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NEWSLETTER

ISSUE NO. 24 — JULY - SEPT — 2025

School of Civil Engineering



"The best way to predict the future is to design it."

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PRP Building : A Hub of Learning and Innovation

VISION

To excel in Civil Engineering education and research with a global perspective and commitment to sustainability.

MISSION

- M1. Academic Excellence : Impart high-quality Civil Engineering education through innovative teaching methodologies and modern laboratory facilities
- M2. Research : Promote research, consultancy, and innovation addressing real-world civil engineering challenges with emphasis on sustainable infrastructure and societal needs.
- M3. Global Perspective & Industry Engagement : Prepare globally competent civil engineers through industry interaction and collaboration with national and international institutions
- M4. Ethics, Sustainability & Lifelong Learning : Produce socially responsible Civil Engineers with strong ethical values and leadership skills, dedicated to sustainable development and lifelong learning.

PROGRAM EDUCATIONAL OBJECTIVES

- PEO 1: Graduates will be successful Civil Engineering professionals/entrepreneur.
- PEO 2: Graduates will pursue higher studies and research for professional development.
- PEO 3: Graduates will demonstrate civic responsibility in addressing societal and environmental challenges

A Message from the DEAN



It gives me immense pleasure to present edition of the Newsletter of the School of Civil Engineering (SCE), VIT, which captures the achievements, initiatives, and milestones of our students and faculty members.

At SCE, we are committed to nurturing future-ready civil engineers who can address these challenges through strong fundamentals, innovation, technology, and a deep sense of social responsibility.

Students of the School of Civil Engineering actively engage in academic, research, co-curricular, and extracurricular activities, demonstrating their creativity, leadership, and commitment to holistic development. Our faculty members continue to make meaningful contributions through impactful research, high-quality publications, funded projects, industry collaborations, consultancy, and professional engagements, strengthening the school's academic excellence and its connection with the wider professional community.

I sincerely appreciate the contributions of our faculty members and students whose commitment and perseverance continue to strengthen the school. Their achievements bring recognition and pride to SCE and reinforce our shared commitment to excellence.

Together, let us continue to build on the strong legacy of the School of Civil Engineering and create a future driven by knowledge, innovation, sustainability, and societal impact. I look forward to witnessing many more accomplishments from the SCE community in the coming months.

With my best wishes for continued success and excellence.

With warm regards,

Dr. Saravanakumar M P

Dean

School of Civil Engineering

VIT, Vellore

FACULTY & STUDENT ACHIEVEMENTS

GLOBAL RECOGNITION

Faculty: Dr. Vasantha Kumar S. 25th Sept, 2025

Recognized among the Top 2% of Scientists in the World, in the global ranking associated with Stanford University, USA and Elsevier.



BEST PAPER AWARD – CTSEM 2025

MANIT, Bhopal, Madhya Pradesh, India 4th July, 2025

Honoured with an International Award for the Best Paper Award at CTSEM 2025, organized by NIT Bhopal and CSIR–CRRI, Government of India.

Students: Aditya Verma (*21BCL0014*),
Kristina Shrestha (*21BCL0274*)
Adrian L Synrem (*21BCL0122*)

Faculty In-charge: Dr. Vasantha Kumar S.



RUNNER-UP – BEST DELEGATION

SSN College of Engineering, Chennai 8th–10th Aug, 2025

Achieved the runner-up position in the Best Delegation category at the event held at SSN College of Engineering, Chennai.

Student: Fathima Nairah *(23BCL0092)*



BEST DELEGATION – HITS MUN 2025

Hindustan Institute of Technology 5th–7th Sept, 2025

Awarded Best Delegation at HITS MUN 2025, held at Hindustan Institute of Technology.

Student: Vinant Gupta *(24BCL0103)*



GUEST LECTURES & EXPERT SESSIONS

LECTURES DELIVERED BY FACULTY

RECENT TRENDS IN CONSTRUCTION AND CONCRETE TECHNOLOGY

Faculty: Dr. Sofi A. 24th Sept, 2025

Dalmia Cement, Vellore, India

A lecture on recent trends in construction and concrete technology. Industry.



RC BUILDING AND INDUSTRIAL STEEL STRUCTURAL DESIGN USING MIDAS GEN

Faculty: Dr. Bala Murugan S. 18th Aug, 2025

Vellore Institute of Technology, Vellore, India

A lecture on RC building and industrial steel structural design using MIDAS GEN.



LEARN TO CREATE

Faculty: Dr. Sasanka Bhushan Pulipati 18th July, 2025

Vellore Institute of Technology, Vellore, India

A session titled “Learn to Create” on core training modules of the Staff Development Programmes (SDP) managed by the Teaching Learning Centre of Excellence (TLCE) at VIT Vellore was held.



GUEST LECTURES & EXPERT SESSIONS

LECTURES ORGANISED

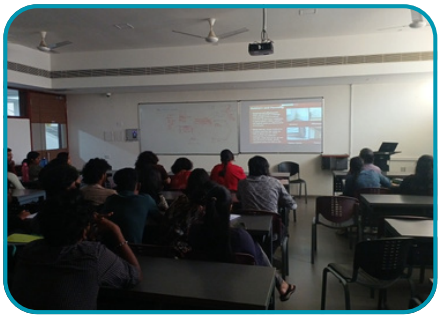
ENVIRONMENTAL EFFECTS ON STRUCTURAL ELEMENTS

Er. V Radha Krishnan 24th Sept, 2025

Keshthana Infrastructure PVT Ltd, India

A session on environmental effects on structural elements.

Faculty Coordinators: Dr. Viswanathan T. S., Dr. Punitha Kumar A.



ENVIRONMENTAL SUSTAINABILITY: LOCAL TO GLOBAL

Er.Rafael Alexander Cordova Uvidia 25th July, 2025

GIDAC Research Group · Ecuador · Research Center

A session on environmental sustainability, from local to global.

Faculty Coordinators: Dr. Mahenthiran S., Dr. Vignesh Rajkumar L.



SCOPE AND OPPORTUNITIES FOR CIVIL ENGINEERING POST GRADUATES

Er. Mathan Kumar B 9th July, 2025

Larsen and Toubro Construction, India

A session on scope and opportunities for civil engineering post graduates.

Faculty Coordinators: Dr. Prasanna Venkatesan R., Dr. Punitha Kumar A.



INDUSTRIAL VISIT

SEWAGE TREATMENT PLANT

Faculty: Dr. Parimala Renganayaki S ,
Dr. Mahenthiran S. 30th Sept, 2025

Nesapakkam, Chennai, India

Students observed the stages of wastewater treatment, from screening and primary settling to biological treatment and sludge handling. The visit connected directly with environmental engineering and waste management coursework, showing how design principles are applied to protect public health and water resources.



RAMCO CEMENTS LIMITED

Faculty: Dr. Om Suganya, 19th Sept, 2025
Dr. Rama Mohan Rao, Jagadeeswari M

Alathiyur, India

Participants toured the cement manufacturing process, from raw material handling and kiln operations to grinding and quality testing. The visit reinforced concrete technology and construction materials topics, showing how cement quality shapes the strength and durability of civil structures.



MAHABALIPURAM TEMPLE-HERITAGE STRUCTURES

Faculty: Dr. Sofi A, Dr. Abdul Rahim A 1st Aug, 2025

Chennai, India

Students studied the stone construction, structural stability, and conservation challenges of the Mahabalipuram monuments. The visit linked structural analysis and building materials with historical engineering, highlighting how ancient builders achieved durability without modern tools.



CONFERENCES

AGU CTSEM 2025

11th International Conference on Transportation Systems Engineering and Management

4th – 5th July, 2025

Deep Learning-Based Real-Time Vehicle Detection and Tracking in Heterogeneous Indian Traffic Using YOLOv8 and DeepSORT

Authors: : Dr. Aditya Verma, Dr. Adrian L Synrem, Dr. Kristina Shrestha, Dr. S. Vasantha Kumar.

CUTE-2026

5th International Conference on Sustainable Development in Civil, Urban and Transportation Engineering

Ho Chi Minh City, Vietnam 17th-19th Sept, 2025

Investigations on Construction and Demolition Waste Along with Rubber Tire Waste in Concrete.

Authors: Dr. Sofi A., Dr. Praveen Nagarajan, Dr. Kumanan T. S.

IC-STEEH 2025 -

International Conference on Sustainable Technologies for Energy, Environment, and Health

VIT Vellore 17th-19th Sept, 2025

Performance of ZnO/PVDF-Epoxy Hybrid Coatings for Corrosion Protection of Steel Reinforcement in Alkaline Mortar.

Authors: Dr. Suhas V S, Dr. Shanmugapriya T

Engineering Properties of Two-Stage Concrete:A Critical Review with Emphasis on Sustainable Innovations

Authors: Dr. Selvamani C , Dr. Jagadeesh P

Enhancing Concrete Performance with Graphene Oxide, M-Sand and Recycled Aggregate: A Review of Their Synergistic Properties Effects on Concrete Properties

Authors: Dr. S Rathnaswamy and Dr. P. Jagadeesh

SCE CHAPTER EVENTS

INDIAN CONCRETE INSTITUTE

GUESS THE MESS 30th July, 2025



The event "Guess the Mess" was conducted on 30th July 2025 as an interactive, silent duo Scribble Game challenge. Teams competed through knockout rounds by illustrating and guessing prompts based strictly on civil engineering concepts and university life without verbal communication. This gamified event successfully fostered teamwork, creative expression, and fast problem-solving in a highly engaging environment.

GUESS THE PICTURE:
THE BLURRED CHALLENGE 20th Sept, 2025



The event "Guess the Mess" was conducted on 30th July 2025 as an interactive, silent duo Scribble Game challenge. Teams competed through knockout rounds by illustrating and guessing prompts based strictly on civil engineering concepts and university life without verbal communication. This gamified event successfully fostered teamwork, creative expression, and fast problem-solving in a highly engaging environment.

SQUID GAME:
THE FINAL SHOWDOWN 27th Sept, 2025



Conducted during GraVITas on 27th September 2025, this massive flagship event merged intense physical challenges with real-world civil engineering principles. Through a four-round elimination structure including tasks like Tug of War and 3D structural building participants practically applied concepts like dynamic stability, force balance, and structural integrity. The event successfully translated classroom theories into thrilling experiential learning under pressure.

SCE CHAPTER EVENTS

INDIAN GEOTECHNICAL SOCIETY

DIASTER RESPONSE CHALLENGE 28th Aug, 2025

Teams acted as civil engineers responding to a simulated large-scale natural disaster. They developed strategies for relief, infrastructure restoration and long-term preparedness, strengthening teamwork and problem-solving.



CIVILHUNT 2.0 27th Sept, 2025

"CivilHunt 2.0," held on 27th September 2025, was a high-energy, campus-wide scavenger hunt centered on strategy and teamwork. Teams raced against the clock to navigate the campus, decode riddles, and solve physical and logical puzzles at various checkpoints. The competition effectively tested quick thinking and united the student body through strong campus spirit.



BRIDGES AROUND THE WORLD 15th Sept, 2025

The session explored iconic bridges from around the world, focusing on their engineering, architecture, history and cultural importance. It encouraged participants to view bridges as symbols of innovation and human progress.



SCE CHAPTER EVENTS

AMERICAN SOCIETY OF CIVIL ENGINEERS

ASCE STUDENT CHAPTER
Vellore Institute of Technology

DESIGNFORGE 2.0 27th – 28th Sept, 2025

Conducted during GraVITas '25, this two-day flagship event focused heavily on Building Information Modeling (BIM). An intensive hands-on workshop led into an applied design challenge, equipping students with the digital tools necessary to optimize designs and improve construction collaboration.



BRIDGE IT 27th – 28th Sept, 2025

This two-day workshop and competition immersed over 100 students in the fundamentals of bridge engineering. Following a digital design workshop using STAAD.Pro, teams engaged in physical model construction and testing, being evaluated on structural strength, resource optimization, and creativity.



SPARK LECTURE SERIES – EPISODE 1: DIGITALLY TWINNIN' 3rd Sept, 2025

The inaugural SPARK lecture featured Professor Prasanna Venkateswar introducing the transformative world of Digital Twin Technology. The session demonstrated how virtual asset replicas and real-time data integration are reshaping civil engineering practices by enabling predictive analysis and smarter infrastructure decisions.



SCE CHAPTER EVENTS

IC-STEEH 2025 CONFERENCE PRESENTATION

17th – 19th Sept, 2025



ASCE-VIT students presented their innovative research on "Removal of Water Hardness Using Nano-zeolites from Kaolin Clay" at the International Conference on Sustainable Technologies for Energy, Environment, and Health. Their cost-effective, environmentally friendly water treatment solution earned them Certificates of Presentation on a global academic stage.

CONSULTANCY PROJECTS

CORPORATE TRAINING ON CONCRETE TECHNOLOGY, CONTRACTS MANAGEMENT, BAR BENDING SCHEDULE AND PROJECT SCHEDULING & TRACKING

Adarsh Group, Bengaluru 10th Jan – 15th May, 2025

Consultancy Value: ₹1,31,5446

Focused on corporate training in concrete technology, contracts management, bar bending schedules, and project scheduling and tracking, strengthening industry engagement and professional consultancy activities.







Faculty: Dr. Prasanna Venkatesan R. (PI)
Dr. Bala Murugan S. (Co-PI)
Dr. Punitha Kumar A. (Co-PI).

BOOKS & CHAPTER

Innovative Technologies for Smart and Sustainable Infrastructure

Book Edited

Editors: Peerzada Danish, Nanjunda Rao K S, Manzoor Ahmad Tantary,

Authors: Dr. Mohan Ganesh G, Dr. Santhi A.S.

31st Aug, 2025 (eBook)

Published by: Springer

Recent Developments in the Production of Synthetic Aggregates for Sustainable Infrastructure

Chapter Authored

In: Innovative Technologies for Smart and Sustainable Infrastructure

Authors: Dr. R. Vignesh, Dr. A. Abdul Rahim

31th Aug, 2025

Published by: Springer

Experimental Investigation on the Durability Properties of Concrete with Partial Replacement of Cement by Paper Sludge

Chapter Authored

In: Innovative Technologies for Smart and Sustainable Infrastructure

Authors: Dr. Asmitha Raheem, Dr. D. Anupama Krishna, Dr. Rama Mohan Rao Pannem

31th Aug, 2025

Published by: Springer

BOOKS & CHAPTER

Investigating the Impact of Unmodified Sugarcane Bagasse Ash and Alccofine on Cement Paste: Combined Effects and Chemical Admixture Proportions

Chapter authored
In: Innovative Technologies for Smart and Sustainable Infrastructure
Authors: Dr. Amala Joseph, Dr. Bala Murugan S., and Dr. Anusree S. Anirudhan

1th Sept, 2025

Published by: Springer

PATENTS & JOURNALS

PATENTS

REINFORCED MASONARY BLOCK ASSEMBLY FOR MOTARLESS CONSTRUCTTION
Published: 30th Sept, 2025
Inventors : Dr. Ankit Kumar; Dr. Mohan Ganesh G;
Harshit Kumar

JOURNALS

JULY

Ravi T.; Saravanakumar M.P., "Binary Ca/Mn based carbonaceous feathery light foam for 'hypersorb' phosphate removal: Unravelling pragmatic and mechanistic insights, dissolved organic matter implications and Machine Learning predictive modelling", *Separation and Purification Technology,* **Vol:377** DOI: 10.1016/j.seppur.2025.134210.

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Sasidhar K.B.; Murugavelh S.; Porpatham E.; Arumugam S.K., "Tapping the bioenergy potential of milled coffee wastes: a study on the pyrolysis kinetics, response surface methodology, and techno-economic feasibility", *Biofuels,***Vol:15,** DOI: 10.1080/17597269.2025.2523658.

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