



Engineering Staff College of India
An Autonomous Organ of The Institution of Engineers (India)
(ISO 9001:2015 Certified Institution)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. India



CIVIL & TRANSPORTATION ENGINEERING

Continuing Professional Development Programme on

Soil Investigations & Ground Improvement Techniques in Infrastructure Development

05 – 07 September, 2018



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

INTRODUCTION

Ground improvement, in a broad sense, is the change of any property of soil and treatment of ground so that the soil strata may be strengthened / improved to serve better for engineering applications. Variety of ground improvement techniques involving the physical, mechanical and/or chemical processes have been successfully implemented all over the world to overcome the problems caused by the treacherous sub-grade/foundation soils. Methods such as Preloading, Plastic Vertical Drains (PVDs), Stone Columns/Granular Piles, Vibro-techniques, Compaction Piling, Grouting, Heavy Tamping, etc. would be described and analysed. Methods appropriate for expansive soils would also be covered.

OBJECTIVE

Through this programme on “**Soil Investigations & Ground Improvement Techniques in Infrastructure Development**”, it is proposed to discuss different issues related to requirements for ground improvement, various techniques of improvement, water table lowering, compaction, tamping, addition of lime, cement and bitumen, gravel and sand columns, reinforced earth, soil replacement techniques, Geosynthetics and ultimately come out with appropriate techniques for different field conditions.

COURSE COVERAGE

- Characterization of Ground
- Earth quake effects on soil & Foundations
- Ground Improvement Techniques include underpinning using micro piles
- Reinforced Earth Structures
- Geo-synthetics
- Soil Stabilization
- Soil Compaction & lab session
- Soil Bio Engineering

METHODOLOGY

This programme will be conducted in an interactive environment providing ample scope for discussions. More emphasis will be given in the direction of providing practical solutions. Each of the participants will be given reading material on all the topics covered during the training

TARGET PARTICIPANTS

This programme is planned especially for all the agencies, involved in Infrastructure Projects in National Highway Development Programme, Housing Projects, Airports and other similar development activities, Construction Engineers, contractors etc. In addition, faculty members from technical institutes / Universities, dealing in the areas of Infrastructure will also get an exposure to the developments with this training programme and it will help them in reorienting their curriculum to suit the field requirements.

BENEFIT TO THE PARTICIPANTS

Participants will

- gain an understanding of the concepts behind a range of Ground Improvement and Soil remedial techniques.
- be able to identify appropriate techniques for a range of ground and site conditions.
- be able to locate criteria to determine the applicability of each ground improvement method for a specific project and soil condition under consideration.
- be able to apply latest Ground improvement techniques such as to significantly shorten the timeframe for preparing the land for use; thus secure the economic viability of the project.

RESOURCE PERSONS

Renowned personalities both from Industry as well as educational institutes / Universities and Consultants, who are experts in this field, will be involved in providing the training.

PROGRAMME VENUE & TIMINGS & DATES

VENUE: Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad 500032, India.

Timings:

On the first day Registration will commence at 0900 hrs 05th September, 2018. On all other days, the programme timings will be from 0945 - 1715 hrs with breaks in between for tea and lunch.

DATES

05 – 07 September, 2018

COURSE DIRECTOR

Shri P Muralikrishna
Faculty, CTE Division

COURSE ADVISER

Shri A R K Murty
Adviser, CTE Division

FEES

₹. 15,000/- (Rupees Fifteen Thousand Only) (Residential fee) 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.

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 – 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.

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, 66304138 / 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.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) 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 at free of cost to the participants.