National Institute of Technical Teachers Training & Research, Chandigarh
Civil Engineering Department and Computer Science & Engineering Department

Faculty Development Programme on
AI Concepts and Practices for Civil Engineers

Mode:	Online (Through Google Meet)
Dates:	13-17 October 2025
Target Audience:	Technical Teachers/Technical Staff/ ME/PhD Research Scholars of AICTE approved Engineering colleges/ Polytechnics/Universities
	Consultants/Designers/Contractors/Representatives from planning divisions, architectural firms, design and construction firms, State and Central Government Departments like PWD, CPWD, Railways etc.
Resource Persons	Academicians from reputed institutes like IITs, NITs, NITTTR and Industry Professionals
Registration Fee:	Rs 590/- for faculty, technical staff and ME/PhD Scholars of AICTE approved Engineering colleges/ Polytechnics/Universities
	Rs 5900/- for Industry Professionals and others
Registration	https://fdp.nitttrchd.ac.in/fdp2025/

Course Contents:	■ Basics of Artificial Intelligence and Machine Learning
	■ Artificial Neural Network, Fuzzy Logic
	■ Explainable AI
	■ Data Analysis using Python/Orange tool (Hands-on Sessions)
	■ AI Applications in Civil Engineering with Case Studies
	   ❖ Materials design and prediction
	   ❖ Smart buildings - forecasting
	   ❖ Intelligent Buildings
	   ❖ Highway engineering
	   ❖ Disaster management
	   ❖ BIM and Digital Twins
	   ❖ Design, construction and maintenance of infrastructure
	   ❖ Remote Sensing
	The mode of delivery shall be through lectures, demonstrations, discussions and hands-on-practice.

Course Coordinators:

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