FACULTY DEVELOPMENT PROGRAMME (FDP) ON
Machine Learning Using Python
(29th Nov 2018 to 5th Dec 2018)
Organised by
Department of Information Technology
Vasavi College of Engineering (Autonomous), Hyderabad
in association with NIT, 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, Govt. of India (GoI). The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa and Puducherry states and UT of 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.

About the Workshop:

The proposed FDP introduces concepts of Python and Machine Learning. It covers an overview of Machine Learning algorithms and their applications. The training comprises of a series of lectures and practical exercises. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation to a deeper study in this area.

Major Course Contents:

- Python programming: Introduction
  - Mutable and Immutable
  - Introduction to basic (native) data structure
  - Difference between list and array
- Analytics around / using Python
  - Numpy / Pandas / Scipy / Matplotlib
  - Vector and array manipulation
  - Plotting, functions, input and output
  - Hands on session using Python
- Machine Learning: Introduction
  - Supervised Vs Unsupervised Learning
  - Linear Regression, • Decision Trees, KNN
  - Multilayer Neural Network, Back propagation
  - Bayesian Networks, SVM
  - Clustering :K Means
  - Python API's for implementing Machine Learning Algorithms
  - Case Studies using Python

Course Evaluation:

Continuous assessments at logical intervals. Assessment includes MCQ's, Fill in the Blanks, True/False and/or scenario based questions.

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.

Eligibility:

The programme is open to faculty of Engineering Colleges, MCA Colleges and other allied disciplines in India. Industry personnel working in the concerned /allied discipline can also attend.

Registration Fee Particulars:

Faculty and Research Scholars	Rs. 2500/-
Faculty of SC/ST Category	Rs. 1875/- (SC/ ST participants should submit the copy of their caste certificate to claim the concession along with application form)
Industry Participants	Rs. 7500/-

SC/ST concession is only for faculty on first-come-first-give-concession. Research Scholars are not eligible for SC/ST concession.

Payment:

The registration fee should be paid in the form of DDs/online transfer using the following details:

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

Travel and Accommodation:

All the selected participants will have to make their own arrangements for their accommodation. No TA will be paid for the participants. Working Lunch, Tea & Snacks would be provided during the Training in the campus.

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 hodit@staff.vce.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 www.nitw.ac.in 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. 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 (Application & DD)	20-11-2018
Selection List by E- mail	23-11-2018
Duration of program	29-11-2018 to 05-12-2018

About the Institutes:

National Institute of Technology (formerly Regional Engineering College), Warangal is an Institute of National Importance and fully funded by MHRD, Govt. of India. It offers various programmes B.Tech. In eight branches, PG and M.Tech. Programmes and also Ph.D. programmes. Further, the institute organizes FDPs, Workshops and Conferences on cutting-edge technologies regularly throughout the year. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

VCE: Founded in 1981 by Vasavi Academy of Education, **Vasavi College of Engineering (VCE)** represents a rich tradition of excellence in technology-based education. A premier-league institution among the affiliates of Osmania University, VCE owes its vision to Sri Pendekanti Venkata Subbaiah, a veteran statesman of Independent India. VCE has been conferred with Autonomous Status by the University Grants Commission (UGC), New Delhi and Osmania University, Hyderabad for a 0period of six years with effect from the Academic Year 2014-15, for all the UG and PG Programmes. The College is implementing Choice Based Credit System (CBCS). **The Department of Information Technology** was established in the year 2000. The department offers a 4-year B.E Degree programme in Information Technology, with an annual intake of 120 students, with specific emphasis on emerging technologies and empirical mode of learning. The Department was re-accredited by NBA from 2017-20.

ELECTRONICS AND ICT ACADEMY, NIT WARANGAL
And
DEPARTMENT OF INFORMATION TECHNOLOGY
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD
Faculty Development Programme on
Machine Learning using Python
(29th Nov 2018 to 5th Dec 2018)
APPLICATION FORM

1. Name:
2. Designation:
3. Institution:
4. E-mail:
5. Mobile No.:
6. Mode of Payment : DD ☐ Online Transfer ☐
7. If DD
   DD No.:

   Bank: Date :
8. If Online Transfer
   NEFT /
   UTR No.:
   Bank: Date
9. Address for Correspondence:

10. Educational Qualifications with specialization:

11. Subjects taught so far:

12. No. of refresher courses/workshops attended:

13. Experience (in years):
    Teaching:
    Research:
    Industry:
14. Do you belong to SC/ST: YES / NO
    If Yes

SC	
ST	

    (Please submit the 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 **Machine Learning using Python** sponsored by Electronics & ICT Academy during 29th Nov 2018 to 5th Dec 2018 Vasavi College of Engineering, Ibrahimbagh, Hyderabad-500031.

Place:
Date: Signature of Head of Institution
                                    (with seal)

Address for correspondence:
Post your application form with DD to

Dr. K. Ram Mohan Rao, Assoc. Prof. & HOD
Department of Information Technology,
Vasavi College of Engineering (Autonomous)
Ibrahimbagh, Hyderabad – 500031, Telangana, India.

Mail the scanned copies of filled-in and duly signed application form with DD to **hodit@staff.vce.ac.in**

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

For any enquiry contact:

Mobile   : 8008527776 / 9618258122
Land line : 040-23146050

Coordinators

Prof. D V L N Somayajulu (Coordinator)
Chair, E & ICT and Professor
Dept. of Computer Science and Engineering NIT
Warangal -506004

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for women)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104

Mrs. D R L Prasanna
Dept. of Information Technology,
Vasavi College of Engineering
Ibrahimbagh, Hyderabad-500031, TS.

Department: Information Technology

2018-19

REPORT

FDP on "One Week FDP on Machine Learning using Python"

Date of program: 29-11-2018 to   05-12-2018

Resource person: Mr. Sri Saya Srineevasulu

About the Program: The proposed FDP introduces concepts of Python and Machine

Learning. It covers an overview of Machine Learning algorithms

and their applications. The training comprises of a series of

lectures and practical exercises. The participants obtain deep

insights of machine learning, which in turn helps them to apply it

in practice or as a foundation to a deeper study in this area.

Write how it's useful for upgrading skills in teaching n learning process.. example for taking new subject/ pre phd course work/ PhD research work /guiding project/ handling laboratory/any other benefits you can mention

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for women)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104.

Signature of the Faculty member

Dr.V.Supriya

T.Vandana