation for different microscopy analysis
- Observation, analysis and interpretation of microscopy results
- Best practices for microscopy analysis and post processing

Target Participants:

R&D groups of Govt. organizations & Industries, Scientists, Technical & Scientific officers, Material science researchers, Material & Metallurgists.

Programme Schedule

It is 03 days Non Residential Training Programme scheduled during **18th – 20th October 2023**. The Programme will be held at Central Manufacturing Technology Institute, Bangalore

Participation Fees

Rs. 11,700/- 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 Bangalore 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:

1. 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.
2. Individuals/ Companies interested in participation are requested to fill in the enclosed Enrollment Form and submit at the earliest.
3. Participants are advised to proceed for the programme only after the nominations / Programme confirmed by us (by Fax / Letter / Phone / E-Mail).
4. Participants should report at CMTI on the day of commencement of the course. Participants are advised to reach Bangalore the previous day evening/ night.
5. Course will be conducted from 09:00 to 17:00 hrs. Participants may plan their return journey accordingly.
6. Participants will be given Certificate after the completion of the Training Programme
7. Enclosed are the tentative programme contents for ready reference
8. GST No. to be shared while sending your nomination / Registration (If a company is exempted from GST they have to provide GST Exemption certificate).
9. 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:
Mrs. Asha R Upadhyaya, Scientist – F & Centre Head – AEAMT,
09449842686 / 78 Fax: (080) 2337 0428
E-mail– training@cmti.res.in

CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE

Tumkur Road, Bangalore 560 022

**Training Programme
On
'Microscopy and Analysis'****Tentative Programme Schedule**

Days	Particulars
Day 01	Introduction to the course
	Introduction to Microscopy
	Confocal Microscope
	Optical Profiler
	Metallurgical analysis using Microscope
	Demo on Confocal Microscope
	Demo on Optical Profiler
	Demo on Metallurgical Microscope Analysis using Microscope
Day 02	Scanning Probe Microscopes
	FTIR and Raman Spectroscopy
	Sample Preparation
	Demo on Scanning Probe Microscopes
	Demo on FTIR and Raman Spectroscopy
	Demo on Sample Preparation
Day 03	Scanning Electron Microscopy
	Transmission Electron Microscopy
	Demo on Scanning Electron Microscopy
	Demo on Transmission Electron Microscopy
	Concluding Session