

Centre for Continuing Education of NIT Warangal:

The Centre for Continuing Education of NIT Warangal organizes Continuing Education Programs and Workshops in the frontier areas of Science, Engineering, Technology, Management, Humanities, Social Science and socially relevant themes on self-financing basis in three different modes: (i) At NIT Warangal by NIT Warangal (ii) At NIT Warangal in collaboration with other Organizations (iii) By NIT Warangal Faculty at the Host Organization/Institute.



About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 13 Departments offering eight undergraduate and 32 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure, state of the art library, seminar halls, guest houses and laboratories.

About the ECE Department:

The Department of ECE is one of the country's larger ECE departments among all NITs in India. The ECE Department at NITW has been an international

reputation of excellence in teaching, research and service. With excellent laboratory facilities and dedicated faculty, the department of ECE offers broad range of programs that include B.Tech (ECE), M.Tech (EI&ES, VLSI and ACS) and research (Ph.D) programs. Some of the recent sponsored project undertaken by the department includes Radar Emitter Identification using Neural Networks sponsored by DLRL, Hyderabad and Special Manpower Development in VLSI sponsored by MIT-Govt. of India.

About the CSE Department:

The Department of Computer Science and Engineering (CSE) offers B.Tech course in CSE, M.Tech courses in CSE, Information Security (IS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes like GIAN, International and national conferences throughout the year.

For any query regarding this programme, please contact the Coordinators.

Dr. B.K.N.Srinivasarao,
Assistant Professor, Dept. of ECE
Mobile: 9800296596
Email: srinu.bkn@nitw.ac.in

Dr.E. Suresh Babu,
Assistant Professor, Dept. of CSE
Mobile: 9440959713
Email: esbabu@nitw.ac.in



National Institute of Technology Warangal
Online Faculty Development Programme
on
“Machine Learning for IoT Applications”

07th – 11th September, 2020

Call for Registration and Participation

Coordinators

Dr. B. K. N. Srinivasarao
Dr. E. Suresh Babu

Organized by

Department of ECE & CSE

In association with the
Center for Continuing Education

How to Apply:

Eligible candidates may apply by filling the following google form with payment proof on or before 4th September, 2020.

Link: <https://forms.gle/iQ9qn4FY2C2Hi3hG7>



Overview of the FDP:

Rapid developments in hardware, software, and communication technologies have facilitated the emergence of Internet-connected sensory devices that provide observations and data measurements from the physical world. By 2020, it is estimated that the total number of Internet-connected devices being used will be between 25 and 50 billion. In addition to an increased volume, the IoT generates big data characterized by its velocity in terms of time and location dependency, with a variety of multiple modalities and varying data quality. Intelligent processing and analysis of this big data are the key to developing smart IoT applications. This FDP covers various machine learning methods that deal with the challenges presented by IoT data.

Objectives:

Main objective of this program is to provide knowledge on Intelligent processing and analysis of this big data are the key to developing smart IoT applications. And also provide the knowledge on various machine learning methods that deal with the challenges presented by IoT data. FDP also focus on hands on session using Raspberry Pi.

Topics to be covered:

- IoT applications and communication protocols, computing frameworks, IoT architecture, and smart city segments
- The quality of data, big data generation, sensor data integration, and semantic data annotation
- Tools to analyze data, Dimensions of data, Dimensionality reduction.
- Machine learning algorithms useful for IoT data and frequency of machine learning algorithms
- Linear and Non-linear Regression Models
- Recommendation Systems, Decision Analysis Supervised and Unsupervised learning
- Hands-on sessions are covered using Python Programming.

Registration is open to: Faculty members in all disciplines of Engineering, Sciences, Mathematics, Post Doctoral Fellows, Research Scholars, PG students, UG students who have an aptitude to work in the areas of Machine Learning and IoT.

Resource Persons:

1. Jayanta Mukhopadhyay, Professor, Dept. of CSE, IIT Kharagpur.
2. Pabitra Mitra, Professor, Dept. of CSE, IIT Kharagpur.
3. Debdoot Sheet, Asst. Professor, Dept. of EEE, IIT Kharagpur.
4. Faculty from different departments of NIT Warangal, will deliver lectures and conduct hands on sessions.

Registration fee:

Registration fee may be remitted Online through NEFT to the Bank account given below. Proof of remittance of the requisite registration fee (with transaction number if online transaction) shall be uploaded in the google form.

Category	Amount
Faculty, Post doctoral fellows , Research Scholars, PG students, UG students	Rs. 500 /-
Industry participants	Rs. 1000/-

Bank Details

Account Number	62403680215 (Savings Account)
Account Name	Center for Continuing Education NITW
Bank Name:	State Bank of India (SBI)
Branch:	NIT Warangal
IFSC Code:	SBIN0020149

Confirmation of Participation:

On receipt of the google form and fee remittance receipt, participants will be sent confirmation of their participation through email by 4th September, 2020. As the programme is conducted online with hands-on sessions, the number of participants in the workshop is limited to 100. **Candidates are advised to register early to avoid disappointment.**