Faculty Development Programme (FDP) on

SCIENTIFIC COMPUTATIONS WITH PYTHON

(November 20th - 25th, 2018)

Organized by

E & ICT Academy, National Institute of Technology, Warangal

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

Python is a free, open source language and environment that has tremendous potential for use within the domain of scientific computing. Python is an effective tool to use when coupling scientific computing and mathematics. This faculty development programme (FDP) demonstrates Python in tight connection with mathematical applications. Further, this FDP is devoted to explain the use various concepts in Python for computing purposes like linear algebra, arrays, plotting, iterating, functions, polynomials, and much more.

Major Course Contents:

- Python programming basics
- Vector and array manipulation
- Plotting, functions, input and output
- Sequences and difference equations.
- Symbolic Computations with SymPy
- Introduction to discrete calculus and differential equations
- Case Studies using Python

Faculty conducting this programme:

The program will be conducted by the faculty members from **NIT Warangal**. Academicians in the concerned field from **IITs/NITs/IIITs** are invited to deliver lectures in the program. Speakers from **industrie**s are also expected to deliver as part of the course.

Eligibility: The program is open to the ***teachers of engineering colleges, MCA colleges, degree colleges and other allied disciplines*** in India. Industry personnel working in the concerned/allied discipline can also attend.

Registration Fee Particulars:

Faculty & Research Scholars	**Rs. 2,500/-**
Faculty of SC/ST Category	**Rs. 1,875/-**
Industry participants	**Rs. 7,500/-**

(***SC/ ST participants should submit the copy of their caste certificate to claim the concession along with application. SC/ST concession is only for faculty of mentioned states. Research Scholars are not eligible for SC/ST concession***.)

DD Details	Online Transfer Details
Demand Draft in favour of "Director, NIT Warangal" payable at any bank in Warangal	**Account Name: Electronics & ICT Academy NITW** **Account No: 62423775910** **IFSC: SBIN0020149**

Accommodation:

All the selected participants will be provided FREE boarding & lodging in the institute guest house. No TA will be paid for the participants.

How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through e-mail to **dsc@nitw.ac.in** or **ravic@nitw.ac.in** as selection will be intimated only through mail.

Selection Criteria:

Selection will be done based on ***first-cum-first-serve basis*** and the confirmed candidates will be notified immediately. The maximum number of participants will be **50 (fifty)**. Additionally 10 participants from industry are allowed to participate. The list of selected participants will be notified in the institute web site http://www.nitw.ac.in/eict/ and also will be sent to their personal *e-mail* ids. In case a candidate is not selected, the demand draft will be sent back. A test will be conducted at the end of the course. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date for submission of application with registration fee	13.11.2018
Selection-list by email	16.11.2018
Duration of Program: November 20 – 25, 2018	

About the Institute & Departments

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

The Department of Computer Science and Engineering (CSE) offers B.Tech. course in CSE, M.Tech courses in CSE, Information Security (IS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC^2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes throughout the year.

The Department of Mathematics is a highly reputed department which functions with excellence as its motto and started in 1959 The Departments has established itself as a dynamic center for academic and research activities. The Dept. has so far produced 105 Ph.D.'s and presently 20 Research Scholars are working. AICTE recognized the Dept. as QIP center for Ph.D. The Department offers M.Sc. (Applied Mathematics) and M.Sc. (Mathematics & Scientific Computing) Courses. Recently, the Department of Mathematics at NIT Warangal has identified as National Resource Centre (NRC) for Mathematics to develop online courses to train faculty within India.

APPLICATION FORM

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1. Name:
2. Designation:
3. Institution:
4. Email:
5. Mobile Number
6. Registration fee payment detials

Amount	
Name of the Bank	
Date	
DD No./ Online transaction id	

7. Address for Correspondence

8. Educational Qualifications with specialization:

9. Subjects taught so far:

10. No. of refresher courses/workshops attended:

11. Experience (in years)
    Teaching:
    Research:
    Industry:

12. Accommodation required: YES / NO

13. Are you belong to SC/ST: YES/NO
(If yes, please attach a copy of caste certificate to claim the concession)

Declaration
The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Place:
Date: Signature of the applicant

SPONSORSHIP CERTIFICATE

Dr/Mr/Ms. ……
…… is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on ***Scientific Computations with Python*** sponsored by Electronics & ICT Academy during November 20th – 25th, 2018 at *Electronics & ICT Academy*, National Institute of Technology, Warangal.

Place:

Date:

Signature of Head of Institution
(with seal)

Address for correspondence

Post your application form with DD to
Prof. D. SRINIVASACHARYA
Professor & Head, Department of Mathematics,
National Institute of Technology, Warangal
Email: dsc@nitw.ac.in,
or
Dr. S. RAVICHANDRA
Department of Computer Science & Engineering,
National Institute of Technology Warangal,
WARANGAL - 506 004, Telangana State, India.
Email: ravic@nitw.ac.in

Mail the scanned copies of filled-in and duly signed application form with DD to th one of the above emails.

For more information visit: http://nitw.ac.in/eict/

For any enquiry contact:
Mobile: 8332969414 (S. Ravichandra)
9849187249 (D. Srinivasacharya)

COORDINATORS

Prof. D. SRINIVASACHARYA
Department of Mathematics
National Institute of Technology
WARANGAL – 506 004 (Telangana State)

Dr. S. RAVICHANDRA
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National Institute of Technology
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