

CONNECTIONS



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EDITORIAL BOARD

Chief Editor

Dr.R.Kumutha

Professor and Head

Co- Editor

Mr.R.Mathiyazhagan

Assistant Professor

Students

- **Mr.B.Raghavendra**
IV Year Civil Engineering
- **Mr.G.Aravintakshan**
III Year Civil Engineering

DEPARTMENT VISION AND MISSION

Vision

To become a department of excellence in Civil Engineering education and research with a supportive infrastructure, transforming individuals into globally competent civil engineers to serve the industry and society.

Mission

- To establish a top-notch learning environment with cutting-edge resources and facilities facilitating education, research, innovation and consultancy activities.
- To promote lifelong learning to provide solutions for real world problems with moral and ethical values by developing their skills and competency in the emerging fields of Civil Engineering.
- To offer technical and engineering solutions to the issues and challenges that arise in the construction industry at National and Global levels through experiential learning.

RESEARCH ACTIVITIES

Journal Publication

- **Kumutha Rathinam, Karthick Kumar, P.V, Srikiruthiga, S, and Vijay P.** (2024). Interlocking Bricks and Prisms using waste glass aggregates by integrating Geopolymer Technology. Jurnal Teknologi (Science & Engineering), 86(4), pp.51-58, <https://doi.org/10.11113/jurnalteknologi.v86.21699>. (Web of Science/ESCI & Scopus Indexed)

Presentation/Publication in Conference Proceedings

- **Dr.R.Kumutha Professor & HoD/Civil, SVCE and Dr.S.Maheswaran, Senior Principal Scientist, CSIR-SERC** presented a paper titled “Influential Parameters on the Properties of Recycled Aggregate Concrete – A Comprehensive Review” at the 2nd International Conference on Emerging Applications of Material Science and Technology (ICEAMST 2024) from 3rd to 4th July 2024 held at R V College of Engineering, Bengaluru.
- **Dr.M.Selvakumar**, Associate Professor, and the 2019-23 passed-out students **Ms.K.Kavin Malar, Mr.N.Gogula Chezhiyan, and Mr.D.Laleeth Kumar** published a conference paper titled “Design of Toll Plaza: A Case Study of Bengaluru-Chennai Highway” in the MATEC Web of Conferences - Volume 400.
- **Dr.R.Sathia**, Associate Professor and the 2018-22 batch passed-out students **Ms.V.S.Sharadhalakshmi, Mr.Gokul, and Mr.S.Mohetraj** published a paper titled “Application of Nano Material (ZrO₂) In Corrosion Resistance of Rebar” in the MATEC Web of Conferences - Volume 400.
- **Mr.S.Hariswaran**, Assistant Professor and the 2020-24 batch passed-out students **Ms.U.Amaravathy, Mr.S.Puviarasu and Mr.J.Jayasurya** published a paper titled “Enhancement of Lateral Load Carrying Capacity of a Pile incorporating Fins - A Parametric Study” in “MATEC Web of Conference” in July 2024 (volume 100, Article ID 02004).

FACULTY RESEARCH DAY

- Faculty Research Day was organized on 5th July 2024. **Dr.M.Helen Santhi**, Professor, VIT Chennai evaluated the presentations of faculty members and research scholars. **Mr.R.Kalaivannan**, Assistant Professor secured the first prize for the presentation titled, “Minimizing the Negative of the Overuse of Water in Irrigation -Smart Watering System with IoT”.



Other participants

- **Ms.Subathra Kannan**, Research Scholar (Part-Time) and Research Supervisor **Dr. R. Sathia**, Associate Professor presented a work titled “Highly Precise and Efficient Detection of Crack due to the Influence of Loading Rate on Concrete Structure Using AI-based Analysis Techniques”.
- **Dr.P.Venkateswara Rao**, Professor presented a work titled “Investigation of Frequency Shift using Magnetorheological Gels for Smart Seismic Isolation”.
- **Dr.M.Selvakumar**, Associate Professor presented a work titled “Study of Potentiality of Metrolite from Poonamallee to Sriperumbudur”.
- **Mr.S.Hariswaran**, Assistant Professor presented a work titled “Enhancement of Lateral Load Carrying Capacity of a Pile Incorporating Fins - A Parametric Study”.

PROGRAMS ORGANISED

Alumni Talk

- **Ms.K.Kavin Malar**, Alumna (2019-23 Batch) delivered a lecture on “CRACKING GATE: A ROADMAP TO SUCCESS ” on 31/07/24 for third and final-year civil engineering students. **Mr.G.Arun** AP/Civil Engineering organized this event.



Soft Skills Training

- The Soft Skills Training Program is conducted for the VII Semester Civil Engineering Students (2021-25 Batch) by the Department of Training and Placement from 15.07.2024 to 20.07.2024.



Soft Skills Training

- The Soft Skills Training Program is conducted for the V Semester Civil Engineering Students (2022-26 Batch) by the Department of Training and Placement from 22.07.2024 to 27.07.2024.
- A Soft Skills Training Program is conducted for the III Semester Civil Engineering Students (2023-27 Batch) by the Department of Training and Placement from 29.07.2024 to 03.08.2024.



IIIC Meeting

- The Industry-Institute Interaction Cell meeting was conducted online on 24th July 2024. Industrial experts from KT Infra Primex Verterra , Shapoorji Pallonji E&C and Ayan Associates attended the meeting.

FACULTY PARTICIPATION

- **Mr.A.Vijay Vignesh** participated in the Panel Discussion on “Innovation and Start-up Ecosystem” organized by the Institution Innovation Council (IC201810371 - IIC SVCE Chennai), SVCE, Sriperumbudur on 06.07.2024
- **Mr.A.Vijay Vignesh** participated in the Mentoring Session on "How to Plan for Startup, Legal and Ethical Steps" organized by the Institution Innovation Council (IC201810371 - IIC SVCE Sriperumbudur), SVCE, Sriperumbudur on 08.07.2024.
- **Mr.A.Vijay Vignesh** participated in the Expert Talk on "Innovative Process Development, Technology Readiness Level (TRL): Commercialisation of Lab Technologies & Tech-Transfer" organized by the Institution Innovation Council (IC201810371 - IIC SVCE Sriperumbudur), SVCE, Sriperumbudur on 13.07.2024.
- **Mr.A.Vijay Vignesh** participated in the Mentoring Session on "Lean Startup and Minimum Viable Product/Business" organized by the Institution Innovation Council (IC201810371 - IIC SVCE Sriperumbudur), SVCE, Sriperumbudur on 20.07.2024.
- **Mr.A.Vijay Vignesh** participated in the Mentoring Session on "Angel Investment/VC Funding Opportunities for Early Stage Entrepreneurs" organized by the Institution Innovation Council (IC201810371 - IIC SVCE Sriperumbudur), Sri Venkateswara College of Engineering, Sriperumbudur and sponsored by the Ministry of Education’s Innovation Cell, AICTE, Govt. of India under Mentor Mentee scheme on 22.07.2024.

FACULTY PARTICIPATION

- **Mr.R.Kalaivannan** along with three second-year students (**Mr.M.Thendralarasu**, **Mr.V.Sunil Kumar**, and **Mr.S.Kesava Prakash**) have participated in the Manak Manthan program on “Fire Safety in Commercial Kitchen - Guidelines” as per IS 18271 : 2023.



FACULTY RECOGNITION

- **Dr.R.Kumutha, Professor & HoD/Civil** Engineering has been nominated by the Director, CSIR-Structural Engineering Research Centre, Chennai as a member of the Selection Committee for engagement of Project Associate-II through the interview held on Tuesday, the 23rd July 2024.



VISITING PROFESSOR



Er.N.G.Muralidharan, Technical Consultant, Radcrete Pacific Ptd Limited, Australia & Chairman, Indian Concrete Institute, Chennai Centre has been appointed as **Visiting Professor** in the Department of Civil Engineering for the Academic Year 2024-2025. He has 39 years industry experience with many of the large well-known cement and construction materials organisations in India and with MNCs, including Senior Management positions

STUDENT INTERNSHIPS

- **Mr.A.Jai Siddarth, Mr.R.B.Yugheswaran and Mr.A.Gokul** (III Year Students) have undergone 20 days of Internship Training in the Office of Executive Engineer, Public Works Department, Buildings Construction Division-I, Chennai from 13.06.2024 to 02.07.2024.



- **Mr.E.Pavithran and Ms.A.Hemalatha** (III Year Students) have undergone an internship at Sekaran Foundations, Chennai from 18.06.2024 to 03.07.2024.



STUDENT PARTICIPATION

- **Mr.S.Kesava Prakash** (II Year Student) attended the NCC annual training camp held at Jeppiaar University, Chennai from 8th July to 17th July 2024.



STUDENT PARTICIPATION

- **Mr.G.Kabilan, Mr.R.Kavinkumar, and Mr.A.Naraen Kartick** (II Year Students) volunteered for the awareness program on UBA e-SEVAI in Nemili village organized by the UNNAT BHARAT ABHIYAN cell, SVCE held on 26th July 2024.



Student Membership

The following students have enrolled for ICI Student Membership:

- **Mr.R.Rashik Ahmed** (IV Year)
- **Mr.A.Jai Siddarth** (III Year)
- **Mr.R.B.YUGHESWARAN** (III Year)

Office Bearer of the Student Council

- **Mr.N.G.Aravintakshan** (III Year Student) has been elected as Sports Secretary in the Office Bearers of the Student Council for the Academic Year 2024-25.



ALUMNI INTERACTION

- **Mr.A.S.Praveen Raj**, Alumnus (2014-2018 Batch) invited as Keynote Speaker for a panel discussion on Innovation and Startup Ecosystem, organised by IIC-SVCE on 6th July 2024.



Sri Venkateswara
College of
Engineering

Autonomous Institution, Affiliated to
Anna University, Chennai
Approved by the AICTE, Accredited by NAAC



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

Institution Innovation Council
(IIC SVCE SRIPERUMBUDUR)

Cordially Invites You All For a Panel Discussion
on

INNOVATION AND STARTUP ECOSYSTEM

On **6th** July, 2024 | Time : 11:00 am
QUARTER-IV IIC CALENDAR ACTIVITY

G Meet Link : <https://meet.google.com/tho-ygtr-iy>

KEYNOTE SPEAKERS



Dr. Ananda Sivaraj, R.
Manager (IP & Technology Transfer), AICTE Southern Region, Chennai.



Mr. Praveen Raj, A.S.
Founder, Blend Infra and Interiors Alumni Entrepreneur



Mr. Akash, Founder and CEO, Muphile Labs and Pure Pixels Alumni Startup Founder



Mr. Atul SC
CEO, Diffusion Coatech Alumni Startup Founder



Dr. S. Ilaiyavel,
Manager, SVCE EPIC, Startup Eco System Enabler



Mr. V. Senthilvelan,
Project Officer, SVCE-EPIC Startup Eco System Enabler

Dr. S. Natarajan
Convener
IIC - SVCE Sriperumbudur

Dr. KR. Santha
President
IIC - SVCE Sriperumbudur

Dr. S. Ganesh Vaidyanathan
Principal, SVCE

ALUMNI TESTIMONIAL

“Cricket is my passion. As a cricketer I wanted to join the right college after my schooling because to pursue cricket I require support from the college management too. After a lot of research I joined Sri Venkateswara College of Engineering where I got complete support from my Department to pursue my cricket career as well as the academics. The continuous support from the civil department made me lift the host cricket tournament as a captain for the first time in 16 years. As a passionate sports lover , I went on to work as an Event Manager with Infinity - A Media Store for 2 years post my under graduation. I am now working with ITW Consulting which is one of the top most sports management companies in the world. I am glad to pursue a career in sports which has always been my dream. I have worked with some important projects for the Indian cricket board BCCI, IPL, TNPL, Maharaja Trophy etc but due to my consistent performance and hard work I got selected to work for the prestigious ICC Men's Cricket World Cup 2023 as the Sponsor Activation Manager for IndusInd Bank who were one among the ICC Global Sponsors. New challenges, high pressure work culture, targets, etc.. keeps me highly motivated to work hard. There are off days at times but the passion for the sport and work builds me to rise up and go onwards and upwards in my career”



Mr. J. Venkat Sujith
(2016-2020 Batch)
Sports Sponsorship - Zenminds Sporting
Technologies, Chennai.

B.E. CIVIL ENGINEERING PROGRAM OUTCOMES

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

1. Apply the knowledge of mathematics, science, engineering fundamentals and concepts of Civil Engineering to the solution of complex engineering problems. **(Engineering knowledge)**
2. 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)**
3. 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)**
4. 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)**
5. 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)**
6. 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)**
7. 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)**
8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. **(Ethics)**
9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. **(Individual and Team Work)**
10. 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)**
11. 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)**
12. 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)**

B.E. CIVIL ENGINEERING

PROGRAM SPECIFIC OUTCOMES & PROGRAM EDUCATIONAL OBJECTIVES

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

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

- Practice civil engineering in construction industry, public sector undertaking or as an entrepreneur by applying ethical principles and following norms of civil engineering practice.
- Pursue higher education for professional development
- Exhibit leadership and team working skills in their profession and other activities with demonstrable attributes to contribute to the societal needs and to adapt to the changing global scenario.

PROGRAMS OFFERED

- **B.E. Civil Engineering**
- **B.E. Civil Engineering (For Working Professionals)**
- **M.E. Construction Engineering and Management**
- **Ph.D. in Civil Engineering**



Department Webpage



YouTube Channel



Linkedin profile



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

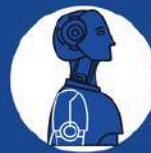
MINOR DISCIPLINES



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



Geotechnical Engineering



Environmental Engineering



Construction Management



Geo-Informatics



Transportation Engineering