



## Training Programme

in

## QUALITY CONTROL IN CONCRETE CONSTRUCTION

### DATE

11<sup>th</sup> and 12<sup>th</sup> August, 2018

### VENUE

IIT Kanpur

### PROGRAM COORDINATOR

Prof. Sudhir Misra

### ABOUT THE TRAINING PROGRAMME

There is a tremendous emphasis on infrastructure creation in the country, and, projects such as National High Speed Rail, National Highways Development and Housing for All are being afforded top priority. Such construction involves production and consumption of large volume of concrete. In view of emphasis on durability and quality of construction, advances in cement admixtures, better understanding of hydration processes and development in test methods, there is an urgent need to increase the awareness towards quality concrete construction among engineering professionals. This programme is tailor made for engineers, architects, contractors and project managers involved in the planning, design, construction and maintenance and operation of concrete structures, besides teachers in engineering colleges who could obviously benefit from the deliberations. **This training programme is aimed at revising the quality control aspects in concrete construction with emphasis on hands-on testing and evaluation of fresh and hardened concrete.**

### HIGHLIGHTS

- Basic concrete engineering including constituents of concrete and their properties.
- Testing and evaluation of fresh and hardened concrete.
- Effect of chemical admixtures on concrete.
- High Performance Concrete
- Special issues in Prestressed Concrete Construction
- Challenges in quality issues in construction work including contract specifications and management especially pertaining to quality control.

### SCHEDULE

#### Day 1 - Class Room Sessions

Basic concrete engineering, constituents of concrete, proportioning and properties of grouts, porosity of concrete, testing and evaluation of fresh and hardened concrete and grouts (flow, chloride content, temperature, etc.), effect of environmental conditions, non-destructive testing and evaluation.

For more details, [click here](#).

#### Registration Form

[Click Here](#)

#### Day 2 – Laboratory Sessions

Effect of addition of chemical admixtures on properties of grouts and concrete, properties of fresh concrete (workability, setting time, air content, bleeding, temperature), properties of grouts (flow, setting time, temperature), non-destructive testing methods and their limitations.

For more details, [click here](#).

#### Registration Fees (All Inclusive)\*

Teachers – INR 7000

Others – INR 11000

\*The registration fee is inclusive of all taxes and accommodation. Please note that only limited accommodation on sharing basis is available at IIT Kanpur on first-come, first-served basis. The fee is to be paid in advance through online transfer (for bank details [Click Here](#)) or through cheque/DD in favour of **"The Registrar, IIT Kanpur"** payable at Kanpur and sent to the following address: *Professor Sudhir Misra, Department of Civil Engineering, IIT Kanpur - 208016.*

For further queries, mail to [tp.gccc.iitk@gmail.com](mailto:tp.gccc.iitk@gmail.com) or contact: Prof. Sudhir Misra at 0512-259-7346/6296