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

Smart City Solution and Environmental Aspects

22 – 24 October 2024

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

Introduction

Rapid urbanization is a global phenomenon. It is not only associated with economic development but over the time it started aspiring people to better quality of life. Smart cities play an important role in the urbanization and in improving key quality of life factors for city residents. But, a successful city cannot operate efficiently in isolation from its environment. It must balance its social, economic and environmental needs. Smart Cities focus on the most pressing needs and the greatest opportunities to improve lives. The concept integrates information and communication technology (ICT), and various physical devices connected to the IoT (Internet of things) to improve quality of life, the efficiency of urban operations while ensuring that it meets the needs of present and future generations with respect to economic, social, environmental and cultural aspects.

Smart-city solutions such as energy use optimization, and electricity, water, and waste tracking, air quality monitoring, can produce results such as 10-15% fewer GHG emissions, 30-130 fewer kilograms of solid waste per person per year, and 25-80 liters of water saved per person per day.

To achieve such benefits, ESCI launches a new programme on Smart City Solution and Environmental aspects in an attempt to anchor the Climate friendly solutions to the stakeholders for Indian smart cities.

Objectives

- ✓ The objective of the training is to build capacities of the related stakeholders to develop, structure and implement the Smart applications in their cities/urban local bodies/areas contributing most to environmental improvements focused on mobility, water, energy, and waste etc.
- ✓ During the practice-oriented and interactive learning sessions, participants will familiarize themselves with theoretical background, participate in structured exercise activities, and reflect on lessons learned and their applicability to their cities. After the training, participants will have well-founded knowledge of the tools and be able to implement first or upcoming local actions in development of smart cities.

Course Coverage

- Understanding the concepts, planning, development of “Smart Cities” and its sustainability
- Elements of Smart Cities and use of ICT and IOT:
  - Sustainable Water and Sanitation for Smart Cities
  - Application of Solar Energy for Smart Cities
  - Green Buildings in Smart Cities
  - Sanitation, including Solid Waste Management.
  - Smart Transportation for Smart Cities
  - Smart E-Governance
- Sustainable Smart Funding for Smart Cities
- Robust IT connectivity and digitalization.

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

This course is designed in consideration with the engineers, managers who are involved in smart city activities. City officials and Administrators, state agencies and other stakeholders related to smart city programmes, Waste water etc.

Programme Dates & Timings

Dates: 22 – 24 October 2024 (EM 6084) / Timings: 10:00 AM onwards at ESCI campus, Gachibowli, Hyd.

Course Director

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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. 16,500/- (Rupees Sixteen Thousand Five Hundred 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. **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.