One Week Workshop

On

Introduction and Basics of Programming skill using MATLAB and PYTHON

(Under TEQIP-III)

17th – 21st April, 2019

Venue: NIT Srinagar

Organized By

Department of Electrical Engineering

National Institute of Technology Srinagar

Hazratbal, Srinagar – 190006, J&K

About Institute

National Institute of Technology, Srinagar (NITSRI) was established in 1960 as the Regional Engineering College, Srinagar, Jammu and Kashmir, India. It was one of the first eight Regional Engineering Colleges (REC) established by Government of India during the first Five Year Plan (1956–61). It is governed by the National Institutes of Technology Act, 2007 which has declared it as Institute of National Importance. It is one of the 31 National Institutes of Technology (NITs) and as such is directly under the control of the Ministry of Human Resource Development (MHRD).

NIT campus is on bank of Dal Lake known as Srinagar Jewal. Also, most respected and beautiful holly place of Muslims called Hazratbal Shrine are nearby and walkable distance from campus.

About Electrical Engineering Department

The Department of Electrical Engineering (EE) is one of the oldest departments since it was REC. The department runs undergraduate, Masters and PhD programmes. The department has experienced and distinguished faculty with all of them having PhD from renowned institutes. The faculties constantly engage in research apart from teaching. There are ten fully equipped laboratories in the department catering to the needs of the students.

Workshop Objective

Python and MATLAB both are the most important languages in the world of computer programming. This is because of its widespread application in the fields of all stream of engineering. NIT Srinagar proudly announces a one week workshop on basic programming using MATLAB and Python. The objective of this workshop is to enhance the knowledge of programming skill of students, researchers and faculty. Also, goal of this workshop is to help the students, researchers and faculty to learn Python and MATLAB in industry perspective and make them to do efficient coding for real world applications.

Workshop Outcome

After completion of workshop, participants can understand the main features of the MATLAB and Python development environment. They can use the GUI effectively. They can design simple algorithms to solve problems, and also able to write simple and effective programs in MATLAB and Python to solve scientific and mathematical problems.

Why Python?

Python is a free, open-source, general-purpose, interpreted, and powerful scripting language for Web applications. It is an easy yet powerful programming language that provides structure and support for large applications as well as the power and complexity of traditional high-level languages. Python is the ideal choice if you require a single language with the features of both an interpreted and a scripting language

Why MATLAB?

MATLAB is a high-level computer language for scientific computing and data visualization built around an interactive programming environment. It is becoming the premiere platform for scientific computing at educational institutions and research establishments. The great advantage of an interactive system is that programs can be tested and debugged quickly, allowing the user to concentrate more on the principles behind the program and less on programming itself. Since, MATLAB programs can be developed in much shorter time than equivalent FORTRAN or C programs

Why Should You Attend?

- ❖ Fully Hands-on. Interactive Learning.
- ❖ Network with fellow programmers and coding enthusiasts.

Topics Covered

- ❖ Mathematical functions
- ❖ Writing script and function
- ❖ Mathematical introduction to Linear algebra
- ❖ Non-linear programming
- ❖ Loop and conditional statements
- ❖ Root finding
- ❖ Interpolation and extrapolation
- ❖ Data/File handling
- ❖ Plotting and Graphics

Prerequisites

It is advisable to bring your own well working laptop with python software installed. Basic knowledge of computer programming and an understanding of matrix and linear algebra are highly beneficial.

Important Date

Last date of Registration   15th April, 2019

Registration Details

Registration Fee (per participant)	
Students/ Research Scholars	Rs. 800/-
Faculty Members/ Scientists	Rs. 1000/-
Industry Persons	Rs. 1200/-

For payment, the details of Bank is as follows:

A/c Name: TEQIP-III
A/c No: 0391040100011025
Bank Name: J & K Bank
Bank Branch: REC Srinagar
IFSC Code: JAKA0RECSGR (0=zero)

Organizing Committee

CHIEF PATRON
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Director, NIT Srinagar

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HOD, Electrical Engineering

Prof. (Dr.) M. F. Wani
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Dr. Ravi Bushan, AP, EED

Dr. Chilaka Ranga, AP, EED

Note:
1. *The entries are limited to only 35 participants.*
2. *Accommodation will be provided inside the NIT Srinagar on first come first serve basis, if available.*

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INTRODUCTION AND BASICS OF PROGRAMMING SKILL USING MATLAB AND PYTHON

Registration form

Name:: _____

Qualification:: _____

Gender::_____

Designation::_____

Faculty Members/ Scientists/ Industry Person/ Student/ Research Scholar:: _____

Department:: _____

Name of the Institute / Industry::
_____

Address for Communication::
_____
_____

e-mail ID :: _____

Phone No :: _____

DD/ Online Reference No.::_____

Name of the Bank ::_____

Amount in Rs.::_____

Dated::_____ _____

Signature of the   Signature of the
Participants   Competent Authority
                                                with Seal

Note: Kindly email the registration form with proof of payment to jagtapkushal@nitsri.net up till 15th April 2019