# ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON

# AI-Driven Approaches for Resilient and Sustainable Infrastructure

**(16th November – 25th November 2026)**

**Organised by**

**Department of Civil Engineering**

**And**

**Department of Computer Science and Engineering**

**E & ICT Academy, NIT Warangal**

**(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)**

## Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. 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 Faculty Development Programme (FDP) on **"AI-Driven Approaches for Resilient and Sustainable Infrastructure"** is designed to equip educators, researchers, and industry professionals with cutting-edge competencies at the intersection of data science and modern engineering. As climate change and urbanization strain critical systems, traditional engineering frameworks are no longer sufficient. This program serves as a vital bridge, empowering participants to transform standard infrastructure into intelligent, self-healing, and eco-friendly systems. Key objectives of this FDP are to empower educators, bridge the skills gap, foster resilience and drive sustainability. Attendees will walk away with hands-on experience in AI driven approaches for resilient and sustainable infrastructures, ready to spearhead interdisciplinary research, secure modern funding grants, and inspire the next generation of forward-thinking engineers.

## Major Course Contents:

- Advanced Concrete Technology & Composite Materials
- Nanotechnology Applications in Civil Engineering
- AI-Driven Structural Engineering
- Intelligent Transportation Systems (ITS) & Traffic Engineering
- Smart Geotechnics & Advanced Geosynthetics
- Machine Learning for Resilient Infrastructure
- Advanced Remote Sensing & GIS Integration
- AI/ML Applications in Geospatial Systems
- Advanced Digital Twins & Extended Reality (XR)
- Smart & Digital Environmental Systems
- Air Quality alerts
- Advances in Integrated Water resources Management
- AI/ML for Climate Change Adaptation
- AI Applications for Disaster Mitigation

## Registration Fee Particulars:

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|---|---|
| **Faculty and Research Scholars** | **Rs. 500/-** |
| **Industry Participants** | **Rs. 2250/-** |

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 Warangal** |

## How to apply:

Participants are required to fill in the online registration form by clicking on the following link:
https://forms.gle/2oSMxWcpYUVi6Xyb9

## Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 40 participants. Candidates will be issued satisfactory certificates on successful completion of the course.

## Important Dates:

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|---|---|
| **Last date (Application & payment)** | **14.11.2026** |
| **Selection List by E- mail** | **15.11.2026** |
| **Duration** | **16.11.2026 to 25.11.2026 (2:00 pm to 4:00 pm & 4:15 pm to 6:15 pm)** |

## About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as 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 the 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. There are 14 Departments offering eight undergraduate and 31 postgraduate 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.

## 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.

## Coordinators:


**Dr. B. Kavitha**
Assistant Professor, Department of Civil Engineering
NITW, Telangana– 506004
Email: kavithab@nitw.ac.in Mob: 8610688067

**Dr. S. Anitha Priyadharshani**
Assistant Professor, Department of Civil Engineering
NITW, Telangana– 506004
Email: priyadharshanianitha@nitw.ac.in, Mob: 9489192069

**Dr. M. Srinivas**
Associate Professor, Computer Science and Engineering
NITW, Telangana– 506004
Email: msv@nitw.ac.in Mob: 88970 64421