Greetings from CMTI

We are pleased to inform you that we are conducting a 02 day Non-Residential Training programme on **"Digital Signals Driving Micro-Manufacturing & Automation – MATLAB & Python", course code: 4204**

Highlights / Overview of the Program:

Advanced Signal Processing is instrumental in transforming traditional manufacturing processes into highly efficient, precise, and intelligent systems. Recognizing the growing demand for application-specific signal processing tools in modern manufacturing, this course is designed to equip professionals with the comprehensive knowledge and practical skills needed to analyze, process, and interpret signals in the time and frequency domain within the framework of manufacturing systems and automation technologies using deep learning techniques. By bridging the disciplines of signal processing and manufacturing, the course focuses on optimizing performance, enhancing precision, and improving efficiency in automated micro-scale production systems. The tentative training schedule is as follows.

Target Participants:

Engineers, researchers, and practitioners aiming to innovate in high-precision manufacturing industries

Programme Schedule

It is 02 day Non Residential Training Programme scheduled during 20th – 21st July 2026, **now postponed to 03rd - 04th September 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 to17:00 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:
Mr. Arun Kumar J G, Joint Director & Centre Head – AEAMT,
09449842686 / 78 Fax: (080) 2337 0428
E-mail– training@cmti.res.in, aravinda@cmti.res.in

Training Programme

On

"Digital Signals Driving Micro-Manufacturing & Automation – MATLAB & Python"

Tentative Programme Schedule

Days	Particulars
Day 1	Introduction to Course
	Advanced signal processing techniques in manufacturing automation
	Adaptive signal processing
	Signal processing in the condition monitoring of machine tools
	Demo: Real-time signal acquisition of and data analysis in MATLAB/Python
	Lab visits in CMTI
Day 2	Anomaly detection using time-frequency analysis on Real-time data
	Real-time anomaly detection using Image-based systems
	Advanced deep learning analysis for analysing the anomaly in the signal/Image
	Hands-on training: Extraction of features from the data obtained, Implementation of Deep-learning techniques in MATLAB/Python
	Concluding Session

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