

Greetings from CMTI

We are pleased to inform you that we are conducting a 05 day Non-Residential Training programme on "**Advanced Signal Processing in Micro-Manufacturing and Automation**", course code: 4204

Highlights / Overview of the Program:

- a) Role of signal processing in the future of Industry 4.0 and micro-manufacturing
- b) Machine learning and AI techniques for signal classification and anomaly detection
- c) Successful implementations of signal processing in micro-manufacturing and automation: case studies and applications

Target Participants:

Engineers, researchers Practitioners aiming to innovate in high-precision manufacturing industries.

Programme Schedule

It is 02 day Non Residential Training Programme scheduled during **23rd - 24th March 2026**. 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, 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 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**

CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE

Tumkur Road, Bengaluru 560 022

Training Programme On “Advanced Signal Processing in Micro-Manufacturing and Automation”

Tentative Programme Schedule

Days	Topic
Day 01	Introduction to Course
	Advanced signal processing techniques in manufacturing automation
	Adaptive signal processing
	Signal processing in condition monitoring of machine tools
	Demo: Real-time signal acquisition of and data analysis in MATLAB/Python
	Lab visits in CMTI
Day 02	Anomaly detection using time-frequency analysis on Real-time data
	Real-time anomaly detection using Image-based systems
	Advance Deep learning analysis for analysing the anomaly in the signal/Image
	Hands-on training: Extraction of features from the data obtained Implementation of Deep-Transfer learning techniques in MATLAB/Python
	Concluding Session