

Selection Criteria

Selection will be done based on *first-cum-first-serve basis* and the confirmed candidates will be notified immediately. The maximum number of participants will be 100 (hundred). Additionally 10 participants from industry are allowed to participate. The list of selected participants will be notified in the institute web site www.nriit.edu.in and also will be sent to their personal *e-mail* ids. In case a candidate is not selected, the demand draft will be sent back. A test will be conducted at the end of the course. Candidates will be issued certificates on successful completion of the course along with grade. Reservations are followed for selecting candidates as per GOI norms.

Important Dates

Last date for submission of application: **07th January, 2023**

Selection-list intimation/display before: **16th January 2023**

Duration of Program: **23rd Jan-01st Feb, 2023.**

NOTE

The participants need to send a crossed demand draft (DD) drawn in favour of “**Director, NIT Warangal**” payable at SBI, NIT Warangal branch. On line mode:

Account Name	Electronics & ICT Academy NITW
Account Number	62423775910
Name	State Bank of India
Branch	REC Warangal (NIT Campus)
Branch Code	20149
IFSC	SBIN0020149

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Sri. K. Sreedhar, Secretary, NRIIT

Patron

Dr. C. Naga Bhaskar, Principal, NRIIT

Dr. G. Rosaiah, Director Administration, R & D, NRIIT

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Dr.P.Rama Koteswararao, Dean, Dept. of ECE

Coordinators

Mrs. Yalamanchili Arpitha, Assoc. Professor, Dept. of ECE

Dr. J. Ravi Kumar, Dept. of ECE., NIT-Warangal.

Co-Coordiators

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Mr. P.N.B.Swamy, Assistant Professor, Dept. of ECE

Ministry of Electronics and Information Technology
(MeitY), GOI - E& ICT Academy,
NIT, Warangal



Sponsored

One week Faculty Development Programme

on

“Artificial Intelligence and Machine Learning for Real Time Applications”

23rd January to 01st February 2023



Organized by

Department of ECE



**NRI INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)**

**Approved by AICTE, New Delhi,
Permanently Affiliated to JNTUK,**

NAAC ‘A’ Grade, NBA, ISO 9001:2015 Certified

POTHAVARAPPADU (V)-521212, ELURU (Dt),

Andhra Pradesh, India,

Ph: 0866-2469666. Fax: 0866 2579918

Website: <http://nriit.edu.in>

About the College

The NRI Institute of Technology, Pothavarappadu is established in the state of Andhra Pradesh in the year 2008 under the patronage of Sri Durga Malleswari Educational society, Vijayawada, to provide quality technical education and to promote the research and development activities in Science, Engineering and Technological arenas. The institution is affiliated to JNT University, Kakinada and approved by AICTE, New Delhi. NRI Institute of Technology offers B.Tech courses in six branches of Engineering viz., CSE, IT, ECE, EEE, MECH and CIVIL Engineering. The institute also offers Post Graduate programmes in M.Tech., with five specializations viz., Computer Science and Engineering, Digital Electronics and Communication Engineering, Power Electronics and Drives, Structural Engineering, and Thermal Engineering apart from Master of Business Administration. All departments are well equipped with the state-of-the-art equipment, sophisticated laboratories, Computer Centers, with the most contemporary facilities backed by advanced computer systems with the latest software. The Institute has JNTUK Recognized R&D Centers in four departments and also has APSSDC Center to train the students on latest technologies. The institute has MOUs with reputed organizations.

About the Department

The Department of **ECE** was started in the year 2008. It offers undergraduate program accredited by NAAC-A Grade of UGC New Delhi. The Department has well qualified, dedicated faculty with good laboratory facilities including equipment required for research work. The faculties are actively engaged in research activities in their areas of specialization. The Department strives to develop long term relations with Industries and market the student talents effectively. The students are thus provided high level leads and pathways that enable them to gain access to a broad range of high potential and high-tech career opportunities.

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.

About the Program

The primary objective of this one-week Faculty Development Program (FDP) on Artificial Intelligence and Machine Learning for Real time applications is to enrich faculty members of with preliminaries of artificial intelligence and its modern applications in machine learning and deep learning. The FDP was divided into several modules falling under the umbrella of Artificial Intelligence including Machine Learning, Deep Learning, Data Science, Natural Language Processing and Digital Image Processing. The objective was to address modern trends in the field of Artificial Intelligence with real time problem solving. This program will provide an opportunity to highlight recent trends and developments to identify emerging and future areas of growth in these exciting fields. It will further give impetus to the researchers towards bringing out newer and efficient techniques. Expert invited speakers from both industry and academia with their vast research experience in various fields will arouse the researchers for development of signal processing and communication. This Program is focused to discuss state-of-the-art developments and emerging techniques in AI & ML.

Major Course Contents:

- Introduction to AI and ML
- Basic challenges and opportunities in AI, ML and DL
- Linear Regression, Polynomial and Logistic Regression along with data pre processing and Feature analysis
- Regression, Classification(SVM,KNN,RNN &CNN) and its Applications
- Feature Extraction and Dimensionality Reduction
- Clustering Paradigm
- Optimization methods and Metaheuristic Methods
- Introduction to AI, ML tools and techniques
- Advanced Research applications in AI and ML
- Real time applications related to Medical Image Processing, Signal Processing, Embedded Systems and VLSI.

Eligibility

The program is open to the research scholars, industry participants and faculty of all engineering colleges and other allied disciplines in Telangana, Andhra Pradesh, Karnataka States and Pondicherry, Andaman & Nicobar islands and Lakshadweep UTs. Industry personnel working in the concerned/allied discipline can also attend.

Pre-Requisites:

Strong knowledge of mathematical concepts such as probability, statistics, algebra, matrix, calculus etc is required. Apart from that basic programming knowledge with strong analytical skills and ability to understand complex algorithms is needed.

Registration Fee Particulars:

Faculty and Research Scholars.	Rs. 750/-
Industry Participants	Rs. 2,250/-

How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through e-mail to nitfdp.aiml@gmail.com as selection will be intimated only through mail.

Address for Correspondence:

Mrs. Yalamanchili Arpitha, Associate Professor, ECE Dept
Contact No. : 9493468888
Email: nitfdp.aiml@gmail.com

Dr. J.Ravi Kumar, Dept. of ECE,
NIT Warangal,

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For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>