



#### Greetings from CMTI

We are pleased to inform you that we are conducting a 03 day Non-Residential Training programme on "Micro Electro mechanical System (MEMS) and its Applications", course code 0730

#### **Highlights / Overview of the Program:**

Micro-Electro-Mechanical Systems (MEMS) is the integration of mechanical elements, sensors, actuators and electronics on a common silicon substrate through micro-fabrication technology. The micro-mechanical components are fabricated using compatible "micro-machining" processes that selectively etch away parts of the silicon wafer or add new structural layers to form the mechanical and electro-mechanical devices. This course will provide in-depth knowledge in field of various processes involved in MEMS design, testing, analysis, simulation, fabrication and packaging levels & MEMS applications.

#### **Target Participants:**

Engineers involved in the design and fabrication of MEMS sensors and actuators

#### **Programme Schedule**

It is 03 day Non Residential Training Programme scheduled during **22**<sup>nd</sup> – **24**<sup>th</sup> **April 2024**. 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: 29AAATC2085K1ZJc) Account No :10521862015

d) Bank Name & Branch: State Bank of India, Yeshwanthpur Branch

e) IFSC Code :SBIN0003297f) 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.
- 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





## CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE

# Tumkur Road, Bangalore 560 022

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Tentative Programme Schedule

Day	Particulars
Day 1	Introduction to MEMS Technology
	Transduction Principles
	MEMS Electronics
	MEMS Fabrication process and Case Study
	M/s FTD Infocom Pvt Ltd
	Demo on MEMS Sensors
	MEMS basic Packaging process and Case study
	MEMS Characterization process - Mechanical and Case study (SEM/Nano Indenter /Bond
	Tester)
	MEMS Characterization process - Electrical and Case study
	MEMS Characterization process - Material and Case study
	MEMS Characterization process - X-ray Inspection
	Nano Characterization Facilities Visit
	MEMS Design Techniques and design tools
Day 3	MEMS + IC Co-simulation: Case Study
	Polymer MEMS
	Introduction to MEMS Advanced Packaging process
	Demo on MEMS Design Tools
	MEMS Applications & Case study
	MEMS Facilities Visit