



Sri Venkateswara  
College of  
Engineering

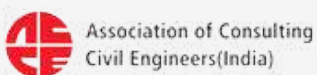
Department of Civil Engineering

# CONNECTIONS

## December 2024

### NEWSLETTER

### Volume 7, Issue 12



Indian Concrete Institute



Dept. of Civil Engineering  
**Know more about us**



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# EDITORIAL BOARD



- **Dr.R.Kumutha**  
**Chief Editor & HoD/CVE**
- **Mr. G. Arun**  
**Co-Editor & AP/CVE**

## STUDENT EDITORS

- **Mr.B.Raghavendra**  
**IV Year Civil Engineering**
- **Mr.A.Jai Siddarth**  
**III Year Civil Engineering**
- **Mr.G.Kabilan**  
**II 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

- Establish a top-notch learning environment with cutting-edge resources and facilities facilitating education, research, innovation and consultancy activities.
- 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.
- Offer technical and engineering solutions to the issues and challenges that arise in the construction industry at National and Global levels through experiential learning.

## PLACEMENT ACTIVITIES



- **Mr. S. Velan** of IV Civil Engineering secured job offer in ISGEC Heavy Engineering Ltd.



- **Mr. S. Aadeshwar** of IV Civil Engineering secured job offer for the position of Engineering Management service trainee in Southern Petrochemical Industries Corporation Ltd.

Rakha R  
3rd year

## STUDENTS HIGHLIGHTS

- All the first year female students attended the seminar on “Awareness of Sexual Harassment at Work Place” as per POSH Act by Dr. Phebe Angus G, Assistant Professor, Department of English, Madras Christian College on 9th December 2024 at SVCE.
- **Ms. Bhavadhaarini R**, first year student, has contributed for Care Club Content Work as a volunteer on 8th December 2024.
- **Ms. Gururaje** (III Year) participated in the Make a Difference (Group Rotaract Meet) event conducted by District Rotaract Council 24-25.
- **Ms. Bhavadhaarini R**, first year student, has participated in online training program on “Quantity Surveying & Billing Engineer” conducted by CMTI on 8th December 2024.
- **Ms. Bhavadhaarini R**, first year student, has participated in a Ted Talks on “ How Women can step into their Leadership” on 4th December 2024.

Baktha R  
3rd year

# ONLINE CERTIFICATION COURSE

- **Ms. Rekha R, Ms Mathimitha, Mr. Jai Siddarth A and Ms. Gururaje M** of third year have completed a Micro learning certificate course on “ BUILDING MODELLING IN ETABS” conducted by L&T EduTech in December 2024.
- **Mr. Abhijeet S, Mr. Anbarasan A, Mr. Arun Jothy T, Ms. Ashithaa D, Ms. Bhavadhaarini R, Mr. Dwaraga Prasath V, Ms. Harini V, Mr. Joshua Pon Samuel E, Karthiga R, Mr. Lakshmanan S P, Mr. Madhansanjoy V B, Mr. Madhavan M, Mr. Mahilesh N, Mr. Marudhavanan K, Ms. Monisha Shree A, Mr. Muhammed Hamdan M, Ms. Namridha M, Mr. Nilavarasan S, Mr. P M Tamil Kumaran, Mr. Peyal Neeran T S, Ms. Prathiba T M, Mr. Sachin R, Ms. Sandhya Shree H, Ms. Sarmistha T, Mr. Sarvesvaran P S, Ms. Sathya P, Mr. Selvaganapathy S V, Ms. Shrinidhi R S, Mr. V Sanjeev Prasath, Mr. Venkatesan V, Mr. Vishnuvarthan M And Ms. Vishvapriya K,** first year students have completed Micro learning certificate course on “Orthographic Projections for Mechanical Components” conducted by L&T EduTEch in December 2024.

## VISITING PROFESSOR INTERACTION

**Mr.N.G.Muralidharan, Visiting Professor,** Department of Civil Engineering, SVCE and Chairman of ICI (Chennai Chapter) delivered the lecture on the title “Concrete” (Part of Unit 4 from the course CE22101 - Engineering Geology and Construction Materials) to the first year students of Civil Engineering from 9.00 AM to 11.00 AM on 20th December 2024. Through this lecture, students got familiarised on different components of concrete, role of each ingredients, types of concrete used in industry, future innovations in concrete, manufacture of concrete and role of admixtures in concrete. Dr.S.Hariswaran, Assistant Professor coordinated the session.





## INDUSTRIAL VISIT

The Department of Civil Engineering in association with the Indian Concrete Institute, Chennai Chapter arranged an Industrial Visit to **SCHWING Stetter (India) Private Limited, Irungattukottai, Sriperumbudur, India** on 20th December 2024 with the help of **Mr.N.G.Muralidharan, Visiting Professor, Department of Civil Engineering, SVCE** and Chairman of ICI (Chennai Chapter). First year students visited the site of floor upgradation and visualized the laser technology for maintaining the horizontal floor level. Students also understood the concepts and need of floor joints and the technique of floor densification. Dr.S.Hariswaran and Dr.Ruby Freya, Assistant Professor coordinated the industrial visit.



## **FACULTY ACHIEVEMENT**

### *Best Paper Award*

Congratulations to **Dr. R. Kumutha**, Professor & Head, Department of Civil Engineering on being honored with the **Best Paper Award** at the International Conference on Recent Advances in Structural Engineering (RAISE 2024), held at SVNIT, Surat, from 16th to 18th December 2024.



- **Dr. R. Kumutha, Professor & Head/CVE**, has received **Best Paper Award** for the paper titled "Investigations on behaviour of textile reinforced geopolymer pipes" in the conference RAISE-2024 during 16-18, 2024 organized by the Structural Engineering Section, Department of Civil Engineering SVNIT Surat.

## FACULTY PARTICIPATION

- **Dr.R.Kumutha, Professor & Head, Dr.R Sathia, Associate Professor and Dr.Ruby Freya, Assistant Professor** attended the Industry-Academia Basic Course on Bridge Engineering and its Code Practice from 06.12.2024 – 08.12.2024 online conducted by Thiagarajar College of Engineering, Madurai.
- **Mr. Kalaivannan R, Assistant Professor** attended a two-day workshop under the Manak Pravardhak Programme on December 5-6, 2024, at the Bureau of Indian Standards Training Centre (NITS) in Noida, New Delhi. The workshop aimed to engage young professionals in the field of standardization.
- **Mr. A. Vijay Vignesh, Assistant Professor** has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program (Online) on “Innovative material and construction technologies for sustainable construction practices” at MET'S INSTITUTE OF ENGINEERING from 23/12/2024 to 28/12/2024.

# ACADEMIC AND ADMINISTRATIVE AUDIT

**Internal Academic and Administrative Audit (IAAA)** for the Academic Year 2023-2024 was held on 09.12.2024. Dr. N. Kumaratharan, AHoD/ECE audited the documents of various metrics of Criteria 1 to 7 of NAAC.



**External Academic and Administrative Audit (IAAA)** for the Academic Year 2023-2024 was held on 17.12.2024. Dr.R.Senthil, Professor, Division of Structural Engineering, CEG Campus, Anna University was the auditor.



# INTERACTION WITH OUTSIDE WORLD

- **Dr. Ruby Freya, Assistant Professor**, met Prof. Kushan Kalmith Wijesundara, Head/Department of Civil Engineering, University of Peradeniya at Peradeniya, Srilanka on 30th December 2024 and discussed the possible collaborative activities possible with the Department related to students project, visiting faculty and exchange of knowledge through various collaborative activities on behalf of the Department of Civil Engineering. She also visited various lab facilities available.



- **Dr.R.Kumutha, Professor & Head/CVE**, reviewed a manuscript titled "Performance of recycled fresh fine aggregates on the strength of concrete and the strength model relationship in concrete" which has been submitted to Advances in Civil Engineering (Publisher : Wiley) on 21.12.2024.

# INFRASTRUCTURE UPGRADATION

Equipment purchased under SERB-TARE Project grant, PI: Dr.R.Kumutha

## Flexural Jig assembly

This is used for the flexural testing of 40 x 40x 160 mm mortar prisms. The jig can be used on the existing Compression Testing Machine of capacity 2000kN.

**Make: AIMIL, Model: AIM 422 - F,  
Cost: Rs.29,028/-**



**3 Nos. of Cubical moulds (150 mm x 150 mm x 150 mm, 3 Nos. of Cylindrical moulds (150 mm dia. and 300 mm height), 3 Nos. of Prism moulds (100 mm x 100 mm x 500 mm), Enamel Trays (3 Nos.) and 2 Nos. of trowels**

**Make: AIMIL, Cost: Rs.68,458/-**

## PROUD REFLECTIONS : ALUMNI TESTIMONIAL



**Mr. B. Haresh**  
**2013-17 Batch**  
Senior Executive  
Valuation, CBRE.

*My college days are the best part of my life. My department encouraged me to explore my strength & potential by providing a platform for development. The support I received helped me to clear GATE which led me to the place where I am now.*

## PROUD REFLECTIONS : ALUMNI TESTIMONIAL



**Mr. Ashish Kumar G**

**2017-21 Batch**

**Hydraulic modeller / Design Engineer  
SECON pvt. Ltd., Bangalore**

I'm a passionate water resources engineer. Our UG project was "Study on properties of STF in the structural damper" which was successfully completed and also we were able to publish it in Materials today Proceedings-Science Direct, for which I'm thankful to my teammates, faculty members, friends and our mentor. I cleared my GATE exam in 2021 and pursued Masters in Hydrology and Water resource engineering at CEG, Anna University.

In SVCE, civil department is composed of wonderful faculty members, each one specialized in different domains. They have been constantly supportive throughout the course and even after passing out.



## PROGRAM OUTCOMES (POs)

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)**

## 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)

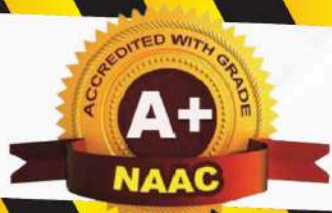
Civil Engineering graduates during the first few years of graduation will:

- Practice civil engineering in construction industry, 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.

## PROGRAMMES OFFERED

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

- 
- Youtube Channel: <https://www.youtube.com/@svcedepartmentofcivilengin2935>
  - LinkedIn: <https://shorturl.at/nvQQ1>
  - Instagram: [https://www.instagram.com/svce\\_civildepartment/](https://www.instagram.com/svce_civildepartment/)
  - Twitter: [https://x.com/SVCE\\_Civil](https://x.com/SVCE_Civil)
  - Department Website: <https://www.svce.ac.in/departments/civil-engineering>



## 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

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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

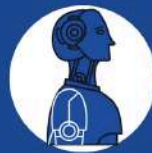
### MINOR DISCIPLINES



**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**



## DEPARTMENT OF CIVIL ENGINEERING



# M.E. Construction Engineering and Management

**ADMISSIONS OPEN**  
for the AY 2025 - 2026

**Sri Venkateswara College of Engineering** (Autonomous) is a premier self-financing institution started in 1985 and received Autonomous status in 2016. The college is approved by AICTE and affiliated to Anna University, Chennai. The college is accredited by National Assessment and Accreditation Council (NAAC) with A+ Grade.

**Department of Civil Engineering** has started functioning from the year 2008, offering B.E. degree program in Civil Engineering. The programme is accredited by NBA under Tier I Washington Accord. The Department is a recognized research centre by the Anna University for MS (By Research) and Ph.D. Programmes.

### RESEARCH FOCUS

- Resource Optimization Techniques in Project Management
- Automation in Construction Industry
- Construction and Demolition wastes
- Advanced testing techniques for building materials
- Risk Management in Construction Projects
- Sustainable Binders and Concrete
- Sustainability and Life Cycle Assessment
- Composite Building materials
- Construction Cost Control
- Quality and Safety Management

### SCHOLARSHIPS FOR PG STUDENTS

- **PG scholarship of Rs.50,000/year** for 30% of the top scorers in their UG degree of sanctioned class strength for 2 years.
- **Management Scholarships** for tuition fees and assistance for books and instruments.
- **Intramural M.E/M.Tech Student Research Grant** to carry out innovative projects in Civil Engineering.
- **Sponsorships** for students to participate in conferences.
- **AICTE-GATE Scholarship of Rs. 12,400/month for 24 months** from AICTE for students having a valid GATE score.

### Career Opportunities

- Planning Engineer
- BIM Modeler
- Cost Controller
- Safety Engineer
- Quality Engineer
- Academic Job
- Project Scheduler
- Project Coordinator
- Quantity Surveyor
- Maintenance Engineer
- Billing Engineer
- Research Assistant

### MoU Signed



**National Highway Authority of India (NHA), India**

**Construction Management Training Institute (CMTI), Bengaluru**



**Companies looking for M.E. Construction Engineering and Management Professionals**



**Eligibility & Admission:** The basic eligibility criteria is to have a Bachelor's Degree in the relevant field from a recognised university/institute. Admissions will be based on a Common Engineering Entrance Test for Admission (CEETA PG), conducted by Anna University on behalf of the Tamil Nadu government. Candidates with valid scores in the GATE examination are exempted from CEETA PG. The final selection to M.E. program will be done through a counselling process.