



NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

An Institute of National Importance

MALAVIYA MISSION TEACHER TRAINING CENTRE

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

12-Day (Online) Refresher Course on

Convergence of AI, IoT, and Smart Energy for Sustainable Electrical and Computing Systems

1-13 December 2025

Course Description:

This refresher course provides a comprehensive blend of fundamentals and emerging trends at the intersection of Artificial Intelligence, Internet of Things (IoT), and Smart Energy Systems. Covering sustainable electrical infrastructure, power systems, smart grids, microgrids, renewable energy, and electric vehicle technologies, it also explores AI-driven optimization, IoT-enabled automation, cloud computing, and data analytics. Hands-on sessions in MATLAB and Python strengthen computational and simulation skills for real-world smart energy and computing applications. Designed for professionals and academicians, the program emphasizes interdisciplinary convergence, sustainable solutions, and research-driven insights to prepare participants for the challenges of future electrical and computing systems.



**Scan the QR code
to Register**

Last date for Registration: 27-11-2025

NO REGISTRATION FEE

Course Content:

- Orientation: Convergence of AI, IoT, and Smart Energy
- Sustainable Power Systems and Smart Grids
- Microgrid Operation, Control, and Integration with IoT
- Renewable Energy Systems & Energy Storage Technologies
- Electric Vehicle Technologies, Charging Infrastructure, and Smart Mobility
- Internet of Things (IoT) for Smart Energy and Sustainable Applications
- Artificial Intelligence: Concepts, Tools, and Sustainable Engineering Applications
- Cloud Computing, Data Analytics, and Digital Twins for Smart Energy Systems
- MATLAB and Python for AI, IoT, and Energy Applications
- Agentic and Distributed Intelligence in Smart Grids and Energy Networks

Resource Persons for this program:

Faculty members from NIT Warangal and Academicians in the concerned field from IITs, NITs and Industry Experts will be invited to deliver lectures in the program.

Course duration:

There will be 12-days (1 - 13 December 2025 excluding Sunday) (72 hours) of engagement including live sessions, Hands-on sessions, assignments, etc.

Certification criteria:

The participants must maintain 80% of Attendance, need to submit Assignments in time, and qualify in the final exam with 60% of marks. Candidates will be issued certificates on successful completion of the course.

Who can apply ?

Faculty members in Central, State, Deemed to be Universities, Private Universities, Institutions of National Importance, Colleges and other HEIs; Contractual, Ad-hoc, Guest faculty Teachers and Research Scholars (Ph.D. level) in HEIs etc. are eligible. Preference will be given to first-come first-served basis.

Selection Criteria:

Selection will be done based on first-come first-served to a maximum number of 50 Faculty/industry participants. PhD scholars are allowed to participate. The list of selected participants will be intimated through e-mail. There is **No Registration Fee** to attend this program.

Note: This Program shall be considered for regularization/ Career Advancement Scheme (CAS). As per UGC guidelines, attending Online Courses under MMTTP, UGC will be treated as on duty/duty leave.

About MMTTC of NIT Warangal:

The Malaviya Mission Teacher Training Centre (MMTTC) was established at NIT Warangal in the year 2015 under the scheme "Malaviya Mission on Teacher Training Programme (MMTTP)" sponsored by the University Grants Commission (UGC), Ministry of Education, Government of India. Since its inception, the Centre has successfully organized various programs in the form of NEP Orientation programs, Short-term programs, Refresher Courses, FDP programs and one-month duration Faculty Induction Program (FIP) for Higher Education Faculty in various theme areas of Science and Technology, Humanities and Social Sciences from which more than 8000 participants have benefitted. Other activities of the MMTTC include offering online courses, curriculum design, carrying out research in educational technology and pedagogy and integrating ICT into the Teaching-Learning process. The MMTTC NIT Warangal has been conducting various programs, online and offline following MMTTP Guidelines and UGC Regulations.

How to Apply? :

Interested participants are required to register by using the online form, link provided below, on or before Last Date. There is **NO REGISTRATION FEE**. It is mandatory to submit the **Nomination Form** from your organization to consider your application.

Registration link: <https://mmc.ugc.ac.in/registration/Index>

or through Google Form: <https://forms.gle/cbzFsJk7i2pk3FZE8>

Program Coordinators

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Important Dates:

Last Date of Application: 27th November 2025

Intimation of Selection: 28th November 2025

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