



# Engineering Staff College of India

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



## Centre for Climate Change Division

### Continuing Professional Development Programme

## Climate Change Mitigation and Adaptation: A GIS-Based Approach

19 – 21 February 2025

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

### Introduction

This training program on Climate change is a global challenge with far-reaching consequences on ecosystems, economies, and societies. Mitigating its effects and adapting to its impacts require innovative tools and technologies. Geographic Information Systems (GIS) play a pivotal role in understanding, analyzing, and addressing climate-related challenges by enabling spatial visualization, modeling, and decision-making. This program is designed to equip professionals with knowledge and practical skills in applying GIS for climate change mitigation and adaptation.

### Objectives

The objective of this programme is:

- Build foundational knowledge of climate change, its impacts, and global mitigation and adaptation strategies.
- Demonstrate the role of GIS in addressing climate challenges through spatial analysis and data modeling.
- Enhance participants' ability to integrate GIS-based approaches into policy-making, planning, and implementation for climate resilience.

### Course Coverage

This programme is designed to cover broadly the following topics:

- ✚ **Introduction and Fundamentals:** Science of climate change, GIS fundamentals, and data collection techniques.
- ✚ **GIS Applications in Climate Mitigation:** Focus on carbon sequestration, renewable energy planning, and urban planning for mitigation, carbon sink mapping and renewable energy assessment
- ✚ **GIS Applications in Climate Adaptation:** Disaster risk reduction, climate-resilient agriculture, and water resource management.

### 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.

### Target Participants

The programme is intended for professionals include:

- Urban planners, environmentalists, and policymakers involved in climate resilience and sustainable development.
- Professionals from government agencies, NGOs, and private sectors engaged in environmental conservation, disaster management, and renewable energy.

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

Centre for Promotion of Professional Excellence

- Academicians, researchers, and students in the fields of climate science, geography, urban planning, and related disciplines.
- Engineers, project managers, and consultants working on infrastructure, agriculture, and water resource management projects.

### Programme Dates, Timings & Code

**Dates: 19 – 21 February 2025, Timings: 10 AM Onwards. & Code: 8060**

### Course Director

**Dr. K. Chandrakala** Faculty, Centre for Climate Change

**Mr. Aadhi Naresh, Jr.** Faculty, CCC

**Engineering Staff College of India,**

Phone: Direct 040 6630 4164, Fax: 040 - 6630 4163,

Mob: 8019438539 Email: ccc@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. 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 INSTITUTION OF ENGINEERS (INDIA) – 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](http://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.**

**Centre for Climate Change, Engineering Staff College of India**

**Gachi Bowli, Hyderabad – Telangana 500 032**

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