

STELLA MARY'S COLLEGE OF ENGINEERING

Aruthenganvilai, Kallukatti Junction, Azhikal Post, Kanyakumari District – 629 202.

(Accredited by NAAC, Affiliated to Anna University, Approved by AICTE)



ANNUAL REPORT 2020-2021

Preface

I am very happy to place before you a brief report of the college for the academic year 2020-2021. Stella Mary's College of Engineering is an institution of excellence that nurtures intellectual and academic pursuits, provides adequate opportunities for co-curricular and extra-curricular activities and makes for a conducive environment for over-all development of young inquisitive minds when they enter the portals of this vibrant institution. The learning, the evolving and the effort will never cease. The year as every other, was exciting, challenging and had an invigorating scope to learn, question, reflect and introspect.

Dr. Magesh, Assoc. Professor, Dept. of Science & Humanities, Dr. Anushya, Assoc. Professor, Dept. of Science & Humanities, was awarded the Doctoral degree by Manonmaniam Sundaranar University, Dr. Selva Reegan & Dr. Pon Parthiban, Assoc. Professors, Dept. of Computer Science & Engineering, Dr. Madhumathi, Assoc. Professor, Dept. of Civil Engineering, Dr. Jenix Rhino, Assoc. Professor, Dept. of Mechanical Engineering, awarded the Doctoral degree by Anna University during this academic year.

During the current year, the Institute has about 850 students and 82 teaching staff ably supported by about 35 non teaching technical and non-technical staff. About 85 students stay in the college Hostels. The college has 11 busses for daily commuters. Our students produce a good results in the university exams. Good number of our students participated in the National level technical & Project competitions and leadership camps and have won prizes.

In this academic year 25 Guest Lectures & Seminars, Inter Departmental competitions, Hands on training, were organized by all departments regularly to excavate and extract the best in an individual to groom the skills of every student and transform them into talents unlimited. Students are motivated to submit proposals to grant in aid projects. In this academic year 7 Student project proposal were submitted to TNSCST.

Also all faculty are encouraged to attend FDPs, present papers in National & International Conferences and Journals. Particularly during the last academic year faculties have published 17 papers in National & International Journals. Faculties are also encouraged to undertake funded projects

CSE: 6 member team from CSE was selected to compete in the finals at BML Munjal University, Gurugram, Haryana for the Smart India Hackathon 2020-Software Edition. CSE department joining with Superintendent of Police (SP), Tenkasi for developing software for the police department.

ECE: One community based project is in process in association with IEEE-ADSF sight. As a extension activity students visited the nearby schools and trained in IOT.

EEE: Two real time projects installed in the department, Organized Energy Conservation Campaign in the nearby Villages and Schools.

Civil: Young Geo Technical Engineer Award, awarded to Dr. R. K. Madhumathi

Mech: 2 faculty funded projects were proposed to TNSCST-DST & DIT, One real time project installed in the campus, Research Excellence Award-2020 is awarded to Dr. JenixRino by Institute of Scholars India.

Seminars/ Workshops/ Refresher Courses attended by Faculty:

S.NO	Name of the Faculty	Title of the Program
1.	Mr.C.Milton	Energy Engineering
2.	Mrs.I.SabareesaPriya	Power Utilities & Artificial Intelligence
3.	Dr. R. K. Madhumathi	Innovation & Challenge in Civil Engineering
4.		Advanced in Earthquake Engineering
5.		Emerging Opportunities in Civil Engineering
6.		Sustainable Concepts In Civil Engineering And Architecture
7.		Sustainable Developments In Civil Engineering
8.		Innovation & Challenge In Civil Engineering
9.		Construction Techniques And Project Management
10.	Mr. T. Ragin	Sustainable Concepts In Civil Engineering And Architecture
11.		Sustainable Developments In Civil Engineering
12.		Sustainable Transport For Smart Cities
13.		Innovation & Challenge In Civil Engineering
14.	Mrs. N. Agnes Flora	Advanced In Earthquake Engineering
15.		Emerging Opportunities In Civil Engineering
16.		Sustainable Transport For Smart Cities
17.		Construction Techniques And Project Management
18.		Innovation & Challenge In Civil Engineering
19.	Mrs. M. Ashni	Construction Techniques And Project Management
20.		Sustainable Transport For Smart Cities
21.		Sustainable Developments In Civil Engineering

22.	Mrs. S. Indira	Innovation & Challenge In Civil Engineering
23.		Recent Innovations In Civil Engineering
24.		Sustainable Water Resource Management
25.		Modeling & Detailing Of Steel Structures Using Software Application
26.		Advanced In Earthquake Engineering
27.	Mr. S. Ravi Kumar	Innovation & Challenge In Civil Engineering
28.		Construction Techniques And Project Management
29.		Sustainable Concepts In Civil Engineering And Architecture
30.		Sustainable Developments In Civil Engineering
31.		Innovation & Challenge In Civil Engineering
32.	Ms. A. Sahaya Sofia	Recent Innovations In Civil Engineering
33.		Sustainable Water Resource Management
34.		Modeling & Detailing Of Steel Structures Using Software Application
35.		Innovation & Challenge In Civil Engineering
36.	Mrs. P. Sony	Advanced In Earthquake Engineering
37.		Construction Techniques And Project Management
38.		Sustainable Developments In Civil Engineering
39.		Innovation & Challenge In Civil Engineering
40.	Mr. V. S. Sree Kumara Ganapathy	Advanced In Earthquake Engineering
41.		Emerging Opportunities In Civil Engineering
42.		Sustainable Concepts In Civil Engineering And Architecture
43.	Mrs.Mamitha.S	Artificial intelligence using Python
44.	Mrs.AldoTenis.A	Recent Technology trends in Computers and Cyber Security
45.	Mr.A.SelvaReegan	IoT protocols and WSN-Theory and practice
46.	Mr.BastinRogers.C	Devops Engineering Practices
47.	Mrs.S.Mamitha	Emerging Trends and Technologies in Data Science
48.	Ms.FathimaShreneShifna	Salesforce Developer
49.	Mrs.AldoTenis.A	Motivation and Knowledge Retention
50.		Emerging trends and research challenges in next generation wireless networks
51.	Mr.Ajith Kumar	Renewable Energy Intervention in industry,commercial and domestic application
52.	Mr.J.Starlin Deva Prince	Waste Technology
53.		Computational Fluid Dynamics
54.		Heat transfer and computational fluid dynamics towards industrial applications
55.		Alternate Fuels
56.		Plastics Recycling and Waste Management
57.		Simulation of Welds and Optimization Techniques

58.		Engineering Modeling and simulation using CFD
59.	Mr.BravinDaniel.E	Discharge services to the nation
60.		Advanced Engineering Materials for Strategic and Societal Sectors
61.	Dr.F.Michael Raj	Discarded Fishnet fibre Incorporated Composites for mitigated to sustain Green environment
62.		Waste Nylon fiber as alternate material for glass fibre in GRRP composites
63.		Determination of delamination in drilling practice of GFRP polyester composites for marine structures

Circular Enhancement

The institute believes that a motivated workforce can be a significant factor in institute's success. Other than curriculum based teaching we provide an opportunity to students in developing inter-disciplinary skills by encouraging them in completing various certificate courses and field work projects.

Certificate programs

Name of Add on /Certificate programs	Number of Students completing the course in the year
Advanced Java Programming	48
Computer Networks & Interfacing	37
Advanced Web Programming	35
Oracle	48
Machine Learning	37
Android App Development	35
AUTO CAD-3D	28
STAAD PRO	37
AUTO CAD-2D	28
TOTAL STATION	37
STAAD PRO	49

Field work/Internship

Field work/Internship	Name of the students completed
Foundation Engineering	Rahul R Aravinth M Paul Immanuel A Mickel Raj D
1. Transmission and Distribution 2. Electrical Machines II	Pravin R Bhavin Kumar S Aswanth Ramji R T Jackson Obeth J Santheesh C
Solid State Drives	Mohammed Raaffih A Jebin Gibson H Aravinth M V

Athish B Jeyaram M R Manchi Raj P Sujith M Anish J Vasanth L Infant Alex R Jenith J
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NSS and YRC

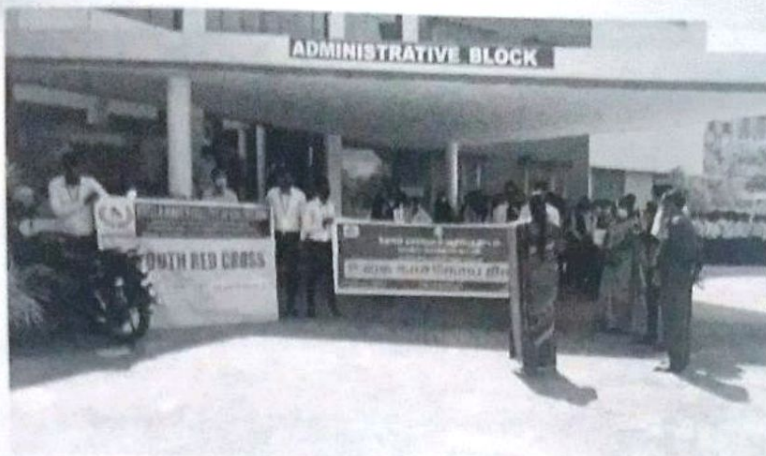
NSS unit of the college is involving in the Blood donation camp and several other community related activities. Students of the Institute are participating very actively in several professional society branch activities and student clubs. YRC unit of the college helps in promoting Humanity, impartiality, neutrality, independence, voluntary service, unity and universality

A COVID awareness programme was organized by our college on 27th July 2020. The Public Health Inspector from public health department participated and gave a speech about COVID awareness by. At the end of the program kabasurakudineer was distribution to all the people nearby village and staffs of Stella Mary's college of Engineering.



COVID awareness programme & kabasurakudineer distribution for nearby village people

Our college National Service Scheme (NSS) and Youth Red Cross (YRC) together organized a Tuberculosis Awareness Rally on 02th March 2021. In this programme the staff from the Government Primary Health Centre, Ganapathipuram also participated and joined in the rally.



Tuberculosis Awareness Rally 2021

Energy Saving Awareness (Ensav) Club

Ensav Club focuses on bringing about a first-hand realization of the energy crisis and scarcity of natural resources in the Country. The members of EnSAv club participated in the Energy Conservation Campaign in Azhikal village and 10 schools around the campus and promoted the awareness through the 9 mantras to save electricity in home by distributing energy Saving Mantras pamphlets. The Department EnSAv club members have completed energy audit for more than 250 houses. 21 Students were awarded for the initiatives taken towards the United Nation Sustainable Development Goals 7 & 13 through our EnSAv club.



Distributing energy Saving Mantras pamphlets 2021

IEEE Club

IEEE Xplore is a research database for discovery and access to journal articles, conference proceedings, technical standards, and related materials on computer science, electrical engineering and electronics, and allied fields. Stella Mary's College of Engineering is an institutional member of IEEE.

S.NO	DATE	NAME OF THE EVENT	GUEST NAMES AND CONTACT
1.	25/10/2021	Seminar on "How can utilize fibre Optic Sensors to new value proportion"	Mr.r.Rajesh,ME Field Coordinator, EDII- TN HUB, University College of Engineering Nagercoil.
2.	28/10/2021	Seminar on "Python Machine Learning Future & development	1.Ms. Kayathri.S,Software developer Network System PVT,Nagercoil 2.Ms. Siva Bharathi, Software developer Network System PVT,Nagercoil
3.	26/8/2021	Technical workshop on Scilab	Dr.Jain B Marshal,AP/EEE St.Xavier's Catholic College of Engineering .nagercoil
4.	27/8/2021	Webinar on "Powering the future-Role of electrical engineers"	Er.Mano Moorthy Manager Project & Sales Vadhaman Engineering,Coimbatore
5.	01/06/2021	Lecture series on trends and opportunities in embedded systems	Mr.Suresh Subramanian, General Manager,ESD Engineering& Consulting Pvt.Ltd
6.	28/05/2021	Lecture series on career opportunities in medical for electronics engineers	Dr.A.Albert Raj , Professor, Dept.of ECE, Sri Krishna College of Engineering and Technology
7.	21/05/2021	Online webinar on "Trends and Opportunities in Aerospace and Medical Electronics"	Mr. SunilKumarGopakumar Senior Engineering Manager – Avionics, United States. Mr. Luis Morales, Vice President, Research, Development & Technology, California, UnitedStates.
8.	20/7/2020	Webinar on "Introduction to computer vision and its applications"	Dr.B.Ezhilavan Managing Director,VEITechnologies,Chennai
9.	23/06/2020	Webinar on "Explore yourselves in realtime projects"	Mrs.SanthiDurairaj,Sr. SAP FICO Techno Functional Consultant, Think Development Systems, Stamford
10.	14/07/2020	Sales as a career	Mr.Senthil Kumar S K Territory Manager

Entrepreneurial Development club (EDC)

This cell is formed in our college to develop spirit/awareness on entrepreneurship among the students. Inspire students to take initiatives and accept responsibilities to thrive in the challenging world to become employment creators.

SLNo	Date of Program	Title of Program	No. of Beneficiaries
1	21-07-202 to 23-07-2021	Entrepreneurial Mindset	40
2	24-07-2021	Engineers as Entrepreneurs	65
3	25/07/2020 & 26/07/2020	The Essence of Life – Hobbies and Thoughts	33
4	7/10/2020	Awareness Programme of Tamilnadu Students Innovators -2020	35
5	25/11/2020	Career Options in Tech and Non-Tech Job Opportunities after Graduation	53
6	21-05-2021	Opportunities in Software Testing	51
7	21-05-2021	Trends and Opportunities in Aerospace and Medical Electronics	43
8	22-05-2021	Mobile Application Development using Android Studio	35
9	24-05-2021	Innovation - A Multidisciplinary Approach	45
10	25-05-2021	Rapid Prototyping using 3D Printing	22
11	26-05-2021	Innovation For Societal Development	40
12	27-05-2021	Innovation in Concrete Technology	24
13	28-05-2021	Student and Entrepreneurial Journey	30
14	29-05-2021	Intellectual Property Rights	55
15	31-05-2021	Creativity, Entertainment and Entrepreneurship	33
16	1/6/2021	Trends, Innovations and Opportunities in Embedded Systems	30

Placement:

Placement is the thread line of Stella Mary's that is woven by umpteen Reputed Companies including SHails Metals, Qatar, Exblowra Trading Co. Qatar, Infosys, CSS Corp, Jilaba Software, Sanmina, Virtual maze, Soft4U etc., who have recruited our students and helped them reach reputed levels. The future of our students seems to be very bright in the prospect of jobs. Most of the students in our college aspire to get placed in the top companies during the campus placement drive. During this academic year 64 students are placed in various companies



Campus drive by Foxconn Hon Hai Technology India Private Limited

Abroad Placement

Apart from the campus recruitment programme in our college, the students were also encouraged to participate in abroad placement drive in our campus. Abroad Placement is one of the salient feature of our college. Ten of our students are placed in SHails Metals, Qatar.

S.No	Name of the Student Placed in Abroad
1.	HABEL JOHN MATHEW
2.	VIVEK V KURUP
3.	NARENDRANATH
4.	IMMAN
5.	AJISH A
6.	AJAI KJ
7.	ANOOP UTHAMAN
8.	WINSTON RENO
9.	PEER HALLAJ
10.	DOMIN DANIEL

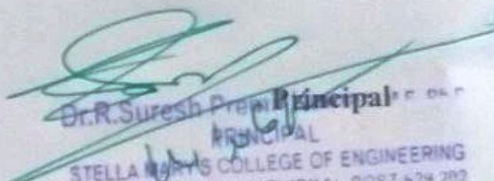
Sports

Our college wasn't an exemption to outperform in sports events held in various occasions. In the Anna University Zone 19 inter collegiate tournaments our college

1. Badminton (Boys team) secured the winner position
2. Table tennis (Boys team) secured the winner position
3. Table tennis (Girls team) secured the runner position
4. Ball badminton (Boys team) won the winner position
5. Ball badminton (Girls team) won the runner position
6. Our II MECH Student Mr.J.Jeshwin Arul received the FORM III Certificate in the badminton game .He is also Represent in Anna University Badminton team

Conclusion

All this has become possible by the great support from the Management. I thank the Governing council members, Head of the department, faculty, staff members and students for their excellent cooperation and involvement in all the college level activities. I thank everyone connected for all their support. Thanks one and all.


Dr. R. Suresh Principal
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