



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 - IV

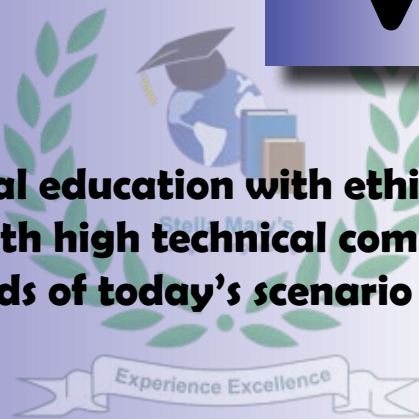
Issue -2

April 2021



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.**

Stella Mary's College of Engineering

From the Chairman'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.NAZERATH CHARLES



From the CEO's Desk

Learning should be based on doing things and not merely knowing things. Until and unless learning solutions relate to real life and motivate the learner to acquire and apply the knowledge, the whole process will remain superficial. Any Engineering Department worth its name looks to optimize the productivity of global leaders. The Department has set specific objectives and planned activities for achieving excellence in all spheres of technical education. People who feel good about themselves produce good results and people who produce good results feel good about themselves. We also believe in total learning and sharing.

- Mr. CAROL JUDESON



I am happy to know that the Department of Civil Engineering is bringing a newsletter of the Department. I appreciate the department for such an initiative to provide a platform for communicating the innovative ideas of the students and faculty members. News letter is an excellent platform for the students to publish their success stories, innovative ideas and findings. They can also write about the improvements, required in the curriculum and syllabus of the course and subjects the study. The students and faculty members can take some interviews with their alumni about their experiences and job opportunities and publish in the newsletter for the benefit of the students. Apart from the professional interest, every student and faculty will have literary interest and capabilities like poem writing, comics writing and moral story writing. This will add value and interest for the readers of the newsletter.

- Mr.P.RENJITHAM

From the Director's Desk



From the Principal'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. Education is the most powerful tool to bring desirable changes in our personality and also to bring positive changes in our society. 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.R.SURESH PREMIL KUMAR



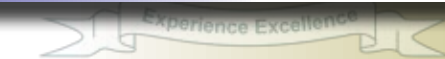
From the HOD's Desk



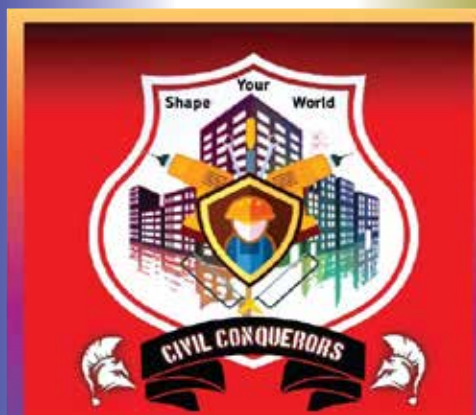
It's my pleasure to release the 8th issue of the news letter "RACE". This issue carries out the vibrant faculty and student articles and reviews the events organized in the Civil Engineering Department from December 2020 to April 2021. Each issue of this newsletter is a proud milestone of our events 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 2020-2021 full of professional events. I hope that the list of events and success doubles in the next academic year.

-Dr. R.K. MADHUMATHI

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)

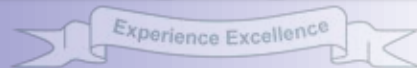
PSO 1 : Applying concepts and solving problems in the branches of Civil Engineering such as Structural, Environmental, Hydraulics, Construction Management, and Geo technical Engineering.

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.K. Madhumathi
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.E



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

Non -Teaching Faculty

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

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

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

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

In House Events organised

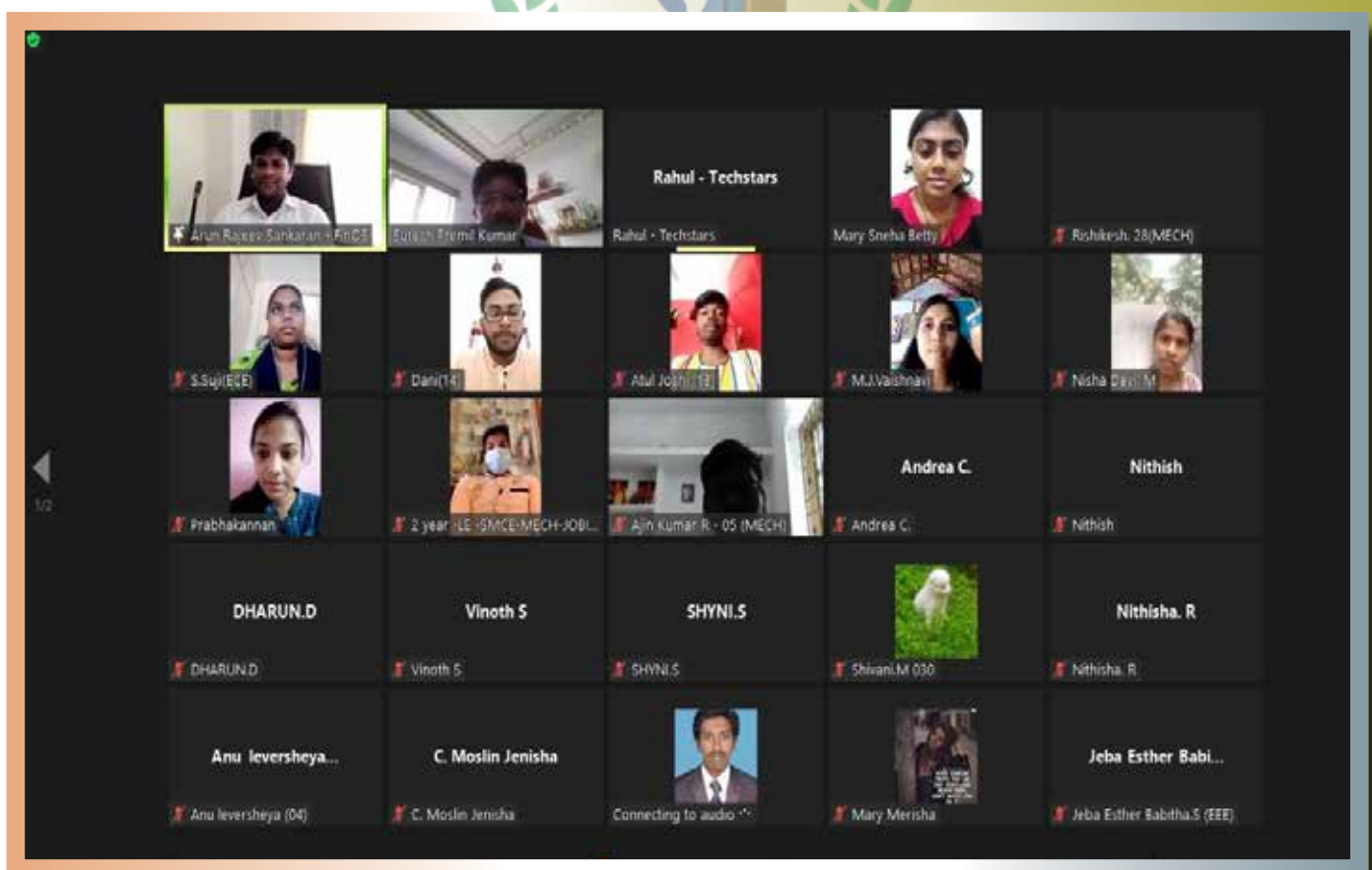
SMCE Aditi 2.0

An online Instagram event “Aditi 2.0” was conducted to encourage the students to unleash their creative abilities and to showcase them to all the stellamarians. Our department students participated in the event and won exciting prizes



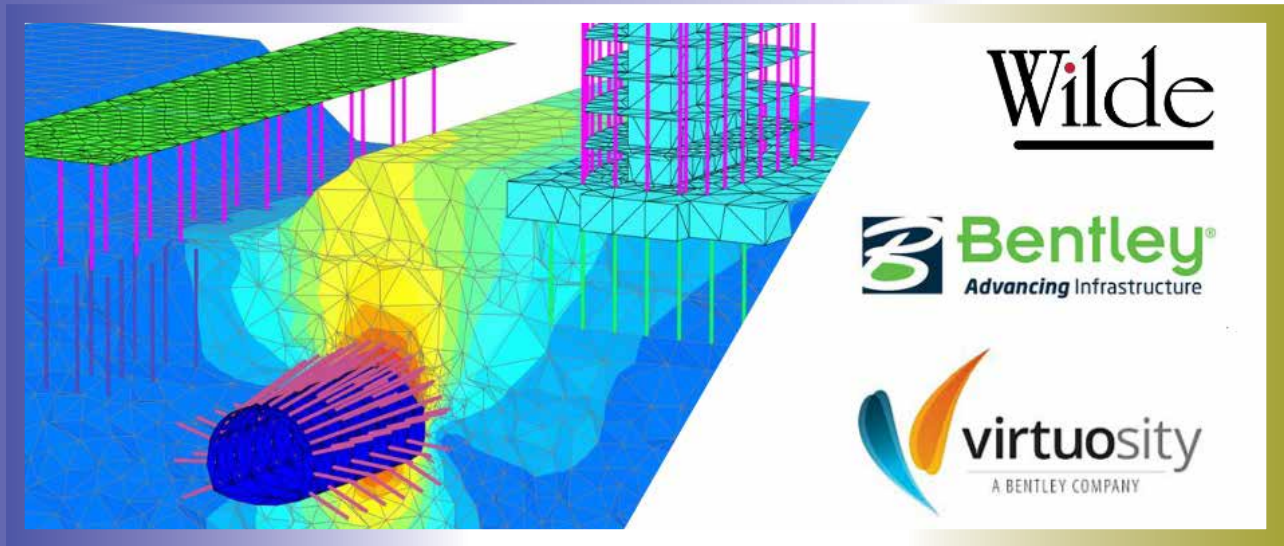
Webinars

Webinars 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.



PLAXIS

Geotechnical Analysis Software



Plaxis is a computer programme that performs finite element analyses within the realm of geotechnical engineering, including deformation, stability and water flow. The input procedures enable the enhanced output facilities provide a detailed presentation of computational results.

PLAXIS is the leading geotechnical engineering simulation software developed specifically for deformation analysis of soils and rock. Renowned for ease of use and accuracy, it will help you optimise your designs more effectively than applying traditional conservative calculation methods.

- Nithish Nelson

8th Semester



Editorial Board

Chief Editor : Mr.T.Ragin
Assistant Professor



Co-Editor : Mrs.P.Sony
Assistant Professor

Ajay Kumar.R
8th Semester



Nithish nelson
8th Semester

Athira
8th Semester



Varsha
8th Semester





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