



## Department of Civil Engineering

*First Announcement & Call for Papers*

### National Conference on Smart and Energy Efficient Construction Materials and Technologies for Sustainable Infrastructure (SEMSI-2023)

*Sponsored by*

**Science and Engineering Research Board  
New Delhi**



**15<sup>th</sup> & 16<sup>th</sup> February, 2023**

#### CONVENER

**Dr. R. Kumutha**

Professor & Head / Civil Engineering  
Sri Venkateswara College of Engineering, Sriperumbudur

#### CO-ORDINATORS

**Ms. Ruby Freya**

Assistant Professor/Civil Engineering  
SVCE

**Mr. G. Arun**

Assistant Professor/Civil Engineering  
SVCE

**Mr. A. Vijay Vignesh**

Assistant Professor/Civil Engineering  
SVCE

In Association with



## About the College

Sri Venkateswara College of Engineering (Autonomous), a premier self-financing engineering college was established in the year 1985 and is managed by Sri Venkateswara Educational and Health Trust. The college offers 12 B.E/B.Tech Degree Courses and 7 PG Courses in Engineering/ Technology. The courses are approved by AICTE and affiliated to Anna University, Chennai, The College attained autonomous status in the year 2016. The college is accredited by National Assessment and Accreditation Council (NAAC) with A+ Grade in the year 2022. The National Board of Accreditation has accredited many of the eligible programs. The college is an ISO 9001:2015 certified institution. The college is situated in serene environment about 37 Kms from Chennai and situated on the way of Chennai – Bangalore National Highway (NH4) at Pennalur, Sriperumbudur in Kanchipuram district.

## About the Department

The Department of Civil Engineering has started functioning from the year 2008, offering B.E. degree program in Civil Engineering. At present, the Department has 10 faculty members having P.G. specialization in different areas of Civil Engineering such as Structural Engineering, Transportation Engineering, Construction Planning & Management, Water Resources Engineering, Geotechnical Engineering & Environmental Engineering. The Department has excellent infrastructure in terms of well-established Laboratories and class room facilities. The Department has expertise and facilities for undertaking consultancy works on testing of building materials, traffic studies, structural analysis and design etc.

## About the Conference

In the rapidly changing scenario of building sector planners, architects, engineers and builders are searching for smart and energy efficient materials and technologies to adopt in future constructions that have benefits like energy efficiency, resources & water conservation, improved indoor air quality, life cycle cost reduction and durability. Therefore, to attain these objectives, application of the latest advancements in various technologies including developments in material science, use of environment friendly building materials, obtaining energy efficiency while producing such materials are of prime concern. SEMSI-2023 will provide an excellent opportunity for the speakers/delegates to discuss and share their views on the suggested themes. In addition to the contributed papers, the conference will also include keynote Lectures by experts.

## Objectives of the Conference

The purpose of this conference is to bring together leading academicians, scientists, PG students and research scholars to exchange and share their experiences and research outcomes on all aspects of Smart Construction Materials and Technologies. It also provides an interdisciplinary platform to present and discuss the latest innovations, trends, concerns and adoption of suitable solutions for the various practical challenges encountered in the fields of Smart Construction Materials and Technologies.

## Conference Themes

- Smart construction materials and techniques
- Super performing materials
- IoT in Construction
- Construction Automation
- Role of Artificial Intelligence in Construction sector
- Architectural advantages of innovative materials
- Ecological and energy efficient building materials
- Materials for thermal comfort
- 3D Printing in Construction
- Advanced testing techniques for building materials
- Long performance and self-healing materials
- Durability performance in harsh environments
- Composite Building materials
- Sustainable Binders and Concrete
- Nano-technology based cementitious material
- Service life and performance prediction models
- Sustainability and Life Cycle Assessment

## Call for Papers

Prospective authors are hereby invited to submit directly full manuscript of their original research work not more than 12 pages (including abstract not exceeding 200 words) by e-mail. The manuscript would be peer-reviewed and authors would then be informed of the acceptance of their papers. Atleast one of the authors should register and present the paper in the conference. Abstract shall be sent by e-mail as per the template given in the website.

## Publications

All the submitted papers will be peer reviewed and further arrangements will be made to publish the selected papers in SCOPUS Indexed and Web of Science Journals (only papers presented in the conference will be considered for inclusion). The accepted articles will be published with additional Article Processing Fee if any.

## Chief Patrons

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NITK, Surathkal

**Ms. Hina Gupta**  
Senior Scientist  
Central Building Research Institute,  
Roorkee

## **VISION AND MISSION OF THE CIVIL ENGINEERING DEPARTMENT**

### **VISION**

To become a department of excellence in Civil Engineering education and research producing globally competent civil engineers to serve the industry and society.

### **MISSION**

- Providing state-of-the art resources that contribute to an excellent learning environment.
- Imparting necessary skills, cultivating moral and ethical values.
- Establishing regular interaction and collaboration with industries.
- Motivating the students to take up competitive exams and pursue higher education.
- Promoting research and development activities in emerging areas of civil engineering and offering services to society and industry through education, research and consultancy activities

### **Important Dates**

Submission of abstract : 20.12.2022  
Intimation of acceptance : 25.12.2022  
Submission of Full length Paper : 06.01.2023  
Payment of Registration fees : 07.01.2023

### **Payment Details (DD/NEFT/IMPS Transfer)**

Bank : INDIAN BANK  
Branch : SRIPERUMBUDUR  
A/c Name : PRINCIPAL  
A/c Number : 467302331  
IFSC Code : IDIB000SO80

Note: The DD shall be drawn in the favour of "The Principal, Sri Venkateswara College of Engineering", payable at Sriperumbudur.

### **Registration Fees**

|                           |            |
|---------------------------|------------|
| Industrial Delegates      | : Rs. 2500 |
| Academicians/Authors      | : Rs. 1000 |
| Students/Research Scholar | : Rs. 500  |

**Accommodation will be arranged inside the campus hostel based on the request from the participants.**

### **Address for Communication**

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### Campus Address:

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