

AICTE Sponsored (AQIS)
Faculty Development
Programme on

Advanced Concrete Technology

7th to 20th December 2017

Organised By



Civil Engineering Department
Mar Athanasius College of Engineering (MACE)
Kothamangalam, Ernakulam, Kerala 686 666

Co-ordinator :
Dr. Elson John

Co-ordinator :
Dr. Laju Kottalil

Sponsored By



All India Council for Technical Education (AICTE)
New Delhi

Patron : **Dr. Winny Varghese**, Secretary, M.A. College Association
Convenor : **Dr. Soosan George T.**, Principal, M.A. College of Engineering
Joint Convenor : **Dr. Binoy Alias M**, HOD, Civil Engineering Department

RESOURCE PERSONS

Dr. Manu Santhanam, Professor, IIT Madras
Dr. N. Raghavan, Professor, IIT Madras
Dr. Radhakrishna G. Pillai, Assistant Professor, IIT Madras
Dr. Bishnoi Shashank, Associate Professor, IIT Delhi
Dr. Bhupinder Singh, Associate Professor, IIT Roorkee
Dr. Prakash Nanthagopalan, Assistant Professor, IIT Bombay
Dr. Dinakar P., Associate Professor, IIT Bhuvaneshwar
Dr. Smitha Gopinath, SERC Chennai
Dr. Sunitha Nair, Scientist, IIT Madras
Dr. Muhammed Haneefa, Senior Project Officer, IIT Madras
Dr. Praveen Nagaraj, Associate Professor, NIT Calicut
Dr. Jayachandran, Assistant Professor, NIT Trichy
Dr. George Mathew, Professor, CUSAT Cochin
Dr. Glory Joseph, Professor, CUSAT Cochin
Dr. Job Thomas, Professor, CUSAT Cochin
Dr. Dhanya B S, Assistant Professor, RIT Kottayam
Dr. Aneesha Balaji, KSEB, Munnar
Dr. Sreevidya V., Associate Professor, SKCT, Coimbatore
Mr. M.A. Joseph, Ultra Tech Cement Ltd., Kerala
Mr. Shyju Nair, Ambuja Cements, Kerala
Mr. Shelly Fernandes, Qcrete Ready Mix, Cochin
Dr. Mathews M Paul, Professor, MACE
Dr. Laju Kottalil, Professor, MACE
Dr. Elson John, Associate Professor, MACE

FIELD VISITS

Construction of Hydro Electric Power Plant, Pallivasl, Munnar
Bridge Site at Bhoothathankettu, Kothamangalam

IMPORTANT DATES

Commencement of registration : 15-10-2017
Last date of receipt of application form : 20-11-2017
(Scanned copy of DD to be sent along with registration form)
Intimation of selection via e-mail : 22-11-2017
Confirmation by participants via e-mail : 25-11-2017
Commencement of the course : 07-12-2017

Address for Communication

Dr. Elson John,
Associate Professor,
Civil Engineering Department,
M A College of Engineering,
Kothamangalam, Ernakulam,
Kerala-686 666
Email: elson@mace.ac.in
www.mace.ac.in
Phone: +91 96562 83263/ +919447575125

Alternative Contact

Dr. Laju Kottalil
Email : lajukottalil@hotmail.com
Phone : +91 94462 19301



About the course

In the last few years, the concrete industry in India has witnessed a substantial growth due to the immense demand for the infrastructural facilities. This has forced the construction industry to think beyond the conventional construction techniques and to adopt the latest trends in construction practices and materials. Although several advanced technologies are available, very few find real world applications. This two week faculty development programme gives an insight to the latest trends and good practices for durable concrete construction. This course focuses on various deterioration mechanisms on concrete and performance specifications for durable concrete construction. The course will also give insights on various repair and restoration techniques for extending the service life of the existing structures.



M A College of Engineering (MACE) Kothamangalam

Mar Athanasius College of Engineering (MACE), Kothamangalam, pioneered the engineering education in central Kerala in 1961. Managed by Mar Athanasius College Association, Aided by the Government of Kerala, the college was first in Asia under Christian Management. It was also the first engineering college to be affiliated to the Mahatma Gandhi University. MACE has six full-fledged engineering departments providing various under-graduate and post-graduate degree programs in engineering.

Civil Engineering Department

The Civil Engineering Department, started in 1961 is spearheaded by a highly competent, dedicated, well qualified and experienced faculty. Ever since its inception in 1961, the sincere efforts and dedication of the department faculty has earned it a reputation as one of the most sought after in the state. The 36 full-time faculty members of the department are engaged in both teaching and research activities. The department offers undergraduate programme in Civil Engineering and post graduate programme in Structural Engineering and Construction Management & Computer Aided Structural Engineering. The department is an approved research centre under M.G University and APJ Abdul Kalam Technological University. The department takes industry-oriented consultancy projects for various agencies like Cochin Metro Rail Corporation, Cochin refineries Ltd, Kerala PWD, Central PWD, Cochin International Airport, Water authority, Kerala State Electricity Board, Indian Railway, Various Construction companies, Ready Mix Plants, Various local self governing departments.



Place

Kothamangalam, also known as the gate way to high range, is situated at a distance of 45 km from Cochin and 32 Km from Cochin International airport. The nearest railway station is Aluva (Alwaye) is 35 km away and frequent buses are plying between Kothamangalam and Aluva. The town is in the foot hills of the Western Ghats mountain ranges. The world famous tourist destination Munnar is at a distance of 80km from Kothamangalam. The famous and scenic places like Bhoothathankettu, Thattekadu, Pooyamkuty, Kuttanpuzha, Idamalayar, Neriamagalam etc. are within 25 km from Kothamangalam.



TOPICS TO BE COVERED

- Past, Present and Future of Concrete
- Cement Chemistry
- LC³ Cement
- Admixtures and its Mechanism of Action
- Cement - super Plasticizer Compatibility
- Rheology of Concrete
- Concrete Mix Design
- Deterioration Mechanisms of Concrete
- Performance Specifications for Concrete
- Characterization of Concrete
- Special Concretes
- Field Issues in Concrete Industry
- Corrosion and Service Life Prediction
- Waterproofing Technology
- Non-destructive Testing of Concrete
- Sustainable Concrete
- Fire Resistance of Concrete
- Modelling of Concrete
- Geopolymer Concrete
- Precast Concrete

EXPECTED OUTCOME

The course will upgrade the skill and knowledge of the faculty members in the area of concrete technology. This programme will give an awareness of the various possible areas of concrete research, which will help them to find project problems for masters and Ph D courses. The faculty members will be equipped with latest characterization techniques for concrete and advancements in the area of concrete technology. The participants will get a clear idea about the good practices to be adopted at site for better performance and durability of concrete structures. The introduction to the performance based design will certainly help them for assessing the quality of concrete in structures as the present quality control methods/specifications are inadequate in terms of durability of concrete.

WHO SHOULD ATTEND

Faculty of Engineering Colleges
Research Scholars
Builders / Contractors
Govt. Agencies/Officials
Practicing Engineers/Consultants/Architects
RMC Manufacturers

ELIGIBILITY

The programme is open to members of faculty of all Engineering Colleges approved by AICTE. Participants from Industry/R&D organizations, Govt. Agencies/officials and Research Scholars are also eligible, provided they meet their T. A. and D. A. and pay the course fee. Total no. of participants is restricted to 50 on a first come first serve basis.

T.A and D. A.

Faculty of AICTE approved colleges are eligible for T. A. (Three tier AC fare in train) and D.A. as per the AICTE Norms.

REGISTRATION FEES

There is no course fee for the participants from AICTE approved colleges. However, they need to send a DD of Rs. 500/- along with the application form, which will be refunded on the successful completion of the course. For others the course fees will be as follows:

Research Scholars : Rs. 1000/-
Industry/ Govt. Agencies : Rs. 2000/-

ACCOMMODATION

Free boarding and lodging will be provided at college hostel/guest house/hotel for the faculty of AICTE approved colleges on sharing basis. Participants who need accommodation are requested to inform before November 20th 2017. Participants other than faculty of AICTE approved colleges, who need accommodation are requested to inform in advance and the same will be arranged on payment basis.

HOW TO APPLY

Participants are required to fill the registration form and send the same to the course co-ordinator along with the Demand Draft* of Rs. 500/- to be drawn in favour of "The Principal, M. A. College of Engineering, Kothamangalam.

* The amount will be refunded on completion of the course for faculties of AICTE approved colleges.





Mar Athanasius College of
Engineering

AICTE Sponsored (AQIS) Faculty Development Programme on Advanced Concrete Technology

7th to 20th December 2017



All India Council for
Technical Education

REGISTRATION FORM

Name (in block letters) : _____

Age & Date of Birth: _____

Designation & Department: _____

Category of participation : _____

Institution with Address: _____

Address for communication : _____

E-mail: _____ Telephone/ Mob No.: _____

Educational Qualification with specialisation : _____

Experience (in years) : _____

Demand Draft No. & Bank _____

Amount in Rupees _____

Accommodation required: YES NO

The information give above is true to the best of my knowledge and belief. If selected I will attend the FDP for the entire duration.

Date :

Place :

Signature of Applicant:

SPONSORSHIP CERTIFICATE

Certified that Mr./Ms./Dr..... is a faculty of our institution and he / she is sponsored to attended the Faculty Development programme on “Advance Concrete Technology” at MA College of Engineering, Kothamangalam during the period December 7th - 20th, 2017

He / She will be permitted to attend the course, if selected

Place :

Date :

Signature of the Sponsoring
Authority with seal