



5-DAY ONLINE SHORT TERM TRAINING PROGRAM (STTP) ON
From Modelling to Machine Intelligence: AI, ML and Data-Driven
Decision Making
(14th – 18th Dec 2026)

Organized by
CENTRE FOR TEACHING AND LEARNING, NIT Warangal

(Established under the PMMMNMTT Scheme, Ministry of Education, Govt. of India)

in association with

Department of Mathematics
National Institute of Technology Warangal

Preamble:

The Centre for Teaching and Learning (CTL) has been established at NIT Warangal with grants from the Min. 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 programs 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 the teaching-learning process. The CTL has special programs of training for the marginalized and women-faculty.

About STTP:

This five-day Short-Term Training Programme (STTP), titled “*From Modelling to Machine Intelligence: AI, ML and Data-Driven Decision Making*,” is designed to provide participants with an interdisciplinary understanding of mathematical modelling, data analytics, machine learning, artificial intelligence, optimization, and decision science. The programme connects mathematical foundations with modern computational intelligence and real-world applications across science, engineering, statistics, finance, economics, management, and industry. Through expert lectures, examples, case studies, and practical insights, participants will learn how data, models, and intelligent algorithms can be integrated to support effective, reliable, and informed decision-making.

Major Course Contents:

- * *Mathematical modelling and data-driven problem solving*
- * *Foundations of AI, ML, probability and statistics*
- * *Data preprocessing, visualization and feature engineering*
- * *Regression, classification, clustering and predictive analytics*
- * *Neural networks, deep learning and generative AI*
- * *Optimization and decision-making under uncertainty*
- * *Intelligent decision systems and interdisciplinary applications*
- * *Explainable, responsible and trustworthy AI*

Faculty conducting this programme:

The faculty members from NIT Warangal will conduct the programme. Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

Registration Fee Particulars:

Faculty Members	Rs.1180/-
Students / Research Scholars	Rs. 885/-
Industry Participants:	Rs.2360/-

Participants need to pay the Registration Fee Online using the following details:

Online Transfer Details	
Account Name: Head, CTL NITW	
Account No: 40376545007	
IFSC: SBIN0020149	
Bank & Branch: State Bank of India, NIT(REC) Warangal	

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/WUG93LDK3EJB8a4DA>

Selection Criteria:

Selection will be on a first-come, first-served basis for up to 100 participants, with an additional 10 seats for industry participants. Selected candidates will be informed by e-mail. Registration fees will be refunded to non-selected applicants. Certificates will be issued upon successful completion. GOI reservation norms will be followed.

Important Dates:

Last date (Application & DD):	Dec 12, 2026
Selection List by E- mail:	Dec 13, 2026
Programme Duration:	Dec 14 – 18, 2026

About NIT Warangal:

National Institute of Technology Warangal, established in 1959 as Regional Engineering College, is one of India’s premier technical institutions. The Institute has 14 departments offering undergraduate, postgraduate and doctoral programs to students from India and abroad. Spread across a 250-acre residential campus, NIT Warangal provides excellent academic and research infrastructure, including a modern library, seminar halls, guest houses and advanced laboratories.

For more details, visit: <https://www.nitw.ac.in/>

For more details about CTL of NIT Warangal, please visit:

<https://nitw.ac.in/ctlcenter>

Coordinators

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