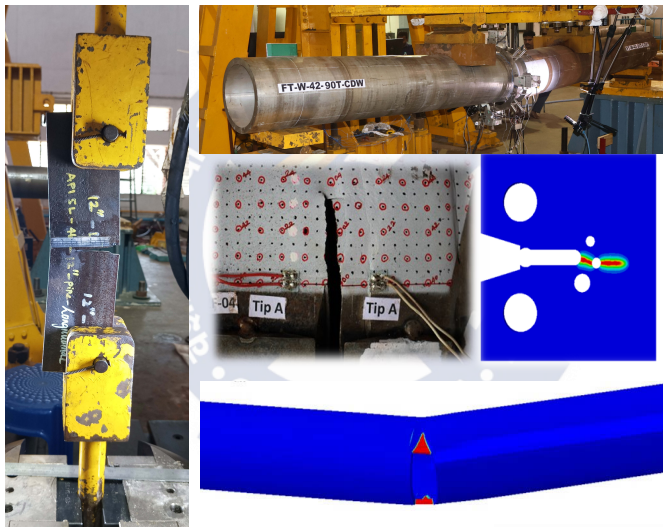




Advanced Course on Fatigue Life and Fracture Behaviour of Structural Materials and Components under Different Loading Conditions

FLoC '26
9-11 September 2026



Organised by :
CSIR-Structural Engineering Research Centre
(An ISO 9001-2015 Certified Organization)
CSIR Campus, CSIR Road, Taramani
Chennai – 60013, India

About CSIR-SERC

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai is one of the national laboratories under the Council of Scientific & Industrial Research (CSIR), India. CSIR-SERC has built-up excellent facilities and expertise for analysis, design and testing of structures and structural components. Services of CSIR-SERC are being extensively sought 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.

About the Course

The course provides necessary background to basic concepts of fatigue and fracture including design of components and structures against fatigue. The workshop gives an opportunity for engineering professionals to familiarize themselves with the recent developments in the area of fatigue and fracture mechanics. The course will be focused on experimental and numerical techniques for fatigue and fracture of metallic structural components. The topics to be covered during the Course include:

- ◆ Fundamentals of fatigue and fracture - metals and concrete
- ◆ Fatigue and fracture behaviour of metallic specimens / components under various loading conditions
- ◆ Specialised fatigue and fracture experimental studies on structural components
- ◆ Advanced computational methodologies for fracture analysis of structural components
- ◆ Probabilistic modelling of fatigue and fracture
- ◆ Structural failure case studies on fatigue and fracture

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Participation

- The course is open to practicing engineers, researchers, academicians, consultants, research scholars, stake holders and decision makers in public and private sector organizations.
- The course will include visit to fatigue and fracture Laboratory and other prominent laboratories at CSIR-SERC.
- The participation certificate will be provided to all the registered participants.

Venue & Duration

Training and Development Complex, CSIR-SERC, Chennai
9-11 September 2026; Time: 09.30 a.m. to 5.00 p.m.

Registration & Fee

The registration fee for the course is Rs. 3,000/- (inclusive of GST) per participant for Indian delegates, Rs. 1,500/- (inclusive of GST) per participant for students (with proper authentication) and US\$ 450/- for foreign delegates. Presentation material (pdf format) shall be provided to all the registered participants. The brochure and details of the registration can be downloaded from the CSIR-SERC web site.

<https://serc.res.in/course>

Boarding & Lodging

- The participants or their sponsoring organizations must bear travel, boarding and lodging expenses.
- Limited accommodation in the Guest House/Trainee Hostel at CSIR-SERC campus may be arranged on first come-first-served basis.

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.



For further details, contact us

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Faculty for the course would comprise mainly scientists from CSIR-SERC and few experts from academia and industry