



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

Suspension Bridges and Structural Analysis

05th – 09th February, 2024

Venue : ESCI, Hyderabad / Jaipur



Centre for Promotion of Professional Excellence

INTRODUCTION:

A suspension bridge is a type of bridge in which the deck is hung below suspension cables on vertical suspenders. The suspension bridge design has improved significantly such that very long spans are possible. It is also possible to increase the life of the bridge by extending the life of the main cable.

In this training programme covers different types of Bridges and Suspension Bridge Design & Analysis using software **Midas Civil**. It is that combines the ease of modeling with exclusive analysis features, making the modeling and designing efficient for engineers. The software provides handy features for simpler bridges and flexibility to deal with complex geometry. This program also deals with concepts of Seismic effect , latest bridge construction Methodology and also implementation of Artificial Intelligence in Bridge Maintenance Techniques.

OBJECTIVES:

- To impart knowledge Suspension Bridges and Structural Analysis
- To familiarize participants with Soil Investigation & Site Selection of Bridge
- To describe various types of Bridge Structures.
- To impart knowledge on Seismic Effects on design of Suspension Bridge

COURSE COVERAGE :

- Overview of Suspension Bridges and Structural Analysis
- Soil Investigation – Classification of soils & Site selection of Bridges
- Analysis of Different types of Bridge Structures
- Seismic Effects on design and performance of Suspension Bridges
- Design of Bridge Structure and Implementation of MIDAS Software
- Suspension Bridge Construction Methodology
- Factors involved in failure of Suspension Bridges
- Importance of Operations and Bridge Maintenance Techniques using Artificial Intelligence
- Technical Filed visit
- Case studies presented by the Participants

BENEFITS TO THE PARTICIPANTS:

- Participants will know the Design of Bridge Structure and Implementation of MIDAS Software
- Participants will understand Bridge Construction Methodology.
- Participants will know the application of AI in Bridge Maintenance.
- Participants will understand the factors involved in failures of Bridges.

TARGET PARTICIPANTS:

Officers and Engineers from Government departments like Transportation Departments, Roads and Buildings, PWD, Municipal Corporations, Panchayat Raj, Housing Boards, Border Roads organization, Public and Private sector like RITES, organizations involved in Traffic Engineering, Professionals and Consultants etc., working at junior level to senior level will all be benefited by attending this program.

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 / **Jaipur**

Note :-

1. If Venue at **ESCI Campus Hyderabad**, No of Participants from your organization is as per your Choice.
2. If Venue at **Jaipur**, No of Participants: **25 No's (Minimum) from your organization**

DATES : **05th – 09th February, 2024**

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.25,000/- (Rupees Twenty Five 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

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, 66304134, 66304115, 66304107

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).