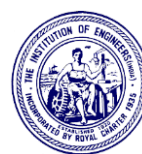




Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

ESCI Road, Gachibowli, Hyderabad – 500 032, Telangana, India



Environment Management Division

CONTINUING PROFESSIONAL DEVELOPMENT PROGRAMME ON

Greening Urban Infrastructure through Nature-Based Solutions: Sanitation, Solid Waste Management and Water Supply



02 – 06 November 2026

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

Introduction

Indian cities are facing increasing pressure from rapid urbanisation, climate variability, water stress, flooding, pollution and growing volumes of solid waste and wastewater. These challenges require urban infrastructure that not only provides reliable services but also works with natural systems to improve resilience, resource efficiency and environmental outcomes. India's current urban programmes, including AMRUT 2.0 and SBM-U 2.0, increasingly emphasise integrated water management, sewerage and septage management, water-body rejuvenation, solid waste management, resource recovery and sustainable urban development.

Nature-Based Solutions (NbS) and Water Sensitive Urban Design (WSUD) provide practical approaches for integrating ecological processes into urban infrastructure. Measures such as constructed wetlands, bio-retention systems, rain gardens, urban wetlands, decentralised wastewater treatment, water-sensitive landscapes, green corridors and nature-based stormwater management can complement conventional infrastructure while delivering multiple co-benefits such as water-quality improvement, flood mitigation, groundwater recharge, biodiversity enhancement, heat reduction and improved public spaces. Recent Indian guidance and case studies demonstrate the growing relevance of WSUD and constructed wetlands for Indian urban conditions. The course therefore focuses on moving from "grey infrastructure only" to integrated green-blue-grey infrastructure, with emphasis on planning, design, implementation, operation and maintenance of Nature-Based Solutions for sanitation, solid waste management and urban water supply/water management. It will provide participants with practical knowledge of how NbS can be integrated into city-level planning and projects while considering land availability, technical feasibility, lifecycle costs, institutional responsibilities and community participation.

Objectives

The course aims to build an understanding of **Nature-Based Solutions, green-blue infrastructure and water-sensitive approaches** relevant to Indian urban sanitation, solid waste management and water systems.

It will enable participants to identify, plan and assess **practical, climate-resilient and resource-efficient NbS interventions** and understand their integration with conventional urban infrastructure.

Course Coverage

- Overview on Urban Challenges, Climate Resilience and Nature-Based Solutions
- Green, Blue-Green Infrastructure and Water Sensitive Urban Design
- Nature-Based Solutions for Urban Sanitation, Wastewater Management, SWM and Resource Recovery
- Constructed Wetlands and Decentralised Wastewater Treatment
- Water Conservation, Rainwater Harvesting and Groundwater Recharge
- Urban Water-Body Rejuvenation and Ecological Restoration

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

Centre for Promotion of Professional Excellence

- Green Infrastructure for Stormwater and Flood Management
- Circular Economy and Resource-Efficient Urban Infrastructure
- Planning, Design, Implementation and O&M of Nature-Based Solutions
- Indian Case Studies and Good Practices
- Practical Exercises and City/ULB-Level NbS Planning.

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 Audience

This course is designed for municipal officials, urban planners, engineers, water and sanitation professionals, solid waste management practitioners, environmental specialists, landscape architects, infrastructure planning agencies, consultants, and other professionals involved in planning, designing, implementing and managing urban infrastructure and Nature-Based Solutions.

Programme Dates, Code & Timings

Dates: 02 – 06 November 2026 (EM 6117) & Timings: 10:00 AM onwards at ESCI Campus, Gachibowli, Hyderabad.

Course Coordinator

Ms. Anita Aggarwal

Faculty & Head I/c.

Environment Management Division

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

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: 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). **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).

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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 or email: em@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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