ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)
ON

MACHINE LEARNING AND DEEP LEARNING FOR REALTIME APPLICATIONS

(10ᵗʰ – 17ᵗʰ August, 2020)
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, 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 Deep learning for real time applications" is being conducted for the faculty members of engineering colleges, industries and research laboratories. This workshop is suitable for faculty, researchers, post graduate scholars in academia and industry as well. The purpose of conducting this 5 - day workshop is to provide a hands-on-experience on real time applications using AI & ML methods. This workshop is devoted to address the need to enhance the knowledge about the latest technologies pertaining to Machine Learning and Deep Learning using Python. 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.

Major Course Contents:

- **Introduction to AI and its applications in real world.**
- **Introduction about machine learning, Types of Learning algorithms**
- **Un supervised learning methods, Partitioned and hierarchical clustering methods**
- **Bayesian learning, decision tree based classification methods**
- **Dimensionality reduction methods,**
- **Hands on to implementation of supervised and unsupervised methods**
- **Support vector machine classification and application**
- **Neural networks and practical implementations**
- **Introduction to Deep learning methods and applications**
- **Generative Adversarial Networks**
- **Hands on to implementation of Image data processing and analysis**
- **Reinforcement Learning, Optimization and Data driven Methods**

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 expecting 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.

Registration Fee Particulars:

- ❑ **Faculty/Research Scholars** : **Rs. 750/-Only**
- ❑ **Industry participants** : **Rs. 2250/-Only**

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

Online Transfer Details
Account Name: Electronics & ICT Academy NITW **Account No.: 62423775910** **Name : State Bank of India** **Branch: REC Warangal** **IFSC: SBIN0020149**

How to Apply:

Participants are required to fill the online registration form by clicking on the following link:
https://docs.google.com/forms/d/1REeOXZpfobsnp5HVMutIRQWx7D2gcureBtRd5eZIu0M/edit?ts=5f28d739

Selection Criteria:

This FDP is conducted by E & ICT Academy for KL University, MGIT Hyderabad, PES College of Engineering Shivamogga and VBIT Hyderabad and also for other faculty members of various Engineering Colleges.

Important Dates:

Last date for submission of application: **08 AUGUST, 2020**
Selection-list intimation/display before: **09 AUGUST, 2020**
Duration of Program: **10ᵗʰ to 17ᵗʰ AUGUST 2020**

About NIT Warangal:

National Institute of Technology, Warangal is the first among17 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 KL University:

The Koneru Lakshmaiah Charities was established as a trust in the year 1980 with its official address at Museum road, Governorpet, Vijayawada, Andhra Pradesh 520 002 and started KL College of Engineering in the Academic year 1980-81.

KL Deemed to be university was established in 1980-81, as KL College of Engineering, which was upgraded to KL College of Engineering Autonomous in 2006 by UGC, and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt.of India. In 2012 as a Deemed to be University the institution was accredited by NAAC with A Grade and later in 2018, was re-accredited by NAAC with A++ grade. In 2019 UGC, MHRD declared this intuition as Category I Institution.

About VMEG:

Vardhaman College of Engineering (VMEG) is one of the premier Autonomous Engineering Colleges in Telangana. The Department of Electronics and Communication Engineering has been playing a vital role in producing quality engineers ever since it was established in the year 1999. With its Qualified, Experienced, and committed Faculty/Staff, the department has expanded its activities enormously over the past 20 years. The department runs one undergraduate program and two postgraduate programs to cater to the ever-changing needs of technical excellence in all areas of Electronics and Communication Engineering such as VLSI Design, Embedded Systems, Telecommunications, Signal Processing, etc. It has well-equipped laboratories, its computer centers, and a departmental library to cater to the needs of UG, PG students. A Continuous stream of short-term courses, refresher courses, workshops, and winter/ summer schools is the general outlay of the department.

About MGIT:

Mahatma Gandhi Institute of Technology (MGIT) is one of the premier Engineering Colleges in the self-financing category in Telangana. MGIT is affiliated to Jawaharlal Nehru Technological University, Hyderabad and is approved by AICTE. The institute has received accreditation for six UG programs three times from National Board of Accreditation, New Delhi and is also accredited by NAAC with 'A' grade. The institute offers instruction in eight Undergraduate Programs (Computer Science Engineering, Information Technology, Electrical & Electronics Engineering, Electronics & Communication Engineering, Mechatronics, Metallurgical & Materials Engineering, Civil Engineering and Mechanical Engineering) and Six PG programs. The institute has received MHRDs NIRF-2020 Ranking in the rank band: 201-250.

About VBIT:

Vignana Bharathi Institute of Technology (Autonomous), accredited by NBA & NAAC with A grade, Sponsored by Swami Vivekananda Educational Trust (SVET) is the place where opportunities are provided for students to realize their ambitions, where new ideas are born, where innovative projects materialize, and where students excel in learning. The Institute has established its exclusive research center in the year 2010 with a view to promoting research activity in all the departments and spreading research culture among its staff members and students. Jawaharlal Nehru Technological University (JNTU) recognized VBIT as a Research Center in the year 2011. There are two major research projects (~ 65 lakhs) sponsored by Indian Space Research Organization (ISRO) which are getting implemented in the research center.

About PESITM:

PESITM – Shimoga has grown from strength to strength within a very short duration is currently offering a multitude of courses in Engineering and Management. PESITM presently offers Engineering programs in Computer Science, Electronics & Communication, Mechanical, Electrical & Electronics, Information Science, Civil and MBA PG program. PESITM has started M.Tech in Computer Science & Engineering and Digital Electronics from the academic year 2014-15.

Coordinators

Dr. Ravi Kumar Jatoth, NITW
Dr. Hathiram Nenavath, VMEG
Prof. K. Jaya Shankar, MGIT
Prof. Shiva Ganga Prasad, KL University
Prof. Pothalaiah, VBIT
Dr. Madhavi, PES ITM

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APPLICATION FORM

1. Name of the Applicant:

2. Designation :   3. Institution   :

4. E-mail ID   :   5.Mobile No.   :

6. Category   7. Payment Mode

    Faculty/Scholars   (Rs.750/-)   Online Transfer Receipt No:

    Industry Participants   (Rs.2250/-)Bank: _____   Date:

8. Address for Correspondence: 9. Subjects taught so far:

10. Educational Qualifications with specialization:

11. No .of refresher courses/workshops attended:

12. Experience (in years) : [   ]   Teaching [   ]   Research [   ]   Industry

13. Do you require accommodation during Training : **YES/NO**

14. 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 Deep Learning for REALTIME APPLICATIONS"** sponsored by Electronics & ICT Academy from 10th to 17th **August** 2020.

Place:
Date: **Signature of Principal/Head of Institution**

Interested faculty members Please fill the following google form

https://docs.google.com/forms/d/1REeOXZpfobsnp5HVMutIRQWx7D2gcureBtRd5eZIu0M/edit?ts=5f28d739

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