



Engineering Staff College of India

An Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad-500 032



CIVIL & TRANSPORTATION ENGINEERING

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMME ON
**Destructive & Non Destructive Testing Methods
for Civil Engineering Structures**

24 - 27 April, 2018



(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

INTRODUCTION:

To keep a high level of structural safety, durability and performance of the infrastructure in each country, an efficient system for early and regular structural assessment is urgently required. The quality assurance during and after the construction of new structures, after reconstruction processes, the characterization of material properties and damage as a function of time and environmental influences is becoming a serious concern.

In this age of computer modeling and analysis one might begin to think that structural testing of engineering designs. Tabulated data on material properties, limits of failure, safety factors, and other pertinent information already exist, so why bother with the trouble and expense of performing actual tests? Aren't field testing laboratories for construction and civil engineering getting outdated? No. Raw materials are never consistent, construction and manufacturing processes are never perfect, and structural requirements constantly change with new applications, designs, and desired functionality. For these reasons, field and laboratory structural analysis, engineering design and testing, and materials engineering and testing will continue for as long as there is a need for structural engineering.

Engineering Staff College of India (ESCI), keeping in view of the above requirements, is privileged to announce a programme on “**Destructive & Non Destructive Testing Methods for Civil Engineering Structures**” from **24 – 27 April, 2018**.

OBJECTIVES:

The main aim of this program is to provide information on the latest developments & applications of various destructive & non-destructive testing methods of structural materials, building components, completed buildings and engineering structures, with special emphasis on the early assessment of deteriorating structures in order to implement efficient preventive inspection systems and to prevent failures.

COURSE COVERAGE :

- Concrete Material
- Destructive testing & IS Specifications
- Basic concepts of NDT
- NDT Methods – Application in Civil Engineering
- Ground Penetrating Radar Techniques
- Advanced Techniques – Infrared Thermography
- NDT Evaluation of structures and Investigation – Restoration of structures

METHODOLOGY:

The programme will be conducted in an interactive environment, providing ample scope for discussions. Emphasis will be on participatory style of learning. Methodology includes lectures by the invited speakers; presentation of case studies, sharing of experiences, group discussions etc., and each participant will be given reading material on all the topics covered during the training process.

TARGET PARTICIPANTS:

This programme is planned especially for Construction and maintenance engineers, Quality Control Engineers, builders and consultants. The course is suitable to all engineers and officers working at middle and senior level working in government, public and private sectors as well as consultants, practitioners and builders.

BENEFITS TO THE PARTICIPANTS:

At the end of the course participants will:

- Have a good understanding on the advantages and limitations of various NDT methods applicable for concrete inspections.
- Have basic knowledge and experience to perform or to supervise NDT inspection applicable for civil engineering structures.

RESOURCE PERSONS:

Renowned personalities both from industry as well as educational institutes / universities, who are experts in this field, will be involved in providing the training.

PROGRAMME VENUE & DATES & TIMINGS:

VENUE : Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad- 500 032.

DATES : 24 – 27 April, 2018

TIMINGS : On the first day Registration will commence at 0900 hrs on 24 April, 2018. On all other days, the programme timings will be from 0945 - 1715 hrs with breaks in between for tea and lunch.

COURSE DIRECTOR

Sri P. Muralikrishna
Faculty & Head I/C, CTE Division

COURSE ADVISER

Sri A.R.K. Murty
Adviser, CTE Division

FEES

₹. 20,000/- (Residential fee) (Rupees Twenty Thousand Only) per participant. Fee includes, course material, course kit and twin-sharing / single AC accommodation as per availability, 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.

(All discounts are applicable only, if fee is received at ESCI before the commencement of the programme.)

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) (ZCC) of Finance act – 1994).**

GSTN Number – 36AATT3439Q1ZV (HSN Number – 999293)

Programme fee is to be paid in favour 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:

Online registration shall be available on ESCI website.

To register, manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee and addressed to:

Head, Civil & Transportation Engineering Division

Engineering Staff College of India

Old Bombay Road, Gachi Bowli, Hyderabad - 500 032

Phone: Direct 040-6630 4114, 6630 4115 / Fax: 040-23000336

Email : cte@escihyd.org

CERTIFICATE:

A certificate of participation will be awarded to each participant on conclusion of the programme.

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 1200h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well developed Information Centre and Internet facilities are available to the participants.