

Skill development programs under CSIR Integrated Skill Initiative (Short-term advanced courses)

Annual Planner FY 2024-2025



Organized by

**CSIR-STRUCTURAL ENGINEERING RESEARCH CENTRE,
CHENNAI**

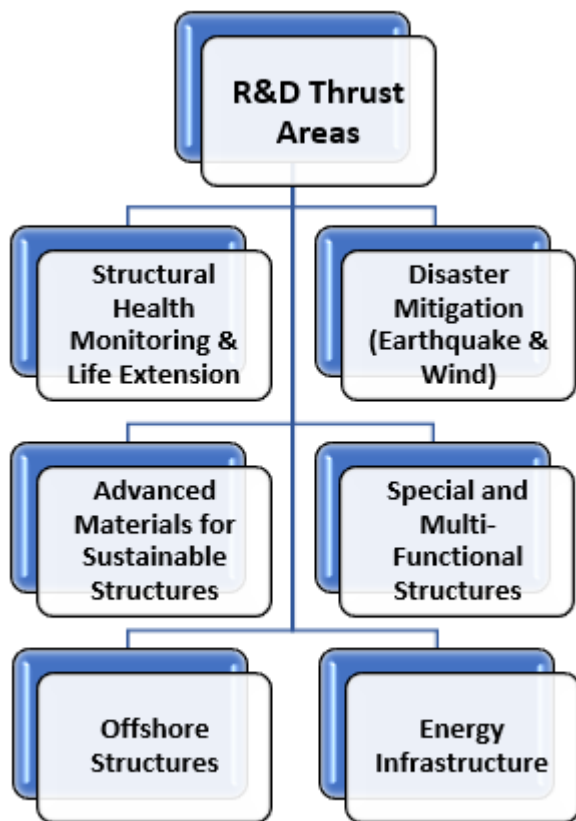
About CSIR Integrated Skill Initiative:

The Council of Scientific and Industrial Research (CSIR) is embarking upon the “Skill India” mission of the Government of India under its “CSIR Integrated Skill Initiative” Programme. Under this umbrella of Skill India, CSIR laboratories have taken up various skill training programs under different domains.

On 24th September 2016 Honorable Prime Minister Shri. Narendra Modi inaugurated the “CSIR Platinum Jubilee” Celebration. On this occasion, “CSIR Integrated Skill Initiative” programme has been launched on pan-India basis in all CSIR labs. The aim is to train people of India in all relevant skill areas. All these training programs are interconnected and linked to industry requirements and thus would invariably contribute to subsequent employment generation, including small-scale entrepreneurship.

About CSIR-SERC

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, India is one of the national laboratories under the Council of Scientific and Industrial Research (CSIR), India. CSIR-SERC has built up excellent facilities and expertise for the analysis, design, and testing of structures and structural components. Services of CSIR-SERC are being extensively used by the Central and State Governments and public and private sector undertakings. Scientists of CSIR-SERC serve on many national and international committees and the Centre is recognized at the national and international levels as a leading research institution in the field of structural engineering.



Expertise:

- ❖ Computational Structural Mechanics
- ❖ Bridge Engineering
- ❖ Fatigue & Fracture
- ❖ Health Assessment Using Guided Wave Propagation
- ❖ Nano Mechanics & Engineering
- ❖ Risk & Reliability
- ❖ Shock & Vibration
- ❖ Steel Structures
- ❖ Structural Concrete Engineering
- ❖ Structural Dynamics & Engineering
- ❖ Structural Health Monitoring
- ❖ Sustainable Materials and Composites
- ❖ Wind Engineering
- ❖ Offshore structures
- ❖ Energy infrastructures

About Short-Term Courses:

CSIR-SERC organizes various skill development programmes under CSIR Integrated Skill Initiative. Past five years, CSIR-SERC organized about 100 short-term advanced courses (online/offline) through which nearly 3500 participants from industry, research institutes & academia got benefitted.



For the current financial year (FY 2024-2025), 5 training programs / Skill Development Programs / Short-Term Courses of short duration (2-3 days) are being planned to organize through offline mode (physical). These courses are designed in such a way that they will cover the major areas in Structural Engineering. Both technical lectures and demonstrations will be covered in these courses. The course faculty members are the scientists of CSIR-SERC who have vast experience in specific areas of structural engineering. In addition, there may be a few external experts who will deliver the lectures. Also, the demonstrations and practical sessions will be conducted in the state-of-the-art laboratories of CSIR-SERC.

On successful completion, course participants will receive the participation certificates at the end of the course. Due to its short duration and condensed, focused, and capsulated syllabus, the short-term courses are well received by students, academicians, employed, and entrepreneurs who are unable to spare more time.

On-demand / Industry sponsored courses (tailor-made):

Academic Institutions/Government Departments/industries can contact us for tailor-made programs exclusively designed for their students/staff/sponsored participants in the area of Structural Engineering. The medium of presentation and interaction will be in English. For inquiries regarding tailor-made courses, kindly contact us through email at director@serc.res.in / shrdd@serc.res.in.

Prerequisites

The course registrants can ensure adequate knowledge on the background to course contents through academic qualifications/working experience to fully exploit the benefits of attending advanced courses.

Schedule of Courses for 2024-2025:

Course Code	Title of the Course	Proposed Dates	Course Fee
AC-01	Advanced Course on Fatigue and Fracture Behaviour of Materials, Components and Structures	24-26 July 2024	Rs. 3000/-
AC-02	Forensic Insight for Evaluation of Distressed Concrete Structures and Its Remedial Measures	28-30 August 2024	Rs. 3000/-
AC-03	Prestressed Concrete Box Girders-Behaviour and Concept	18-19 September 2024	Rs. 2000/-
AC-04	Advanced Course on Seismic Engineering and Testing	28-30 January 2025	Rs. 3000/-
AC-05	AI Assisted Techniques for Health Monitoring and Assessment of Special Structures	27-28 February 2025	Rs. 2000/-

Registration and other details will be regularly updated at <https://serc.res.in/course>

Contact:

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