



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

**Advanced Concrete and Construction Materials for
Sustainable Structures**

02nd – 04th March, 2026

Venue : Coorg, Karnataka / ESCI, Hyderabad



Centre for Promotion of Professional Excellence

INTRODUCTION:

Advanced Construction Materials in Concrete Technology and its applications in Concrete Industry will acquaint with newly developed concrete materials. Developments in the field of Concrete technology have been phenomenal in the last decade. There have been number of notable advancements made in concrete technology. Concrete is used throughout the world for a wide range of applications. To enhance the properties of concrete, recent advances in material science present new materials or admixtures to be added to or replace conventional concrete materials. Such materials could be used in new concrete construction and/or in repairing new or existing structures.

The participants will know the necessary information about the different advanced concrete materials, what tests should be performed and how to interpret their results, what to look for in specifications, and define the advantage and disadvantages for each new material.

OBJECTIVES:

- To describe with design methods and differentiates between codes and standard
- To Explain the new materials in the concrete industry
- To Understand advanced methods of construction and Special Concrete.
- To understand latest testing methods and standardization in civil engineering

COURSE COVERAGE :

- Overview on Advanced Concrete and Construction Materials for Sustainable Structures
- Importance of sustainability in construction & Environmental impact of traditional materials
- Advanced Construction Materials: Smart Materials, Composite Materials, Nano-materials, 3D-Printing Materials, & Insulating Materials Enhancing Concrete Structural durability
- Advanced and Sustainable Concrete Technologies like : Geopolymer, High-Performance Concrete (HPC), Ultra-High Performance Concrete (UHPC) Self-Healing Concrete, Lightweight Concrete ect.,
- Supplementary cementitious material and its Importance in designing Special concrete
- Latest Testing methods and standardization in civil engineering
- Green Buildings & Green Building materials - Role of innovation in achieving sustainable development goals
- 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 the Optimizing the design of concrete by employing the advanced material
- Improving skills on using Recycled Materials in Concrete technology
- 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 : Coorg, Karnataka / ESCI, Hyderabad

DATES : 02nd – 04th March, 2026

Registration : 10:00hrs.

Session timings : 10:30hrs – 16:30hrs with lunch break.

COURSE DIRECTOR:

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

COURSE COORDINATOR:

Ch. Tilak – Faculty

COURSE FEES:

COORG, KARNATAKA: Rs.22,500/- (Rupees Twenty Two Thousand Five Hundred Only) + **GST 18%** per participant. Fee includes, Soft copy of course material, course kit and Twin Sharing AC accommodation at Hotel, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme.

(or)

ESCI, HYDERABAD: Rs.16,500/- (Rupees Sixteen Thousand Five Hundred Only) + **GST 18%** per participant. Fee includes, Soft copy of course material, course kit and Twin Sharing AC accommodation at ESCI Executive Hostel, breakfast, lunch, dinner, tea / coffee and snacks.

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

To
The Head
Civil & Transportation Engineering Division
Engineering Staff College of India
Old Bombay Road, Gachi Bowli, Hyderabad - 500 032
Mobile : **9490011311 / 9492011311**
Email : **cte@escihyd.org**

CERTIFICATE:

A certificate of participation will be awarded to each participant.

GENERAL INSTRUCTIONS

- The maximum number of participants is 25 from all over India to conduct training programme at **Coorg, Karnataka**.
- Kindly communicate the list of nominated participants with their details like Name, Designation, mobile numbers & E-mail Ids, for making necessary arrangements by ESCI at **Coorg, Karnataka**.
- Twin Sharing AC accommodation will be provided 02nd , 03rd , 04th March, 2026 (3 nights only).
- If we received less than 25 nominations of various departs from all over India programme will be conducted at ESCI, Hyderabad only.