Participation

The course is open to

- Academicians, Scientists and Research scholars, from academic and research institutions
- Construction, design, inspection & maintenance, quality control, certifying and planning engineers from Government, public and private sector organizations

Registration

The registration fee for the course is Rs. 15000/- (inclusive of Goods & Service Tax at 18.0%) per participant. For foreigners, the registration fee is US $ 250/- per participant. The brochure and details of the registration can be downloaded from the CSIR-SERC web site http://www.serc.res.in

The registration fee covers registration kit which includes the course material, lunch and refreshments during the course period.

Applications for participation in the course may be sent in the attached proforma along with the registration fee to the course coordinators so as to reach them on or before 15th December 2017. The registration fee shall be remitted by a crossed Demand Draft drawn in favour of "**CSIR-SERC"** payable at Chennai. For e-payment, the amount may be transferred to CSIR-SERC savings A/C No. 30225927924 with SBI, Taramani (IFSC Code: SBIN0010673; MICR Code: 600002130) – towards "RACT & DCS 2018 fee". Number of participants for the course is limited to 30 and selection will be on first cum first serve basis. Intimation about acceptance of registration for the course will be communicated to the participants by third week of December 2017.

Travel, Boarding and Lodging Arrangements

Travel, boarding and lodging expenses of the participants will have to be borne by them or their sponsoring organizations. However, limited accommodation in the Trainee's Hostel at CSIR-SERC Campus may be arranged on *first-come-first served basis* at extra cost. Participants, who wish to avail this facility are advised to write to the course coordinator well in advance, and in any case, not later than 3rd January 2018.

Coordinators

Dr. S. Bhaskar, Principal Scientist
Dr (Ms). P.S. Ambily, Senior Scientist
RACT & DCS 2018
CSIR-Structural Engineering Research Centre,
CSIR Campus, TTTI (Post), Taramani, Chennai - 600113, India
Ph: 91 -44-22549167/22544750,
Fax: 91-44-22541508
E-mail:bhaskar@serc.res.in; ambilyps@serc.res.in,
http://www.serc.res.in

Please mail to:

Dr. S. Bhaskar/Dr (Ms). P.S. Ambily
Course coordinators
Recent Advances in Concrete Technology & Durability of Concrete Structures (RACT & DCS 2018)
CSIR-Structural Engineering Research Centre,
CSIR Campus, TTTI (Post), Taramani, Chennai - 600113, India
E-mail:bhaskar@serc.res.in;
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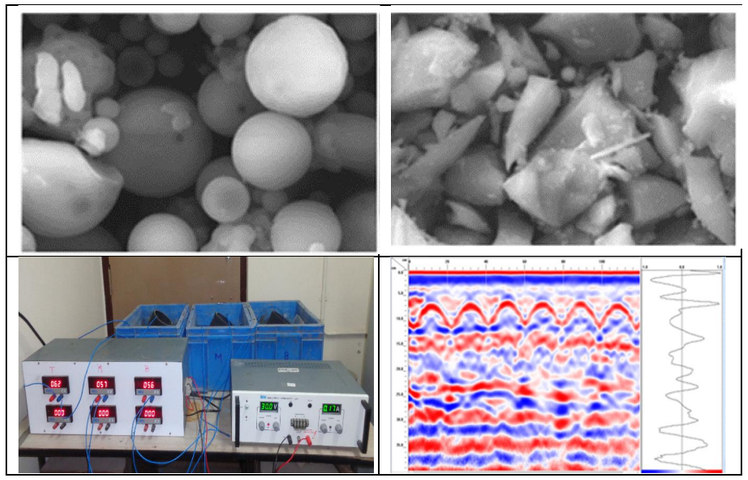
Advanced Course on

Recent Advances in Concrete Technology & Durability of Concrete Structures (RACT & DCS 2018)

17 - 19 January 2018



CSIR–SERC
ENGINEERING SUSTAINABLE STRUCTURES

Organized by

CSIR-Structural Engineering Research Centre
CSIR Campus, Taramani
Chennai – 600 113, India

ADVANCED COURSE ON RECENT ADVANCES IN CONCRETE TECHNOLOGY & DURABILITY OF CONCRETE STRUCTURES

An advanced course on Recent Advances in Concrete Technology & Durability of Concrete Structures will be conducted by the CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai, during 17-19 January, 2018.

BACKGROUND

Concrete is the second most widely used construction material in the world after water. Many advancements are taking place in concrete technology for the past three decades: which include new materials, mixture proportioning, chemical admixtures, recycling, structural design, durability requirements, testing and specifications etc. Most noteworthy is the development of superplasticized concrete mixtures which give very high fluidity at relatively low water contents. High strength concrete, ultra-high strength concrete, the use of corrosion-inhibiting admixtures, epoxy-coated reinforced steel, advanced cementitious composites using nanotechnology are among the latest technological advancements. Eco- friendliness of the concrete is also becoming increasingly important for technology assessment in future. The growing interest in sustainable materials and structures has led to considerable R & D efforts in the development of viable alternative materials for Portland cement concretes. These include: Geopolymer concrete (GPC) using industrial byproduct as binder source material, recycled aggregate concrete, concrete based on other alternate aggregates such as copper slag, fly ash aggregate, and blast furnace slag, etc.

In recent years, researchers have focused on the improvement of concrete quality regarding its mechanical and durability properties, service life and environmental aspects. Generally, concrete structures have the potential to be durable and capable of withstanding different environmental conditions. However, penetration of chlorides, carbon dioxide (CO_2), moisture, etc., can cause the corrosion of rebars and deteriorate the structure. Making of durable concrete and taking suitable control measures on structures at the appropriate time can enhance the service life.

In view of the present state of practices and technological advancements, it is proposed to organise the advanced course to disseminate the knowledge to various academicians, researchers, practicing engineers, applicators, etc. The advanced course RACT & DCS 2018 is intended to provide clear exposure to current research activities in India and also to bring out the emerging trends in concrete technology and durability of concrete. The programme is designed to have a series of lectures by the scientists of CSIR-SERC and also the leading experts and technologists in the area of concrete technology, durability of concrete, repair & rehabilitation.

OBJECTIVES

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 of concrete structures, condition assessment by non-destructive testing (NDT), and repair & rehabilitation.

PROGRAMME OUTLINE

The course will cover various aspects like advancements in concrete technology, durability of reinforced concrete, advanced Non-Destructive testing, structural health monitoring, repair and retrofitting of concrete structures, nanotechnology for cementitious composites, geopolymer concrete, ultra-high performance concrete, self-compacting concrete, eco-friendliness of concrete, field experience and problems during concrete construction. Laboratory demo and visit to different laboratories of CSIR-SERC is arranged for the benefit of the participants.

Venue

CSIR-Structural Engineering Research Centre, Taramani, Chennai.

Duration

Three days; Time 09:00 a.m. to 5.30 p.m.

About the Organisation

CSIR-Structural Engineering Research Centre, 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 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 recognised at the national and international levels as a leading research institution in the field of Structural engineering. CSIR-SERC has been certified as ISO 9001:2008 quality institution.

Advanced Course on Recent Advances in Concrete Technology & Durability of Concrete Structures 17 - 19 January 2018

1. Name. . . . . .
2. Designation. . . . . ..
3. Official Address . . . .
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4. Address for correspondence . . . . . .
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. . Phone: . . . . . Fax: . . . .
. . e-mail: . . . .
5. Degree/Membership of Professional Institutions . . . .
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6. Brief account of experience and specialization. . . . . ..
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7. Accommodation at CSIR-SERC Trainees' Hostel required Y/N

Date: Signature of the participant

Endorsement

We agree to sponsor (Name and Designation) . . . . . .
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of this organization for the above Course. The course fee is attached in the form of a Demand Draft / Proof of online fee payment has been enclosed.

Date: Signature and Seal of the Sponsoring Authority