



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachibowli, Hyderabad – 500 032. Telangana, India



Environment Management Division

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMME

Latest Survey Technologies Using Total Station, GPS, DGPS, DRONE and RADAR - Hands-On Training Program



01-05 March 2027

Interactive Sessions | Digital Learning | Assessments | 24/7 Experts Online/Offline Support

Introduction

Modern surveying has evolved rapidly with the integration of **Total Station, GPS/GNSS, DGPS, Drone/UAV and RADAR technologies**. These technologies enable faster, more accurate and efficient data collection for infrastructure development, topographic mapping, land and urban planning, road and railway projects, construction, mining, environmental assessment and disaster management.

With the growing demand for **high-precision, digital and remotely captured spatial data**, professionals need practical knowledge of modern surveying instruments, data acquisition techniques and interpretation of survey outputs. **ESCI is organising a hands-on training programme** to provide participants with practical exposure to contemporary survey technologies and their applications in real-world projects.

Objectives

The programme aims to provide participants with practical knowledge and hands-on exposure to **modern surveying technologies**, including Total Station, GPS/DGPS, Drone and RADAR. Participants will learn data acquisition, processing, mapping and interpretation techniques through practical exercises and field demonstrations.

Course Coverage

- Fundamentals of Modern Surveying Technologies
- Total Station Surveying
- GPS/GNSS Surveying
- DGPS Surveying and Applications
- Drone/UAV-Based Surveying
- Photogrammetry and 3D Mapping
- LiDAR and Remote Sensing
- RADAR Technology and Applications
- Topographic and Contour Surveying
- Digital Mapping and Spatial Data Processing
- Survey Data Processing and Analysis
- **Hands-on Field Survey and Demonstrations**
- **Practical Project-Based Survey Exercise**

Methodology

Methodology of the programme includes classroom sessions with Lectures/discussions, with audio visual aid; bench - marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences, etc. All the sessions will be interactive, demanding active participation from all the participants.

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

Centre for Promotion of Professional Excellence

Target Participants

Civil Engineers and Survey Engineers, Surveyors and GIS Professionals; Town & Urban Planners ; Architects and Infrastructure Professionals; Roads, Highways, Railways and Metro Professionals; Construction and Project Management Professionals; Geotechnical, Mining and Environmental Professionals; Government / PSU / ULB Officials; Consultants and Surveying Agencies; Faculty Members, Researchers and Technical Professionals; Students and young professionals seeking practical exposure to modern surveying technologies

Programme Dates, Timings & Prog. Code

Dates: 01-05 March 2027 (**Prog. Code:** EM 6126), **Timings:** 10:00 onwards

Course Director

Ms. Anita Aggarwal

Faculty & Head I/c

Environment Management Division,

Engineering Staff College of India,

Old Bombay Road, Gachibowli, Hyderabad 500 032

Phone: Direct 040 6630 4120, 4122 / Fax: 040-66304163

Mob: 8374362306.

Email: em@escihyd.org

Faculty / Speaker Details

Apart from the core internal faculty, Experienced Professionals/Faculties/Sector experts will be delivering the lively lecture with practical knowledge & case study.

Course Fee

- **Course Fee (Residential) – Rs. 30,000/-*** (Rupees Thirty Thousand only) per participant. Fee includes course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training programme. 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).
- **Non-Residential Fee:** 10% discount on course fee is allowed for non-residential participants.
- **Group Incentive:** 10% discount for five or more participants, if sponsored by the same Organization.

***GST @18%** is to be paid extra and above the training fee as training. **PAN Card No.** AAATT3439Q. **GST No:** 36AAATT3439Q1ZV, **HS No.:** 999293 (under commercial training or coaching services – clause 65(105) (ZZC) of Finance act – 1994).

Programme fee is to be paid in in favour of **“THE 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. PAN Card No AAATT3439Q; GSTIN No. 36AAATT3439Q1ZV.** While using EFT method of payment, please ensure to communicate us your company name, Contact details, our invoice reference and programme title. **Kindly provide your organization GSTIN No. along with your nominations**

Registration

Online registration shall be available on ESCI web portal : www.escihyd.org

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 : **Course Director**, Or Contact us at : Mr. GNM. Rao (Prog. Manager) – 9866431555

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

Environment Management, Engineering Staff College of India

Gachibowli, Hyderabad – Telangana 500 032

Phone: 040 – 66304120, 66304122, Fax: 040 – 66304103

Email: em@escihyd.org, web portal: www.escihyd.org