



# FACULTY DEVELOPMENT PROGRAMME (FDP) ON MACHINE LEARNING AND ITS APPLICATIONS

(30<sup>th</sup> March – 04<sup>th</sup> April, 2020)

Organized by

**E & ICT Academy, National Institute of Technology, Warangal**  
at

**Sri Vasavi Engineering College (Autonomous), Pedatadepalli, Tadepalligudem,  
W.G. Dist., Andhra Pradesh-534101.**

**(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, Andaman and Nicobar Islands, Goa, Pondicherry and Karnataka states/UTs. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, Curriculum development for Industry, Training & Consultancy services for Industry; CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

As part of this initiative, a Faculty Development Programme (FDP) on “Machine Learning and Its Applications” is being conducted at Sri Vasavi Engineering College (A), Tadepalligudem, Andhra Pradesh for the Faculty members of engineering colleges, industries and research laboratories.

This workshop introduces fundamental concepts of 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:

- Machine Learning Basics
- Supervised/Unsupervised/Semi-supervised Learning
- Reinforcement Learning
- Linear regression, Logistic regression
- Fuzzy Logic, Fuzzy C Means Clustering, Rough k means Clustering.
- Feature Selection / Extraction, Dimensionality Reduction
- Machine Learning in Big Data
- ANN, Deep Learning, Extreme Learning
- Python for Machine Learning
- Hands-on session using Python

## Faculty Conducting this Programme:

The programme will be conducted by the faculty members from NIT Warangal. Academicians from IITs/NITs/IIITs in concerned field are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver lectures.

## Eligibility:

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

## Organized at:

The programme will be coordinated and conducted by CSE department, Sri Vasavi Engineering College(A), Tadepalligudem, Andhra Pradesh.

## Accommodation:

No TA/DA will be paid to the participants. Accommodation is arranged for outstation participants. Working Lunch, Tea & Snacks would be provided during the training at SVEC campus.

**Venue: Digital Library, SVEC, Tadepalligudem.**

## Registration Fee Particulars:

- Faculty/Research Scholars : Rs. 2,500/-Only
- Industry participants : Rs. 7,500/-Only

Participants need to pay the Registration fee either in the form of Demand Draft (DD) or Online Transfer using the following details

DD Details	Online Transfer Details
Demand Draft in favor of “Electronics & ICT Academy NITW, NIT Warangal” payable at any bank in Warangal	Account Name: Electronics & ICT Academy NITW Account No.: 62423775910 Name : State Bank of India Branch: REC Warangal IFSC: SBIN0020149

## How to Apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with DD/Online Transfer Receipt) should reach the coordinator by speed post. It is also mandatory to send scanned application form & DD/ Online Transfer receipt through email to [csefdpml2020@srivasaviengg.ac.in](mailto:csefdpml2020@srivasaviengg.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 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 certificate on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

## Important Dates:

Last date for submission of application : **20<sup>th</sup> March, 2020**

Selection-list intimation/display before: **25<sup>th</sup> March, 2020**

Duration of Programme : **30<sup>th</sup> March to 4<sup>th</sup> April 2020**

## About NIT Warangal:

National Institute of Technology (formerly Regional Engineering College), 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 Institution imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech & Ph.D programs in various specializations.

## About SVEC:

Sri Vasavi Engineering College (SVEC), an Autonomous institution, stands among the top engineering colleges in the state of Andhra Pradesh. It was established in the year 2001 by Sri Vasavi Educational Society consisting of a group of educationists, industrialists and philanthropists with a desire to share the responsibilities of the society for the development of quality technical education.

The College is Located at Pedatadepalli, a peaceful and pollution-free location, 5 km away from the main town Tadepalligudem, West Godavari District. The town is well known as the commercial hub of coastal Andhra Pradesh and is well connected by road (NH16) and rail (Chennai to Kolkata).

NBA & NAAC accreditations bear testimony to top notch facilities available in the campus. SVEC became an autonomous engineering college in 2018. The college offers Seven B.Tech Programmes(CE, EEE , ME, ECE, CSE, CST and ECT) with total sanctioned intake of 840 ,five M.Tech Programmes (ES&VLSI, MD, Struct. Engg, PSC&A, CSE )and MBA with total sanctioned intake of 228.



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### APPLICATION FORM

- Name of the Applicant:
- Designation :
- Institution :
- E-mail ID :
- Mobile No. :
- Category
  - Faculty/Scholars (Rs.2,500/-)  DD /Online Transfer Receipt No: \_\_\_\_\_
  - Industry Participants (Rs.7,500/-) Bank: \_\_\_\_\_ Date: \_\_\_\_\_
- Address for Correspondence:
- Subjects taught so far:
- Educational Qualifications with specialization:
- No. of refresher courses/workshops attended:
- Experience (in years):  Teaching  Research  Industry
- Do you require accommodation during Training : YES/NO
- Do you belong to SC  ST

#### 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 and Its Applications" sponsored by Electronics & ICT Academy from 30<sup>th</sup> March to 4<sup>th</sup> April 2020, at Sri Vasavi Engineering College(A), Tadepalligudem, Andhra Pradesh.

Place :

Date :

Signature of Principal/Head of Institution

#### **Address for correspondence**

**Post your application form along with DD/NEFT Receipt to**

**Dr. D Jaya Kumari, Professor & HOD  
Dept. of CSE,  
Sri Vasavi Engineering College(A),  
Pedatadepalli, Tadepalligudem, W.G.Dist.,  
Andhra Pradesh-534101.**

*E-mail the scanned copies of filled-in and duly signed application form along with DD to [csefdpml2020@srivasaviengg.ac.in](mailto:csefdpml2020@srivasaviengg.ac.in)*

#### For Any Queries

**Dr. G. Loshma**  
Associate Professor,  
Dept. of CSE, SVEC  
Tadepalligudem.  
**Mobile: 9985846009**

**Dr. K. Shirin Bhanu**  
Associate Professor,  
Dept. of CSE, SVEC  
Tadepalligudem.  
**Mobile: 9441655763**

For more details about Electronics and ICT academy please visit: <http://www.nitw.ac.in/eict/>

#### Coordinators

**Dr. D Jaya Kumari,**  
Professor & HOD, Dept. of CSE,  
Sri Vasavi Engineering College(Autonomous),  
Tadepalligudem, W.G. Dist., Andhra Pradesh-534101

**Dr. R. B. V. Subramanyam,**  
Chief Investigator, E&ICT Academy,  
National Institute of Technology, Warangal-506004,  
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