



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



Climate Smart Farming

24 - 26 June 2026

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

Introduction

Climate change due to human activities is a reality and a growing threat to global food security. Rising temperatures and declining rainfall patterns across the world are clear indicators of global warming and its widespread impacts. Climate-smart agriculture (CSA) is an approach to developing new agricultural practices that support food security against climate change. Climate Smart Farming (CSF) is an integrated, forward-looking approach to agricultural development that addresses the dual challenge of ensuring food security while responding to the impacts of climate change.

In 2026, with increasing climate variability—manifested through erratic rainfall, rising temperatures, soil degradation, and water stress, there is a growing need to transition towards resilient and sustainable agricultural systems. CSF focuses on enhancing agricultural productivity, building resilience (adaptation), and reducing greenhouse gas emissions (mitigation), while ensuring environmental sustainability and livelihood security for farmers. The approach aligns with national priorities and global commitments under frameworks such as climate action strategies, sustainable development goals, and evolving agricultural policies in India.

Objectives

- ❖ To build awareness of climate change impacts on agriculture and the need for climate-resilient farming systems
- ❖ To enhance knowledge on sustainable soil, water, and crop management practices
- ❖ To promote the adoption of climate-resilient crop varieties and diversified farming systems
- ❖ To encourage resource-efficient and low-carbon agricultural technologies
- ❖ To facilitate integration of traditional knowledge with modern climate-smart innovations
- ❖ To support policy understanding and alignment with national and state-level climate and agriculture initiatives
- ❖ To facilitate knowledge sharing through case studies and best practices in India

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

Centre for Promotion of Professional Excellence

Course Coverage

This training program will broadly cover the following key areas:

1. Fundamentals of Climate Change and Agriculture
 - Climate change science and regional impacts (India-specific)
 - Vulnerability of crops, livestock, and fisheries
2. Principles of Climate Smart Farming
 - Productivity, adaptation, and mitigation pillars
 - Climate risk assessment and planning tools
3. Climate-Resilient Crop Management
 - Drought, flood, and heat tolerant crop varieties
 - Crop diversification, intercropping, and agroforestry systems
4. Water Resource Management
 - Micro-irrigation techniques (ex., drip, sprinkler)
 - Rainwater harvesting and watershed management
5. Soil Health and Nutrient Management
 - Soil conservation practices and organic amendments
 - Integrated nutrient management (INM)
6. Climate-Smart Technologies and Digital Agriculture
 - Use of IoT, drones, remote sensing, and precision agriculture
 - Weather-based advisory systems and mobile applications
7. Mitigation Strategies in Agriculture
 - Reducing greenhouse gas emissions from farming practices
 - Carbon sequestration and regenerative agriculture
8. Policy Frameworks and Government Initiatives (India - 2026)
 - Overview of national missions and schemes supporting CSF
 - Role of institutions, extension systems, and stakeholders
9. Case Studies and Best Practices
 - Successful climate-smart farming models in India
 - Field-level implementation strategies and lessons learned

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

Agriculture Officers, Officials from Rural Development, Watershed, and Irrigation Departments, Scientists, Researchers, and Faculty Members from agricultural universities and research institutions, Students and Scholars, NGOs, Agri-entrepreneurs, Representatives from Financial Institutions and Development Agencies, Policy Makers and Planners.

Programme Dates, Timings & Code

Dates: 24 - 26 June 2026, Timings: 10 AM Onwards. & Code: 8073

Course Director

Dr. K. Chandrakala Sr. Faculty

Dr. Aadhi Naresh, Faculty

Centre for Climate Change

Engineering Staff College of India,

Phone: Direct 040 6630 4164/4137, Fax: 040 - 6630 4163,

Mob: 94948 72533 Email: 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. 18,500/-** (Rupees Eighteen 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) (ZC) 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.**

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