

ABOUT THE PROGRAMME

Mission narrated by Hon'ble Prime minister as Team India, Start-up India and Stand-up India, required mechanisms "Reform to Transform". MATLAB is widely used in different areas of applied mathematics, education, research and in numerous industries, which is a high-level language that enables you to perform computational work faster than with traditional programming languages such as C, C++, and FORTRAN. It is basically used for scrutiny of problems of different subjects such as mechanical vibrations, basic engineering mechanics, electrical circuits, statics and dynamics, control systems, numerical methods and finite element analysis etc. This workshop is being organized with the objective of helping students, researchers, faculties of the engineering colleges to acquire fundamental/basic knowledge about the MATLAB. The goal of the workshop is to provide practical knowledge about the introduction of MATLAB, MATLAB functions and their related application in Mechanical and Civil Engineering, so that it makes, participants to confident enough to write simple and advance MATLAB programs to solve the Engineering related problems. The workshop is designed to be approximately 90% lab training. The class size is limited to 40, to maximize one-on one interaction.

OBJECTIVES

1. To get the knowledge about the basic of MATLAB for solving the engineering problem.
2. To provide hands-on training on "Introduction to MATLAB", MATLAB tool box, MATLAB functions, MATLAB Programming and MATLAB Simulink.
3. To make the participants confident enough on writing the simple and advanced MATLAB programming.

COURSE CONTENTS

1. Introduction to MATLAB and basic programming.
2. Two Dimensional Plots and Three-Dimensional Plots.
3. MATLAB Programming and MATLAB functions.
4. Differentiation, Integration and Differential Equation etc. with real life application.
5. Basic of Neural Network and Programming.
6. Solving real time problem with the help of Non-conventional optimization techniques using Matlab Programming.
7. Introduction to Simulink and Solving Engineering problem with Simulink.

ELIGIBILITY

This program is open to faculty members and research scholars, students of technical institutions, engineering colleges, polytechnics, universities and other recognized institutions. (Number of Participants is limited to 40. Participants will be shortlisted if the number exceeds).

RESOURCE PERSON

Teaching sessions and hands-on-training will be conducted by the expert faculties from IITs, NITs and other reputed Universities are likely to be a part of the program.

Dr. Hari Kumar Voruganti (PhD IIT Kanpur)
Asso. Prof. (Mech. Engg.), NIT Warangal.
Dr. Bidesh Roy (PhD NIT Silchar)
Asst. Prof. (Mech. Engg.), NIT Mizoram.
Dr. Jay Prakash Singh (PhD NIT Silchar)
Asst. Prof. (Elect. Engg.), Rewa Engg. College, M.P.
Dr. Anirban Majumdar (PhD IIT Guwahati)
Asst. Prof. (Mathematices), NIT Nagaland.
Dr. Amit Kumar Singh (PhD NIT Silchar)
Asst. Prof. (Mech. Engg.), NIT Nagaland.

ORGANIZING COMMITTEE

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ORGANIZING COMMITTEE:

Mr. Kamal Kumar Basumatary (Lecturer)

TEQIP-III

SPONSORED

Five Days' Workshop on

“HANDS-ON TRAINING ON MATLAB FOR ENGINEERING” (Especially for ME and CE)

13th April to 17th April 2020

NIT Nagaland, Chumukedima, Dimapur,
Nagaland – 797 103

REGISTRATION FORM

1. Name:
2. Designation:
3. Institution:
4. Address for communication:

E mail:

Phone/Mobile No:

5. Highest educational qualification:

6. Any other information:

7. Details of Registration Fee:

Transaction ID:

Date:

Bank:

Place:

Date:

Signature of the applicant

Note: It's a basic level training programme so there are no prerequisites. Anyone interested, can join this programme.

Please come with Laptop having installed MATLAB.

HOW TO REACH

The campus is well-connected with all means of transportation. Dimapur Airport is 12.6 kms from the Institute and the distance of Dimpaur railway Station is about 17.6 kms. NIT Nagaland is located at Chumukedima, about 14 kilometers from Dimapur, Nagaland. The campus is well connected through proper means of transport and communication.



IMPORTANT DATES

Last date of Registration: 27th March 2020.

Short Listing of Participants: 30th March 2020.

Registration fee can be paid through **Net banking** with the following account details. A/c name: **IRG NIT NAGALAND**, A/c no: **35747839287**, IFSC Code: **SBIN0007543**, Bank and Branch: **State Bank of India, Chumukedima**. The filled registration form with Transaction receipts should be sent to mail id: program.mech996@gmail.com on or before Registration deadline. The hard copy of original registration form and registration fee has to be submitted before the commencement of the program at the registration desk.

REGISTRATION DETAILS

Students/Research Scholars/Faculties/Industry: Rs. 500/-

(No registration fees for internal participants)

Participants have to make payment via Net Banking.

Brochure and registration form can also be downloaded from the institute website: <https://nitnagaland.ac.in/>

IMPORTANT INFORMATION

- i. Registration fee covers workshop Kit, snacks and Lunch during the Course.
- ii. No TA and DA will be paid to the participants.
- iii. Selected Participants will be informed by mail only.

ABOUT THE INSTITUTE

National Institute of Technology Nagaland (NIT Nagaland) is a higher education technology institute located at Dimapur in Nagaland and was set up by the Government of India in 2009, as part of the Eleventh Five-Year Plan (2007–2012) for imparting technical education in the state of Nagaland. It is one of the 30th NITs in India and is the institute of National Importance. At present there are six undergraduate courses namely Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Civil Engineering, Mechanical Engineering & Electronics and Instrumentation Engineering and five postgraduate courses namely M.Tech in Power System Engineering, VLSI Systems, Computer Science and Engineering, Electronics and Communication Engineering & M.Sc. in Physics, inclusive of PhD studies.

ADDRESS FOR COMMUNICATION

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CONVENER

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Dr. Amit Kumar Singh

CO-ORDINATOR

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Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND
Chumukedima, Dimapur,
Nagaland – 797 103**