



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 GIS & Remote Sensing for Mapping Change

(covering measuring of change in vegetation cover, vegetation carbon stock, change in soil cover, soil carbon stock)

19 – 21 June 2024

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

Introduction

Geographic Information System (GIS) and Remote Sensing (RS) technology that has emerged with the development of geographical science, remote sensing, computer and information science, is used to collect, manage, analyze and visualize spatial data. Based on the actual need, it combines location and associated attribute information to present it in an illustrative form. The spatial information of environmental protection can be very large; however, the advantage of GIS & RS lies in the management and analysis of such large- or small-scale spatial information. GIS & RS have become essential tools for planning, resource management and decision making. These are used in measuring of change in vegetation cover, vegetation carbon stock, soil cover, soil carbon stock, infrastructure management, project beneficiary mapping, land use planning, market analysis, impact analysis, and environment management. The training programme on GIS Mapping and Spatial Data Analysis aims to equip the participants with knowledge to use GIS tools to visualize real world features, explore spatial data and analyze maps to communicate information and make decisions.

Objectives

The objective of the programme is to provide in-depth knowledge on the use of GIS & RS as a tool to integrate knowledge about climate change, for instance how parameters like measuring change in vegetation cover, vegetation carbon stock, soil carbon stock, others can be used in a meaningful and innovative way.

Course Coverage

This programme is designed to cover broadly the following topics.

- GIS and its application - Introduction to GIS and its application areas
- Remote Sensing & its applications
- Data processing and analysis techniques on land cover/ use changes
- GIS and Remote sensing for Climate Change: Example, change in vegetation cover / biomass, carbon stock, soil carbon stock, agriculture patterns, and other parameters
- Demonstrate case study of selected region/s using remote sensing software
- Group Discussion and Case Studies

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.

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Target Participants

Engineers and managers working in the areas of Environmental Pollution Monitoring from Government Departments, Public Sector Companies and Private sector (all categories of industries). Officials from Regulatory boards, NTPC, NHPC, Consultancy firms, R&D institutions, Academicians, NABET Consultants can also participate in this programme. Government officials from land departments, Students, agriculturist, urban and rural planners, environmentalist, professionals working in forest department, professionals working in disaster risk management and humanitarian, M&E expert, Data analyst engineers, Public health practitioners, epidemiologists, exposure scientists, quantitative health geographers, risk assessors, teachers among others.

Programme Dates, Timings & Code

Dates: 19 – 21 June 2024, Timings: 10 AM Onwards. & Code: 8064

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,

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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. 16,000/- (Rupees Sixteen 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

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.

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