

## CHIEF PATRON

**Thiru.S.S. Kandasamy,**  
President, Vellalar Educational Trust

## PATRON

**Thiru. S.D.Chandrasekar,**  
Secretary and Correspondent,  
Vellalar Educational Trust.

## PRESIDENT

**Dr.M.Jayaraman,Principal,**  
Velalar College of Engineering and  
Technology.

## VICE PRESIDENTS

**Prof.L. Peter Stanley Bebington**  
Dean (Academics)

**Prof.P. Jayachandar**  
Dean (Student Affairs)

## CONVENOR

**Dr.V.K. Manavalasundaram**  
Professor & HoD

## COORDINATORS

**Dr.K. Ganesh Kumar,** Associate Professor  
**Ms.V. Gomathi,** Assistant Professor

## ORGANISING COMMITTEE

**Dr.R. Mynavathi,** Associate Professor  
**Dr.S. Viveka,** Assistant Professor  
**Ms.T. Premamala,** Associate Professor  
**Ms.T. Nithya,** Assistant Professor  
**Mr.C. Saravanan,** Assistant Professor  
**Ms.V. Leela,** Assistant Professor  
**Ms.S. Suganya,** Assistant Professor  
**Ms.R. Maheshwari,** Assistant Professor  
**Mr.A. Logeswaran,** Assistant Professor  
**Ms.P. Prema,** Assistant Professor  
**Ms.D. Suganya,** Assistant Professor  
**Ms.R. Supriya,** Assistant Professor  
**Ms.N.V. Keerthana,** Assistant Professor

## ABOUT THE INSTITUTION

Velalar College of Engineering and Technology is a Self-financing Co-Educational Autonomus Institution established in the year 2001 with all the necessary infrastructural facilities provided by Vellalar Educational Trust that ably governs the institution. The college is approved by AICTE, affiliated to Anna University, Chennai and accredited with 'A' Grade by NAAC. The B.E./B.Tech programmes of BME, ECE, EEE, CSE and IT have been accredited by NBA. The Institution has completed 19 years of dedicated and excellent service in the field of technical education. The Institution offers eight UG Programmes (BME, Civil, CSE, ECE, EEE, IT, MECH and Medical Electronics) and six PG programmes ( M.E - CSE , Embedded System Technologies, Applied Electronics, VLSI Design, MBA and MCA). There are five Anna University approved research centres in the departments of ECE, EEE, CSE, Physics and Chemistry.

## ABOUT THE DEPARTMENT

Department of Information Technology was established in the year 2002 and offers a full time four years B.Tech degree programme. The vision is to promote learning and innovations in the field of Information Technology for the overall development of the lives and society. The mission is to provide students with comprehensive, interdisciplinary training in Information Technology to make them as experts, entrepreneurs and scientists with ethical values and to contribute significantly to the research and the discovery of innovative methods in computing and to offer expertise, resources, and services to the community



**AICTE**  
**Sponsored**



**Six Days Short Term Training  
Programme on**

**"DEEP LEARNING  
APPLICATIONS AND  
CHALLENGES IN  
BIG DATA ANALYTICS"  
(Series-1)**

**August 17 - 22, 2020**

**Organized by**

**Department of Information  
Technology**

**Velalar College of Engineering and  
Technology (Autonomous)**

(Accredited by NBA & NAAC with Grade 'A')  
Thindal, Erode - 638012, Tamil Nadu.

## RESOURCE PERSON

Experts from Industries and Academic Institutions

## OTHER IMPORTANT INFORMATION FOR PARTICIPANTS

- This STTP is only for faculty members of the AICTE approved institutions, research scholars, PG Students, participants from Government and industry.
- The STTP will be conducted through Online mode only.
- Participants willing to participate in this online STTP should have the provision of laptop/desktop/smart phone with good quality internet connections and other audio visual facilities, as required for online training.
- Course registration is free for all participants.
- Only Limited Seats are available and the participants are selected by first come first serve basis .
- Shortlisted candidates will be informed through their Email
- On completion of the course an objective type assessment will be done. The digital certificate will be issued to the participants who have an attendance of minimum 80% and score more than 60% in the assessment.

**REGISTER HERE**

## ABOUT STTP

Deep Learning (sometimes known as deep structured learning) is a subset of machine learning, where machines employ artificial neural networks to process information. AutoML the new way of doing deep learning, a change in the entire system. Inspired by biological nodes in the human body, deep learning helps computers to quickly recognize and process images and speech. Computers then "learn" what these images or sounds represent and build an enormous database of stored knowledge for future tasks It has networks capable of learning unsupervised from data that is unstructured or unlabeled. Also known as deep neural learning or deep neural network. The artificial neural networks are built like the human brain, with neuron nodes connected together like a web. While traditional programs build analysis with data in a linear way, the hierarchical function of deep learning systems enables machines to process data with a nonlinear approach.

Deep learning is used across all industries for a number of different tasks. Commercial apps that use image recognition, open-source platforms with consumer recommendation apps, and medical research tools that explore the possibility of reusing drugs for new ailments are a few of the examples of deep learning incorporation. It's a busy day in 2039 and you're watching a movie while being shuttled around by one of the countless autonomous vehicles that prowl the world's roadways. It brakes and accelerates when necessary, avoids smashing into things (other cars, cyclists, stray cats), obeys all traffic signals and always stays within the lane markers.

## TOPICS TO BE COVERED

- Introduction to Big data, Machine Learning and Deep Learning.
- Route to big data analytics.
- Overview of Machine Learning.
- Evolution of Deep Learning Algorithms
- Recurrent Neural Networks (RNN)
- Deep Neural Networks (DNN) Model
- Overview of Hadoop Architecture
- Big Data Tools
- Deep Learning platform and Libraries- Python
- Convolutional Neural Networks (CNN) Model
- NoSQL - Case Study
- Usage of Big data in Deep Learning algorithms
- Hands on Training on Spark, Hive, Pig
- NoSQL Database
- Scope of Research in deep learning
- Scope of Big data
- HDFS and Map Reduce
- Application of Deep Learning in Big Data
- Julia Interface
- Real time applications of Deep Learning
- Deep learning - Case study and Hands-on training

## CONTACT

Email: [vcetaicsttp@gmail.com](mailto:vcetaicsttp@gmail.com)  
Mobile No: 7402437377, 9524214882