



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],
ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)



CIVIL & TRANSPORTATION ENGINEERING DIVISION

Training and Development Programme On

Rehabilitation of Buildings using Latest Techniques

08th – 12th December, 2025

Venue : ESCI, Hyderabad



Centre for Promotion of Professional Excellence

INTRODUCTION:

Repairs and rehabilitation engineering being a specialized field calls for skills and abilities far beyond the construction engineering and has to be a balance amid advanced technology and trends, management, feasibility and economy. All the Structures built with material and exposed to weathering conditions are bound to show signs of distress in the form of cracks or deflections during some stage of the life. If the structure shows the signs of distress before its design life, it can be made to perform well with appropriate repair / rehabilitation / retrofitting process. It is essential that the structure needs to be evaluated thoroughly, before any of these remedial are applied.

It is essential for everyone involved in the construction industry to understand the intricacies involved in repair / rehabilitation / retrofitting of the structures for understanding the problem in a better manner and also to know the latest trends in managing these issues.

This Program aims to address the issues involved in damage assessment, rectification of defects and preventive measures , Risk Criteria in Rehabilitation of Buildings. In addition, latest technology in the rehabilitation of concrete structures, the latest advances in materials and techniques like FRP and CFRP in Retrofitting and the latest trends for concrete together with concerns that require consideration when modern materials are used in Maintenance of structure.

OBJECTIVES:

- To familiarize and improve the skills of the participants with the concepts of Rehabilitation of Buildings including Damages in Buildings – Deterioration, Distress.
- To update the knowledge, upgrading the skills in Implementations of Repair, Retrofitting & Rehabilitation methodologies
- To impart knowledge on Risk Management in Rehabilitation of Buildings Method

COURSE COVERAGE :

- Introduction to Rehabilitation of Buildings and Risk Management
- Damages in Buildings – Deterioration, Distress and Extra Loads
- Repair, Retrofitting & Rehabilitation methodologies
- Specification of materials and IS Codes
- Advanced Non-Destructive Testing for Structural Diagnostics and Monitoring
- Structural Health Assessment of Buildings - Retrofitting of buildings using FRP, CFRP
- Implementation of AI (Artificial Intelligence) in Rehabilitation of Buildings.
- Retrofitting of foundations & Retrofitting of columns & beams using Steel encasement & Concrete encasement
- Risk Management in Rehabilitation of Buildings
- Technical Field visit
- Case studies on Rehabilitation of Buildings using latest techniques

BENEFITS TO THE PARTICIPANTS:

- Participants will learn the advanced NDT Testing Methods.
- Participants will understand various types of damages, identify appropriate repair action to be taken and understand the preventive measures to be adopted.
- Participants will know about Specification & IS codes
- Participants will learn about Retrofitting of structural elements using Steel encasement & Concrete encasement & FRP, CFRP Technologies.

TARGET PARTICIPANTS:

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

DATES : **08th – 12th December, 2025**

Registration : 09:45hrs.

Session timings : 09:45 – 17:15 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

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).