



**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

## Civil News Letter

# Race

Rein4z Association of Civil Engineering

Volume - II

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# 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



It is indeed very heartening to witness that the Civil Engineering Department has carved a name for itself in the academic scenario of the region. It is the only medium which enables you to move from darkness to brightness. I would take this opportunity to urge you all to focus on all round development. You should always have your education laced with morality and ethics. This task has to be taken over by the academicians to provide value and ethic based education. You should all remember that, "honesty is the first chapter in the book of wisdom" and we should inculcate honesty and integrity in all what we do. I earnestly hope and trust that, my esteemed academicians and budding technocrats will work with sincerity, honesty and dedication and thereby contribute to make this world a better place to live in.

- Dr. NAZERATH CHARLES

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. I congratulate the department for their commitment towards the provision of excellent all round education for our students. I also wish them to move forward with confidence, pride and enthusiasm.

- Mr. CAROL JUDESON



## From the CEO's Desk



## From the Director's Desk

I am delighted to know that Civil Engineering Department of SMCE is bringing out their News Letters showcasing their activities, initiatives and achievements in addition to technical articles. Civil Engineering is one of the oldest recognized branches of engineering that, even today for most of the old timers Engineer implicitly meant Civil Engineer. It could be because all their activities could be visibly seen in the form of roads, buildings, bridges, dams, airports etc. The other engineering disciplines may change with times in evolving, reshaping, merging etc. but civil engineering will maintain its unique identity.

**- Mr.P.RENJITHAM**



## From the Principal'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. I compliment the faculty of Civil Engineering Department for their initiative and wish them all the best in all their future Endeavours.

**-Dr.R.SURESH PREMIL KUMAR**

**Stella Mary's College of Engineering**

## From the HOD's Desk



It's my pleasure to release the 8th issue of the news letter "RACE". This issue carries out the vibrant faculty and student articles and reviews the events organized in the Civil Engineering Department from December 2018 to April 2019. Each issue of this newsletter is a proud milestone of our events that marks our growth, unleashes our imaginations and measures our professionalism. A committed team and enthusiastic students of the department have made this academic year 2018-2019 full of professional events. I hope that the list of events and success doubles in the next academic year.

**-Dr. R. VENKATAH KRISHNAIAH**



## ABOUT THE DEPARTMENT



A warm and affectionate welcome to 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. R.Venkatah Krishnaiah**  
**Designation: Head, Associate Professor**  
**Qualification: M.E, Ph.D**

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

**Name: Mr.J.Prakash Arul Jose**  
**Designation: Associate Professor**  
**Qualification: M.E**

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

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

**Name: Mr.T.Vijayan**  
**Designation: Assistant Professor**  
**Qualification: M.E**

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

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

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

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

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

## **Non -Teaching Faculty**

**Name: Mr.Satheesh**

**Designation: Lab Instructor**

**Qualification: B.E**

**Name: Ms.A.Anusha**

**Designation: Lab Assistant**

**Qualification: B.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.**





## Workshop

**Workshops 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.**



# Guest Lecture

**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.**



## 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.**



## **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.**



## Independence Day

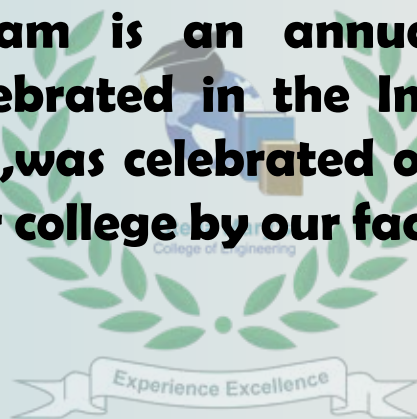
Independence day was celebrated with a special function. Director hosted the national flag on the day and delivered message on the occasion.



## Onam Celebration



Onam is an annual harvest festival celebrated in the Indian state of Kerala, was celebrated on 6th september 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.



# Industrial Visit

**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.**





# Student Participation

S.NO	Name	Event	Venue	Date
1.	M.Rajasree	Workshop	Stella Mary's College of Engineering	21-07-2018
2.	K.Kohila	Workshop	Stella Mary's College of Engineering	21-07-2018
3.	M.Irin Sweeta	Workshop	Stella Mary's College of Engineering	21-07-2018
4.	A.Jasmi	Workshop	Stella Mary's College of Engineering	21-07-2018
5.	G.Sujin	Workshop	Stella Mary's College of Engineering	21-07-2018
6.	J.Sahaya Antony	Workshop	Stella Mary's College of Engineering	21-07-2018
7.	B.K.Pavithran	Workshop	Stella Mary's College of Engineering	21-07-2018
8.	M.Minimol	Paper Presentation	Loyola Institute Of Technology and Science	10-08-2018
9.	M.Minimol	Paper Presentation	Vv College of Engineering	08-09-2018
10.	Nithish Nelson	Paper Presentation	Thamirabharani Engineering College	14-09-2018
11.	I.R.Nizanth	Paper and Quiz Competition	Thamirabharani Engineering College	14-09-2018

<b>S.NO</b>	<b>Name</b>	<b>Event</b>	<b>Venue</b>	<b>Date</b>
<b>12.</b>	<b>Jyothish Kumar</b>	<b>International Design Competition</b>	<b>Cadd Centre Training Services Pvt Ltd</b>	<b>Sep-Nov 2018</b>
<b>13.</b>	<b>Irin sweeta</b>	<b>Paper Presentation</b>	<b>Rajas International institute Of Technology For Women</b>	<b>28-09-2018</b>
<b>14.</b>	<b>S.Alan Anto Prakash</b>	<b>Quiz</b>	<b>Noorul Islam Centre For Higher Education</b>	<b>27-03-2018</b>
<b>15.</b>	<b>S.Alan Anto Prakash</b>	<b>Paper and Quiz Competition</b>	<b>Thamirabharani Engineering College</b>	<b>14-09-2018</b>
<b>16.</b>	<b>K.Kohila</b>	<b>Participation</b>	<b>Mar Ephraem College Of Engineering and Technology</b>	<b>2018-2019</b>
<b>17.</b>	<b>P.R.Santhini</b>	<b>Plastic Roads</b>	<b>Mar Ephraem College Of Engineering and Technology</b>	<b>2018-2019</b>
<b>18.</b>	<b>J.Amritha Joselin</b>	<b>Plastic Roads</b>	<b>Mar Ephraem College Of Engineering and Technology</b>	<b>2018-2019</b>
<b>19.</b>	<b>M.Minimol</b>	<b>Recycling Of Construction Waste</b>	<b>Mar Ephraem College Of Engineering and Technology</b>	<b>2018-2019</b>
<b>20.</b>	<b>J.Amritha Joselin</b>	<b>Participation</b>	<b>Mar Ephraem College Of Engineering and Technology</b>	<b>2018-2019</b>

# Sports Activities

Year	Name Of the Award/medal	National /International	Sports/ Cultural	Name of the Student
1.	Badminton	Zonal	Sports	R.Stalin E.Samuel Aaron M.S.Deva





# Editorial Board

**Chief Editor : Mr.T.Ragin**  
**Assistant Professor**



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



**Pradhab.P**  
**7th Semester**



**Jayaraj Nishanth.Y**  
**7th Semester**



**John Abisha.J**  
**7th Semester**



**Abisha.A**  
**7th Semester**





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