



Department of Civil Engineering

CONNECTIONS

NEWSLETTER

August '23, Volume 6 Issue 8



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Editorial Board

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IV YEAR CIVIL ENGINEERING

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Department Vision and Mission

Vision

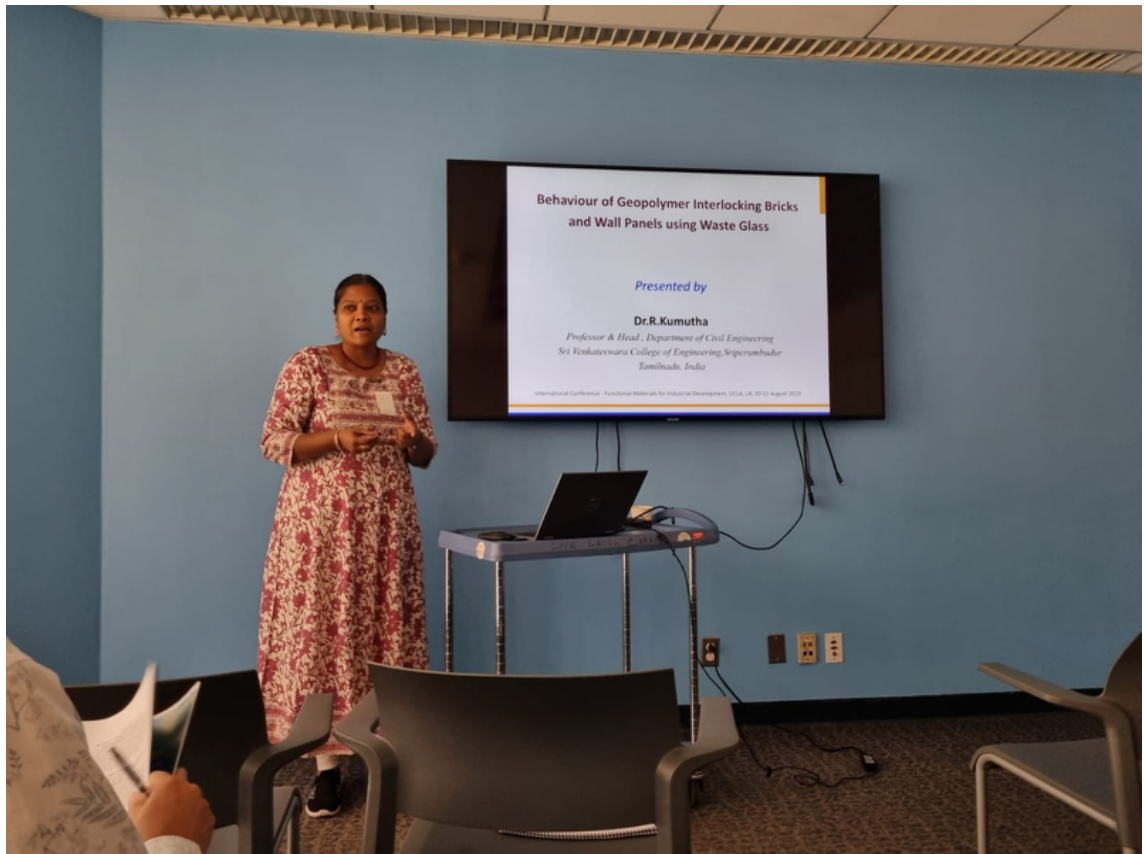
To become a department of excellence in Civil Engineering education and research producing globally competent civil engineers to serve the industry and society.

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.

Congratulations!

Dr. KUMUTHA R. has attended an International conference on "Functional Materials Technology Key Enabler for Industrial Revolution" held at University of California Los Angeles, USA, and presented a paper titled "Behaviour of Interlocking Bricks and Wall Panels using Waste Glass" on August 12, 2023.





Programs organised

Webinar

A webinar on “Advanced Computational Tools in Civil Engineering” delivered by Dr.B.S.Sindu, Principal Scientist, Special and Multifunctional Structures Laboratory, Structural Engineering Research Centre, CSIR, Chennai, on 14th August 2023. Organised by Ms.Ruby Freya, Assistant Professor, Civil Engineering.

The screenshot shows a presentation slide titled "MACHINE LEARNING" with a CSIR-REC logo. The slide is structured as follows:

- Machine Learning** (Main Title)
- Supervised Learning**
 - Classification**: Includes a scatter plot and the text "Damaged/ Not damaged".
 - Regression**: Includes a scatter plot with a regression line and the text "Property prediction", "Optimization", "Inverse design", and "Feature importance".
- Unsupervised Learning**
 - Clustering**: Includes a scatter plot with a cluster highlighted and the text "Shear cracks/ Tensile cracks".
 - Association**: Includes a diagram of nodes and edges.

At the bottom of the slide, there are icons for "Structural Analysis", "Material Properties", and "Concretecrete analysis". The slide number "16" is visible in the bottom right corner. The webinar interface shows a video feed of a woman on the right and a control bar at the bottom with icons for mute, video, chat, and other functions.

Industrial Visit

Second Year and Third Year Students visited the RMC Plant, UltraTech Cement, Kanchipuram on 28.08.2023 (Monday). This visit was organised by Dr.R.Kumutha (HoD/CVE) and Coordinated by Mr.A.Vijay Vignesh (AP/CVE) & Dr.R.Sathia (ASP/CVE)



Interaction with outside world

Dr.R.Kumutha Dr.R.Kumutha reviewed the paper titled "Creep-Shrinkage of Ambient - Cured Geopolymer Concrete" , which has been submitted for consideration for publication in the Journal GRADEVINAR.

Faculty Participation

Ms.Ruby Freya, Assistant Professor, attended a Workshop on "DESIGN THINKING, CRITICAL THINKING, AND INNOVATIVE DESIGN" organised by the Department of Information Technology at SVCE on 25th August 2023.

Students Activities

- YUGHESWARAN RB (2127220401021) have undergone Inplant training from 27.07.2023 to 29.07.2023 at KS Developers, Chennai.
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- PREMKUMAR S, PRAVEEN RAJ A and CHANDRAVASAN S attended the Seminar and Fair on Higher Educational Opportunities abroad on 9th August 2023. This program was organised by SVCE Placement cell, FORESE in association with Education matters.



PROGRAM OUTCOMES (POs)

Students in the Civil Engineering program should, at the time of their graduation, be able to

- Apply the knowledge of mathematics, science, engineering fundamentals and concepts of Civil Engineering to the solution of complex engineering problems. **(Engineering knowledge)**
- Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. **(Problem analysis)**
- Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. **(Design/Development of Solutions)**
- Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for complex problems. **(Conduct Investigations of Complex Problems)**
- Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. **(Modern Tool Usage)**
- Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. **(The Engineer and Society)**
- Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. **(Environment and Sustainability)**
- Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. **(Ethics)**
- Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. **(Individual and Team Work)**
- Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. **(Communication)**
- Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. **(Project Management and Finance)**
- Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change. **(Life-long Learning)**

PROGRAM SPECIFIC OUTCOMES (PSOs)

Students in the Civil Engineering program should, at the time of their graduation, be able to

- Provide solutions for real life problems related to core areas of civil engineering by applying knowledge of mathematics, Basic and Engineering Sciences and by using appropriate engineering tools.
- Plan, analyse, design, execute and manage infrastructure projects considering safety, societal and environmental factors.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Civil Engineering graduates during the first few years of graduation will:

- Practice civil engineering in construction industry, government or public sector undertakings by applying ethical principles and following norms of civil engineering practice.
- Pursue higher education and research to hone-up latest civil engineering technologies and to adapt to the changing global scenario.
- Exhibit leadership and team working skills as an entrepreneur with demonstrable attributes to contribute to the societal needs.



About the Department

The Department of Civil Engineering has started functioning from the year 2008 offering B.E Civil Engineering and Ph.D Civil Engineering programs.

The Department has expertise and facilities for undertaking consultancy work on testing of building materials, traffic studies, structural analysis and design etc.

Highlights of the Department

- B.E Civil Engineering programs accredited by National Board of Accreditation (NBA) under Tier I.
- Anna University Recognized Research Centre
- Signed MoUs with NHAI, Construction Management Training Institute (CMTI), Bengaluru and TechApps Consulting, Chennai.
- The Department has received funded projects and external grants from SERB, AICTE, TNSCST, etc.
- Completed consultancy and testing projects associated with various industries.
- Published book chapters and patents.

Specializations & Research Domains

- ✓ Structural Engineering
- ✓ Transportation Engineering
- ✓ Environmental Engineering
- ✓ Construction Management
- ✓ Water Resources Engineering
- ✓ Geotechnical Engineering



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WHY STUDY CIVIL AT SVCE?



- Industry Institute Interaction in terms of Partial delivery of course, Industrial visits, Internships, Guest lectures.
- Well-defined Choice Based Credit System based curriculum with Value added Courses and Certificate courses.
- Well-equipped modern laboratories and Industry Supported Advanced Software Laboratory (supported by TechApps Consulting and Bentley Education).
- Involvement of students in association activities and magazine publications.

OUR MAJOR RECRUITERS



A BACHELOR'S DEGREE IN CIVIL ENGINEERING WITH SPECIALIZATION IN ANY OF THE FOLLOWING

MINOR DISCIPLINES



ARTIFICIAL INTELLIGENCE & MACHINE LEARNING



DATA SCIENCE



ROBOTICS & MODERN MATERIAL HANDLING



BUSINESS DATA ANALYTICS



LOGISTICS & SUPPLY CHAIN MANAGEMENT



FINTECH & BLOCK CHAIN

AND MANY MORE.....

HONOURS



STRUCTURAL ENGINEERING



GEO-INFORMATICS



CONSTRUCTION MANAGEMENT



GEOTECHNICAL ENGINEERING