జాతీయ సాంకేతిక విజ్ఞాన సంస్థ వరంగల్
राष्ट्रीय प्रौद्योगिकी संस्थान वरंगल
National Institute of Technology Warangal
An Institute of National Importance

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

An Institute of National Importance

CENTRE FOR TRAINING AND LEARNING

Established under the Scheme of MMTTP, University Grants Commission (UGC), Ministry of Education, Government of India

Internship/ Comprehensive Training Programme on

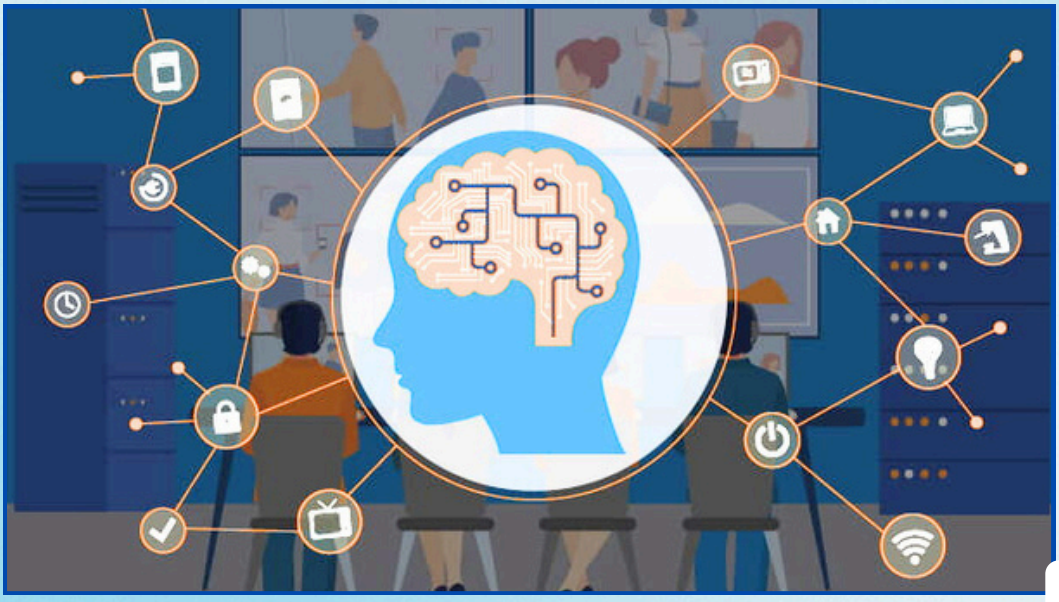
AIoT and its Applications

1 - 30 May 2025

This program explores Artificial Intelligence and Internet of Things empowering participants to develop intelligent, adaptive, and real-time systems across diverse sectors.

Thrust areas to be covered in the program:

- Artificial Intelligence and its applications
- Machine Learning
- Deep Learning & It's Applications
- Computer Vision, Image Processing
- Internet of Things, Industrial IoT, AIoT
- Programming on Hardware Platforms
- Case Studies on recent advances
- Hands-on sessions & Live projects
- Personality Development
- Communication Skills



Scan the QR code to Register

REGISTRATION FEE:
Rs.2500/- (incl. GST)

Last date for Registration:
25-04-2025

Program Coordinator:
Prof. T. Kishore Kumar
Head, CTL
NIT Warangal

INTERNSHIP/COMPREHENSIVE TRAINING PROGRAM ON

AIoT and Its Applications

1st MAY – 30th MAY 2025

Organized by

CENTRE FOR TRAINING AND LEARNING, NIT WARANGAL

Preamble about NITW:

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 14 Departments offering eight undergraduate and 31 post-graduate programs besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and research laboratories.

About CTL

The Centre for Training and Learning (CTL) has been established at NIT Warangal with grants from the Ministry of Education, through its scheme "Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)".Under this Scheme, a separate building has been built exclusively for the CTL activities, with the state-of-art training facilities that include a studio for production and uploading of video and e-lectures on various subjects of higher education, training halls to train the faculty in various theme areas of Science and Technology, humanities and social sciences, linguistics and communication skills, pedagogy and cognition evaluation, etc. among others. One of the important objectives of the Centre is to conduct training programmes for the aspiring, newly inducted and in-service faculty in science, engineering, social sciences disciplines in higher education. Other activities of the CTL include preparation of print and e-learning materials, offering on-line courses, curriculum design, carrying out research in educational technology and pedagogy and integrating with ICT into teaching-learning process. The CTL has special programmes of training for the marginalized and women-faculty.

About Training Program :

The world of technology has been rapidly evolving, and one of the most transformative intersections of technologies is the combination of Artificial Intelligence (AI) and the Internet of Things (IoT). Both AI and IoT have revolutionized various industries independently, but their convergence has the potential to reshape the way we live, work, and interact with our surroundings. Internet of Things refers to a vast network of interconnected devices embedded with sensors, software, and other technologies that enable them to collect and exchange data over the internet. These devices can range from everyday objects like smart home appliances and wearable devices to industrial equipment and smart city infrastructure.

On the other hand, Artificial Intelligence refers to the development of computer systems that can perform tasks that typically require human intelligence, such as learning from experience, reasoning, problem-solving, and decision-making.

AI technologies include machine learning, natural language processing, computer vision, and robotics. The convergence of AI and IoT has the potential to unlock new possibilities and efficiencies across numerous domains. By infusing AI capabilities into IoT devices and systems, these devices can become more intelligent, autonomous, and responsive to user needs. The combination of real-time data gathering through IoT and the analytical power of AI allows for smarter insights and predictions, leading to more informed decision-making.

AI in IoT enables devices to adapt to user preferences, optimize their performance, and even anticipate and prevent potential issues or failures. This has significant implications for industries such as healthcare, transportation, agriculture, manufacturing, energy management, and more.

In this training program we provide Industrial standard use of its architecture, applications for students, researchers, policymakers, with standards and best practices that promote the responsible development and deployment of AI in IoT systems.

As we delve deeper into this exciting realm of AI in IoT, it is crucial to embrace innovation while being mindful of its broader societal impact. By leveraging the potential of AI in IoT responsibly, we can pave the way for a more connected, intelligent, and sustainable future.

Major Course Contents:

- Introduction to Artificial Intelligence
- Machine Learning with Python
- Deep Learning & it's Applications
- Computer Vision, Image Processing
- Internet of Things, Industrial IoT, AIoT
- Artificial Intelligence in Healthcare
- Programming on Hardware Platforms such as Arduino, Node MCU, Raspberry Pi and Jetson nano
- Case Studies on recent advances
- Hands-on sessions & Live projects
- Personality Development
- Communication Skills

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal, Academicians from IITs/NITs/IIITs and Industry experts in the concerned field have been invited to deliver lectures in the programme.

Registration Particulars:

Interested 3rd year & Final year students of B.Tech (ECE/EEE/CSE and related streams) are invited to attend for this training Program from outside NIT Warangal. Participants are required to fill the online registration form by clicking on the following link: **https://forms.gle/3wZPkw2VCSDfS7S69**

Selection Criteria:

Selection will be done based on first-come-first-serve to a maximum number of 100 (One Hundred). The list of selected participants will be intimated through e-mail. Candidates will be issued certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date of Application	**25-04-2025**
Selection List by E-mail	**28-04-2025**

INTERNSHIP/COMPREHENSIVE TRAINING PROGRAM ON

AIoT and Its Applications

1st MAY – 30th MAY 2025

Organized by

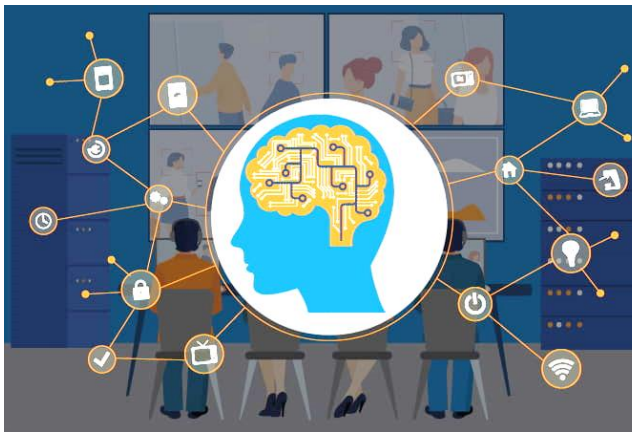
CENTRE FOR TRAINING AND LEARNING, NIT WARANGAL

1. Name :
2. Study :
3. Branch/Topic :
4. Year of Pursuing :
5. Institution :
6. Email :
7. Mobile No :
8. Address for Correspondence:

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 Training Program and shall attend the course for the entire duration. I also under take the responsibility to inform the coordinator in case, I am unable to attend the course.

Date:
Place: **Signature of the Applicant**



Registration Fee Particulars:

Students	**Rs.2,500/-**

Participants need to pay the registration fee of Rs.2,500/- (including 18% GST) by online using the following details:

Online Transfer Details
Account Name: **Head, CTL NITW** AccountNo:**40376545007** IFSC: **SBIN0020149** Bank and Branch: **SBI, NIT Br**

Note: Participants can choose Accommodation, Food and Travel on their own. The Accommodation will be provided on payment basis as per the Institute norms if needed.

How to apply:

Participants are required to fill the online registration form by clicking on the following link:
https://forms.gle/3wZPkw2VCSDfS7S69

SPONSORSHIP CERTIFICATE

Mr. /Ms..... is an student of our Institute/Organization and is hereby sponsored to participate in the program on **"AIoT and its Applications"**, organized by the **CTL** during 1st – 30th MAY 2025 at NIT Warangal, Telangana.

Signature of Head of Institution
(With seal)

Address for correspondence:

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Telangana-506004.
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For more details about CTL of NIT Warangal,

Please visit: https://nitw.ac.in