

About the Institute

Indian Institute of Information Technology, Kottayam is one among the IITs that have been established as "Institutions of National Importance" by Ministry of Education, Govt. of India under the ambit of IIT (PPP) Act 2017. The institute offers 4 year B.Tech and B.Tech(Hons) program with specialized courses covering all major research domains of Computer Science and Electronics and Communication Engineering. The students are admitted against the JoSAA/CSAB counselling against the JEE main rank list. Institute also offers MTech in CSE and PhD program in CSE, ECE and Mathematics.



About the Workshop

MATLAB is a special purpose language that is an excellent choice for writing powerful programs in a few lines that solve real world problems. As a result, MATLAB is being used in a wide variety of domains from the basic sciences, through all disciplines of engineering, to finance, and beyond, and it is widely used in industry. Hence, a solid background in MATLAB is an indispensable skill in today's job market.

This hands-on program is intended to provide fundamental knowledge of MATLAB, including toolboxes, graphical representations, and tips for developing and implementing MATLAB code to address issues in a variety of domains. The MATLAB GUI, which allows users to utilize a specific application without having to learn the language, as well as Simulink, which allows users to add algorithms into models and export simulation results to MATLAB for further analysis, will also be covered.

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3-Day Hands-on Workshop on Engineering and Scientific Computations using MATLAB

14 - 16 June 2023



ORGANIZED BY

Department of ECE jointly with
I²CS Research Group



Indian Institute of
Information Technology
Kottayam



Intelligent Integrated
Circuits and Systems
Research Group

Patrons

Prof. Rajiv Dharaskar, Director, IITK
Dr. M Radhakrishnan, Registrar, IITK
Prof. P Mohanan, PIC Academics, IITK

Program Convenor

Dr. Kala S
Assistant Professor & Head
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Program Co-ordinators

Dr. Minu A Pillai
Assistant Professor, Dept of ECE, IITK
Dr. G N K Reddy
Assistant Professor, Dept of ECE, IITK

About the Department

Department of ECE offers both BTech and BTech (Hons) degree, with courses covering wide domain of Electronics Circuits, VLSI & Embedded Systems, Signal Processing, Communication Systems, Antenna Design, Microwave Engineering, Instrumentation, Artificial Intelligence and Machine Learning. The department also offers PhD program in these domains. The department has a vibrant faculty community who are involved in the cutting edge research activities through I²CS Research Group.

Resource Persons

Dr. D D Ebenezer
Chairman, Hydro-Vibro-Acoustics Panel,
Naval Research Board DRDO, New Delhi

Dr. A Ananth
Assistant Professor, Dept of ECE, IITK

Dr. G N K Reddy
Assistant Professor, Dept of ECE, IITK

Dr. Minu A Pillai
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Registration

Registration Link:
<https://forms.gle/tYYXNgm3oHaQgVGX9>

UG/PG /PhD Scholars: **Rs.750/-**
Faculty Members: **Rs. 1000/-**

Payment link:
<https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

Steps for payment:

1. **Select category as Educational Institutions**
2. **Search for payee "IIT Kottayam"**
3. **Choose the payment category "Matlab for Engineers"**
4. **Enter the details and make payment**

Registration deadline: **13 June 2023**

Accommodation: **Provided upon request via email , first-come first-served basis**
E-mail : minupillai@iitkottayam.ac.in

Contents of the Workshop

The majority of engineers and scientists in various fields are relying on numerous math functions and computations. This workshop aims to teach learners with little to no programming experience, regardless of major or field of study, how to write MATLAB programmes that address real-world issues.

Topics covered:

- Overview of the key features of the MATLAB programming environment
- Basic syntax, Commands and Operations
- Looping and decision making
- Effective use of MATLAB to analyze and visualize data and results - 2D & 3D plots
- Basic optimization procedure
- Use of Simulink for modeling dynamic physical systems in diverse disciplines
- Effective creation and use of the MATLAB GUI

Organizing Team

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