

Department of Civil Engineering



CONNECTIONS



NEWSLETTER

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CONTENTS

01

Editorial Board

02

Department Vision and Mission

03

Program Organised

05

Research Activities

06

MoU

07

Students Participation

08

Faculty Participation

09

Graduation Day

10

Parent Teacher Meeting

11

Industrial Training & ICI Student Chapter Award

12

Alumni Testimonial

13

PEOs, POs and PSOs

Editorial Board

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III YEAR CIVIL ENGINEERING

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II 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.

Program Organised

Dr. R. Kumutha, Professor and Head, and Ms. Ruby Freya, Assistant Professor conducted the **ATAL Academy sponsored Faculty Development Program on “Construction Automation and Robotics towards Sustainable Infrastructure”** during 7th to 13th December 2023 at SVCE. 37 participants attended the program.



Research Activities

PUBLICATION

- **Dr. R. Kumutha**, Professor, **Mr. Abishek Murali**, **Ms. Pershiya D and Mr. Kaviarasu S**, students of 2018-2022 batch have published a paper on “PROPERTIES OF CONCRETE INCORPORATED WITH SELF-HEALING AND INTERNAL CURING AGENTS” in Jurnal Teknologi.
(<https://doi.org/10.11113/jurnalteknologi.v86.20666>)

Proposals sent for Intramural funding of UG Projects

- Prathiba S and Monica V - Sustainable and Cost effective mortars for structural repairs using Construction and Demolition wastes under the guidance of Dr. R. Kumutha, Professor and Head of the Department
- S Zaahir Sha, N M Santhosh Kumar and A Manimaran - Investigation of Frequency Shift Using Magneto-rheological Gels for Smart Seismic Isolation under the guidance of Dr. P. Venkateswara Rao, Professor
- S Prem Kumar, P Chandravan and R Ramana - Shear Thickening Fluid Dampers for Enhancing Seismic Resilience and Fortifying Steel Structures under the guidance of Ms. Ruby Freya, Assistant Professor
- Aurudra Adisheshaiah Krishna, Naresh U and Giri Ravendar M - Minimizing the Negative Effects of the Overuse of Water in Irrigation (Smart Watering System with Internet of Things) under the guidance of Mr. R. Kalaivanan, Assistant Professor

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.

Formal exchange of MoU document by **Mr.Jawahar Vadivelu**, Member Governing Council, SVCE and **Mr.S.Sridharan**, Vice President South Zone, CREDAI National on 12th December 2023 in the presence of our Principal and HoD/HSS.



Students Participation

- **Mr.Keerthivasan A**, first-year student represented Trichirapalli district in inter-district tournament conducted all over Tamilnadu by Tamilnadu Cricket Association conducted between April to December 2023.
- **Mr. Aravind Kumar U, Mr. Balaji S, Ms. Bhakya lakshmi B, Mr. Dhanush Aadhavan S, Mr. Jithendar Krrish S, Mr. Kabilan.G, Mr. Kabilan K, Mr. Kamaleshwaran R, Mr. Kavinkumar R, Mr. Kesava Prakash S, Mr. Kishorkkumar Haribaabhu, Ms. Kotteshwari V, Mr. Muthamilarasan A, Mr. Naren Karthick A, Mr. Rooban Yoga, Mr. Kaarthic Venkatesh S, Mr. Sanjay S M, Ms. Srilekha P, Ms. Sumaiya R, Mr. Thendralarasu M and Ms. Viveka M**, first year students, have completed an online course on “Orthographic Projections for Mechanical Components” in the L&T EduTech Micro-learning platform in December 2023.



Faculty Participation

- **Dr.R.Sathia, Mr. G. Arun, Mr. R. Mathiyazhagan, Mr. R. Kalaivannan, Mr. S. Hariswaran and Mr. A. Vijay Vignesh** attended FDP on “Construction Automation and Robotics Towards Sustainable Infrastructure” sponsored by AICTE Training and Learning Academy from 7th to 13th December 2023 organized by Sri Venkateswara College of Engineering.



- **Ms. Ruby Freya** successfully completed an online course on “Orthographic Projections for Mechanical Components” in the L&T EduTech Micro-learning platform in December 2023.
- **Ms. Ruby Freya**, Assistant Professor, has participated in 10 hours of online Faculty Development Program on Structural Design and Analysis using STAAD Pro Connect conducted by ICT Academy during 27th November to 1st December 2023.

Graduation Day

Graduation day was held on 3rd December 2023. Out of a total of 50 graduands, 35 received their degrees in person on the day of graduation.



Ms. Keerthi R received the Gold medal for securing the First Rank

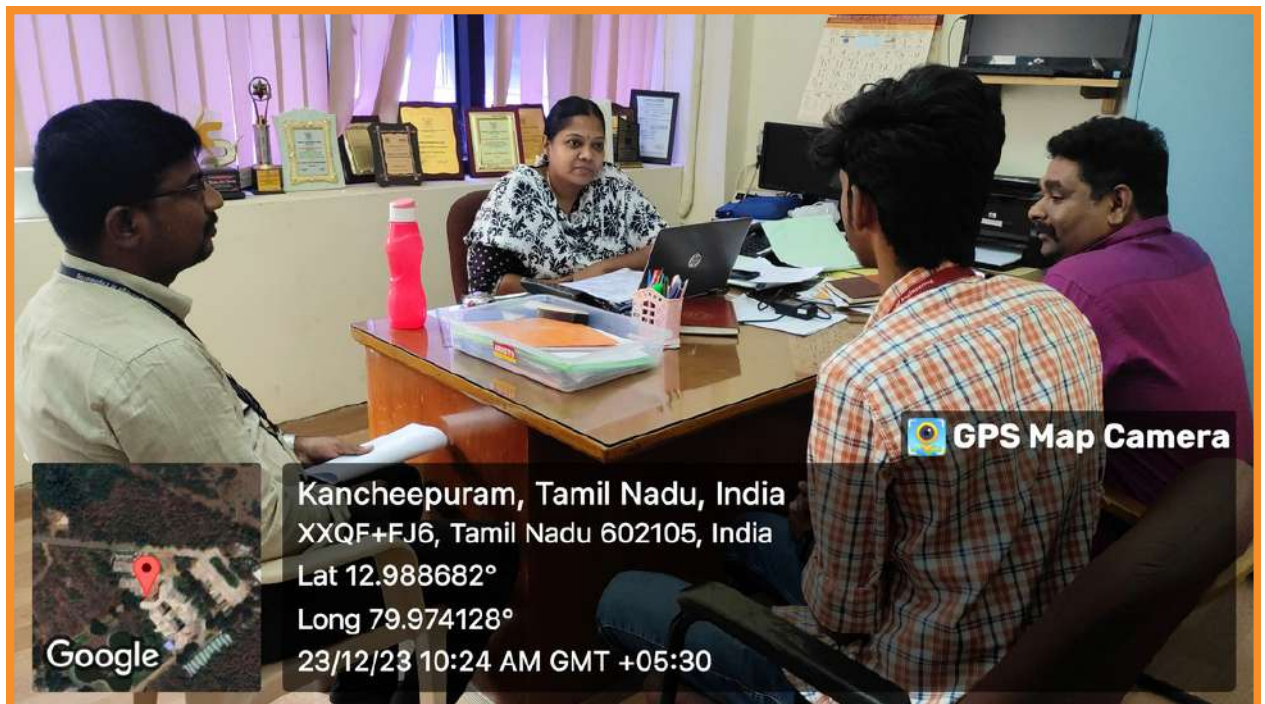


Ms. Dharshini G secured the Second Rank



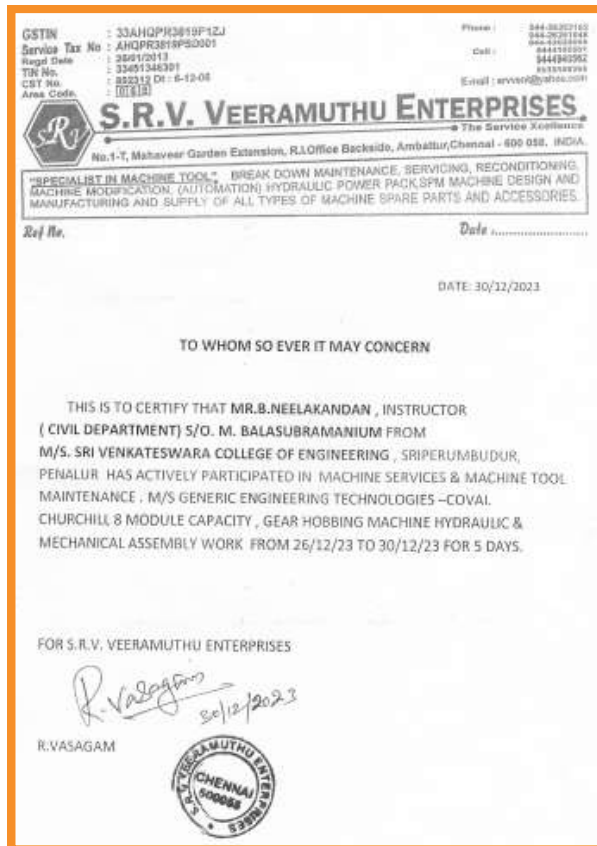
Parent Teacher Meeting

PTM for 1st year students on 23rd December 2023. Parents of 12 students attended.



Industrial Training

Mr.B.Neelakandan, Instructor underwent Industrial Training in Machine Services & Machine Tool Maintenance in M/s Generic Engineering Technologies, Ambattur from 26/12/23 to 30/12/23.



ICI Student Chapter Award

Indian Concrete Institute (ICI) student chapter has been awarded the first runner up in the ICI - Ultratech Outstanding Student Chapter Award 2023.

Alumni Testimonial

My ambition was to build better communities and be a part of the growth of our nation. I chose SVCE because of its progressive reputation in Civil Engineering, and this degree in particular got my attention because many faculty were experienced in the industry and the department had well-equipped laboratories. I had an interesting and transformative journey at SVCE. During my study, I realised what can be done, as a student in implementing one's ideas in the real-world construction. I would say it definitely opened new opportunities for me. I am proud and happy that my classmates are also working all over the world in multiple businesses of Real Estate.



Mr. A. Rajadurai
(2011-2015 Batch)

Former Deputy Project Manager of CBRE South Asia Pvt Ltd,
Chennai.

Currently graduating at University of British Columbia,
Vancouver, Canada - Engineering Leadership Program of High
Performance Buildings

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



Geotechnical Engineering



Environmental Engineering



Construction Management



Geo-Informatics



Transportation Engineering