



# SRM

INSTITUTE OF SCIENCE & TECHNOLOGY  
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## Newsletter of Civil Engineering

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# HARNESS

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**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

SRM Nagar, Kattankulathur - 603 203, Chengalpattu District, Tamil Nadu.

## ABOUT THE DEPARTMENT

The Department of Civil Engineering is one of the oldest and well-established departments in SRM. The undergraduate program in Civil Engineering includes civil engineering subjects and also offers value education, foreign languages, industrial training, personality development courses, yoga, instrumentation, computers, management, economics etc., as part of the curriculum, which are essential requirements for any successful Civil Engineer. Students gain practical experience from field visits to industries, dams and irrigation structures, construction sites, etc. The department's range of postgraduate programs includes core courses as well as electives and independent study. Postgraduate programs are offered in Structural Engineering, Construction Engineering and Management, RS&GIS, Environmental Engineering, and Geotechnical Engineering. Students gain training in their field of study through summer internships. doctoral research areas that are being pursued include concrete technology, structural systems, concrete bridges, soil-structure interaction, modern construction materials, environmental studies and wetland management. Well qualified and experienced faculty members form the department. They specialized in structural, geotechnical, environmental, water resources, transportation, construction engineering and management, remote sensing and GIS. The faculty members contribute to academic development by publishing books and presenting papers in international and national conferences. The labs are well equipped with state of the art equipment. B.Tech Civil Engineering programme at Kattankulathur Campus is accredited by Engineering Accreditation Commission (EAC) of ABET. ([www.abet.org](http://www.abet.org)).

## MESSAGE FROM HEAD OF THE DEPARTMENT



**Dr. K. S. SATYANARAYANAN**

Professor and Head / Civil / SRMIST

Dear Colleagues! It gives pleasure in publishing the department newsletter etching every aspect of activities and events held during the even semester of the academic year 2020 – 21. It is great to find enhanced research activity through collaboration with other universities and our department jointly with UNIMAS organized 1st International Conference on Advances in Construction Materials and Management (ACMM – 2021). Our department organized online webinars in association with Institution of Engineers (India) in the field of Civil Engineering and in this context, 5 webinars were conducted for the benefit of Practicing Engineers, Faculties and Students. Our department also aimed at providing effective knowledge to students and faculty through virtual short term training program and technical webinars covering all aspects of Civil Engineering. Also, students were given opportunities to understand the real time problems and solution through virtual sessions. I thank all the faculty members and students for their support in organizing and conducting departmental activities. I am extremely thankful for the members of DTP section in extending their support for making this newsletter successfully. I congratulate and thank all the team members of Student Chapter from various society of Civil Engineers Association in bringing this newsletter eventful.

## **ADVISORY COMMITTEE MEMBERS**

### **ADVISOR**

**Dr. K.S. Satyanarayanan**, Professor and Head

### **COMMITTEE MEMBERS (FACULTY)**

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

**Ms. C.Sudha**, Assistant Professor

**Ms. T.M. Jeyashree**, Assistant Professor

**Mr. N. Ganapathy Ramasamy**, Assistant Professor

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**Suraj Swaroop**

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**DOCTORATE AWARDED**

S.No	Name of the Candidate	Guide	Date of Viva	Topic
1	Manimaran A	Dr.P.T.Ravichandran	10.3.2021	Soil Stabilisation Using Industrial Waste and Agro Waste
2	K.S.Anandh	Dr.K.Gunasekaran	14.4.2021	Assessment on Quality of Work-Life of Professional Engineers in Construction Industry in Chennai City
3	Parathasarathi. N	Dr.K.S.Satyanarayanan	18.06.2021	Disproportionate Collapse Behaviour of RC Elements, Sub Elements and Planar Frames under High Temperature



## INTERNATIONAL CONFERENCE

The Department of Civil Engineering, SRM Institute of Science and Technology (SRMIST), Kattankulathur, Chennai, India has organized the “1st International Conference on Advances in Construction Materials and Management (ACMM-2021)” jointly with Universiti Malaysia Sarawak (UNIMAS), Malaysia on virtual mode, from 25th & 26th March 2021. This conference was aimed to provide a forum to exchange ideas and opinions on current and newly developing technologies for researchers and engineers by invited lectures. It also assembled the best talents from universities, research institutes, enterprises and experts alike collaborated and addressed current challenges and pursued new windows for discovery and exploration in Civil Engineering.

The conference ACMM-2021 was inaugurated by Dr. Manamohan Kalgil, Technical Advisor, UltraTech Cement Limited, in the presence of Guest of Honour Dr. Hemanth Doloi, Associate Professor, Department of Construction Management, University of Melbourne, Australia, and also Mr. Parvez Alam, Vice President, PMI Chennai Chapter, India.

Dr. K. S. Satyanarayanan, Professor and Head / Civil, proposed a welcome address, Dr. L. Krishnaraj disseminated about the conference, Mr. M. B. Sridhar conveyed the conference highlights, Dr. C. Muthamizhchelvan, Vice-Chancellor, delivered the inaugural address, followed by Chief Guest Dr. Manamohan Kalgil addressed and Dr. Hemanth Doloi specially addressed during the inaugural function. Ms. B. Indhu proposed a vote of thanks and then the inaugural session was winded up. The inaugural session was followed by a keynote address by Dr. Julaihi Wahid, Deputy Dean (Research & Commercialization), Department of Architecture, Faculty of Built Environment, Universiti Malaysia Sarawak, Malaysia on the topic “The Diversity and Prospect of Multi-Disciplinary Engineering in the Built Environment”. Another keynote was addressed by Dr. Amarnath CB, Head-BIM Strategy, L&T Construction President, India BIM Association, India on the topic “Global trends & digital transformation journey in Indian AEC Sector”. The paper presentation in nine sessions in parallel was conducted. In each session, there was a Chair, Co-chair, Host, and Facilitator.

On day two, the session was started with a keynote address by Dr. Alex Albert, Associate Professor, Department of Civil, Construction and Environmental Engineering, North Carolina State University, USA on the topic “Examining Construction Hazard Recognition using Eye-tracking technology” and also another keynote address by Dr. Shamsheer Bahadur Singh, Professor, Department of Civil Engineering, Birla Institute of Technology & Science, Pilani, India on the topic “Flexural Strengthening of FRP Beams using CFRP Laminates”. On day one, on day two also the paper presentation was conducted in nine sessions in parallel having in each session there was a Chair, Co-chair, Host, and Facilitator.

In addition to the oral paper presentation, there was four poster presentation in each day and in total 8 sessions and there was an evaluator for each session.

At the end of the second day, a valedictory function was taken place, and for that Dr. C. Velan, City Head, Ascendas, Chennai, India was the Chief Guest in the presence of Dr. Lee Yee Loon, Professor, IIC University of Technology, Cambodia, and Mr. P. Ravikumar, Director, M/s. Infinity PMC Solutions Pvt Ltd, India.

Total number of papers accepted for this conference : 232 Articles out of 261

Oral presentation : 141 Articles

Poster presentation : 91 Articles

Total number of full-length papers received : 182 Articles

Total number of papers accepted for publications : 137 Articles

### Papers from different countries

Universiti of Malaysia Pahang : 2 Articles

Universiti of Malaysia Sarawak : 3 Articles

National Defence Universiti Malaysia : 1 Article

Dufranc & Partners, Nigeria : 1 Article

From India : 130 Articles

## PUBLICATION IN JOURNALS (Under process)

1. Number of articles selected for Journal of Engineering & Research publication : 23
2. Number of articles selected for Springer Lecture Notes Vol 1 : 41
3. Number of articles selected for Springer Lecture Notes Vol 2 : 48
- Number of articles selected for AIP Conference proceedings : 25

## ONLINE WEBINARS CONDUCTED

### ASSOCIATION WITH INSTITUTION OF ENGINEERS (INDIA) KATTANKULATHUR LOCAL CENTRE AND ULTRATECH CEMENT

A Series of Online Webinars were conducted during Jan to June 2021 for the benefit of Practicing Engineers, Faculty Members and Students. A total of 100 -200 participants attended the online webinars which includes students, faculties from many institutions, structural consultants and practicing engineers.

Lecture Series	Name of the Presenter	Date	Topic
1	Er. L S Kannan and Er. Lakshmi Narayanan S, Larsen and Toubro Limited	05.03.2021	3D Printing of Concrete Structure
2.	Shri. J. Harsha, Director, Central Water Commission	22.03.2021	Value of Water
3.	Ms. Harika Maddu, Engineer, Glotman Simpson Consulting Engineers, Vancouver, Canada	27.04.2021	Building Information Modeling
4.	Dr. R. S. Sonparote, Associate Professor, Visvesvaraya National Institute of Technology, Nagpur.	17.05.2021	Development of Prestressed Precast Concrete Pavement
5.	Dr. P. Shanmugam, Senior Principal Scientist and Commonwealth Fellow, Environmental Sciences Lab, CSIR-CLRI, Adyar, Chennai – 20.	05.06.2021	Ecological Restoration of Coovam River or Singara Chennai

## **SHORT TERM TRAINING PROGRAM (STTP) Field Practices in Geotechnical Engineering (FPGE)**

Department of Civil Engineering, SRM Institute of Science and Technology, Kattankulathur, in association with SRMIST IGS Student Chapter, along with Institution of Engineers (INDIA), Kattankulathur Local Centre have conducted the Short-Term Training Program on “Field Practices in Geotechnical Engineering” during 14 – 18th, June 2021 for the benefit of Practicing Engineers, Faculties and Students. A total of 5 speakers from various organizations and institutions presented the sessions.

### **SESSIONS:-**

- Offshore Soil Investigation and Pile Drivability Analysis” by Er. G. Srinivasa Rao, Chief Engineer (Geotechnical), Saipem India Projects Pvt. Ltd., Chennai.
- Construction of Artificial Island using Vibro Compaction Techniques”, by Er. B. Arun Assistant Executive Engineer, TNPWD.
- Performance of Diaphragm Wall Under Excavation in Firm Clay Profile”, Er. Anirudhan I.V, Geotechnical Consultant Geotechnical Solutions, Chennai.
- Geosynthetic Applications in Waste Management”, by Er. Dola Roychowdhury, Director, G-Cube Consulting Engineers LLP, Pune.
- Field Tests on Deep Foundation by Er. Mohammed Toufeeq, Development Manager, PT Sarathy Geotech and Engineering Services, Indonesia