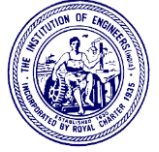




Engineering Staff College of India

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



Environment Management Division

Continuing Professional Development Programme on

Hands-on Training Open-Source GIS Tools (QGIS) for Planning, Infrastructure and Environmental Applications and sustainability



07-09 July 2026

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

Introduction

Rapid urbanization, infrastructure expansion, and increasing environmental concerns are driving the need for **data-driven planning and sustainable decision-making**. Geographic Information Systems (GIS) have become essential tools for managing spatial data, analysing complex relationships, and supporting evidence-based policy and infrastructure development.

QGIS, a leading open-source GIS platform, offers powerful capabilities for **mapping, spatial analysis, environmental assessment, and infrastructure planning**—without the cost barriers of proprietary software. It is widely adopted across government agencies, urban planners, environmental consultants, and researchers globally.

With increasing emphasis on **digital governance, smart cities, environmental compliance, and sustainability frameworks (ESG)**, the use of open-source GIS tools is gaining significant momentum in India and worldwide.

Recognizing this need, ESCI is organizing a **hands-on training programme on QGIS**, focusing on practical applications in **urban planning, infrastructure development, and environmental management**. The programme emphasizes **real-world datasets, project-based learning, and practical exercises** to build industry-relevant skills.

Objectives

- To provide a strong foundation in GIS concepts and spatial data handling
- To develop practical skills in QGIS for mapping and spatial analysis
- To apply GIS tools in urban planning and infrastructure projects
- To understand GIS applications in environmental monitoring and sustainability
- To enable participants to work with real-world datasets and case studies

Course Coverage

- Introduction to GIS & QGIS (Open-Source Platform)
- Spatial Data Management & Map Visualization
- Georeferencing & Digitization Techniques
- Spatial Analysis & Thematic Mapping
- Hands-on Exercises with Real Datasets
- Case Studies
- Methodology

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

This course is for GIS practitioners and non-GIS professionals; for administrators and developers; and for anyone who needs to use ArcGIS tools to perform their daily workflows, enhance projects with geographic context, and create information that leads to better decision-making. Officials from various Government / Private / Autonomous / NGOs / Faculty and Researchers from Academic Institutions working in the domain of geospatial technologies and its applications.

Programme Dates & Timings

Dates: 07-09 July 2026 (Prog. Code: EM 6113) & **Timings: 10:00 AM onwards** at ESCI Campus, Gachibowli, Hyderabad.

Course Director

Ms. Anita Aggarwal

Faculty & Head I/c.

Environment Management Division,

Engineering Staff College of India,

ESCI Road, GachiBowli, Hyderabad 500 032, Telangana

Phone: Direct 040 6630 4120 to 4122 Fax: 040-66304163

Mob: 8374362306; Email: em@escihyd.org

Faculty/Speaker Details

In addition to the core internal faculty, highly experienced professionals and sector experts from organisations such as NRSC, along with senior GIS consultants, will deliver interactive sessions enriched with practical knowledge and case studies.

Course Fee

Course Fee (Residential): Rs. 18,000/-* (Rupees Eighteen 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 over and above the training fee. **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.

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

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