



# 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*

## Green Buildings in Smart Cities: Functions, Potentials, Benefits, and Challenges

**23 – 25 July 2025**

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

### Introduction

Join us for an insightful Continuing Professional Development Program (CPDP) on "Green Buildings in Smart Cities: Functions, Potentials, Benefits, and Challenges." Urbanization is rapidly transforming cities, intensifying demands on energy, water, housing, and infrastructure, often compromising environmental sustainability. To address these challenges, the Smart Cities concept integrates technology and innovation to enhance urban living. A key component of smart cities is green buildings—designed to reduce environmental impact, conserve resources, and improve occupant well-being. These structures play a vital role in promoting energy efficiency, climate resilience, and sustainable urban development. This CPDP program aims to equip professionals with essential knowledge of green buildings within smart cities, focusing on their functions, benefits, implementation strategies, and the challenges involved in real-world applications and policy integration.

### Objectives

The primary objective of this programme is to introduce participants to the core principles and features of green buildings and their relevance to the Smart Cities Mission. The program aims to enhance understanding of the environmental, economic, and social benefits of adopting green building practices. It will familiarize participants with key national and international rating systems, energy efficiency codes, and relevant regulatory frameworks in India. The course also explores the integration of smart technologies such as IoT, AI, and GIS in building management for resource optimization and improved comfort. Real-world case studies and global best practices will be examined to provide practical insights. Additionally, the program will address common challenges in implementing green buildings and suggest strategies for stakeholder engagement. Ultimately aiming to build professional capacity among planners, engineers, architects, and municipal officials to advance sustainable urban development.

### Course Coverage

This programme is designed to cover broadly the following topics:

- **Fundamentals of Green Buildings and Smart Cities** - Understanding Green Buildings, Smart Cities & Their Framework, Green Building Materials & Technologies, Case Study Presentations.
- **Applications, Benefits, and Integration in Urban Planning** - Environmental and Economic Benefits of Green Buildings, Policy and Regulatory Framework, Integration with Urban Planning, Renewable Energy Integration.
- **Challenges, Innovations, and Way Forward** - Barriers & Challenges, Innovative Green Building Practices, Smart Monitoring and Performance Evaluation, Stakeholder Engagement & Capacity Building.

### 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,

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debates, sharing of experiences, etc. All the sessions will be interactive, demanding active participation from all the participants.

### Target Participants

This programme will be useful to Environmental professionals and researchers, Urban planners and architects, Local government officials and policy makers, Community leaders and activists, and Students and educators in environmental science.

### Programme Dates, Timings & Code

**Dates:** 23-25 July 2025, **Timings:** 10 AM Onwards. & **Code:** 8063

### Course Director

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

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

**Engineering Staff College of India,**

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

Mob: 94948 72533 Email: [ccc@escihyd.org](mailto: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 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.**

**Each participant will receive a Certificate of Participation upon program completion.**

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

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