

## Centre for Continuing Education of NIT Warangal:

The Centre for Continuing Education 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 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.



### Brief Profile of the Department of CS & E:

The Department of Computer Science & Engineering was established in the year 1991. The department offers high quality undergraduate, postgraduate and doctoral programs. The Department has a team of well experienced faculty, graduated from IIT's, NIT's, Central Universities and other premier Institutes of higher learning.

### About SASI Inst. Of Tech and Engineering:

SASI is offering eight UG programs, six PG programs and three diploma programs. The Institute has received NAAC, NBA accreditations, 2(f) & 12(b) status, permanent affiliation from JNTUK.

### Brief Profile of the Department of ECE:

The Department of ECE was inaugurated in the year 2002 with an intake of 60 seats and in the year 2007 the no. of seats are extended to 180. The Department is offering M.Tech (VLSI and Embedded Systems) and Communication Eng. and Signal Processing.

### Highlights of the Course:

- This short-term course will be conducted three hours a day with no overlap to the regular office hours.
- Hands-on session.

**For any query regarding this short term course, please contact the Coordinators.**

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Department of CSE

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Department of ECE



Center for  
Continuing  
Education

**NIT Warangal**



**Online Short Term Course on  
“Deep Learning and Its  
Applications”**

**Course Code: DLA**

**6<sup>th</sup>– 15<sup>th</sup> Feb, 2023**

**Call for Registration and Participation**

**Coordinators**

**Dr. M. Sandhya**

**Dr. G. Naveen Kishore**

**Organized by**

**Department of ECE, Sasi Institute of  
Technology and Engineering**

**In association with the  
Center for Continuing Education**



## Overview of the Short term course:

This short term course aims at acquiring the skill of Deep Learning from scratch and understanding the workings of the latest models and techniques to work on projects.

## Objectives:

- The course will positively impact the perceived ability to build and train deep neural networks
- Participants will be able to apply DL applications to real world problems

## Course Content:

- ✚ Anaconda Installation
- ✚ Introduction to Deep Learning, Neural Network Basics, Deep Neural Networks
- ✚ Back propagation, Hyperparameter Tuning, Optimization, Practical Aspects of DL
- ✚ Convolutional Neural Nets, Data Augmentation, Transfer Learning, CNN Visualisation, CNN Architecture
- ✚ Recurrent Neural Networks, Different Types of RNNs, Gated Recurrent Unit (GRU), Long Short Term Memory (LSTM), Bidirectional RNN, Deep RNNs, Reinforcement learning.
- ✚ Deep Learning Case Studies Demonstration in Image Processing, Computer Vision, Natural Language Processing

## Resource Persons:

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

## Registration is open to:

Faculty members in all disciplines of Engineering, Sciences, Mathematics, Life sciences, Management, Post Doctoral Fellows, Research Scholars, PG students, UG students who have an aptitude to work in Deep Learning.

## Benefits:

- ✚ Participants will get an e-certificate upon successful completion of the course.
- ✚ Course material will be shared with participants with the consent of the speaker.

**How to Apply:** Eligible candidates may apply by filling the following google form with payment proof on or before 20<sup>th</sup> January 2023

<https://forms.gle/rt8YjyGQLrWsFWG36>

## Registration fee:

Category	Amount
Faculty, Post doctoral fellows, Research Scholars, PG students, UG students	Rs. 1000 /-
Industry participants	Rs. 2000/-

The registration fee may be remitted Online through NEFT, Quick transfer, Gpay, PhonePe, Paytm, or any other UPI to the Bank account given below and upload the proof of remittance in the google form.

**Important Note:** Please enter course code **DLA** in remarks while doing transaction. This is mandatory.

<b>Account Number</b>	62403680215 (Current Account)
<b>Account Name</b>	Center for Continuing Education NITW
<b>Bank Name:</b>	State Bank of India (SBI)
<b>Branch:</b>	NIT Warangal
<b>IFSC Code:</b>	SBIN0020149
<b>Course Code:</b>	DLA

## 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> January 2023. 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.**