

## PREAMBLE

MATLAB® is a high-level technical computing language and interactive environment for algorithm development, data visualization, data analysis, and numerical computation. It integrates computation, visualization and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation. MATLAB features a family of application-specific solutions called toolboxes. It can be used in a wide range of applications, including power, energy signal and image processing, communications, control design, test and measurement, Many more. MATLAB provides a number of features for documenting and sharing work. LabVIEW offers a graphical programming approach that helps you visualize every aspect of any application, including hardware configuration, measurement data, and debugging. This visualization makes it simple to integrate measurement hardware from any vendor, represent complex logic on the diagram, develop data analysis algorithms, and design custom engineering user interfaces. This course is intended for beginners and those looking for a review. No prior programming experience or knowledge of MATLAB and LabVIEW is assumed, and the course is structured to allow thorough assimilation of ideas through hands-on examples and exercises.

## TOPICS

- MATLAB Basics for the Budding Engineer – Experimentation and Modeling in MATLAB.
- Accessing, exploring, analyzing, and visualizing data in MATLAB.
- Electrical engineering using SimPowersystems and Modelling of Renewable Energy Systems.
- Modeling of power electronics systems and controllers.
- Signal and Image Processing Toolbox and analysis.
- Adaptive Filtering Techniques and Applications.
- LabVIEW overview and signal generation, signal processing, filters, windows, statistics, regression, linear algebra, and array arithmetic.

## ABOUT IIITDM KANCHEEPURAM

The course will be organized by the department of Electronics and Communication Engineering, Indian Institute of Information Technology Design & Manufacturing (IIITDM Kancheepuram), Chennai. It is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Human Resource Development, Government of India. To pursue design and manufacturing oriented engineering education and research and for promoting the competitive

advantage of Indian products in global markets. The institute is located on a 51 acre campus on the outskirts of Chennai, off the Vandalur-Kelambakkam road. The Institute is presently offering UG, PG, and Ph.D programmes in Computer Engineering, Electronics and Communication Engineering and Mechanical Engineering.

## ELIGIBILITY

The applicant should have graduated with BE/B.Tech/ME/M.Tech/MS/MSc./MCA degree in EEE/ ECE/ CSE/IT or continuing/completed PG/Ph.D. in the above mentioned research areas. Students, Research Scholars, Faculties and Industrial participants can apply.

## REGISTRATION

The participants are requested to register online by using the following link: <https://goo.gl/forms/wd7kKJEqATZ3SX8Y2> (NEFT or IMPS transaction information is required to complete the online Google form)

Category	Fees
Faculty	Rs.4000
Ph.D/Post. Doc. scholar of Academic Institutes	Rs.3000
Professionals from Industries	Rs.5000
UG/PG Students	Rs.2500

The nonrefundable registration fee will be accepted through an online Bank transfer through NEFT or IMPS. The registration fee includes course materials, certificate, and refreshment. Participants are requested to bring their **Laptop** for hands on sessions. The confirmation of participation would be sent through email. Last date for Registration is **30<sup>th</sup> Novemeber 2018.**

## Accommodation

A Twin shared accommodation is available in the Guest Hostels of the IIITDM for outstation participants with an advance request on first come first serve basis and nominal chargeable basis (Rs. 250/day).

## Contact Details

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## REGISTRATION FORM

# One Week Short Term Course on MATLAB and LabVIEW for Engineering Applications

17 Dec – 21 Dec, 2018

Name: \_\_\_\_\_

(Capital Letters with Surname underlined)

Designation: \_\_\_\_\_

Qualification: \_\_\_\_\_

Specialization: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Teaching Experience: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone (M) \_\_\_\_\_

FAX \_\_\_\_\_

E-mail \_\_\_\_\_

Accommodation required? YES / NO

### Details of Registration Fee

Name of Bank & branch: \_\_\_\_\_

NEFT/IMPS Transaction No: \_\_\_\_\_

Date: \_\_\_\_\_ For Rs.: \_\_\_\_\_

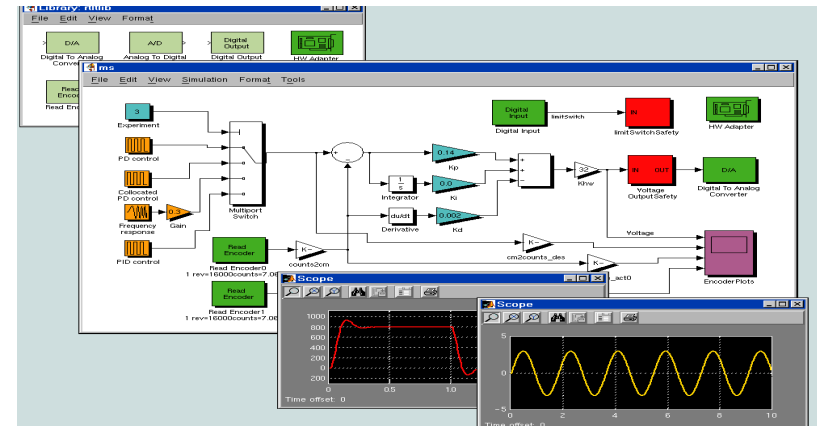
Date

SIGNATURE

**\*Preferred to receive through Google Forms.**

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17 Dec – 21 Dec, 2018



### Coordinator(s)

**Dr. B.Chitti Babu**  
**Dr. Jagadeesh Kakarla**  
**Dr. Asutosh Kar**



### Organized by

**Indian Institute of Information Technology  
Design and Manufacturing, Kancheepuram**  
**An Institute of National Importance**  
**(Under Ministry of HRD, Govt. of India)**  
**Chennai- 600127, Tamilnadu**