

Training programme on  
**‘Concrete Mix Design and Sustainable Construction Technologies’**

**Duration:** Two Weeks, 22<sup>nd</sup> May – 2<sup>nd</sup> June 2017

**Participants:** Undergraduate students (Third and Final year) and faculty of Civil Engineering

Selection Criteria for students: Marks  $\geq 75\%$  aggregate in B.E./ B.Tech. or equivalent CGPA of 7.5 (upto declared semester result)

Batch Strength: 30

**Fees: Rs.5,000/- (Students), Rs.15,000/- (Faculty)**

**Topics to be covered**

**Concrete Materials:** Cement, Fine Aggregate, Coarse Aggregate, Admixtures (Mineral and Chemical), Properties and Applications of Fibre Reinforced Concrete, Self-Compacting Concrete, Alternate Materials - Recycled Aggregates and Manufactured Sand

**Mix Design Methods:** Mix Design of Concrete, Indian Standard Method, ACI method, Trial Mix and Strength Tests

**Sustainable Construction Technology:** Geopolymer Concrete and various Source Materials, Industrial by Product, Prefabricated Building Products

**Quality Control and Testing Methods:** Fresh and Hardened Concrete Tests, Durability of Concrete, Corrosion of Reinforcement, NDT Methods: Rebound Hammer, UPV, GPR etc.

**Practical / Laboratory Work:** Material Characteristics, Design of Concrete Mix, Casting Specimens, Testing of Specimens, Non Destructive and Destructive Methods

**Laboratory Visits:** Various Laboratories and Testing facilities of CSIR-SERC

Attach with your application (in plain paper) brief resume / CV.

**Application deadline: 19<sup>th</sup> May 2017**

Limited hostel accommodation will be provided on shared basis for training programme participants at extra cost.

The duly filled in application form has to be sent to (scanned copy can be sent to the e-mail id's below and hard copy can be handed over at the time of registration). Payment shall be made in the form of DD in favour of 'Structural Engineering Research Centre' payable at Chennai.

**The Coordinators**

**Training programme on ‘Concrete Mix Design and Sustainable Construction Technologies’**

**Advanced Materials Laboratory**

**CSIR - Structural Engineering Research Centre**

**CSIR Campus, Taramani**

**Chennai – 600 113, Tamil Nadu**

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