



# ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

## Applications of Machine Learning and AI in Mechanical Engineering (26<sup>th</sup> May to 06<sup>th</sup> June 2025)

Organised by

Electronics & ICT Academy, NIT Warangal

In Association With

Department of Mechanical Engineering

Vasavi College of Engineering (Autonomous), Hyderabad

Sponsored by

Ministry of Electronics and Information Technology (MeitY), GoI



### Preamble:

"Electronics & ICT Academy – Phase II" was set up at NIT Warangal with financial assistance from MeitY, GoI. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

### About the FDP:

This FDP is dedicated to address the need to enhance the skill set on the latest technologies pertaining to Machine learning and Artificial intelligence in Mechanical Engineering. This FDP initially focuses on the basics of AI and ML and the subsequent applications in Mechanical Engineering so that the participants will be immensely benefitted. The FDP is conducted online by Department of Mechanical Engineering, Vasavi College of Engineering (A), Hyderabad in association with National Institute of Technology, Warangal. The entire course is designed to be handled by experienced academicians from the institutes like IITs & NITs and industry experts.

### Major Course Content:

- Introduction to machine learning and its applications.
- Mathematics of machine learning.
- Problem solving using machine learning.
- IoT based additive manufacturing / fault detection / Fault detection / Industry 4.0
- AI & ML applications in machining / welding/ medical image processing.
- Applications of AI based intelligent Robotic systems.
- Explainability in Artificial Intelligence.
- Case Studies and Industry Applications.

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

Online Transfer Details	
Account Name	: Electronics & ICT Academy NITW
Account No	: 62423775910
IFSC	: SBIN0020149
Bank and Branch:	State Bank of India, NIT(REC)Warangal

### Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; 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.

Faculty and Research Scholars	Rs.750/-
Industry Participants	Rs.2250/-

### How to apply:

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

<https://forms.gle/5mqFLnSxGwcWRq8>

### Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Candidates will be issued satisfactory certificates on successful completion of the course.

### Important Dates:

Last date(Application)	22.05.2025
Selection List by E-mail	23.05.2025
Duration	26.05.2025 to 06.06.2025

### About NIT Warangal:

National Institute of Technology, Warangal, is the first among 17 RECs set up as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard, leading to B.Tech degrees in various branches of engineering, M.Tech, and Ph.D. programmes in various specializations. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

### About Vasavi College of Engineering (A), HYD:

Established in 1981 by Vasavi Academy of Education, VCE represents a rich tradition of excellence in technology-based education. A premier-league institution among the affiliates of Osmania University, The college is accredited by NAAC with 'A++' GRADE also offers seven UG (Civil, Mechanical, ECE, CSE, CSE AI & ML, EEE and IT) with the total sanctioned intake of 780 and 5 PG programmes [ME (ES & VLSI); ME (CE & SP); ME (ADM); ME(PS & PE); and M.Tech (CSE)] with the total sanctioned intake of 96]. The college has been granted autonomy by the University Grants Commission, New Delhi and Osmania University, for all the programs for a period of six years with effect from 2014-15 and has been extended the autonomous status for a period of ten years from 2021-2022 to 2030-2031. All the 5 UG programs (Civil, CSE, ECE, EEE & Mech. Engg.) applied for NBA accreditation under Tier-I have got accreditation for 3 years with effect from 2024-27.

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