

RESOURCE PERSONS



Dr. Manu Santhanam is a Professor in Department of Civil Engineering, Indian Institute of Technology Madras (IITM), Chennai. His research areas include micro-structural characterization of concrete deterioration, supplementary cementing materials for concrete, and evolving performance specifications for concrete construction.



Dr. Bibhuti Bhusan Das is an Associate Professor in Department of Civil Engineering, National Institute of Technology Karnataka (NITK), Surathkal. His key research activities are in the fields of sustainable green buildings, material characterization, construction planning and scheduling, and quality in construction.



Dr. J. Karthikeyan is an Associate Professor in Department of Civil Engineering, National Institute of Technology, Tiruchirappalli. His research interests include special concrete, high performance concrete materials, microstructure behaviour of HPC, and high performance prestressed concrete bridges.

ORGANIZERS



Dr. A. Sofi
Associate Professor and HOD,
School of Civil Engineering,
Vellore Institute of Technology, Vellore.
e: asofi@vit.ac.in
Mob: +91-97886-34533



Dr. T. Meena
Associate Professor, School of Civil Engineering,
Vellore Institute of Technology, Vellore.
e: meena.t@vit.ac.in
Mob: +91-94428-80715



Dr. J. Jayaprakash
Professor, School of Civil Engineering,
Vellore Institute of Technology, Vellore.
e: jayaprakash.j@vit.ac.in
Mob: +91-82208-48050



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF CIVIL ENGINEERING

ICON2019 PRE-CONFERENCE WORKSHOP ON CHARACTERISATION AND MICRO-STRUCTURE ANALYSIS OF CONCRETE

17th September 2019

Time: 9.30am – 5.00pm

**Venue: Rajaji Hall, Dr. MGR Block,
Vellore Institute of Technology, Vellore.**



**“INTERNATIONAL CONFERENCE ON RECENT TRENDS IN
CONSTRUCTION MATERIALS AND STRUCTURES
ICON2019”
(18th – 20th September, 2019)**

<http://info.vit.ac.in/ICON2019/index.html>

ABOUT VIT



Vellore Institute of Technology (VIT) was founded in 1984 as Vellore Engineering College by the Chancellor Dr. G. Viswanathan. VIT attracts students from all the 29 states of India and more than 41 different countries because of its academic excellence. The credentials of VIT in academics and research, has placed VIT in the 13th position among the engineering institutions and VIT Business School has placed 17th position among the business schools in India by NIRF, Govt. of India Ranking. The world ranking body namely the QS has given 4 STAR rating to VIT, with that VIT becomes the first institution in India to have the 4 STAR rating. In addition to this, the consortium of industries, FICCI has adjudged VIT as the “Excellence in Faculty””. VIT has the record of publishing a maximum number of SCOPUS Indexed Research Journal papers in 2016, among Indian Universities, overtaking all the premier institutions. VIT has also completed 3 cycles of NAAC accreditation and has been rated as “A” grade institution. In addition, VIT also has obtained for the coveted ABET accreditation by the US agency.

VIT has introduced many innovations in academic processes which adds value to every student - FFCS (Fully Flexible Credit System), PBL (Project Based Learning) for better learning, fully digitized academic portals that assist students in equipping themselves for 2020 market-place, Hackathons/Makeathons as part of curriculum exercise which kindles the interest and the curiosity of students,

which moulds them to be better problem solvers, the 8th module in every subject being handled by industry experts, making the students contextualize the concepts they study in the classroom, are few of the innovations that VIT has introduced.

ABOUT SCHOOL OF CIVIL ENGINEERING (SCE)

The School of Civil Engineering (SCE) is a part of VIT since its inception. The School has grown tremendously over years and is now recognized as one of the major engineering schools in VIT. The School has more than 50 faculty members from various reputed institutes such as IITs, IISc, etc. Besides high quality teaching and instruction at both UG and PG levels, the faculty members of the school are actively involved in executing a number of R&D and consultancy projects from government agencies including DST, ISRO, DBT, AR&DB and many reputed industries. The School with its multifaceted faculty continues to maintain and cultivate its strong links with the infrastructural industry such as L&T, HCC, DLF, RAMCO, CCCL, Godrej, TATA Consultancy, etc. The Department is equipped with state of art of laboratories and softwares.

ABOUT THE WORKSHOP

It is well known that the microstructure of concrete has a significant role in influencing its properties include strength and durability due to the effect of various parameters like porosity, permeability, and pore size distribution. To achieve high strength and good durability properties, to prevent concrete deterioration, to reduce the capillary porosity and to accomplish a substantial reduction in the total porosity, a need to reduce the gel porosity is required. This leads to a change in the C-S-H structure from porous to more crystalline phase, i.e., change in concrete micro-structure. Therefore, gaining a deeper understanding of how the performance of concrete is impacted by its microstructure is of prime

significance. This workshop aims to provide a platform to impart knowledge on the microstructure of concrete and its influence on the behavior of concrete.

TOPICS TO BE COVERED

- Use of Characterization Techniques for Linking.
- Concrete Microstructure Performance.
- Pore Structure Characterization of Concrete.
- Mechanical Properties of Semi-Light Weight Concrete using Calcite Powder Pellets.

TARGET GROUPS

- UG & PG Students/Research Scholars
- Faculty Members and Delegates from industry.

REGISTRATION

Category	Registration	
	Early Bird (15 July 2019)	Late
UG & PG Students/Research Scholars	₹ 500	₹ 700
Faculty Members and Delegates from industry	₹ 1000	₹ 1200

To register for the workshop, please follow the link to fill the details of participant. Payment should be made through online using the link given below:

http://info.vit.ac.in/events-vit/Concrete_Characterisation/apply.asp

PRASHNOTTAREE

An exciting and informative event, ‘PRASHNOTTAREE – KWIZ’ on ‘Concrete Micro-Structural Study’ will be organized and top two contestants will be awarded prizes.