

STUDENTS CHAPTER OF AMERICAN CONCRETE INSTITUTE

KEC STUDENTS' CHAPTER
in association
with ICACI,
Mumbai
Organizes

One Day National Seminar on "**ADVANCED
MICROSTRUCTURE ANALYSIS OF CONCRETE &
ITS INTERPRETATION**"
25th&26th July, 2019

REGISTRATION FORM

Name :
Designation:
Qualification:
Organisation:
Address for
Correspondence:
Mobile No:
E-mail id :

Need Accommodation: **YES / NO**

(Will be provided on first come first serve basis)

DECLARATION:

The above information is true to the best of my knowledge. If selected, I shall attend the programme for the entire duration. I also undertake the responsibility to inform the coordinator in case I am unable to attend the course.

Place:

Date:

Signature of the Applicant

Who can participate?

Faculty members from AICTE approved Engineering/Polytechnic Institutions, Professionals from State/Central Government, Field Engineers, Research Scholars and Students.

Resource Person:

Dr.G.S.Rampradheep

Associate Professor, Department of Civil Engineering, KEC, Perundurai, Erode.

Venue:

Sri Ramakrishna Paramahamsar Seminar Hall, Mechatronics Block
Kongu Engineering College,
Perundurai,
Erode -638060, TamilNadu.

Organizing Committee

Dr.DAmbika/Assistant Professor
Mr.S.K.Jeeva/ Chairman, KEC-ICACI
Ms.J.Karpagavarshini/Vice-Chairman,KEC-ICACI

Department of Civil Engineering



STUDENTS CHAPTER OF AMERICAN CONCRETE INSTITUTE

KEC STUDENTS' CHAPTER
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Mumbai



India Chapter
of American Concrete Institute

Organizes

**TWO DAY NATIONAL SEMINAR
ON
"ADVANCED MICROSTRUCTURE
ANALYSIS OF CONCRETE & ITS
INTERPRETATION"**

25th&26th July, 2019

Coordinators

Dr.S.Suchithra

Dr.G.S.Rampradheep

Dr.D.Ambika



Department of Civil Engineering
Kongu Engineering College
(Autonomous)
Perundurai, Erode-638 060.

KONGU ENGINEERING COLLEGE:

Kongu Engineering College (KEC) established in the year 1984, approved by AICTE New Delhi and affiliated to Anna University, Chennai has completed 34 years of dedicated and excellent service in the field of technical education. Technology Business Incubator (TBI), first of its kind in technical Institutions in India, established at a cost of Rs.4 crores. Industry Institute Partnership Cell (IIPC) is established with grants aid from AICTE, New Delhi and got 3 times best outstanding IIPC award. In NIRF Ranking-KEC bagged 57th rank in engineering category. According to competition success review 2017, KEC stands 2nd position in top engineering colleges of eminence and 19th position among 129 top engineering colleges including IIT's, NIT's, etc., in India.

ABOUT THE DEPARTMENT:

The Department of Civil Engineering started in the year 1984 and presently offers UG and 2 PG programmes one in Structural Engineering and other in Construction Engineering and Management. Department has been recognized as a Research Centre by Anna University, Chennai. Awards bagged by Faculty and Students are AICTE career award, IE(I) Young Engineers Award, Young researcher award and CEBACA, ICTACT-Best Innovation Award, CII Best Innovation Award ,etc,

Registration Fee:

Students-Rs.400/-

Faculty/Scholar-Rs.800/-

Industry Persons - Rs.1000/-

(Inclusive of all Taxes)

The registration fee includes registration kit, working lunch and refreshment.

Note:

The entry is restricted to 100 participants. Selected candidate will be intimated through E-mail. The registration fee will be collected on the day of workshop.

How to Apply:

The applicants should send their filled in applications in the specified format to reach us on or before **23.07.2019**. Application form can be downloaded from <http://www.kongu.ac.in/>

Application form completed in all respects must to be sent to:

Dr.D.Ambika,

Assistant Professor, Department of Civil Engineering, Kongu Engineering College, Perundurai, Erode -638 060.

Email: ambika@kongu.ac.in

Mobile:+91 9842973738

For Registration Scan this

QR code:



Preamble:

Concrete is a composite material consists of cement, fine and coarse aggregates. The binder medium involves a mixture of hydraulic cement, water and several admixtures. Cement when it reacts with water sets and hardens which leads to the formation of a solid matrix. Microstructure of the concrete will determine strength, stiffness, toughness resistance to moisture, ionic transport and reinforcement steel corrosion of concrete. Therefore knowing the microstructure and its characterization is important in making the next generation of sustainable binders. Microanalysis of concrete is a non-trivial task and needs the sophisticated techniques including, Scanning Electron Microscopy (SEM), 3-D Tomography, Mercury Intrusion Porosimetry (MIP) etc.,

This is a crucial program aimed for faculties with limited experience in material characterization, undergraduate and post graduate students and research scholars in civil engineering. Practicing civil engineers and industry researchers will also find this course very helpful during their analysis.

Topics to be covered

Concrete Overview: Cement Chemistry, Microstructure Characterization, Tools and Techniques for analysis - X-Ray Diffraction (XRD), Scanning Electron Microscopy (SEM), 3D X-Ray Tomography, EDAX. Hands on Training is planned for the participants during the course.