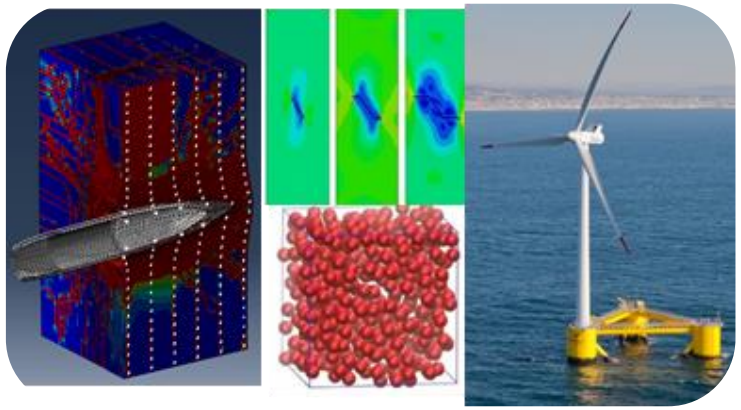
Online Course

A short term course on

Advanced Computational Methods for Structural Engineering (ACMSE)

29-30 Nov 2022



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CSIR Integrated Skill Initiative

Organized by

CSIR-Structural Engineering Research Centre
(An ISO 9001-2015 Certified Organization)
CSIR Campus, Taramani
Chennai – 600 113, India

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, India 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 the analysis, design and testing of structures and structural components. Services of 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. CSIR-SERC has been certified as ISO: 9001 quality institution.

Objective

CSIR-SERC is conducting skill development programmes with the motive of creating skilled workforce for the industrial/societal requirements, as a part of skill initiative programme of CSIR. The programme aims to provide an opportunity for students, consultants and practising engineers belonging to the public and private sector institutions, and other engineering professionals to get an overview of the advanced computational technique to solve challenging structural engineering problems.

Course Content

The course is planned to provide detailed insight about the application of advanced computational methods for structural engineering problems. The course comprises of series of lectures on computational modelling of structural fracture mechanics, molecular dynamics, hydrodynamic analysis of offshore structures, and structural analysis against blast/impact loading. During the course, computational software such as ANSYS/AUTODYN, ANSYS/AQWA, ABAQUS/Explicit, OpenFAST, ABAQUS/XFEM will be discussed for solving the special structural engineering problems.

Duration

Two days; Time 9.30 am to 05.00 pm (IST)

Fee and Registration

Rs.1000/- per participant inclusive of GST for Indian delegates and US $25/- for foreign delegates. Participation certificates shall be provided to all the registered participants. The brochure and details of the registration can be downloaded from the CSIR-SERC website **https://serc.res.in**.
The Course registration can be completed via online (**http://forms.serc.res.in/view.php?id=98813**). Kindly select the present course in the form and fill all the particulars. The registration fee for the course can be paid by clicking the SBI collect in the registration form.

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.

Requirements for the Online mode

Desktop/Laptop/Smartphone with good internet speed. The web link will be sent to registered participants

Coordinators

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