Advanced Course on

Recent Advances in Concrete Technology & Durability of Concrete Structures 2026 (RACT & DCS 2026)

21-23 January 2026




Organized by
CSIR - Structural Engineering Research Centre
(An ISO 9001: 2015 Certified Organisation)
CSIR Campus, Chennai - 600113, India

About the organization

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, is one of the national laboratories under the Council of Scientific & Industrial Research, India. CSIR-SERC has built-up excellent facilities and expertise for the analysis, design and testing of structures and structural components. Scientists of CSIR-SERC serve on many national and international committees and the Centre is recognised at the national and international levels as a leading research institution in the field of Structural engineering.

Overview

CSIR-SERC is conducting skill development programmes with the motive of creating skilled work force. Recent Advances in Concrete Technology & Durability of Concrete Structures (RACT & DCS) is one such programme being carried out for the past six years. The primary objective of the course is to provide an opportunity for researchers, practising engineers, academicians and consultants, belonging to the public and private sector institutions, and other engineering professionals to familiarise themselves with the recent developments in concrete technology, durability related issues such as corrosion of reinforced concrete structures, condition assessment by non- destructive testing (NDT) and repair & rehabilitation.

Course Content

The course will cover various topics such as Special concretes viz foam concrete, ultra high performance concrete, geopolymer concrete, recycled concrete, concrete durability, durability of RC structures including underground concrete, recent advances in durability based service life design, microstructural characterisation techniques for cementitious composites, Nano-engineered electrically conductive composite, Health monitoring and performance evaluation of structures, Field experience and issues during concrete construction, Time dependent properties of fly ash concrete, and 3D printing of concrete.

Pre-Requisites

The course registrants can ensure adequate knowledge on the background to course contents to fully exploit the benefits of attending the advanced course.

Faculties

Faculty for the course would comprise mainly scientists from CSIR-SERC and experts from reputed research/ academic institutions / industry

Venue & Duration

Training & Development Complex, CSIR Campus. Three days; Time 09:00 a.m. to 05:30 p.m.

Fee & Registration Details

Rs. 3000/- per participant inclusive of GST for working professionals, Rs. 1500/- for student participants and US $ 450/- for foreign delegates. Presentation material (in .pdf format) and participation certificate will be provided to all the registered participants. The course registration can be completed via online form with the URL below https://serc.res.in/course

Travel Boarding and lodging arrangements

The participants or their sponsoring organisations must bear travel, boarding and lodging expenses. Limited accommodation in the Guest House/Trainee's Hostel at CSIR-SERC Campus may be arranged on a first-come-first-served basis at extra cost. Participants wishing to avail of this facility are advised to write to the course coordinator well in advance, and in any case, not later than 15 January 2026.

Course Coordinators

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