

Global Winter Course on
**Deep Learning and
Applications**

On

9th December 2019 to 13th December, 2019

REGISTRATION FORM

Name: _____

Designation: _ _____

Mobile No.: _____

College Name: _____

E-Mail: _____

Experience: _____

Area of Research: _____

Accommodation required: Yes/No

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 workshop.

Signature of the Applicant

Date :

Place :

Note: Send Registration forms to
csehod@nrtec.ac.in.

Any queries contact: +91-9849866902

ABOUT THE COLLEGE

The Narasaraopeta Engineering College was established in the year 1998 by Gayatri Educational Development Society, Narasaraopet, under the leadership of Sri M.V.Koteswara Rao, who has a vision of developing this college as an autonomous institution of higher learning & knowledge in the heart of Palnadu region. The college is approved by AICTE, permanently affiliated to JNTUK Kakinada, Accredited 'A' Grade by NAAC, Accredited thrice by NBA and ISO 9001: 2008 certified. The college has three recognized R&D centers by JNTUK. NEC is conferred as 'AUTONOMOUS' in the year 2016. The college has launched Incubation Centre where the students can implement their ideas. The college has an MOU with Oracle University (USA). NEC has MOUs with various Foreign Universities. The college offers seven M.Tech programmes, two PG courses of MCA, MBA and six courses at B.Tech level in the branches EEE, CSE, IT, ECE, ME and CIVIL. The college has well equipped laboratories including 1000 computers with a bandwidth of 146 MBPS internet. Microsoft Innovation Centre was established in the college through which more than 200 Mobile Apps, 50 Cloud Apps and 100 Windows Apps are uploaded every year.

In order to build a vibrant entrepreneurship ecosystem established Venture Development Centre (VDC) in association with i2E North Eastern University, USA and APSSDC. Also, the college has Indo-European skilling Centre for Mechatronics and Industrial Robotics in collaboration with APSSDC and ARC (Applied Robot Control), Germany. AP CM's Skill Excellence Center to provide students access to the most advanced courses by industry giants. The college has established Institution Innovation Council(IIC) as per the norms of Innovation Cell, Ministry of HRD, Govt. of India with ranked 3 Star Rating

Narasaraopet is known as the gateway of Palnadu. Narasaraopet is a town in Guntur District and is on the railway line of Guntur to Guntakal. Narasaraopet is 50km from Guntur and 25km to Chilakaluripet (NH5) by road. Narasaraopet is 120km away from Vijayawada Airport. Kotappakonda is the site of major religious pilgrim place of Lord Siva which is located 5km from Narasaraopeta Engineering College

Global Winter Course on
**Deep Learning and
Applications**

On

9th December 2019 to 13th December, 2019

In Association
With
MNIT-JAIPUR



Organized
By
**Department of
Computer Science & Engineering**



**NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)**

Kotappakonda Road, Yellamanda (P.O)

Narasaraopet – 522601, Guntur District, A.P.

Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada,

Accredited 'A' Grade by NAAC, Accredited by NBA,

Three Recognized R&D centers by JNTUK

Phone : 08647-239912

FAX : 08647-239902

E-Mail : csehod@nrtec.ac.in

ABOUT THE DEPARTMENT

The Department of CSE started in the year 1998, right from the inception of the college, boasts of well experienced and technically excellent faculty members. The department imparts knowledge and skills to inculcate the professional responsibilities, leadership qualities to succeed in diverse career, capability to utilize engineering skills in industry. The sincere efforts and dedication of our faculty and keen interest exhibited by our students have produced not only a commendable academic record and also remarkable achievements in co-curricular and extracurricular activities. The laboratory infrastructure is excellent with state of the art equipment and software. The department faculty encourages the students to implement innovative ideas in their project works, to develop industry readiness and R&D

OBJECTIVE OF SHORT TERM COURSE

This course is designed to provide an expertise on Deep learning and Applications. Participants will learn the Overview of machine learning, Supervised and unsupervised learning, Artificial Neural Networks, Neural networks, Gradient Descent and the back propagation algorithms, Regularization and Optimization. Difference between typical machine learning and deep learning. Convolutional Neural Network (CNN), Convolution/Pooling layers, Activation maps, CNN as a feature extractor, Some Standard CNN architectures like AlexNet, VGGNet, GoogLeNet, ResNet and more recent networks Autoencoders (AEs), Undercomplete and Overcomplete AE, Convolutional AE, Regularization, Sparsely regulated AEs, Denoising and Stacked AE. Generative Adversarial Networks (GAN), Variants of GAN. Brief Introduction to Recurrent Neural Networks, LSTM, GRU and their applications in machine translation, language modelling and sentiment classification. Object detection algorithms, R-CNN, Faster R-CNN, YOLO and SSD. Hands on- Object detection.

Global Winter Course On “Deep Learning and Applications” Modules

S.No.	Module Name
1	Introduction to Machine Learning and Artificial Neural Networks
2	Convolutional Neural Networks
3	Autoencoders and Generative Serial Networks
4	Recurrent Neural Networks
5	CNN Application to Classification and Detection Problems

Resource Persons:

Prof. Chakravarthy Bhagvati,
University of Hyderabad
Dr. Madan Dabbeeru,
Rakuten India, Bengaluru
Prof. Aparajita Ojha,
IIITDMJ
Dr. Santosh Vipparthi,
MNITJ
Prof. R. B. V. Subramanyam
NIT Warangal
Dr. Ramesh Battula
MNITJ

The registration is for FREE: However, a Demand Draft (DD) or CBS-Cheque of Rs. 1000/-, payable to "Electronics & ICT Academy, MNIT Jaipur is required to register in the course. This DD/Cheque will be returned back to the participant upon course completion.

Chief Patron

Sri M.S.Chakravarthi
B.Tech, MS (US),e-MBA (ISB-Hyd)
Vice-Chairman, NEC Group.

Patrons

Sri M.V.Koteswara Rao B.Sc,
Chairman, NEC Group.
Sri M.Ramesh Babu
Secretary, NEC Group.

Co-Patron

Dr. M. Sreenivasa Kumar
M.Tech., Ph.D (UK), MISTE.,FIE (I).
Principal.

Convener

Dr. S. N. Tirumala Rao,
Professor & Head, Dept. of CSE.

Coordinator

Dr. S.V.N Sreenivasu,
Professor in CSE

Co-Coordinators

Dr. B. Jhansi Vazram,
Professor.
Dr. S. Siva Nageswara Rao,
Associate Professor.
Dr. K.Lakshminadh
Associate Professor
Dr. M. Venkata Reddy
Associate Professor

ORGANIZING COMMITTEE

Ms. G. L. N. Jayaprade
Mr. K. Hazarathaiiah
Ms. M. Sireesha
Mr. K.Suresh Babu
Mr. G.E.Sastry
Ms. Sd. Rizwana
Mr Sk.K.M.Basha
Ms. O Aruna
Mr. P.Lakshminarayana
Mr S.P.B.Chary