

Department of Civil Engineering



CONNECTIONS



NEWSLETTER

November '23, Volume 6 Issue 11

Contents

- 01 Editorial Board**
- 02 Department Vision and Mission**
- 03 MOU**
- 04 Faculty Participation**
- 05 Faculty Activities**
- 06 Placement**
- 07 Students Participation**
- 08 Alumni Testimonial**
- 09 POs, PSOs & PEOs**



Editorial Board

DR.R.KUMUTHA

CHIEF EDITOR & HOD/CIVIL

MR.G.ARUN

CO-EDITOR & AP/ CIVIL

STUDENT EDITORS

MR. K.N.MOHAMMAD SALMAAN SHARIFF

IV YEAR CIVIL ENGINEERING

MR. B.RAGHAVENDRA

III YEAR CIVIL ENGINEERING

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.

MoU

A Memorandum of Understanding was signed with **Confederation of Real Estate Developers Association of India (CREDAI)** Chennai on 22nd Nov. 2023. The association with CREDAI, Chennai would support in terms of student's projects at industries, internships, placements, students' awards, research, faculty development for consultancy services, field visit programs in addition to organising joint programs in association with industries.



Faculty Participation

Mr.Kalaivannan R had participated and successfully completed the 5-day Online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 3rd July to 7th July 2023.He had received the certificate from AICTE on 8th November.



Dr. P. Venkateswara Rao has participated in the 7 day National level online FDP on outcome based education and essential AI tools for teachers, organised by IQAC and The Department of Computer Science, St. Albert's College (Autonomous), Ernakulam, in association with The Kerala State Higher Education Council (KSHEC) from 02 to 09 November 2023. He has successfully assignments and assessments and secured an A grade.



Faculty Participation

Dr.R.Kumutha, Professor & Head/CVE has undergone Innovation Ambassador (IA) Training 'Foundation Level' (Total 15 sessions of 30 contact hours) in online mode by MoE's Innovation Cell and AICTE during the IIC Calendar Year 2022-23 on 30.11.2023.(E-certificate No:IA/Foundation/1030402)

Dr.R.Kumutha, Professor & Head/CVE has participated in the Online AICTE Recognized Faculty Development Programme on "Affordable Housing in Disaster Prone Areas" conducted from 20/11/2023 to 24/11/2023 by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh.

Faculty Interaction

Mr.Kalaivannan R had set question paper for Sri Shanmugha College of Engineering and Technology (Autonomous),Sankiri,Salem.Question paper setting order was received on 15-11-2023.

Dr.P. Venkateswara Rao completed the question paper scrutiny at SCSVMV university campus, Kanchipuram on 24.11.2023 under the faculty of Engineering and technology - Civil Engineering.

Expert lecture delivered

Mr. G. Arun delivered a lecture online on "**Recent trends in solid waste management**" organised by department of civil engineering Solamalai College of Engineering.

Placement

Mr.Dhanush Kannan L & Mr.Ramana R of Final Year got placed in M/s Sobha limited for the role of Graduate Engineer Trainee with CTC of 4.5 LPA.

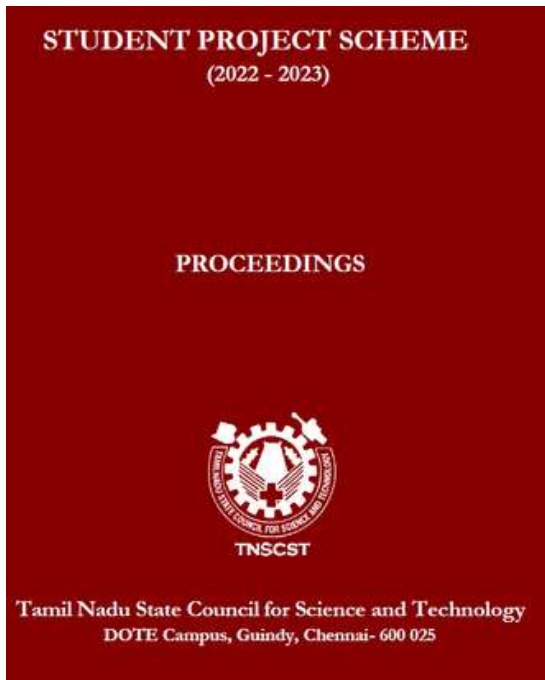


Mr. Dhanush Kannan L.



Mr. Ramana R.

Students Publication



The project work carried out by **Ms.G.Harshavarthani. Ms.A.Jenisha and Mr.D.Laleeth Kumar** (2019-23 Batch students) under the guidance of Dr.R.Kumutha, Professor & HoD/CVE has been published in the Proceedings released by the Tamilnadu State Council of Science and Technology for the year 2022-23 (ISBN: 978-81-957624-1-5).

ISBN: 978-81-957624-1-5

Copyright ©Tamil Nadu State Council for Science and Technology

303

DESIGN OF SUSTAINABLE AND COST-EFFECTIVE TEXTILE REINFORCED SEWER PIPES FOR RURAL HOUSING

Harshavarthani G, Jenisha A and Laleeth Kumar D

Department of Civil Engineering, Sri Venkateswara College of Engineering
Sriperumbudur - 602 117.

Abstract

This project involves usage of geopolymers, which acts as a substitute of cement in a sustainable way. Geopolymer has good engineering properties and are also environment friendly. Geopolymers are the innovative construction material which shall be produced by the amalgamation of inorganic molecules which produces materials with cementitious properties such as Flyash, GGBS which are obtained as the by-product in industries along with alkaline compounds as the activators. The introduction of Textile Fiber glass cloth for reinforcement can create a revolution in the construction industry.

Guide: Dr Kumutha R, Professor and Head, Department of Civil Engineering, Sri Venkateswara College of Engineering, Sriperumbudur - 602 117.

212.	Design of sustainable and cost-effective textile reinforced sewer pipes for rural housing, Harshavarthani G, Jenisha A and Laleeth Kumar D, Department of Civil Engineering, Sri Venkateswara College of Engineering Sriperumbudur - 602 117.	ECV-406	303
------	--	---------	-----

Students Participation

- I Year Students, Ms. Bhakya Lakshmi B, Mr. Jithendar krrish S, Mr. Kabilan G, Mr. K, Mr.Kesava Prakash S, and Mr.Thendralarasu M have attended Disaster Awareness and Management Training on 25th November 2023 at SVCE.
- I year students, Mr.Aravind Kumar U and Mr.Kishorkkumar Haribaabhu have attended a seminar on Entrepreneurship as a Career Opportunity on National Entrepreneurship Day 09th November 2023 at SVCE.
- I year students, Mr.K.Kabilan and Mr.Sanjay S M have attended a seminar on Embracing Innovation for Progression on National Education Day 11th November 2023 at SVCE.
- Mr. S. Aadeshwar and R. Lomina of III year are enrolled as student Members in INSDAG.
- III year Civil students (2021 - 2025 batch) have successfully completed the 12 week online NPTEL course on "Municipal Solid Waste Management"

S.No.	Student name	Consolidated Score
1	PRIYADARSHINI R	80 %
2	RAGHAVENDRA B	76 %
3	GOPINATH K	70 %
4	VELAN S	72 %
5	KUMARAN S	60 %

Alumni Testimonial



Mr. Sameer Bharadwaj
(2010-2014 Batch)
Site Engineer,
Acciona infrastructure Sydney,
Australia.

SVCE gave me a comprehensive experience, be it academic or other club related activity. The teachers were professional and very approachable. Along with the academics, I had a wonderful time volunteering in clubs like Forse and Rotaract.

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



Visit www.svce.ac.in

CONTACT US

Sri Venkateswara College of Engineering,
Post Bag No 1, Pennalur, Chennai
Bengaluru High Road, Sriperumbudur Tk,
Kancheepuram Dt. Tamilnadu 602 117



044-27152000

8122518923

8220762480

9840861987

7845637195



Apply Now



SCAN HERE

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

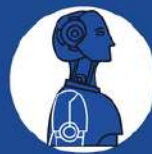
MINOR DISCIPLINES



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