

Major Course Content

Artificial Intelligence: Artificial Narrow Intelligence, Artificial General Intelligence, Artificial Super Intelligence, Challenges and opportunities in Artificial Intelligence based applications

- ❖ **Machine Learning:** Challenges and opportunities in Machine Learning.
- ❖ Regression, Classification, Clustering, Association.
- ❖ **Deep Learning:** Conventional Neural Networks, Recursive Neural Networks, Generative adversarial networks, Deep Natural language Processing.
- ❖ **Python Programming:** Python Flow Control, Python Functions, Python Files, Python Object & Class
- ❖ **Softwares:** Jupiter Notebooks, Anaconda, Tensorflow, CUDA.
- ❖ **Packages:** Pandas, Numpy, and Matplotlib.
- ❖ **Python Advanced Topics:-** Python Iterator, Python Generator, Python Closure, Python Decorators, Python Property
- ❖ ANN, Back Propagation, RNN, Types of RNN, Deep RNN and Bidirectional LSTM
- ❖ **Real time Projects and Case studies will be discussed**

Who should Attend?

The programme is open to all Faculty/ Research Scholars/ Industry Professionals/ 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 20th November, 2021.

<https://forms.gle/VuHc4uUK79jpuRUVk8>

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/PhonePe/Google Pay to the Bank account given mentioned in this Brochure. below. Proof of remittance of the requisite registration fee (with transaction number) shall be uploaded in the Google form.

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Assistant Professor,

Incharge CCE & Coordinator,
Department of CSE, NIT Warangal,
Mobile: 9700553922, 8332969733

Email: raju@nitw.ac.in

Confirmation of Participation

On receipt of the Google form and fee remittance receipt, participants will be sent confirmation of their participation through email by 26th November, 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 from NIT Warangal

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



Geethanjali Institute of Science and Technology

(Affiliated to JNTUA, Ananthapuramu- NAAC "A")
Gangavaram, Nellore-524137: AP



Center for Continuing Education NIT Warangal

One Week National "STTP"
(Short Term Training Program)

On

**Advanced Concepts and Hands-on Training on
Artificial Intelligence, Machine Learning and Deep
Learning Applications**

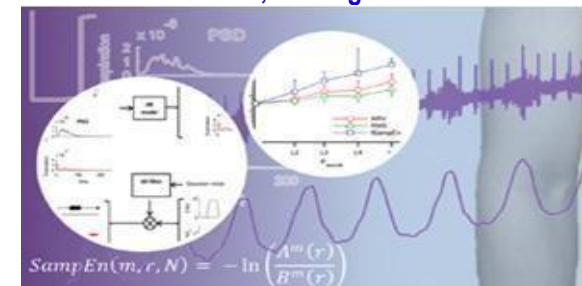
30th November to 4th December, 2021

Organized by

**Department of Electronics and Communication
Engineering
&
Department of R&D**

in association with

**Center of Continuing Education
NIT, Warangal**



About the Institution

Located in a picturesque lush landscape amidst aesthetic ambience near Nellore, it provides right teaching-learning environment. The institution is a NAAC 'A' Grade Institution. The Institution is approved by AICTE, New Delhi, Permanently affiliated to Jawaharlal Nehru Technological University, Anantapur. UGC has accorded 2(f) and 12(B) status for the institution.

The institution is registered as Remote Centre for IIT Bombay to conduct various faculty training programmes.

The Institution runs the Bachelor of Technology (B.Tech) courses in Electronics and Communication Engineering, Computer Science Engineering, Computer Science Engineering (Artificial Intelligence and Machine Learning), Electrical and Electronics Engineering, Mechanical Engineering and Civil Engineering.

Ushodaya Educational Society, with decades of experience and expertise in running educational Institutes established Geethanjali Institute of Science and Technology in order to provide quality Engineering and Technical Education to the rural and underprivileged lot on par with the creamy layer of society. The College is well connected by road with NH5 at 3 KM and Mumbai State High way at about 500 Meters away. The nearest Railhead is just 5 KM away. A network of roads and a variety of transport options at regular frequency, make it accessible from different places.

GIST envisages comprehensive development of the students and offers qualitative, enduring, enriching, educational experience making it a dynamic hub of academic excellence, vibrant with inventive and innovative practices and teaching-learning strategies.

About the Department

The Department of Electronics and Communication Engineering with its modern curriculum and syllabus has excelled in offering quality education to students. It has a well-planned infrastructure. With the active involvement of research and projects, the department provides a perfect platform for the academic and professional development of the Students. The Department has conducted many programmes sponsored by different agencies like NMEICT, APSSDC, and SHAR etc., the department is run by well qualified and experienced faculty & technical 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.

Course Objectives

To enhance the capabilities of participants with basic to advanced concepts of Artificial Intelligence, Machine Learning and Deep learning

Inspire the attendees with skills and knowledge in the field of machine learning and deep learning towards potential research with instructive skills in the domains of AI, ML and DL

Unleash the hidden research potential in machine learning and deep learning domain to

applications of image, audio, video and IoT. Overall, this training will serve to be a great platform for faculty, student and researchers to upgrade their knowledge in the area of Machine Learning, Deep learning, Computer Vision and its applications. Training on Machine Learning, Deep Learning techniques are concerned with data analysis, design and development of methods for the classification, description of patterns, objects, signals and processes

Expected Outcomes

At the end of FDP, participants will be able to

- ✓ Awareness of basic to advanced concepts of Artificial Intelligence, Machine Learning and Deep learning
- ✓ Hands on experience on AI, ML and algorithms and their contemporary real time applications
- ✓ Finding the scope of research in various areas of Engineering embedded by AI, ML and DL techniques

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.

