



Engineering Staff College of India
An Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad-500 032
(IMS (ISO 9001:2015, ISO 14001:2015, ISO 50001:2018,
ISO 45001:2018 Certified], AICTE & CEA Recognized Institution)
(NABL Accredited Civil Engineering Testing Laboratory)



CIVIL & TRANSPORTATION ENGINEERING DIVISION

Training and Development Programme on
Implementation of AI in construction Projects & BIM
08th – 12th June, 2026

Venue : ESCI, Hyderabad



Centre for Promotion of Professional Excellence

INTRODUCTION:

The construction industry is undergoing a major digital transformation with the adoption of Artificial Intelligence (AI) and Building Information Modeling (BIM). Traditional construction methods often face challenges such as project delays, cost overruns, safety risks, material wastage, and communication gaps among stakeholders. AI and BIM together provide intelligent, data-driven solutions that improve efficiency, productivity, and decision-making throughout the lifecycle of construction projects.

Artificial Intelligence refers to the use of computer systems capable of performing tasks that normally require human intelligence, such as learning, prediction, pattern recognition, and decision-making. In construction, AI technologies include machine learning, computer vision, robotics, predictive analytics, and automation. Building Information Modeling is a digital process used to create and manage detailed 3D models and project information for buildings and infrastructure. BIM enables architects, engineers, contractors, and project managers to collaborate effectively by sharing accurate and real-time project data.

Integrating Artificial Intelligence (AI) with Building Information Modeling (BIM) transforms the construction sector by combining BIM's intelligent digital data modeling with AI's ability to automate workflows and analyze massive datasets. This combination supports better planning, design accuracy, resource management, and sustainability in construction projects and also optimizes decision-making, significantly reduces costs, and speeds up project delivery. The implementation of AI in construction projects through BIM represents a revolutionary step toward intelligent and automated construction management. The participants will know the necessary information about the AI and BIM, helping them stay competitive and capable in a rapidly changing construction landscape.

OBJECTIVES:

- To introduce fundamentals of AI and BIM in Construction industry
- To develop understanding of digital transformation and smart construction technologies used in modern infrastructure projects
- To familiarize participants with industry standards, BIM execution plans, and implementation strategies for organizations.

COURSE COVERAGE :

- Overview on Implementation of AI in Construction Projects & BIM
- Introduction to AI and BIM in Construction - Digital Transformation in Construction
- BIM Modeling : Architectural modeling , Structural modelling, MEP modelling & Parametric modeling concepts and Data Management
- **AI & BIM** Applications in Construction Project Management: Planning, Scheduling, Estimation, Risk Analysis, Monitoring, Safety Management
- Advanced AI & BIM Technologies like Digital Twins in Construction, Drones for surveying, IoT and smart sensors, tracking
- Automation in machinery, Robotics in construction
- Implementation Strategy of AI & BIM in Organizations
- Group discussions, Presentation of Case Studies by Participants

BENEFITS TO THE PARTICIPANTS:

- Participants will learn to; Increase knowledge of Artificial Intelligence and Building Information Modeling applications in the construction industry. Improving the skills of the Participants to use Digital Tool (AI & IoT) in construction
- Improving skills on AI-driven solutions for project planning, scheduling, cost estimation, and risk management.
- Increase exposure to modern BIM and AI software tools used in the engineering and construction sectors.

TARGET:

This course is suitable to all Engineers and officers working at Junior Level to Senior Level from Government Departments like R&B, PWD, MES, Municipal Corporations, Panchayat Raj, Housing Boards, GHMC, RITES, and Border Roads Development & Defense. Engineers from all State and Central Government Departments, & Construction Companies.

RESOURCE PERSONS:

Renowned personalities both from Industry / Educational Institutions like IIT's/ NIT's / Research Institutes, Reputed Universities, who are experts in this field, will be involved in providing the training.

PROGRAMME VENUE, DATES & TIMINGS:

VENUE : ESCI, Hyderabad

DATES : 08th – 12th June, 2026

Registration : 09:45hrs.

Session timings : 10:00 – 17:00 hrs with 3 times breaks.

COURSE DIRECTOR:

Dr. R Venkat Reddy, Ph.D (Osmania), FIE
Head

COURSE COORDINATOR:

Ch. Tilak – Faculty
(9052313252)

COURSE FEES:

Rs.30,000/- (Rupees Thirty Thousand Only) + GST 18% per participant. Fee includes, Soft copy of course material, course kit and Twin Sharing AC accommodation, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme.

DISCOUNTS

- ❖ **Non-Residential Fee-** 10% discount on course fee is allowed for non-residential participants.
- ❖ **Group Discount:** Additional 10% discount for three or more participants, if sponsored by the same organization.

GST 18% is to be paid extra over and above the training fee, as training is also brought under the purview of **Service Tax. PAN Card No AAATT3439Q; Service Tax registration No AAATT3439QST008 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994). GSTN Number – 36AAATT3439Q1ZV (HSN Number – 999293)**

Programme fee is to be paid in favor of “**IE (I) – Engineering Staff College of India**” in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT) to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by NEFT / RTGS / IFSC Code No. SBIN 0004159 – MICR No.500002075**. While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.

REGISTRATION:

Please send your nominations from your Department/ Organization/ Institution/ if any.,

To
The Head
Civil & Transportation Engineering Division
Engineering Staff College of India
Old Bombay Road, Gachi Bowli, Hyderabad - 500 032
Phone: 040-6630 4114 / 4115
Email : cte@escihyd.org

CERTIFICATE:

A certificate of participation will be awarded to each participant.

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200hrs) and one day after conclusion (Check-out 1100hrs) of the program duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation).