Call for Registration and Participation

One Week Workshop on Teaching and Learning of Engineering Mathematics using Python through Hands-on Experience

March 05-10, 2019

Call for Registration and Participation

NATIONAL INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MATHEMATICS
Warangal-506 004, Telangana State, India.

PMMMNMIT in association with Scheme

OBJECTIVES

- To impart effective teaching/learning methodologies of engineering mathematics using Python through hands-on experience.
- To educate the participants on the concepts of Python programming and its use in Engineering Mathematics through hands on experience.
- To motivate young minds and build confidence in them to take up teaching as a profession in engineering Mathematics.

TOPICS TO BE COVERED

- Basic concepts and programming with python
- Vectors and matrices
- Visualizing data with graphics
- Statistics and probability
- Linear Algebra and Symbolic Math with SymPy
- Calculus
- Differential Equations

NOTE: Programs related to the above topics will be demonstrated and the participants will be given opportunity to write the programs in a team.

OVERVIEW OF THE COURSE

Mathematics and programming often go hand in hand, but aren’t always equally loved by students. These are often considered difficult, or met with some level of stigma within students. Programming and mathematics are often thought of as strongly connected activities. Over the years a number of projects in mathematics education are aimed at utilizing programming to obtain mathematical learning goals with the students.

Python is a modern scripting language. It is easy to read and quick to learn. It can be used for more than just general-purpose programming. It is a free, open source language and environment that has tremendous potential for teaching mathematical concepts.

This workshop presents Python in close connection with mathematical applications and demonstrates how to use various concepts in Python to learn some common mathematical concepts.

RESOURCE PERSONS

Faculty members from IITs, NITs, centrally funded Institutes and Universities and will deliver lectures and conduct workshop sessions.

REGISTRATION IS OPEN TO

- Faculty members of Institutions of higher education teaching Mathematics and Engineering.
- Research Scholars aspiring for academic positions

HOW TO APPLY

Eligible candidates may apply by submitting the scanned copy of the filled-in registration form (attached with this mail/brochure) by Email to: dsc@nitw.ac.in/bhargavi@nitw.ac.in on or before 20-02-2019. As the program is conducted in a workshop mode with hands-on sessions, the number of participants in the workshop is limited to 35. Candidates are advised to apply early to avoid disappointment.

SELECTION AND INTIMATION

Upon the receipt of the registration form, the applicants will be selected based on their teaching aspirations and research interest relevant to the workshop. Selected applicants will be intimated through E-mail on or before 01-03-2019.

PAYMENT OF REGISTRATION FEE

After receiving the intimation about the selection, the applicant has to send registration fee in the form of a Demand Draft in favour of “Director research, NITW” payable at Warangal, on or before 09-09-2018. Only after receiving the proof of payment of registration fee from the participates through E-mail, they will be sent confirmation of their participation through E-mail immediately.

ACCOMMODATION

Accommodation for the outstation participants will be provided upon request in the Institute Visitors Block or International Students Hostel.
National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959, is the first among the 31 NIT’s in the country setup as joint venture of the Government of India and the state government. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate and 31 post-graduate programmes besides doctoral programmes. All the Departments of the institute conduct research programs leading to Ph.D. degrees. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and research laboratories. Participants are advised to alight either at Kazipet or Warangal depending upon the train of travel. It is well connected by rail and road.

The Teaching-Learning Centre (TLC) is established at NIT Warangal with grants from the MHRD, GOI under the scheme, ‘Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching’ (PMMMNMTT). Many senior and young faculty members across various departments of the Institute are associated with this center as members of the Core-Team. One of the important objectives of the center is to conduct training programs for Aspiring, Newly Inducted and In-Service faculty in Science and Engineering disciplines. Other activities of the TLC include preparation of e-learning materials, offering courses on-line, curriculum development, carrying out research in pedagogy and integrating ICT into teaching-learning process.

Note: Participants are encouraged to bring their own laptops (OS: Windows 7 or higher version)
One Week Workshop on
Teaching and Learning of Engineering Mathematics
using Python through Hands-on Experience
March 05-10, 2019

Organized by
DEPARTMENT OF MATHEMATICS
in association with
TEACHING – LEARNING CENTRE
NATIONAL INSTITUTE OF TECHNOLOGY, Warangal-506 004, Telangana State, India
Sponsored by MHRD, Govt. of India under the PMMMNMTT Scheme

REGISTRATION FORM

Name: ________________________________________________
Date of Birth: _______________________________________
Place of Birth: Village/Town/City: ____________________________ Tick as applicable (Rural/Urban)
District ___________________________ State: ___________________________
Gender (Put a √ Mark): [ ] Male [ ] Female
Category (Tick as applicable): [ ] Open / [ ] OBC / [ ] SC / [ ] ST / [ ] PWD
Qualification: _____________________________________________
Designation: _____________________________________________
Organization/Institution: ________________________________
No. of Years of Teaching/Research Experience: _______________
Area of research: ___________________________________________
Pl. write how this workshop is beneficial to you: _________________________________________________________________
________________________________________________________________________________________________________________________________________________________
Address for Correspondence: ________________________________________________
______________________________________________________________________________
Mobile(s) No.: ____________________________________________________________
E-mail(s) ID: ______________________________________________________________

Accommodation (Put a √ Mark): [ ] Required [ ] Not Required

Declaration by the Applicant
If selected, I agree to abide by the rules and regulations of the workshop/training programme and shall attend all the
sessions.
Date: ____________________________

Signature of the Applicant

Signature of the Head of the Department/Institution

Office Seal