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

Innovate Construction Methods

18th – 22nd May, 2026

Venue : ESCI, Hyderabad

Centre for Promotion of Professional Excellence

INTRODUCTION:

The construction industry is undergoing a rapid transformation driven by technological advancements, increasing project complexity, and the growing demand for sustainable and cost-effective solutions. Traditional construction practices, while foundational, are no longer sufficient to meet modern challenges such as tight project schedules, resource constraints, and quality expectations.

Innovative construction methods have emerged as a critical solution to these challenges. Techniques such as Building Information Modeling (BIM), prefabrication, modular construction, and the use of advanced materials are reshaping how projects are planned, designed, and executed. These methods not only enhance efficiency and accuracy but also significantly improve safety and environmental performance.

By integrating digital tools, automation, and sustainable practices, these methods are transforming how infrastructure and buildings are designed and executed. They also encourage greater collaboration among engineers, architects, and project stakeholders, leading to more efficient and successful project outcomes.

The participants will know the necessary information about the modern practices, helping them stay competitive and capable in a rapidly changing construction landscape.

OBJECTIVES:

- To Explain the new materials in the concrete industry
- To Understand advanced methods of construction and Special Concrete.
- To understand Sustainable & Green Construction

COURSE COVERAGE :

- Overview on Innovate Construction Methods
- Advanced Construction Materials: Smart Materials, Composite Materials, Nano-materials, 3D-Printing Materials, & Insulating Materials Enhancing Concrete Structural durability
- Supplementary cementitious material and its Importance in designing Special concrete
- Implementation of Digital Tool (AI & IoT) in construction (smart sensors, tracking)
- Advanced Construction Technologies - Building Information Modelling (BIM)
- Drones for surveying and monitoring
- Prefabrication & Modular Construction
- Smart Construction Equipment - Automation in machinery, Robotics in construction
- Sustainable and Energy-efficient building methods & Green Construction
- Field Visit
- Group discussions, Presentation of Case Studies by Participants

BENEFITS TO THE PARTICIPANTS:

- Participants will learn to; Increase knowledge of up to date of advance material in concrete for many different purposes.
- Improving the skills of the Participants to use Digital Tool (AI & IoT) in construction
- Improving skills on using Smart Construction Equipment
- Increase the skill in Concrete Structural durability with advanced construction Material.

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 : 18th – 22nd May, 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

COURSE FEES:

Rs.27,500/- (Rupees Twenty Seven Thousand Five hundred 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
Mobile : **9490011311 / 9492011311**
Phone: 040-6630 4114
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).