



**SRM SOCIETY OF CIVIL ENGINEERS**  
IN ASSOCIATION WITH  
**INDIAN CONCRETE INSTITUTE**  
PRESENTS



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University u/s 3 of UGC Act, 1956

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# CONCRETUS 20'

MARK YOUR CALENDER ON FEBRUARY 20 & 21

## COMPETITIONS

1. DAVIDOVITS
2. CURVA GEOMETRIA
3. GEO WALL
4. GEO VIDEO
5. CONSILID
6. AITCIN

## WORKSHOPS

1. SELF COMPACTING CONCRETE
2. COCONUT SHELL CONCRETE
3. RAPID 3D MODELLING USING ARC GIS
4. INTRODUCTION TO BIM
5. INTRODUCTION TO Q-GIS
6. INTRODUCTION TO PRESTRESSED CONCRETE
7. PRACTICAL APPLICATIONS ON DESIGN AND ANALYSIS OF STRUCTURES

QUIZ

EXCITING PRIZES AND MUCH MORE

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VENUE

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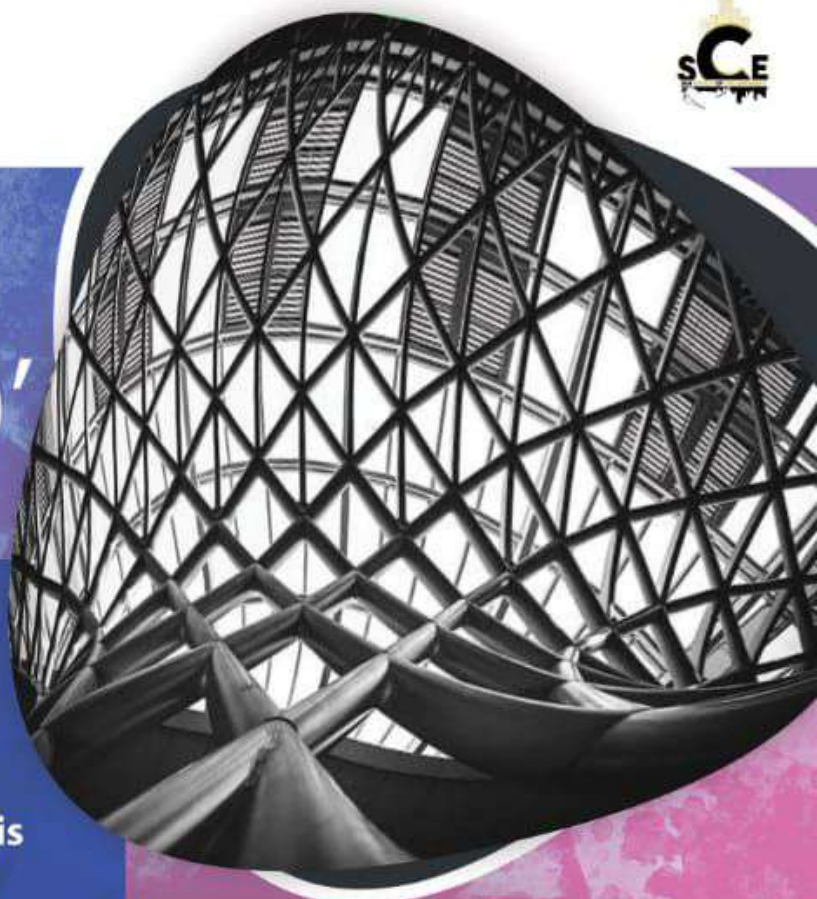
NATIONAL LEVEL TECHNICAL FEST

## WORKSHOPS

Domain: **Civil Engineering**

Title: **Practical Applications on Analysis and Design of Structures**

**Abstract:** Students undergo a lot of theory and practical classes during their course of study. At the end of four years, they are expected to apply them in real world situations in the field of civil engineering. But, more often than not, they are found wanting in this aspect. The reason is not lack of knowledge but lack of confidence to apply the concepts to practical situations. This session of the workshop is aimed at instilling confidence in the budding civil engineers through a series of practical examples and case studies covering wide range of topics in analysis and design. The topics discussed will also enable the students to face the job interviews confidently.



## THE **SPEAKER**

**Prof. G. Augustine Maniraj Pandian**

Dean

Internal Quality Assurance Cell  
SRM Institute of Science and Technology



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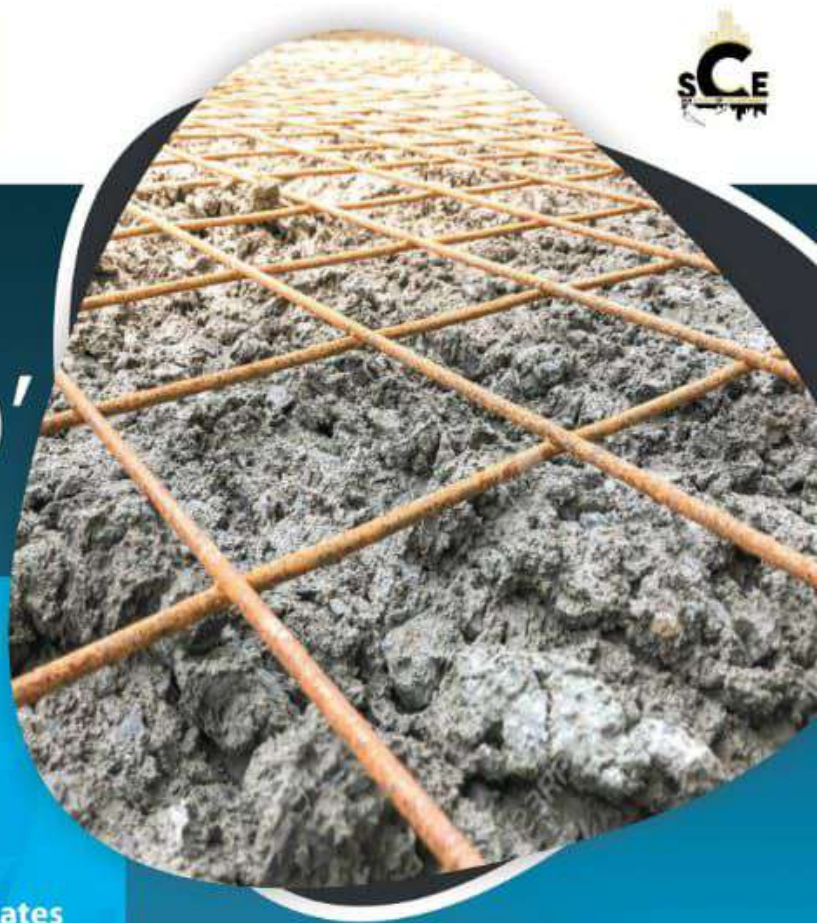
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## WORKSHOPS

Domain: **Lightweight Concrete**

Title: **Coconut Shell as an aggregate in the production of Lightweight Concrete**

Abstract: Concrete is a combination of aggregates bonded together with cementitious paste and it is the best choice of material for construction because of its versatility, easy mouldability, strength, durability and the ready availability of its constituents. Many types of special concretes are developed where the characteristics of concretes are modified by using alternative materials replacing or adding materials in concrete. Lightweight concrete (LWC) is also another special concrete where the density is comparatively less than that of traditional concrete. The weight density of LWC ranges 300 - 1850 kg/m<sup>3</sup> or not more than 2200 kg/m<sup>3</sup> as given by BS EN 1992-1-1. Use of agricultural waste in construction industry is gaining popularity in developing countries simply because of its two fold advantages of construction cost reduction and safe disposal of solid waste. Coconut shell (CS) is one of the agricultural wastes and it is crushed into smaller sizes. These crushed CS was used as lightweight aggregate (LWA) in the production of LWC. Hands on Training will be provided on coconut shell concrete .



## THE **SPEAKER**

**Dr. K. Gunasekaran**

**Professor**

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## WORKSHOPS

Domain: **Concrete Technology**

Title: **Self Compacting Concrete (SCC)**

**Abstract:** Concrete retains high stiffness, compressive strength, low thermal and electrical conductivity, low toxicity and combustibility, two characteristics, have restricted its usage. It is brittle and also weak in tension. To overcome these limitations, several researchers are trying different methodologies. As new methods are coming in Concrete Technology, new problems are also posted. In the modern application of Self compacting concrete is focused on high performance, better and more reliable and uniform quality. Compaction of Concrete particularly in areas of heavy reinforcement, beam Column junctions has become a major issue. To overcome this difficulty of compaction of concrete, a new Concrete called Self Compacting Concrete (SCC).



## THE **SPEAKER**

**Dr. P. R. Kannan Rajkumar**  
Associate Professor  
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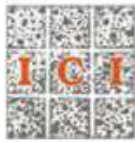


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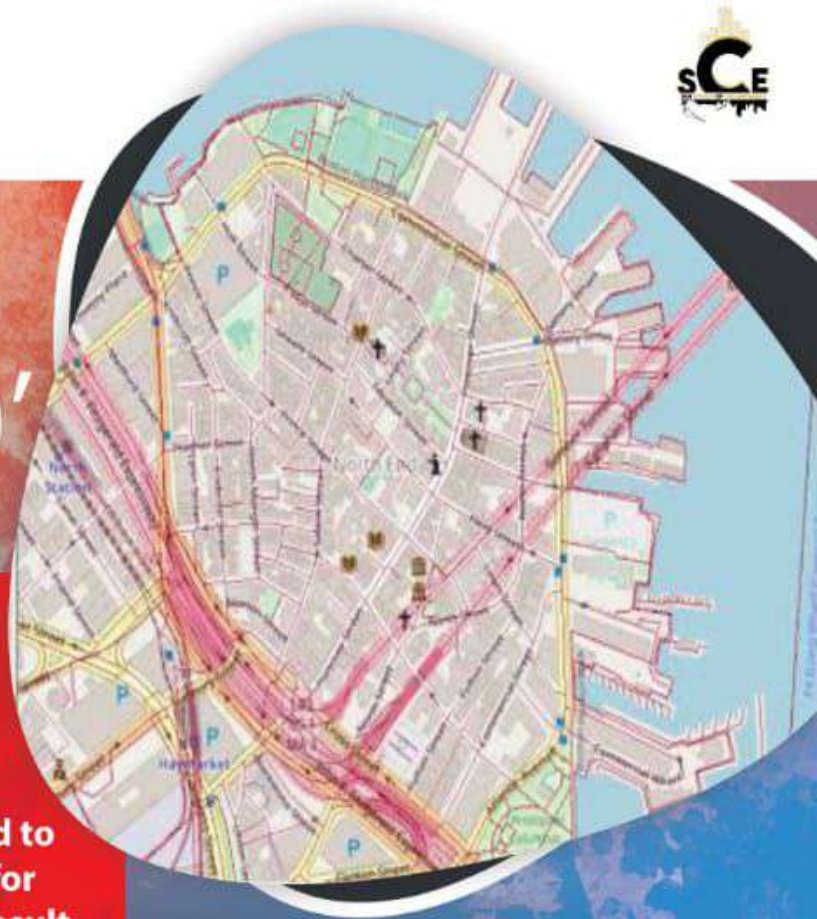




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## WORKSHOPS

Domain: **Rapid 3D Modelling**

Title: **Real time 3D modelling using GIS**

Abstract: **GIS is geospatial technology used to integrate the data from different sources for preparing, analysing and displaying the result in graphical format. GIS is one of the essential tools to generate realistic 3D models using open source data from google earth. The inputs required are survey measurements, aerial photos from drone and aircraft, high resolution satellite images.**

**In this workshop, satellite images are used as a source to extract the building footprint, road network, vegetation and other topographical features with the help of Arc GIS software. The extracted information will be imported in Arc GIS Scene tool to develop realistic 3D modelling. There are many reasons for utilizing the GIS for 3D models, it includes the data integration from different sources, linking with the real time coordinates built in tool to visualize the terrain and contour information along with building models to create the 3-dimensional urban modelling.**



## THE **SPEAKER**

**Dr. S. Karuppasamy**  
Associate Professor  
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## WORKSHOPS

Domain: **Geographic Information System**

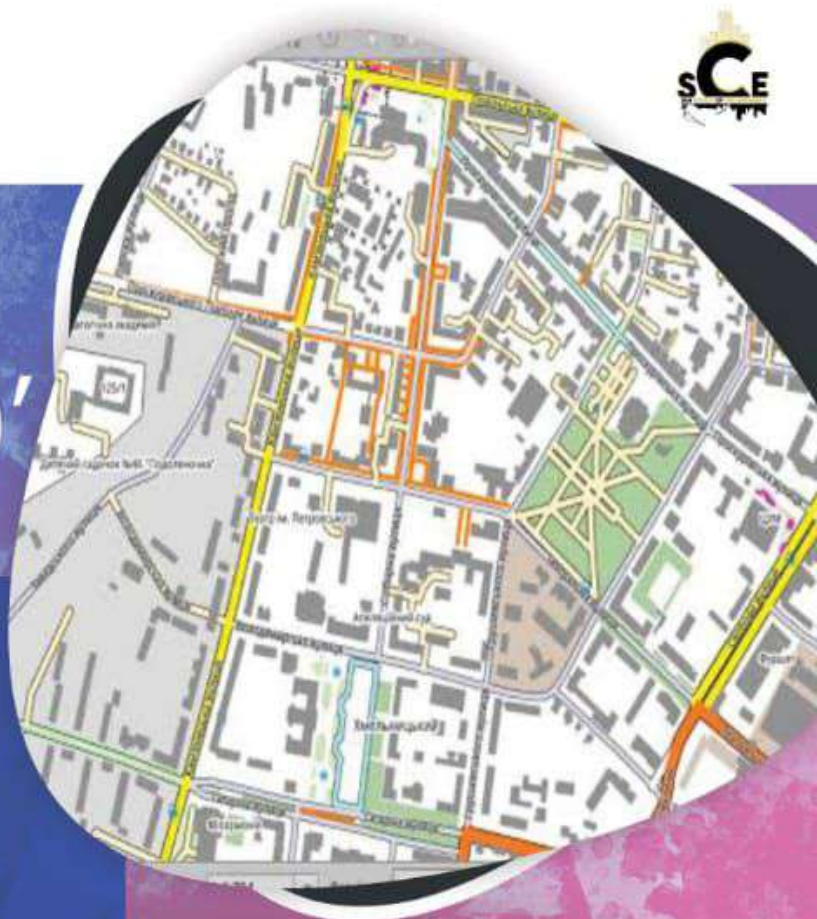
Title: **Introduction to Q-GIS**

**Abstract:** QGIS functions as a GIS software, allowing the users to analyse and edit spatial information, in addition to composing and exporting graphical maps. Multiple formats of raster images are supported, and the software can geo reference images. As a free software application under GNU GPLv2, it can be freely modified to perform more specialized tasks.

In this workshop we will be briefly dealing with the introduction to the QGIS platform and give hands on session to a specific problem statement.

Application:

1. Flood analysis
2. Remote sensing analyses
3. Hydrological modelling using QSWAT
4. Different Interpolation methods
5. Python Programming for Spatial analyses
6. Creating Web based Maps



## THE **SPEAKER**

**Dr. R. Sathyanathan**  
Associate Professor  
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**Dr. Deeptha Thattai**  
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