

# DEPARTMENT OF CIVIL ENGINEERING



# CONNECTIONS



**NEWSLETTER**

**February '24, Volume 7 Issue 02**

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## **Editorial Board**

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**III YEAR CIVIL ENGINEERING**

**Mr.G.Aravintakshan**  
**II 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.

## RESEARCH ACTIVITIES

- **Dr. R. Kumutha**, Professor & Head of the Department and her project students **Prathiba S and Monica V** had received the UG Intramural grant of Rs 10000/- for their project titled “Sustainable and Cost effective mortars for structural repairs using Construction and Demolition wastes”
- **Dr. P. Venkateswara Rao**, Professor and his project students **S Zaahir Sha ,N M Santhosh Kumar and A Manimaran** had received the UG Intramural grant of Rs 10000/- for their project titled “Investigation of Frequency Shift Using Magneto-rheological Gels for Smart Seismic Isolation”
- **Dr.R.Sathia**, presented a paper titled “Application of nano material in corrosion resistance of rebar” in the 5th International Conference on Sustainable Practices and Innovations in Civil Engineering (SPICE 2024) organized by SSN College of Engineering during Feb 14-15, 2024.
- **Mr.Hariswaran S** along with Final year students **Amaravathy U, Puviarasu S and Jayasurya J** presented a paper titled "Enhancement of lateral load carrying capacity of a pile incorporating fins – a parametric study “ in the International Conference SPICE 2024 organized by "SSN college of Engineering" on 15.02.2024.
- **Ms. K. Kavin malar (2019-23 batch)** has presented a paper entitled ‘Design of Toll-plaza: A Case Study on Bengaluru-Chennai Highway’ in the 5th International Conference on Sustainable Practices and Innovations in Civil Engineering (SPICE 2024) organized by SSN College of Engineering during Feb 14-15, 2024. This paper is an outcome of NHAi internship carried out in Aug. 2023 which was coordinated by Dr. M. Selvakumar, Associate Professor/CVE.
- **Dr.R.Sathia,Mr.S.Hariswaran and Mr.R.Kalaivannan** submitted a research proposal title “Study of durability properties of composite cement (a type of hydraulic cement) currently being manufactured by the cement industry in india.” to BIS R & D projects Scheme.

## ACTIVITIES -STUDENTS

- **Mr. Ramana R** IV year /Civil Engineering had won third place with a Cash Prize of Rs 6000/- ( Each Rs 3000/- for two Memes entry) in the Meme contest conducted by Bureau of Indian Standards (BIS).
- **Jai Siddarth A & Yugheswaran R B** (II Year Student/Civil Engineering) have presented a project titled “Soild Waste Management through Pneumatic Tubes” under the category “IDEA-O-LITE” in Third Edition of iCUBE - National Level Intercollegiate Technical Event, organized by The Students’ Council in association with The Science Club, SVCE on 16th & 17th February, 2024.
- **Jai Siddarth A** (II Year ,Civil Engineering) has successfully completed AutoCAD 2D Workshop and scored ‘A’ Grade in the prescribed final examination conducted by Learn Delta on 04.02.2024.
- **Jai Siddarth A** (II Year ,Civil Engineering) has successfully completed an Online Course on “Storm Water Management” conducted by L&T EduTech - Micro Learning on 05.02.2024.
- **Jai Siddarth A** (II Year ,Civil Engineering) was awarded as Quarter Finalist in the Online Quiz conducted by Climate Science Olympiad 2024 on 23.02.2024.
- **Jai Siddarth A, Pavithran E, Hemalatha A** (II Year ,Civil Engineering) has successfully participated in the Quiz on “Quality and Standards 2.0

## ACTIVITIES -STUDENTS

- On 22.02.2024 **Naraen Karthick and Kabilan G** (I year/ Civil Engineering) had attended a event Manak Manthan organised by BIS on the topic "Work chairs Specifications (IS 17631:2022)" at Hotel Raj Park Alwarpet Chennai. Through the Manak Manthan programme students came to know about a lot of mechanics & technical specifications behind a sitting chair.
- **III and IV Year students** visited the Chennai Port on 9th Feb 2024 (Friday).



## PLACEMENT DETAILS



Final Year students **Prathiba S** and **Puviarasu S** got placed with M/s SPIC for the Position of Graduate Engineering Trainee.





## ACTIVITIES - FACULTY



- **Mr.R.Kalaivannan** had attended a two days training programme for the Mentors of Standards Club at M/s. Savera hotel, Mylapore, Chennai on 15-02-2024 and 16-02-2024.



- **Ms. Ruby Freya** underwent 5 days industrial training from 22nd to 28th February at Eversendai Construction Private Limited, Chennai

## ACTIVITIES - FACULTY

- **Dr.R.Sathia** completed a two days ISO Internal auditor training program on ISO 21001:2018 implementation at SVCE on 7th & 8th Feb 2024.
- **Mr.R.Mathiyazhagan and Mr.A.Vijay Vignesh** attended a Three-days FDP on “Innovation to Incubation” organized by SVCE-EPIC & IIC-SVCE on 23rd, 24th Feb, and 2nd March 2024.
- **Mr.A.Vijay Vignesh** invited to serve as a judge for the Third Edition of iCUBE - National Level Intercollegiate Technical Event, organized by The Students’ Council in association with The Science Club, SVCE on 16th & 17th February, 2024.
- **Mr.A.Vijay Vignesh** had set “Green Construction” Subject end semester exam question paper for Mepco Schlenk Engineering College, Sivakasi.

## PROGRAMS ORGANISED

- A Workshop on “Advanced Structural Analysis using STAAD.Pro” was conducted for III Year students in association with Tech Apps Consulting, Chennai from 27.02.2024 to 28.02.2024. This workshop is organized by **Dr.R.Kumutha (HoD/CVE)** and **Mr.A.Vijay Vignesh (AP/CVE)**. **Mr. R. Balamourougane**, Structural Manager, STAAD Consultant TechApps Consulting, Chennai was the resource person .



- As a part of Experience SVCE Program, Parents of School students visited our department on 03.02.2024 to explore the facilities available in the department and also to have an exposure about other branches of engineering at SVCE.



## PROGRAMS ORGANISED

- A 6 days Soft skill (Employability) Training Program was conducted for the 1st year students from 19.02.2024 to 24.02.2024. The training program was conducted by the Training and Placement Cell of SVCE in association with M/s Springboard .



## IAAA, EAAA & ISO AUDITS

- Internal Academic and Administrative Audit (IAAA) was conducted on 01/02/2024.



- External Academic and Administrative Audit (EAAA) was conducted on 16/02/2024.



- ISO Internal Audit was conducted on the 26th and 27th of February 2024.

## CEA ACTIVITIES

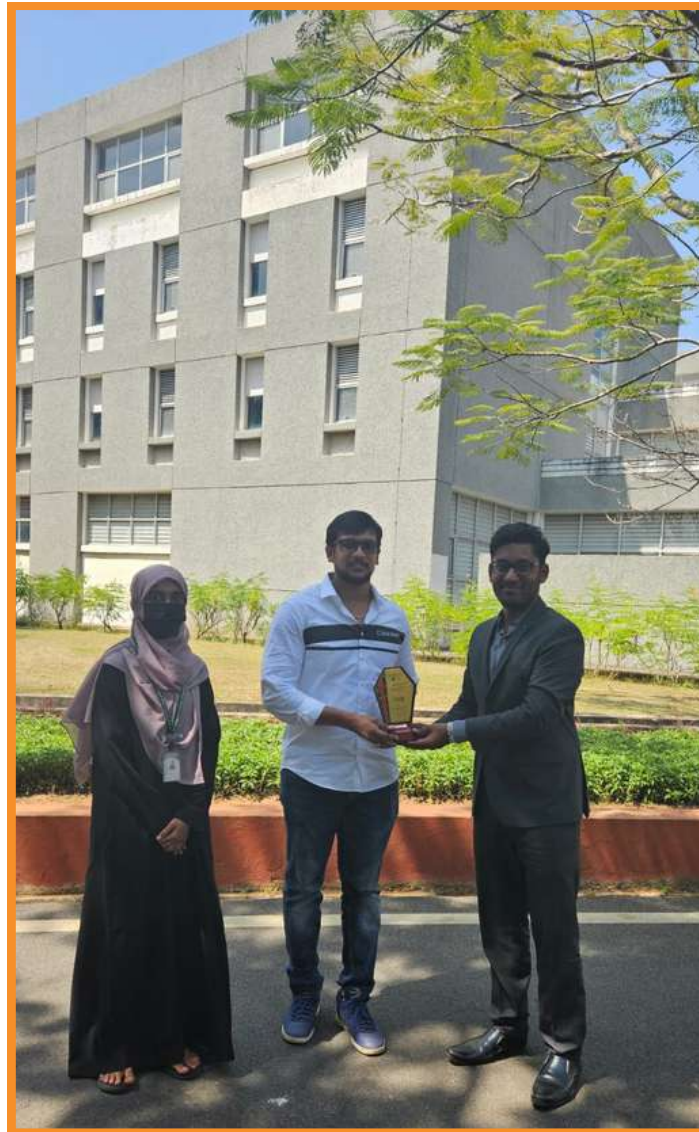


Civil Engineering Association (CEA) had organised poster presentation event "Envision Civil " that testifies the student's innovation in the theme "Future Infrastructure " on 20/02/2024. 08 students team had participated .



Civil Engineering Association (CEA) had conducted a Technical Quiz event "Lets get civilized" on 29/02/2024 ,which is exclusively for first year Civil engineering students.

## ALUMNI INTERACTION



**Mr. Pradeep A, Alumnus (2012-2016 batch) & MD, Sekaran Foundations, acted as external judge for the Third Edition of iCUBE - National Level Intercollegiate Technical Event, organized by The Students' Council in association with The Science Club, SVCE on 17th February, 2024**

## ALUMNI TESTIMONIAL

"SVCE has been a life changing experience for me. The faculty members, my fellow classmates, friends and students of the college are what made 4 years worth it. Honoured to be a part of this esteemed institution."



**Ms. Shalom Jennifer Jayasekar**  
**(2014 - 2018 Batch)**  
**Assistant Project Lead , JLL India**



## 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](http://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



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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

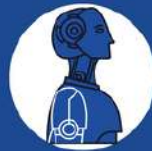
## MINOR DISCIPLINES



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