MALAVIYA MISSION TEACHER TRAINING PROGRAMME

शिक्षा मंत्रालय
MINISTRY OF EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

An Institute of National Importance

MALAVIYA MISSION TEACHER TRAINING CENTRE

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

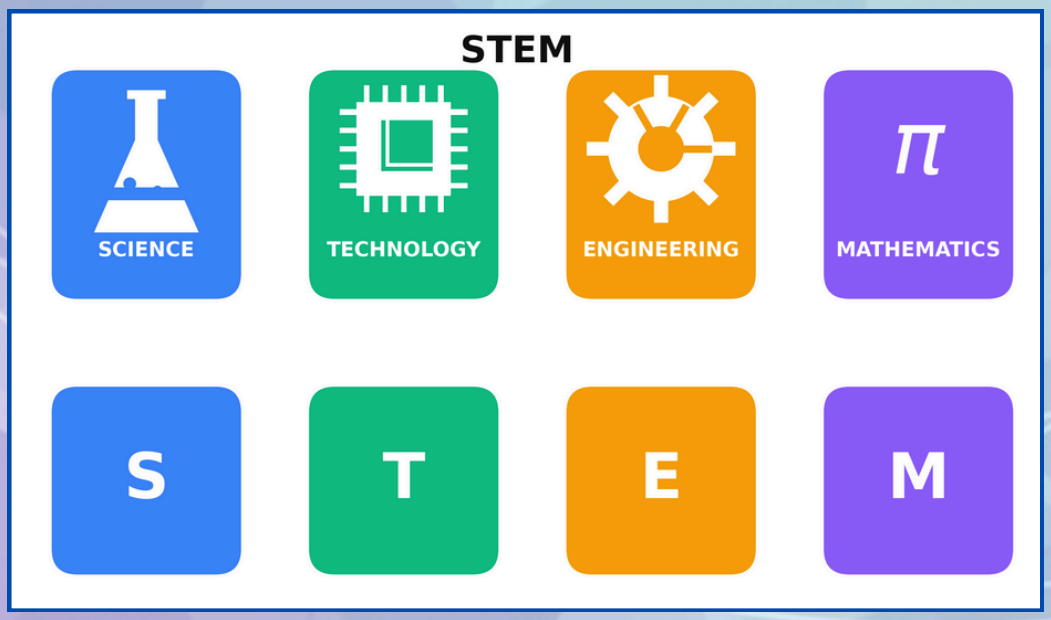
12-Day (Online) Refresher Course on

Foundations of Data Science and Machine Learning for STEM Professionals

3 - 15 November 2025

Course Description:

The Refresher Course on Foundations of Data Science and Machine Learning for STEM Professionals is designed to strengthen the essential mathematical and computational underpinnings required to engage with modern data-driven research and applications. The program revisits core concepts such as linear algebra, probability and statistics, optimization, and algorithms, while connecting them to practical methods in data science and machine learning. Through an interdisciplinary lens, participants from diverse STEM backgrounds will gain conceptual clarity, analytical skills, and an appreciation of how these foundations drive advances in artificial intelligence, predictive modeling, and decision-making. The course aims to empower faculty professionals to integrate data science principles into teaching, research, and real-world problem solving.



Scan the QR code to Register

Last date for Registration: 31-10-2025

NO REGISTRATION FEE

Course Content:

- Linear Algebra for Data Science
- Probability & Statistics
- Optimization & Algorithms
- Data Handling & Preprocessing
- Exploratory Data Analysis (EDA)
- Introduction to Machine Learning Paradigms
- Supervised Learning (Regression)
- Supervised Learning (Classification)
- Unsupervised Learning
- Neural Networks & Deep Learning Basics
- Applied Data Science & ML in STEM

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 (3 - 15 November 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 100 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/YNMA15SwWqUQ8DNr9

Program Coordinators

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Important Dates:

Last Date of Application: 31st October 2025

Intimation of Selection: 1st November 2025

MALAVIYA MISSION TEACHER TRAINING CENTRE

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

Prof. M. Sailaja Kumari
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NIT Warangal

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