

RESOURCE PERSONS

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



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 30th November, 2021.

<https://forms.gle/bddCPcLboRF39pU2A>

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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CONFIRMATION OF PARTICIPATION

On receipt of the Google form and fee remittance receipt, participants will be sent confirmation of their participation through email by 2nd December, 2021. As the program is conducted online, the number of participants in the workshop is limited to 100

Account Name : Center for Continuing Education

NITW, BANK NAME : SBI

ACCOUNT NO : 62403680215

ACCOUNT TYPE : Saving Account

IFSC CODE : SBIN0020149,

BRANCH : NIT WARANGAL



**D.N.R COLLEGE
OF**

ENGINEERING & TECHNOLOGY

(Permanently Affiliated to JNTUK, Kakinada- NAAC "B++")
Bhimavaram-534202, A.P



**Center for Continuing Education
NIT Warangal**

One Week Online FDP

(Faculty Development Program)

**Concepts on "Internet of Things with
Machine Learning and Artificial Intelligence"
towards advanced applications**

6th to 10th December 2021

Organized by

**Department Of Electronics
&**

**Communication Engineering
In Association with
Center of Continuing Education
NIT, Warangal**

ABOUT THE COLLEGE

DNR College of Engineering & Technology (DNR CET) established in the year 2010, is one of the constituent colleges of DNR Association established in 1945, playing a significant role in imparting technical education and having excellent infrastructure and modern laboratories, internet with Wi-Fi facility, Central library and Digital library. This Institute is accredited by NAAC with 'B++' Grade.

DNR College Association got approved from AICTE, New Delhi to run PG, UG, and Diploma courses in DNR CET. The college offers CE, EEE, ME, ECE and CSE at UG level, M.Tech specializations in STRUCTURES, MACHINE DESIGN, CSE and DECS. The college offers diploma courses in DECE, DEEE, DCE and DME. It has acquired good reputation in terms of infrastructure, placements and in providing quality technical education within a short span of time.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year 2010 to start a 4-year B.Tech. Degree program affiliated to Jawaharlal Nehru Technological University, Kakinada with an intake of 60. The intake was increased to 120 from the academic year 2012-13. The department offers PG course, M.Tech in Digital Electronics and Communication Systems with an intake of 18 seats and Diploma course, DECE with an intake of 60 seats.

The Department has contributed much through its committed academic legacy. The department of ECE has well qualified and rich experienced faculty with excellent infrastructural facilities. The department has all the laboratories with both hardware/ software and fully established with versatile equipments.

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 programs besides doctoral program. 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.

CENTRE FOR CONTINUING EDUCATION PROGRAMME OF NIT WARANGAL

The Centre for Continuing Education of NIT, Warangal organizes Continuing Education Programs 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.

OVERVIEW OF FDP

Today, everyone is focus on Internet of Things (IoT), Machine Learning (ML), Artificial Intelligence (AI) and Data management. Statistics shown an huge data will be grown and most of devices to be connected on Internet by 2025. The solution is integration of three technologies, namely IoT, ML, and AI. ML algorithms eliminates optimization and estimation of process, and allow to learn the patterns by itself and take autonomous decisions without new set of the rules

and regulation. AI eliminates human intervention wherever necessary and possible. IoT collects various parameters from sensors/devices and connect over Internet using various upcoming wireless technologies. In this FDP, various architectures, techniques and algorithms of IoT, ML and AI are to be incorporated for advanced knowledge for various technocrats for future applications.

OBJECTIVES OF THE FDP

- ⇒ To introduce fundamentals of IoT, ML, and AI with its applications.
- ⇒ The program would help the participants to understand the key concepts and advanced understanding on IoT, ML, and AI.
- ⇒ At the end of FDP, the participants is able to identify of optimized algorithm
- ⇒ To explore various research opportunities and challenges in the field of IoT, ML, and AI and its applications.

TOPICS TO BE COVERED

- ⇒ Overview of Machine Learning for IoT Connected Devices
- ⇒ Machine Learning and Artificial Intelligence use cases for IoT Connected Devices
- ⇒ Application of Machine Learning to fight Covid-19 Pandemic
- ⇒ Role of Machine Learning in IoT, IoT Reference Architecture
- ⇒ Intelligent IoT System using Machine Learning, Intelligent IoT Edge Computing
- ⇒ IoT and AI Applications in Agriculture System & Research directions in health care systems
- ⇒ IoT Intelligent Systems for smart cities