

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science & Engineering, VNR VJIET was started in 1995, and is one of the prestigious departments for its ability of Research and Development activities apart from the regular academic work. It offers B.Tech in CSE, M.Tech- Software Engineering and M.Tech-Computer Science & Engineering. The Department is recognised as a Research Centre by JNTUH. It has good infrastructural facilities and well equipped laboratories with adequate software and hardware, supporting the latest technologies like of Cloud Computing,, Data Mining, Image Processing, Computer Networks and Artificial Intelligence.

The Department has well experienced and qualified teaching faculty and supporting staff. The teaching faculty, over and above the academic schedules actively indulge in research and publish papers in reputed journals and conferences. An exclusive Research and Consultancy Center (RCC) in the institute hosts Virtual Reality Laboratory & Android Applications Laboratory of the department. Center for Excellence in Data Science was established, attracting industry involvement and participation in encouraging the students and faculty to explore the research horizons in the domain and generate consultancy.. The Completed & Ongoing sponsored research projects are Driver Fatigue Monitoring System, Integrated Computing System for measuring safety index, GAIT Analysis, Converting Telugu text to speech index, Data Mining based revenue leakages identification. The Department conducts intensive FDP's, seminars, workshops, and technical symposia on latest trends and Technologies. The students and faculty actively undertake certification courses and keep them always ready to the changing needs of the industry.

About The Program

Intelligent systems are poised to fill a growing number of roles in today's society. These systems are technologically advanced machines that perceive and respond to the world around them. Intelligent systems

can take many forms, from facial recognition programs to Amazon's personalized shopping suggestions. The key factors that have contributed to this growth are the exponential growth of processor speed and memory capacity as well as algorithmic advances. The field of intelligent systems focuses on how these systems interact with human users in changing and dynamic physical and social environments.

Deep learning allows computational models that are composed of multiple processing layers to learn representations of data with multiple levels of abstraction. These methods have dramatically improved the state-of-the-art in speech recognition, visual object recognition, object detection and many other domains such as drug discovery and genomics. Deep learning discovers intricate structure in large data sets by using the back propagation algorithm to indicate how a machine should change its internal parameters that are used to compute the representation in each layer from the representation in the previous layer. Deep convolutional nets have brought about breakthroughs in processing images, video, speech and audio, whereas recurrent nets have shone light on sequential data such as text and speech.

This workshop provides an overview of the challenges in intelligent systems and mainstream deep learning approaches, the research directions proposed over the past decade. It presents a summary on the current state of the deep machine learning field and some perspective into how it may evolve. Convolutional Neural Networks (CNNs) and Deep Belief Networks (DBNs) (and their respective variations) are focused on primarily because they are well established in the deep learning field and show great promise for future work.

Objectives:

- Review intelligent systems in both fundamental and application-oriented ways, with a special focus on intelligent agents and multi-agent systems.
- Provide an overview of general deep learning methodology and its applications to a variety of signal and information processing tasks.

- Introduce the application areas that have already been transformed by the successful use of deep learning technology.
- Explore the application areas that have the potential to be impacted significantly by deep learning and that have been experiencing research growth.
- Handling research challenges like time-consuming computation in intelligent systems.

Resource Persons:

- **Eminent Speakers from Industry & Academia (IIT's, IIIT's NIT's & BITS)**

Important Dates:

- Last date for receipt of application, **duly attested** by the Principal/Director of the Institute: **20-4-2018**
- On-line Confirmation of Selection of Candidates : **05-05-2018**

Eligibility For Participation:

Faculty from all Engineering Colleges

Registration FEE:

Free for all the participants. Course work material, Lunch and Refreshments will be provided during the sessions.

Accommodation:

Limited accommodation for Non Locals will be provided on first come first basis with nominal charges.

Organizing Committee:

Dr. C. D. Naidu

Principal, VNR VJIET

Mrs. B. V. Kiranmayee,

HOD-CSE

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REGISTRATION FORM

**One Week National Level Workshop
On
“Intelligent Computing & Deep Learning “
Under AICTE – ISTE
Induction/ Refresher Programme Scheme
14th -19th May , 2018.**

Name :

Qualifications:.....

Designation:.....

Experience:.....

Address for Correspondence:
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Tel: (O).....(R).....

Fax:..... Cell:.....

E-mail:.....

Recommendation of Sponsoring Authority:

Date: Signature

College Seal Sponsoring Authority

INSTRUCTIONS TO THE PARTICIPANTS:As a part of the Registration all the participants are requested to forward the scanned copy of **Registration form duly signed by the Head of the Institutions, along with the scanned copies of College ID card, PAN & Aadhar Card.**

ABOUT VNR VJIE

Vallurupalli Nageswara Rao (VNR) Vignana Jyothi Institute of Engineering and Technology was established by “VIGNANA JYOTHI”. “Vignana Jyothi” was carved and created in the year 1991 by a dedicated group of Industrialists, Entrepreneurs and Professionals who felt that education is the light that wipes out the darkness of an uncertain future among the youth and determined to impart quality education to them without a profit motive. The institute, approved by AICTE & affiliated to JNTU was established in the year 1995 and is accredited thrice by NBA . Being one of the most preferred colleges in T.S, VNR VJIE is well known for its discipline, technical excellence, infrastructure, record student performance, research activities, etc. VNR VJIE was accorded autonomous status in the year 2012 under UGC and also accorded ‘A’ status by NAAC.

The college established exclusive research facilities in most branches of engineering and science. The Research and Consultancy Cell (RCC) handles sponsored and consultancy projects in the advanced areas of engineering. VNR VJIE has got Rs 4 Crores grant in aid from TEQIP under component 1.1 and 80 Lakhs grant from AICTE/UGC. The college is located near Bachupally Village, Ranga Reddy District.

LOCATION PLAN



**One Week National Level Workshop
On
“Intelligent Computing & Deep Learning “**

**Under AICTE – ISTE
Induction/ Refresher Programme Scheme**

14th -19th May , 2018.



Organized By

**Department of
Computer Science & Engineering**

VNR VJIE

