

# Five days Online Workshop

On

## Application of MATLAB in Engineering

(Sponsored by TEQIP-III)

26<sup>th</sup> – 30<sup>th</sup> November, 2020



Organized By



IET ON CAMPUS NATIONAL  
INSTITUTE OF TECHNOLOGY  
SRINAGAR (J&K)

## About IET On Campus NIT Srinagar

The IET On Campus NIT Srinagar is an initiative taken by Department of Electrical Engineering, NIT Srinagar. It gives the skills and experience to the students to succeed in their career, and supports young engineers and technicians in our Institute. IET On Campus builds a strong link between the IET and students, helping you to get the most out of our Institute experience as well as enabling young people to place at the heart of our professional activities and development. The IET On Campus NIT Srinagar student chapter is not specific to any department. So, we are glad to welcome all the students irrespective of Department and Program from the bottom of our heart to each and every one of our Institute.

IET On Campus NIT Srinagar Student Community is a group of IET members with a desire to deliver a range of activities for engineering students in our Institute. Their responsibilities include connecting to an international network of engineers and technicians who can help you learn new skills in readiness for job seeking and professional development outside study.

### IET Values

**Integrity** - Operate professionally & ethically to gain trust. Be open and honest with each other. Respect everyone and value each other's contribution.

**Excellence** - Work towards the highest level of service and satisfaction. Use agile methods and seek innovative solutions to add value. Continually improve and adopt best practices.

**Teamwork** - Encourage staff and volunteers to work together. Recognise the value of talented individuals working in teams. Be collaborative and partner with other organisations.

**IET** The Institution of  
Engineering and Technology

## About NIT Srinagar

National Institute of Technology, Srinagar, formerly Regional Engineering College, Srinagar, is a government engineering and research institution located in Srinagar, Jammu & Kashmir, India. It is one among the 31 National Institutes of Technology (NITs) and as such is directly under the control of Ministry of Human Resource Development (MHRD), Govt. of India. It was established in 1960 as one of several Regional Engineering colleges established as part of the Second Five Year Plan (1956-1961) by the Govt. of India. It is governed by the National Institutes of Technology Act, 2007, which has declared it as an Institute of National Importance.

NIT campus is on the bank of world-famous Dal Lake. The University of Kashmir and Hazratbal Shrine are at walkable distance. NIT Srinagar campus comprises of academic building, student hostels with 100% residential facilities for faculty, staff and students.



## About the Workshop:

MATLAB Programming is one of the most important technical programming languages and skills today. MATLAB Programming is an easy and understandable programming language and is an excellent choice for those who want to learn to program for the first time. Engineering companies often use MATLAB to prototype and validate their ideas before committing to building it with other programs like Java, Python, C, and C++.

In this Online Workshop, we would start learning MATLAB from a beginner level and slowly ease our way into more advanced topics and programs. The workshop would consist of interactive lectures and sample MATLAB problems that the students generally face. This workshop would provide a general introduction to the MATLAB computing environment, and would be intended for beginning users and those looking for a review. It is designed to give students a basic understanding of MATLAB, including popular toolboxes.

The majority of engineers in various fields are relying on the different kinds of math functions and calculations. This course is a general MATLAB Programming training, and it means that everyone can join regardless of their major and field of study.

## Outcomes of the Workshop:

By the end of this course, the participants would be able to:

- Use MATLAB effectively to analyze and visualize data.
- Apply numeric techniques and computer simulations to solve engineering-related problems.
- Apply a top-down, modular, and systematic approach to design, write, test, and debug sequential MATLAB programs to achieve computational objectives.

- Design and document computer programs and analyses in a careful and complete manner so as to effectively communicate results, to facilitate evaluation and debugging by another programmer, and to anticipate and resolve user errors.
- Demonstrate understanding and use of fundamental data structures (classes).
- Create and control simple plot and user-interface graphics objects in MATLAB.

## How to Join

Use the link to get registered for the Online Workshop:

<https://forms.gle/KBSn4D6HfVEFxdRZ8>

Note: Participation is free for all, but registration is mandatory. The last date for registration is 25<sup>th</sup> November, 2020.

### **Eligibility:**

This program is open to Faculty members, research scholars, PG & UG students of all institutes, and industrial personnel.

### **Certification:**

E-certificates will be provided to those participants who have attended the program without any absenteeism.

### **Contact:**

Ashish Kumar Aryan  
Community Chair, IET On Campus NIT Srinagar  
Ph no: + 91 90556 68935  
Email: [raj24344@gmail.com](mailto:raj24344@gmail.com)

Syed Aga Hadi Riza  
Community Vice-Chair, IET On Campus NIT Srinagar  
Ph no: + 91 91497 11756  
Email: [agahadi56@gmail.com](mailto:agahadi56@gmail.com)

## PATRON:



Prof. (Dr.) Rakesh Sehgal  
(Chairman of BOG), Director  
NIT Srinagar (J&K), India

## CHAIRMAN



Prof. M. F. Wani  
TEQIP III Coordinator  
NIT Srinagar (J&K), India



## Resource Persons

- ❖ Dr. Obbu Chandra Sekhar  
Associate Professor  
Electrical Engineering Department  
NIT Srinagar (J&K), India
- ❖ Dr. Ranjeet Kumar Rout  
Assistant Professor  
Computer Science and Engineering  
Department  
NIT Srinagar (J&K), India
- ❖ Dr. Ravi Bhushan  
Assistant Professor  
Electrical Engineering Department  
NIT Srinagar (J&K), India
- ❖ Dr. Shahid Mehraj Shah  
Assistant Professor  
Electronics and Communication  
Engineering Department  
NIT Srinagar (J&K), India
- ❖ Dr. Chilaka Ranga  
Assistant Professor  
Electrical Engineering Department  
NIT Srinagar (J&K), India

## ORGANIZING COMMITTEE:

### COORDINATOR(S):



Prof. Shameem Ahmad Lone  
Professor  
Electrical Engineering  
Department  
NIT Srinagar (J&K), India



Prof. Abdul Hamid Bhat  
Professor  
Electrical Engineering  
Department  
NIT Srinagar (J&K), India



Dr. Mohammad Abid Bazaz  
Associate Professor & Head  
Electrical Engineering  
Department  
NIT Srinagar (J&K), India



### CONVENER(S):



Dr. Chilaka Ranga  
Assistant Professor & IET  
Facilitator  
Electrical Engineering  
Department  
NIT Srinagar (J&K), India



Dr. Obbu Chandra Sekhar  
Associate Professor  
Electrical Engineering  
Department  
NIT Srinagar (J&K), India

### ORGANIZING MEMBERS:

- Mr. Ashish Kumar Aryan  
Community Chair  
IET On Campus NIT Srinagar
- Mr. Syed Aga Hadi Riza  
Community Vice-Chair  
IET On Campus NIT Srinagar
- Mr. S Shriram  
Community Secretary  
IET On Campus NIT Srinagar
- Mr. Ravi Chandra Kumara  
Social Media Manager  
IET On Campus NIT Srinagar