

Greetings from CMTI

We are pleased to inform you that we are conducting a 05 day Non-Residential Training programme on "**Practical Training on Micro Device/Sensor development.**", course code **0731**

Highlights / Overview of the Program:

Micro systems or MEMS based sensors are being used abundantly across various domains for numerous applications. Fabricating these devices as per the application requirement is a vast process. By undergoing this training, an individual shall be able to understand the design requirements, fabrication process flow and meet the packaging requirements of the micro devices or sensors as per the end use demands. The following aspects shall be covered in the training course.

Fabrication process knowledge which includes Lithography, thin film deposition etc.

Characterization of the devices to verify whether the requirement is met in between the processes.

Packaging of the product as required by the end use environment.

Testing and validation of the product for performance evaluation.

Target Participants:

Students, academicians, researchers, product developers in the field of sensors, MEMS and electronics.

Programme Schedule

It is 05 day Non Residential Training Programme scheduled during **26th - 30th August 2024**. The Programme will be held at Central Manufacturing Technology Institute, Bangalore

Participation Fees

Rs. 19,500/- 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:
Asha R Upadhyaya, Joint Director & 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

“Practical Training on Micro Device/Sensor development.”

Tentative programme Schedule

Days	Topic
Day 01	Overview of micro devices and applications
	Design and analysis of micro devices
	Design, modeling and simulation
Day 02	Introduction to the microdevice fabrication process
	Lithography process
	Hands-on session 1: Lithography process
Day 03	Deposition techniques
	Etching methodology
	Hands-on session 2: Deposition
	Hands-on session 3: Wet etching
Day 04	Characterisation of micro devices
	Electronics for microdevices
	Hands-on session 4: Dry etching
	Hands-on session 5: Electrical characterisation
	Demonstration of various sensors
Day 05	Polymers in microdevices
	Hands-on session 6: Optical Characterisation
	CMTI Lab Visit
	Concluding Session