



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

Sustainable Urban Drainage System

20 - 22 May 2024



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

Introduction

Sustainable urban drainage systems (SuDS) are systems designed to efficiently manage the drainage of surface water in the urban environment. Population growth, increasing pollution of drinking water, floodings as well as more frequent and longer periods of droughts all encourage the consequences of climate change, including flooding caused by extreme rain events. Eighty percent of a municipality's problems are caused by twenty percent of its sanitary sewers & drainage systems. In this respect, Sustainable Urban Drainage Systems (SUDS) can play a key role in urban water management and contribute to building cities that are attractive for people to live in. The best way to avoid the majority of future problems is to pay greater attention to them during the planning, design and implementation phase. There is an increasing need for a more sustainable approach to managing surface water. Sustainable Drainage Systems (SuDS) reduce the effect on the quality and quantity of runoff from developments, and can provide opportunities for amenity and biodiversity at no additional cost – but only if the design is approached in the correct manner. To design an effective urban drainage system, knowledge of the technical design principles for each component of the system is required.

This three days workshop is aimed at those who want to upgrade their skills Urban drainage systems, overview of fundamental considerations when approaching a SuDS design, key considerations such as how runoff is collected are missed, which can significantly affect the design etc. . Participants will learn to develop a plan to mitigate the environmental impact caused by urban development. The uniqueness of this course is its emphasis on hands-on exercises for designing the various components of drainage systems.

You will get an opportunity to engage in an informative Q & A with our experts as well as other professionals.

Objectives

The proposed Three day Course aims to provide an overview, techniques and design of Sustainable urban drainage systems.

Course Coverage

- ✓ Overview and importance of SuDS
- ✓ Current challenges in urban drainage systems by urbanization and climate change towards sustainable and resilience cities
- ✓ Design of urban drainage systems-Urban hydrology. Hydraulics, Wet & Dry weather flow characteristics
- ✓ Techniques for renewal and upgrading of urban drainage systems
- ✓ Data collection and processing for urban drainage management
- ✓ Modelling of urban drainage systems
- ✓ Advanced topics in urban drainage
- ✓ Elements and techniques of SuDS- Water storage, Water harvesting, Storm Water Management, Treatment of Run-Off
- ✓ Field Visits, Group Exercise, Case Studies and Panel Discussions with Experts.

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

Centre for Promotion of Professional Excellence

Methodology

Methodology of the programme includes lectures by expert faculties, case studies and practical demonstration, Online Video Interactive sessions with Hand-on Practical, Lecture / Discussion with audio visual aid, bench marked video shows, chalk & talk sessions, online case studies, debates, sharing of experiences etc. All the sessions will be interactive, demanding active participation from all the members.

Target Participants

The course is meant for professionals involved in planning, design, construction, operation and maintenance and management of urban drainage. The course is also for Engineers and other specialists working in development control or the design of new infrastructure. As well as planners, developers, architects, master-planners and drainage engineers. Engineers/ Managers / Commissioners at all levels working in Metropolitan Water Supply & Sewerage Boards, Public Health Engineering Departments, Municipal Corporations, Municipal Administration Departments, Urban Development Authorities, Industrial Townships, Industrial Development Corporations, Consultancy Organizations, Implementing agencies and self-interested professionals / individuals.

Programme Dates, Code & Timings

Dates: 20 - 22 May 2024 (EM 6089) & Timings: 10:00 AM onwards.

Course Director

Ms. Anita Aggarwal

Faculty & Head I/c. Environment Management Division,
Engineering Staff College of India,
Old Bombay Road, Gachi Bowli, Hyderabad 500 032
Phone: Direct 040 6630 4120 to 4122 Fax: 040-66304163
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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.

Fee Details:

- **Course Fee** – Rs. 16,000/- (Rupees Sixteen Thousand only) per participant (Residential). 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) (ZCC) 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.

Environment Management, Engineering Staff College of India

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