



SRI VENKATESWARA COLLEGE OF ENGINEERING

Autonomous Institution, Affiliated to Anna University, Chennai
SRIPERUMBUDUR TK. 602 117, TAMILNADU, INDIA

DEPARTMENT OF CIVIL ENGINEERING



July to December 2019

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Editorial Board

Mr. G. Arun
Assistant Professor/ Civil Engineering

Mr.G.Dineshkumar
Student, IV Year Civil Engineering

Ms.R.Kaavya
Student, III Year Civil Engineering



DEPARTMENT VISION

To become a department of excellence in Civil Engineering education producing globally competent civil engineers with an emphasis on research for the benefit of the industry and society

DEPARTMENT MISSION

- To offer quality undergraduate technical education in civil engineering by providing state-of-the art resources that contributes to an excellent learning environment.
- To produce globally competent practicing civil engineers and entrepreneurs by imparting necessary skills, cultivating moral and ethical values who will contribute to the growth and development of the country and to the needs of the industry
- To establish regular and efficient interaction with industries for the benefit of faculty members and students.
- To motivate the students to take up competitive exams and pursue higher education
- To promote research and development activities in emerging areas of civil engineering and offer services to society and industry through education, research and consultancy activities.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

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

- I. Practice civil engineering in construction industry, public sector undertaking or as an entrepreneur by applying ethical principles and following norms of civil engineering practice.
- II. Pursue higher education for professional development
- III. 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.

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

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

1. 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
2. Plan, analyse, design, execute and manage infrastructure projects considering safety, societal and environmental factors



PROGRAMS ORGANIZED

Guest Lectures

1. Dr.R.Udayakumar, GM (Rail Unit), CDM Smith, Bangalore delivered a guest lecture on “ Railway Track Design ” on 26th Sep 2019 for third year students The program was organised by Dr. M.Selvakumar, Associate Professor/Civil Engineering.
2. Dr.A.Punitha KumarAssistant Professor (Sr.)Vellore Institute of Technology, Vellore delivered a guest lecture on “Anchorage Zone Stress” on 23rdSep 2019 for third year students. The lecture was organised by Ms.Ruby Freya, Assistant Professor/Civil Engineering.



RESEARCH AND DEVELOPMENT ACTIVITIES

Project proposals submitted

1. Dr. M. Selvakumar submitted a project titled “**Study on Potentiality of Metro from Poonamallee to Sriperumbudur**” to Chennai Metro Rail Limited (CMRL) during August 2019 (Rs.2.22 Lakhs).

FACULTY DEVELOPMENT

Participation in Seminar/Workshop/STTP/FDPs

1. Mr. G. Arun has attended Two days Faculty Development Program on "Constitution of India" Sri Venkateswara College Of Engineering, Sriperumbudur on 19th Dec 2019 and 20th Dec 2019
2. Dr. M. Selvakumar has attended FDP on Moral Values and Ethics for Engineering Teachers Art of Living, Bengaluru, Karnataka from 11th Nov 2019 to 20th Nov 2019
3. Ms. K. Sathyapriya has attended FDP on "Train the trainer for Programming skills" at Sri Venkateswara College of Engineering, Sriperumbudur from 11th Nov 2019 to 14th Nov 2019.
4. Mr. R. Kalaivannan has attended "Monsoon school on Urban Floods" organised by IISC Bangalore from 05/08/2019 to 10/08/2019.
5. Dr. P. Venkateswara Rao has attended short term training program on "Finite Element Analysis" organised by Anna University from 16.12.2019 to 20.12.2019.
6. Ms. Ruby Freya has attended short term training program on "Finite Element Analysis" organised by Anna University from 16.12.2019 to 20.12.2019.
7. Mr. K. Arun has attended National Workshop on "Composite performance techniques and its characterization for general armours and aerospace application" organised by St. Peter College of Engineering & Technology, Avadi from 30-08-2019 & 31-08-2019.
8. Ms. C. Sandhiya has attended Workshop on "E-waste Management : Issues & challenges by German Centre for Research & Innovation" organised by IIT Madras on 28/11/2019 & 29/11/2019.
9. Mr. R. Kalaivannan has attended Workshop on "E-waste Management : Issues & challenges by German Centre for Research & Innovation" organised by IIT Madras on 28/11/2019 & 29/11/2019.
10. Ms. K. Padmamala has attended FDP on "Train the Trainer for Programming skills" organised by Sri Venkateswara College of Engineering on 11/11/2019 to 15/11/2019.
11. Ms. C. Sandhiya has attended Workshop on "Implementation of 5S and TPM" organised by Sri Venkateswara College of Engineering on 14/08/2019.

INDUSTRIAL VISITS BY STUDENTS

1. Final year students have visited 'Institute of Hydraulics and Hydrology – Poondi' on 12.09.2019 to see the model dams and other hydraulic structures.
2. Second year students have visited 'JJ Brick Industries' Sunguvarchathiram on 25.07.2019 to understand the brick manufacturing process.



STUDENTS ACHIEVEMENTS

1. Ms.K.Priyanka (III year Civil Engg) has been bestowed with **Best N.S.S Volunteer award** by Anna University for the year 2018-19 in recognition of the meritorious service rendered under N.S.S (15-10-2019).
2. Nancy H secured **Third prize** in Technical Oratorical competition on ConstructionTechnology -Way to US 5 \$ Trillion economy on 10/10/2019 at CEG Guindy,Anna University.
3. Kaavya Rsecured **Fourth prize** in Technical Oratorical competition on ConstructionTechnology -Way to US 5 \$ Trillion economy on 10/10/2019 at CEG Guindy,Anna University.
4. Ajay Krishnamoorthysecured **Third prize** in Technical Oratorical competition on “ConstructionTechnology -Way to US 5 \$ Trillion economy” on 10/10/2019 at CEG Guindy,Anna University.
5. Mr.Aneesh& Mr. K. C. Jotheshwaran have secured **First place** in the Technical Quiz held at XIPHIAS' 19 ,DMI College of Engineering on 21st September 2019.
6. Mr.Aneesh&Mr.K.C.Jotheshwaran have secured **First place** in CIVIL WAR held at XIPHIAS' 19 ,DMI College of Engineering on 21st September 2019.
7. Mr.Kaviarasu ,has won **Bronze medal** in the Sanshou Sports event conducted by Tamilnadu WUSHU association/Sri Dharmchand Jain school Vandavasi Villupuram during 17-08-19 and 18-08-19.
8. Dharshini G secured **First prize** in arcade event in “INVENTE 4.0” on 13.09.19 and 14.09.19 atSSN College of Engineering, Chennai

INPLANT TRAINING / INTERNSHIP / INDUSTRIAL PROJECTS UNDERGONE BY STUDENTS

1. Mr.Bharath M, KaavyaR,Prabakaran V, Praveen Kumar V, Priyanka K, Vasantha Kumar V, Aravindhyan AM, Chayan Sardar from third year have attended in-plant training at **Chennai Metro Rail Limited** from 25/12/2019 to 29/12/2019.
2. Aswini R, Dhinesh Kumar P, Gobinath M and Praghatheesh Krishna S from final year have attended in-plant training at **Chennai Port Trust** from 26/08/2019 to 30/08/2019.
3. Mohan Krishna PR has attended in-plant training at **Public Works Department** from 12/09/19 to 15/12/2019.
4. G Dhasrshini, R Keerthi, S Kiruthiga, R Logeshwari, G.Monisha, H. Nancy, D.Pershiya, V.Hemalatha and S.Srikiruthiga have attended in-plant training at **Public Works Department** from 28/11/19 to 12/11/2019.
5. K. Arun, P. Baskar and V. Praveen Kumar have attended in-plant training at **Public Works Department** from 10/06/19 to 13/06/2019.



CO CURRICULAR ACTIVITIES

1. Yamni S, Srikiruthiga S participated in **Technical Oratorical competition** on “ConstructionTechnology -Way to US 5 \$ Trillion economy” on 10/10/2019 at CEG Guindy,Anna University.
2. G.Monisha, Hiren sheerdaran, O FahmiReeshman Ahamed participated in **“Entrepreneurship Awareness camp”**organized by Sri Venkateswara College of Engineeringfrom 09.10.19to11.10.19.
3. Ajay KrishnaMoorthy, Nancy H and Pershiya D presented paper in “INVENTE 4.0” on 13.09.19 and 14.09.19 at SSN College of Engineering, Chennai.
4. Ajay Krishnamoorthy, Nancy H, Pershiya, Mohan Krishna P R, Keerthi R, has participated in **Workshop on “Recent trends in Structural Engineering”**organized by Saveetha Engineering college, Chennai on 06/09/2019.
5. Rishi P has participated in **“PALs,Tinkathon”**organized by Hindustan Instituteof Technology held on 29/08/19.
6. Hajith Kumar, Sakthivel,Kishore Kumar, Karthick, Mahend Kumar, Aswin and Sai Aravind participated in **National Level Workshop on “INDUSTRY 4.0”**organized by Sri Venkateswara College of Engineering.
7. Mr. Vasantha Kumar V. Ms. K, Priyanka&Mr. Gowtham Raj R. participated in the **Symposium “Costruzione-19”**organised by Sri Sairam Engineering College,Chennai on 29.08.19&31.08.19.
8. Mr.Anees K, Mr.Krishna Kumar, Mr.Madheswaran, Mr.Jotheswaran K C and Mr.Nishanth K participated in **“ASTHIVAARA'19 -BRIDGE IT”**event organized by Easwari Engineering College,Chennai on 14/08/19.
9. Kaavya R participated in **“ASTHIVAARA'19 – MEGAMIND”**event organized by Easwari Engineering College,Chennai on 14/08/19.
10. Venkat Sujith participated in **“ASTHIVAARA'19 - CADD event”**organized by Easwari Engineering College,Chennai on 14/08/19.
11. Mr.Muthukaruppan K T, Mr.Magendra Raj, Mr. Mohammed Nibras, Mr. Prabhakaran V, Ms.Kaavya R participated in **Workshop on “Concrete technology”**in the ASTHIVAARA'19 event organized by Easwari Engineering College,Chennai on 14/08/19.
12. Magendra Raj S participated in **Short Term Training Program on “Building The Bridges”**organised by Engineers HUB ,Anna University Alumni Center ,Guindy,Chennai from 27.05.19 to 07.07.19.