



STELLA MARY'S COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
Aruthenganvilai, Kallukatti Junction Azhikal Post, Kanyakumari District-629202, Tamil Nadu, South India.



Department Of Civil Engineering

Race

Rein4z Association of Civil Engineering

**Civil News
Letter**

Volume -III

Issue -2

April 2020



VISION

To provide world class technical education with ethics and professionalism and to create civil engineer with high technical competencies who would full fill the challenges and needs of today's scenario with the help of green technology.

MISSION

- To impart quality technical education, imbibing lifelong learning and concern for environment.
- To create job opportunities in research, industry and consultancy both nationally and internationally.
- To provide technical skills, leadership qualities and team spirit among the students.
- To establish center of excellence in emerging areas of research to find solution to the problem faced by the society.

From the Chairman's Desk



I am sure, we have highly qualified and experienced faculty members inherited a strong foundation to march ahead and achieve education objectives for a stronger and brighter India. Measures initiated by the Hon. Management, steps taken by the college administration, the willing contribution of the faculty members and over whelming response and enthusiastic participation of my dear students in the college activates in the recent past all vouch for this. When all the constituents come together and work in unison, the expected results are bound to flow. I am proud of being the Founder Chairman of such a wonderful institution dedicated to the causes of better India.

- **Dr.NAZERATH CHARLES**



From the CEO's Desk

It gives me immense pleasure to inform you that, as prologue to our esteemed Institution 'SMCE' exclusively meant for enhanced continuous learning through the skills of aptitude, attitude, communication, creative and innovative, knowledge and entrepreneurship. These skills are facilitating your overall performance development and empowerment. Furthermore, the acquisition of knowledge and skills, building character and improving employability of our young talent, the future leadership.

- **Mr. CAROL JUDESON**



From the Director's Desk

In spite of being the oldest discipline, it is still evolving and many new developments are taking place, to make their constructions less costly and affordable, environment friendly and more safer. Lot of research activities are going on in the form of low cost housing, green buildings, constructions which can withstand severe weather and natural calamities. I am happy that Department of Civil Engineering at SMCE is keeping up with times by framing and teaching syllabus which includes current trends and also carrying out research activities. The innate desire to bring this newsletter shows their unique identity.

- Mr.P.RENJITHAM



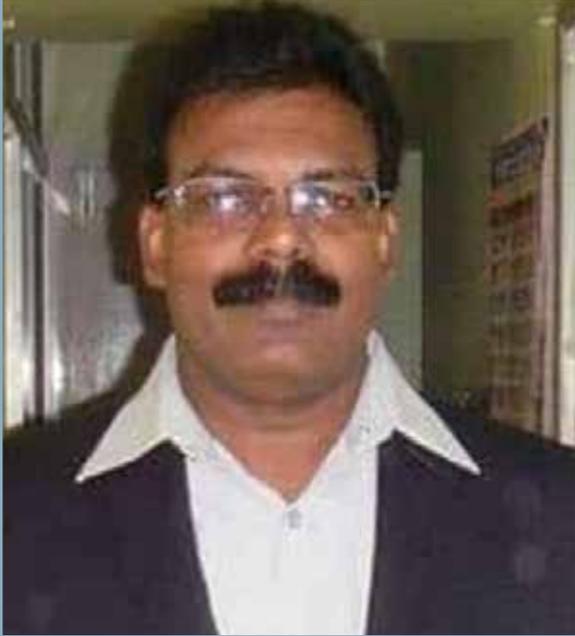
From the Principal's Desk



Education is not an act of acquiring knowledge but learning a skill to lead life and forming one's personality. This is an ennobling process of growth. I can boldly say that we have excelled in every initiative that we undertook and we have stood together in facing the challenges in realizing quality education. Our Institution has been actively involved in various activities that have brought to light the hidden talents of the college students and faculty. I am happy to note that the Department of Civil Engineering is coming out with their Newsletter. The Newsletter is presenting a glimpse of the growth of the Department on many fronts

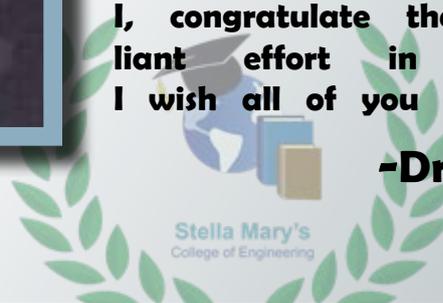
-Dr.R.SURESH PREMIL KUMAR

From the HOD's Desk



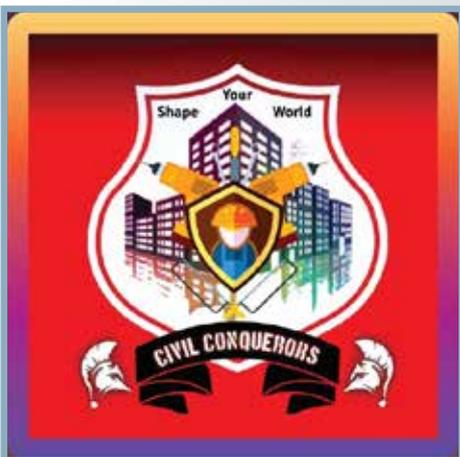
It is an honor for me to welcome the keen learning generation of modern India to a prestigious dorm of knowledge. This department has very strong undergraduate program. The department program is focused on providing not only the technical knowledge but also to encourage the student to be more innovative. The department has been able to foster this distinguished approach with the help of the staff has excellent credentials and a promising outlook. The faculty is well groomed and has publications in multiple journal and conferences proceedings. It gives me immense pleasure to lead such a prestigious and complete department in every manner. I, congratulate the Editorial for their brilliant effort in releasing the Newsletter. I wish all of you great academic career ahead.

-Dr.J.PRAKASH ARUL JOSE



ABOUT THE DEPARTMENT

A warm and affectionate welcome the department of Civil Engineering at Stella Mary's College of Engineering. The Department emerged in the year 2014 and has endowed with quality and excellence to provide all facilities to each individual with an approved intake of 60 students. In broad sense, Civil Engineering is a combination of various fields such as Structural Engineering, Environmental; Engineering, Highway Engineering, Geotechnical Engineering, Concrete Technology etc. Our Department has a team of qualified and experienced faculty members and well equipped laboratory. We are striving hard continuously to improve upon the quality of education and to maintain its position of leadership in engineering and Technology.



Program Outcomes (POs)

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.**
- 2. Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.**
- 3. Design/development of solutions: 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.**
- 4. Conduct investigations of complex problems: 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.**
- 5. Modern tool usage: 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.**
- 6. The engineer and society: 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.**

- 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development.**
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.**
- 9. Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.**
- 10. Communication: 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.**
- 11. Project management and finance: 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.**
- 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.**



Program specific Outcomes (PSOs)

PSO 1 : Applying concepts and solving problems in the branches of Civil Engineering such as Structural, Environmental, Hydraulics, Construction Management, and Geo technical Engineering.

PSO 2 :Assess the environmental impact of various projects and take required measures to curb environmental deterioration

PSO 3 :Able to use latest soft wares pertaining to various streams of Civil Engineering.



Program Educational Objectives (PEOs)

●PEO1: Graduates will have a successful career in the field of Civil Engineering by meeting the needs of industries or will become entrepreneurs.

●PEO2: Graduates will have a sound foundation in engineering fundamentals which is necessary to analyse engineering problems and the ability to persue higher studies.

●PEO3: Graduates will work collaboratively on multi-disciplinary projects by engaging in life-long learning process throughout their professional life.

Faculty Profile

Teaching Faculty

Name: Dr. J.Prakash Arul Jose
Designation: Head, Associate Professor
Qualification: M.E, Ph.D

Name: Ms.Sahaya Sofia
Designation: Assistant Professor
Qualification: M.E

Name: Mr.S.Ravi Kumar
Designation: Assistant Professor
Qualification: M.E

Name: Mrs.P.Sony
Designation: Assistant Professor
Qualification: M.E

Name: Mrs. N. Agnes Flora
Designation: Assistant Professor
Qualification: M.E

Name: Mr. T.Ragin
Designation: Assistant Professor
Qualification: M.Tech

Name: Mr.G.Amritha Gokul
Designation: Assistant Professor
Qualification: M.E

Name: Mrs.Sworna K.Jancy Bai
Designation: Assistant Professor
Qualification: M.E

Name: Mrs. S. Indira
Designation: Assistant Professor
Qualification: M.E

Name: Mrs. M.Ashni
Designation: Assistant Professor
Qualification: M.Tech

Non -Teaching Faculty

Name: Mr.Satheesh
Designation: Lab Instructor
Qualification: B.E

Name: Mrs.R.K.Madhumathi
Designation: Assistant Professor
Qualification: M.E

Name: Ms.J.John Abisha
Designation: Lab Assistant
Qualification: B.E



Name: Mr.V.S.Sreekumara Ganapathy
Designation: Assistant Professor
Qualification: M.E

In House Events organised

Seminars

Seminars were conducted in the topics of current trends in order to impart technical and practical knowledge in students. Resource from various industries were invited to share their knowledge with faculty and students.



Faculty Development Programmes



Our Department faculties attended the Faculty Development Programmes conducted by SMCE and other colleges. These programmes are organised to keep the faculties up to date with the current technologies and trends in Engineering.

Guest Lectures



Guest Lectures were conducted in various topics to bridge the gap in the curriculum and to meet the needs of the industries. Resource persons from various institutions and industries were invited to deliver the lectures of current importance.

Industrial Visit's

Industrial visit is an opportunity for the students to gain the practical knowledge on the functioning of various industries and it also paves a way to interact with the experienced persons working in the industry. The Students will also be exposed to the materials and machines involved in the production and manufacturing units. They also will understand the importance of teamwork while interacting with the employees.



Environmental Club



Environmental club motivates the students to improve the overall environment of our campus by involving the students in the activities like tree plantation, motivational and awareness activities. The main aim of the club to give awareness and activity towards achieving sustainable development.

Value Added Course

Value added course/certification course was offered to the students to improve their technical and employability skills. Courses on recent softwares were introduced to equip them to meet the current industrial trends.



Workshop



Workshops were conducted in various topics to bridge the gap in the curriculum and to meet the needs of the industries. Resource persons from various institutions and industries were invited to deliver the lectures of current importance.

Pongal Celebration



Pongal is a harvesting festival or it can be considered as the 'thanksgiving' festival celebrated in the Indian state TamilNadu, was celebrated on 14th January in our college by our faculties and students.



PTA



PTA is actively involved in aiding smooth functioning of the college. The executive committee chaired by the HoD coordinates the activities of the PTA. Its efforts are oriented towards improving facilities in the college. It also aims in improving the personality and learning skills of their wards.

Student Participation

S.NO	Name	Event	Venue	Date
1.	A.Jancy	Technical Quiz	Arunachala College Of Engineering For Women	26-02-2020
2.	A.Joncy	Previous Concrete	Arunachala College Of Engineering For Women	26-02-2020
3.	M.Aravindth	Covid-19 Awareness quiz	Sri Ranganathar Institute Of Engineering And Technology	05-02-2020
4.	J.Jemila Rose	Paper Presentation	Ponjesly College Of Engineering	14-03-2020
5.	J.Jemila Rose	Code Cracking	Ponjesly College Of Engineering	14-03-2020
6.	J.Jemila Rose	Technical Quiz	Ponjesly College Of Engineering	14-03-2020
7.	K.Kohila	Paper Presentation	Ponjesly College Of Engineering	14-03-2020
8.	K.Kohila	Technical Quiz	Ponjesly College Of Engineering	14-03-2020
9.	I.Subin	Photography	Rohini College Of Engineering And Technology	07-03-2020
10.	I.Subin	Super Plumber	Rohini College Of Engineering And Technology	07-03-2020
11.	Ajay Kumar	Super Plumber	Rohini College Of Engineering And Technology	07-03-2020

S.NO	Name	Event	Venue	Date
12.	I.Subin	Brick Bonding	Rohini College Of Engineering And Technology	07-03-2020
13.	S.Anu Akshiya	Home Automation	Kalasalingam Academy Of Research And Education	07-03-2020
14.	S.Ramesh	Documentation Using Latex	Amrita College Of Engineering And Technology	14-03-2020
15.	Jyothish Kumar	Cad Modelling	Ponjesly College Of Engineering	14-03-2020
16.	B.K.Pavithran	Documentation Using Latex	Amrita College Of Engineering And Technology	14-03-2020
17.	J.Jemila Rose	Technical Quiz	Ponjesly College Of Engineering	14-03-2020
18.	Jyothish Kumar	3d Modelling College Campus	Kalasalingam Academy Of Research And Education	07-03-2020
19.	G.Vishnu	3d Modelling College Campus	Kalasalingam Academy Of Research And Education	07-03-2020
20.	M.Irin Sweeta	Experimental Invesication Geopolymer with Partial replacement Of Coarse Aggregate by E-Waste	Kalasalingam Academy Of Research And Education	07-03-2020
21.	A.Joncy	Previous Concrete Pavement	Kalasalingam Academy Of Research And Education	07-03-2020
22.	F.Abisha	Previous Concrete Pavement	Kalasalingam Academy Of Research And Education	07-03-2020

Stella Mary's College of Engineering

S.NO	Name	Event	Venue	Date
12.	M.Aravindh	Self Healing Concrete	Kalasalingam Academy Of Research And Education	07-03-2020
13.	Paul Immanuvel	Self Healing Concrete	Kalasalingam Academy Of Research And Education	07-03-2020
14.	M.Anand	3d Modelling Church Building	Kalasalingam Academy Of Research And Education	07-03-2020
15.	S.Varsha	Home Automation	Kalasalingam Academy Of Research And Education	07-03-2020
16.	S.Anu Akshaya	Home Automation	Kalasalingam Academy Of Research And Education	07-03-2020
17.	M.Aravindh	Covid-19 Awareness Quiz	Mangalam College Of Engineering	13-04-2020



Sports Activities

Year	Name Of the Award/medal	National /International	Sports/ Cultural	Name of the Student
1.	Table Tennis	Zonal	Sports	M.Pazhani Rahul S.Udaya Guru

Editorial Board

Chief Editor : Mr.T.Ragin
Assistant Professor



Co-Editor : Ms . Sorna .K. Jancy Bai
Assistant Professor

Subin.I
8th Semester



Subin.S
8th Semester

Irin Sweeta.M
8th Semester



Ashmin Rajith.R
8th Semester



Stella Mary's College Of Engineering

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