

## Major Course Content

- Introduction to Machine Learning and Tools
- Data Preprocessing and Visualization
- Simple and Multiple Linear Regression
- Decision Tree and Support Vector Regression
- Introduction to Deep Learning ANN
- Tensor Flow and Keras using Python
- Recurrent Neural Network and types of RNN
- CNN Architecture and 3D CNN

## Who should Attend?

The programme is open to all Faculty/ Research Scholars/Industry Professionals/ MCA/ MBA /Degree/ Polytechnic and other eligible students can register the course.

## How to Apply

Eligible candidates may apply by filling the following google form with payment proof on or before 20<sup>th</sup> September, 2021.

<https://tinyurl.com/FDP-MLDL>

## Registration Fee

Registration is Rs 500 for UG/PG/Research Scholars and Faculty, Rs 1000/- for Industry people.

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) shall be uploaded in the google form.

Account Name	Centre for Continuing Education, NIT W
Bank Name	State Bank of India (SBI)
Account No	62403680215
IFSC Code	SBIN0020149
Branch	NIT Warangal

## Confirmation of Participation

On receipt of the google form and fee remittance receipt, participants will be sent confirmation of their participation through email by 22<sup>nd</sup> September, 2021. As the program is conducted online, the number of participants in the workshop is limited to 100. **Participants will get E-Certificate upon completion of the course**

### Chief-Patrons

**Dr. L. Rathaiah,**

Chairman, Vignan Group of Institutions.

**Sri. B. Sravan,**

CEO, Vignan Group of Institutions

### Patrons

**Dr. G. Apparao Naidu,**

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### Coordinator from NIT Warangal

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## VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(Affiliated to JNTU, Hyderabad)

Kondapur, Medchal, TS



## Center for Continuing Education NIT Warangal

ONE WEEK NATIONAL FDP

On

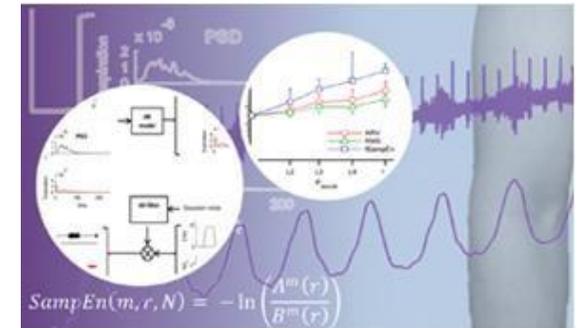
## Machine Learning and Deep Learning in Signal Processing Applications

27<sup>th</sup> September to 1<sup>st</sup> October, 2021

Organized by

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

in association with  
Center of Continuing Education  
NIT, Warangal



## About the Institution

Vignan's Institute of Management and Technology for Women (VMTW), is the brainchild of **Dr. L Rathaiah, Chairman, Vignan Group of Institutions**, was founded during August 2008, with four branches of Engineering.

**VMTW** is an exemplary institution of higher learning with a mission of pursuing excellence in education and research. The institution, with their diverse and dynamic community of about 2000 students offers a distinctive combination of some of the finest facilities for 7 different graduate, and undergraduate programs, accomplished faculty, world class facilities with hostel set on a sprawling area of 22 acres sylvan surroundings of mango groves and greenery.

While students at **VMTW** immerse themselves in academics, the college has a lot in store for them outside the classroom. Student life includes participation in sports, recreational & co-curricular and cultural activities. In short, at **VMTW** students will find an academic and social environment where everyone from faculty members to peers help shape their future.

**VMTW** is a home to aesthetically designed buildings with state-of-the-art computer and internet facilities, modern laboratories, workshops, seminar halls, auditoriums and well stocked libraries, sports and games fields.

The Institution boasts of a strong alumni network with alumni events held every year serving as a platform for past students to give back to **VMTW** and share their experiences with its present fellow students. With so much to offer, it is only natural that students of **VMTW** get a unique opportunity to carve a niche for themselves in their chosen field of study that enables them to become well-rounded and discerning citizens, fully qualified for their chosen professions in the workplace. Institute also brings out creativity in students by imparting engineering knowledge imbuing interpersonal skills to promote innovation, research and entrepreneurship.

## About the Department

Department of Electronics and Communication Engineering was started since the inception of Vignan's Institute of Management and Technology for Women during 2008 with an initial intake of 90. The strength was enhanced to 120 during 2010. The Department had added Post graduate programme in VLSI during the year 2011 and Embedded Systems during 2014 with an intake of 18 each.

The Department has state-of-art laboratories equipped with advanced and well maintained equipment, continuously updated application software packages, more than adequate computing systems with 24x7, 30 MBPS internet facility. The department is run by well qualified and experienced faculty & supporting staff.

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

## Centre for Continuing Education Programme of NIT Warangal

This Centre of NIT Warangal organizes Continuing Education Programmes 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 the Course

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.

Deep learning is part of a broader family of machine learning methods based on learning data representations, as opposed to task-specific algorithms. It is the buzz word of today's Artificial Intelligence (AI) industry

## Course Objectives

- Update the attendees with skills and knowledge in the field of machine learning and deep learning,
- Apprise the audience with pedagogical skills in the domain Deep Learning
- Unleash the hidden research potential in machine learning and deep learning domain to the aspiring researchers

## Expected Outcomes

At the end of FDP, participants will be able to

- Explore topics in Machine learning and Deep learning for their research work
- Select the research topic
- Design and implement various Machine learning and Deep learning algorithms in a range of real world applications

## Resource Persons

Eminent faculty from IITs, NITs, IIITs, Central Universities, Industry and Senior Faculty from different departments of NIT Warangal will deliver lectures and conduct hands on sessions.