



# FACULTY DEVELOPMENT PROGRAMME(FDP) ON PYTHON AND R PROGRAMMING

(03-01-2018 to 09-01-2018)

Organized by

**Institute of Aeronautical Engineering  
Dundigal, Hyderabad, Telangana**

in association with

**National Institute of Technology, Warangal.**

Under the Scheme of Electronics & ICT Academy

(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, Gol. 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.

This Faculty Development Programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to Software Engineering and is open for Faculty members of engineering, MCA and other allied degree colleges from states mentioned above.

### Major Course Contents:

- Overview of R and Python
- Introduction to Python, Installation on Windows / Linux, Data Types and Operators, Creating Classes and Objects, Multithreading Errors,
- Control Statements, Standard I/O Operations, Functions, Running Python Scripts, Operations, Expressions,
- String and String Operations, Files, Dictionaries & Sets, Advanced Concepts in Python, Exception Handling, Decorators, Generators, Iterators & Co-routines, Connectivity of Python with MySQL, MongoDB, Twitter API,
- Basics of R & Data Types, Graphical Features
- Combination of Python with R, Sentimental analysis in R, Neural Networks in R, Use of Python & R for data science, Descriptive Statistics using R, Data Visualization in R, Linear Regression using R, overview of Data Science.

### Lab Sessions:

- Python Programming
- Object Oriented Programming with Python
- Database Connectivity with Python
- R Programming

### Faculty conducting this programme:

The programme 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 programme. Speakers from industries are also expected to deliver as part of the course.

### Eligibility:

The programme is open to the teachers of Engineering Colleges, MCA Colleges and other allied disciplines in Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry, Andaman and Nicobar Islands. Industry personnel working in the concerned /allied discipline can also attend.

### Registration Fee Particulars:

Faculty and Research Scholars from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa	Rs. 2500/-
Faculty of SC/ST Category from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa	Rs. 1250/- (SC/ ST participants should submit the copy of their caste certificate to claim the concession along with application form)
Industry Participants	Rs. 7500/-
Participants from other states	Rs. 8500/-

SC/ST concession is only for faculty of mentioned states. Research Scholars are not eligible for SC/ST concession.

The participants need to send a crossed demand draft (DD) drawn in favor of "Director, NIT Warangal" and payable at SBH, NIT Warangal branch.

### Organized at:

The programme will be coordinated and conducted by Department of Information Technology of Institute of Aeronautical Engineering (IARE), Dundigal, Hyderabad. The whole course is handled by academicians from premier institutions, Industry experts and Research advisors.

### 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 [kondasreenu@iare.ac.in](mailto:kondasreenu@iare.ac.in) as selection will be intimated only through mail.

### Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Additionally 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

### Important dates:

Last date (Application & DD)	23-12-2017
Selection List by E- mail	27-12-2017
Duration	03-01-2018 to 09-01-2018

### About NIT Warangal:

**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.

### About IARE, Hyderabad:

**Institute of Aeronautical Engineering (IARE), Hyderabad** was established in the year 2000 by a devoted group of eminent professionals and industrialists, having a long and outstanding experience in educational system with a mission 'Education for Liberation'. Started with aircraft maintenance engineering in the year 1994, it has gradually transformed itself into a premier integrated interdisciplinary technological institute offering B.Tech and M.Tech programs in CSE, IT, ECE, EEE, Aeronautical, Mechanical and Civil Engineering and MBA. IARE is Autonomous institute with permanent affiliation from Jawaharlal Nehru Technological University, Hyderabad. The institute is accredited by NAAC with 'A' Grade from 2015 to 2020 and also accredited by NBA (National Board of Accreditation) in Tier-II for all seven B.Tech programs - CSE, IT, ECE, EEE, Aero, ME and CE for a period of 3 years from June 2016 to June 2019.



## FACULTY DEVELOPMENT PROGRAMME(FDP)

### APPLICATION FORM PYTHON AND R PROGRAMMING

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#### SPONSORSHIP CERTIFICATE

1. Name :
2. Designation :
3. Institution :
4. Email :
5. DDNo: Bank: Date:

Dr. /Mr. /Ms. .... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “**Python and R Programming**”, sponsored by Electronics & ICT Academy during 03<sup>rd</sup> Jan – 09<sup>th</sup> Jan 2018 at IARE, Hyderabad-500043

Amount:

6. Address for Correspondence:

Signature of Head of Institution  
(With seal)

7. Educational Qualification:
8. Subjects taught so far:

#### Address for correspondence

Post your application form with DD to

**Dr. K Srinivasa Reddy, Professor & HOD  
Coordinator, FDP on Python and R Programming  
Department of Information Technology  
Institute of Aeronautical Engineering  
Dundigal, Hyderabad-500043  
Telangana, India**

9. No. of refresher courses/workshops attended:
10. Experience (in years):  
Teaching: Research: Industry:

E-mail the scanned copies of filled-in and duly signed Application form along with DD to [kondasreenu@iare.ac.in](mailto:kondasreenu@iare.ac.in)

11. Accommodation required: YES /NO
12. Do you belong to SC/ST : YES /NO

(If yes, please specify and attach a copy of caste certificate to claim the concession)

For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>

For more enquiries please contact:  
Mobile: +91-9849024285

#### 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.

Signature of the Applicant

### Coordinators

**Dr. K Srinivasa Reddy**  
Professor & HOD  
Department of Information Technology  
Institute of Aeronautical Engineering  
Dundigal, Hyderabad - 500043  
Telangana State, India.

**Prof. D V L N Somayajulu**  
Department of CSE  
National Institute of Technology  
Warangal - 506 004  
Telangana State, India.