



**ONLINE FACULTY DEVELOPMENT PROGRAMME
(FDP) ON
DEEP LEARNING AND MACHINE LEARNING APPLICATIONS
(ONLINE)**

(18-04-2022 to 28-04-2022)

Organized by

Electronics and ICT Academy, NIT Warangal

in association with

IITDM, Kurnool

and

Vasavi College of Engineering (Autonomous), Hyderabad

(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's 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 FDP:

Machine learning (ML) is the scientific study of algorithms and statistical models that computer systems use to perform a specific task without using explicit instructions, relying on patterns and inference instead. The purpose of machine learning is to discover patterns in the data and then make predictions based on often complex patterns to answer business questions, detect and analyse trends and help solve problems. Machine learning is effectively a method of data analysis that works by automating the process of building data models.

Deep learning is part of a broader family of machine learning methods based on learning data representations, as opposed to task-specific algorithms. Deep learning is a key technology behind driverless cars, enabling them to recognize a stop sign, or to distinguish a pedestrian from a lamppost. It is the key to voice control in consumer devices like phones, tablets, TVs, and hands-free speakers. It is the buzz word of today's Artificial Intelligence (AI) industry.

Major Course Contents:

- Importance of Machine Learning
- Regression Models
- Evaluation Hypothesis
- Dimensionality Reduction Techniques
- Neural Networks
- Artificial Neural Networks
- Unsupervised Learning
- Gaussian Mixture Models
- Hidden-Markov Models
- Introduction to Image Processing
- Convolutional Neural Networks
- Natural Language Processing
- Deep Learning for NLP
- Generative Adversarial Networks
- Fully Convolutional Networks
- Intelligent Wireless Sensor networks

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.

Registration Fee Particulars:

Faculty and Research Scholars	Rs. 750/-
Industry Participants	Rs. 2250/-

Participants need to pay the Registration Fee Online using the following details

Online Transfer Details
Account Name: Electronics & ICT Academy NITW
Account No: 62423775910
IFSC: SBIN0020149
Bank and Branch: State Bank of India, NIT (REC) Warangal

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/KYiinm1JDV8mrs3u6>

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 60 (sixty). 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 satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date (Application & DD)	4-04-2022
Selection List by E- mail	08-04-2022
Duration	18-04-2022 to 28-04-2022
Timings	02.00PM – 06:00PM

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 programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About Vasavi College of Engineering

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 period 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).

Accredited by NAAC with A++ Grade and UGC Autonomous status extended for 10 years.

About The CSE Department

Established in the year 1994, the Department of Computer Science and Engineering diligently strives to develop analytical & synthesizing skills, thus fostering the overall development of students. The Department is committed to building ethical and competent professionals with the support of highly qualified faculty, innovative novel curricula, and state of the art infrastructure. Apart from the curriculum, a value-added course, CISCO, is also offered to meet the contemporary market demands.

The programs offered by the department enable students to be recruited by distinguished multinational companies namely Amazon, Cisco, Microsoft, Qualcomm, Commvault, EA Games, Service Now, Accolite, Oracle, Pega Systems, JP Morgan, ADP, etc. MoU's have been signed with eminent organizations like Pega Systems, Infosys, UiPath, EPAM, Aptude, Inncircles, Navaratan Technologies, Chidhagni Consulting & Misplaced Minds that offer students training programmes, internships and placements. The Department has received a grant from AICTE under MODROBS to establish a lab for Industrial Internet of Things (IIoT). Seminars, workshops, theme-based projects and hackathons are conducted regularly to keep the students abreast in latest developments in Computer Science & Engineering. Furthermore, the department has been recognized as a research centre by Osmania University and two professors have been recognized as research supervisors.



APPLICATION FORM
FACULTY DEVELOPMENT PROGRAMME(FDP)



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1. Name :
2. Designation :
3. Institution :
4. Email :
5. Mobile No :
- 6.

Reference No:
Amount:
Bank:
Date:

7. Address for Correspondence:
8. Educational Qualification:
9. Subjects taught sofar:
10. No. of refresher courses/workshops attended:
11. Experience (in years):
Teaching: Research: Industry:
12. Do you belong to SC/ST : YES /NO

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

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “**Deep Learning and Machine learning Applications**”, sponsored by Electronics & ICT Academy during **18-04-2022 to 28-04-2022** at Vasavi College of Engineering, Hyderabad

Signature of Head of Institution
(with seal)

Address for correspondence

Post your application form

Dr. T.Adilakshmi Professor & HOD

Department of Computer Science & Engineering
Vasavi College of Engineering(Autonomous)
Ibrahimbag, Hyderabad-500031, Telangana State, India

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment and scanned application form has to be uploaded in the following online registration link.

Registration Link:

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

For more enquiries please contact:

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Dr. M. Sunitha Reddy
Mobile: 9849212814

Coordinators

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