

# S.A.ENGINEERING COLLEGE

(AUTONOMOUS)

ACCREDITED BY NAAC WITH 'A' GRADE & ISO 9001:2015 CERTIFIED INSTITUTION  
POONAMALLEE AVADI MAIN ROAD, CHENNAI-77



**DEPARTMENT OF  
ELECTRICAL AND ELECTRONICS**

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# **MAGAZINE**

**SAGASA'24**

2023-2024

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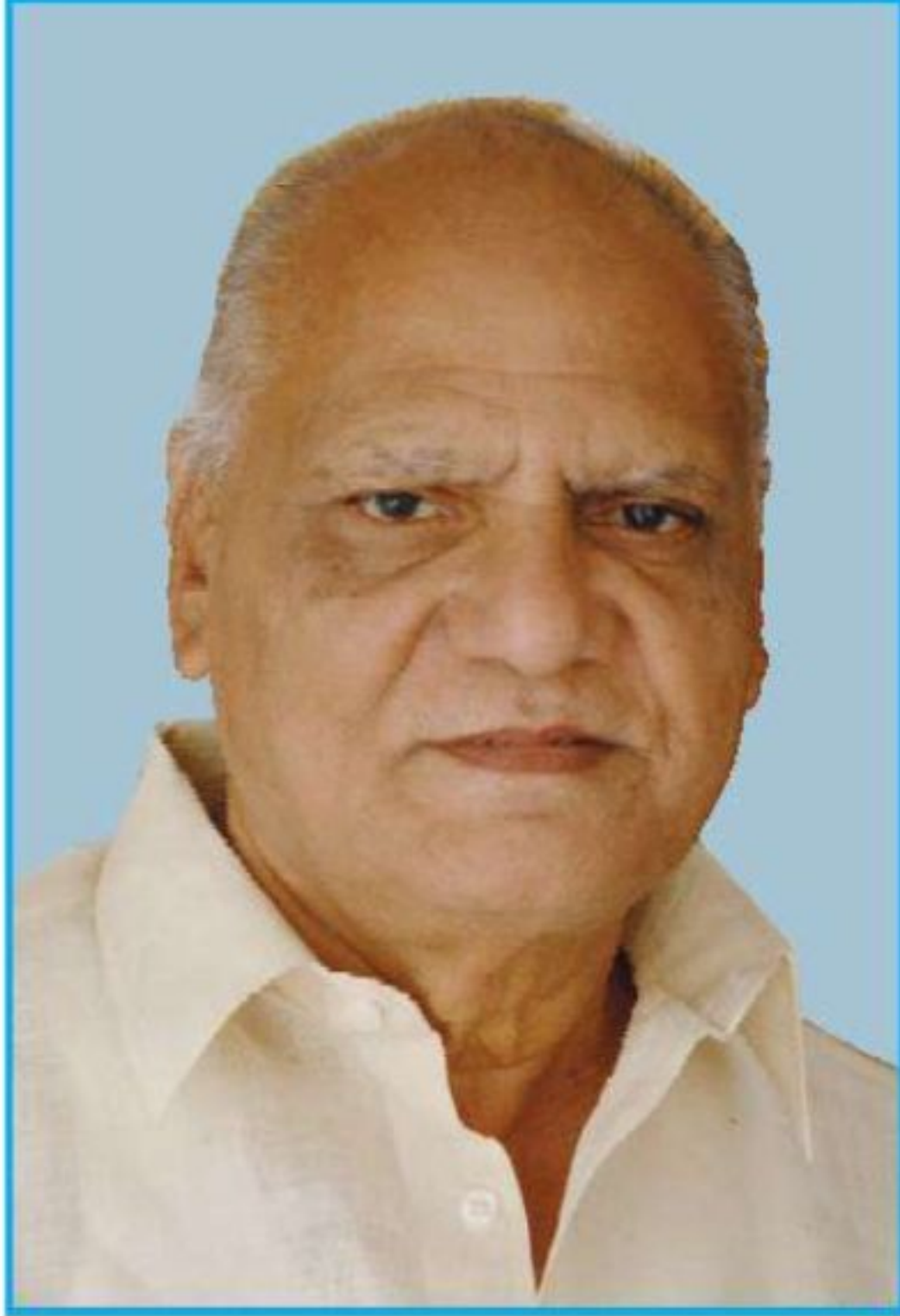
**திரு. தர்மா நாயுடு**

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**Thiru. D. SUDHARSSANAM**  
Founder



**Thiru D. DURAISWAMY**  
CHAIRMAN



### CHAIRMAN MESSAGE

“The education and empowerment of women throughout the world cannot fail to result in a more caring, tolerant, just and peaceful life for all.”

*Aung San Suu Kyi*

Education and wisdom empowers a person. This institution believes in empowering women by providing quality education which enhances creativity and knowledge. This would make them independent and contribute to the development of self, family, society and country.

The institution believes in giving an opportunity for the girl student community to identify one's flair and to pursue with the prolific knowledge in the long run of competency without gender bias. The management and faculty believe in making sure that a comfortable ambience is created for the girl students giving the strength to fight the atrocities of the life with absolute savoir-faire.

I appreciate the effort of the entire team to bring out the contributions of the students and faculty and attempt in portraying empowerment through the display of creativity and knowledge.

**D. DURAISWAMY**



**Thiru D. DASARATHAN**  
Secretary



### **SECRETARY MESSAGE**

**“Women are the real architects of the society”**

**Harriet Beecher Stowe**

S.A. Engineering College is in the drive of serving the mankind supplying the innovative minds that work to transfer the world to a technological warehouse. Women who are empowered contribute to creating a beautiful family, a good society and a great country. The institution treats the girl students on par with male students to sharpen their ideals to be in par with the advancement of the world and the technology as well.

Indeed, I am happy that SAKTHI'17 is another milestone in the progress of the institution. Through this column I wish the minds that worked for bringing out and encouraging the talents of the girls and women and I also appreciate the students who have contributed their best utilizing the opportunity.

**D. DASARATHAN**



**Thiru S. AMARNAATH, M.Civil.,**  
Correspondent



### **CORRESPONDENT MESSAGE**

“A woman with a voice is, by definition, a strong woman.”

—*Melinda Gates*

This is a time when, the drive for power has a value in itself has become the principal indicator of social approval. And the winning of power has become the measure of social merit. All things in the world are subject to function for power. It is in the hands women how much credit she gives her power with the knowledge and character. Both these qualities are indispensable for any individual. This paves way to win the authority over the people who respect and obey the words of the authoritative. The reputation by the power is winning the hearts of the people and be a benchmark in an individual's life.

This gives me an honour to congratulate the efforts of the team to bring out the first edition of SAKTHI' 17 which hallmarks of the power of 'knowledge'.

**S. AMARNAATH**





**Thiru P. VENKATESH RAJA, B.E., M.S.,**  
Director



### **DIRECTOR MESSAGE**

“One of the most courageous things you can do is identify yourself, know who you are, what you believe in and where you want to go.”

— Sheila Murray Bethel

Courage is the pathway to the achievement in our lives. Women have to identify themselves and create a means of challenge and succeed in their endeavors. Women should first identify what they want and must have the courage to pursue that with perseverance. She must be aware of the hazards and make the failures that she faces as challenges to be demanded. For success, gender is irrelevant. What matters is the determination to overcome all obstacles to reach the goal,

SAKTHI '17 is the fruit of the endeavour of staff and students. It gives me pleasure to view the successful compilation of views put forth and leading the path towards empowering women. I congratulate the women empowerment team who are involved with their hearts and minds to bring out this successful compilation.

**P. VENKATESH RAJA**



Dr. S.RAMACHANDRAN

PRINCIPAL



### PRINCIPAL MESSAGE

**“Feminism is not about making women strong. Women are already strong. It’s about changing the way the world perceives the strength.”**

**- G.D. Anderson**

Women are gifted with qualities like self-awareness, individual will, intuition and creativity which decides the individual liberty. Through determination and perseverance they can change the way the world looks at them. They can show the world that they are strong and can achieve and the gender does not really matter though insight and focused attention..

Through this message column I express my happiness about the work on SAKTHI'17. I congratulate the effort shared by the entire women empowerment team for the eliciting, identifying and encouraging talents . The contribution of the staff and students for the successful publication of the e- magazine is indeed appreciable.

**Dr. S.RAMACHANDRAN**

## From the Department of EEE

**Dr. G. ROHINI**

**HOD - EEE**

*I am happy to note that the magazine brought out in our college is of good quality and taste. Hearty con-gratulations to the editorial team.*

*It is a matter of great pleasure for me to go through the wonderful contributions made by the students. This magazine is intended to bring out the hidden literary talents in the students and the teachers and to inculcate leadership skills among them.*

*The outside world will come to know about the caliber of the students and the faculty through this magazine. I extend my thanks to all the contributors for their articles, poems and drawings.*



## DEAR READERS

- It gives us great pleasure to bring you the first issue of the college magazine of SAEC.
- The name and fame of an institute depends on the caliber and achievements of the students and teachers.
- The role of a teacher is to be a facilitator in nurturing the skills and talents of students.
- This magazine is a platform to exhibit the literary skills and innovative ideas of teachers and students.
- Magazine presents the achievements of students and contributions of teachers.
- We would like to place on record our gratitude and heartfelt thanks to all those who have contributed to make this effort a success. We profusely thank the management for giving support and encouragement and a free hand in this endeavor. Last but not the least.
- We are thankful to all the authors who have sent their articles. We truly hope that the pages that follow will make an interesting read.

## **ABOUT THE DEPARTMENT**

The Department of Electrical and Electronics Engineering was established in the year 2001-02. The department is accredited by National Board of Accreditation and was recognised as a research centre, approved by Anna University. Through our research centre, 11 research scholars completed their Ph.D programme and more than 24 candidates pursuing their research programme.

Career guidance programmes and entrepreneurship awareness programmes were carried out through the association of EEE. The department offers one Post Graduate programme viz. M.E. – Power Electronics and Drives. Looking back to the past, we recall the pride and satisfaction that the Department of Electrical and Electronics Engineering own the best department award and got the appreciation as the best team from CII. The Department is facilitated with highly qualified and committed faculty members.

Our placement records has always being very impressive, with the large number of students being placed year after year in highly reputed core companies and public sector units. Our alumni hold senior positions in industries as well as in academic institutions, both in India and abroad.

The high quality research work being pursued by the faculty and students is very evident from the large number of research papers being published in referred journals. In recognition of expertise and commitment in development of the department in developing renewable energy resources, proposal for the funded projects has been submitted.

As part of the institution academic plan and student's welfare development the department is making several plans to conduct International conference, National conference FDP, Guest lectures, seminars, Inplant training, Industrial visit and Internship training.

## **VISION AND MISSION**

### **Vision of the department**

**Conferring Excellent Technical Education with Greater Emphasis on Quality Systems, Moulding Persons for the National Development**

### **Mission of the department**

- Ø To Enhance Quality Education by Providing State-of-Art Infrastructure with Committed Faculty.**
- Ø To Provide Prerequisite Skills for the Needs of Industries, Higher Education and Research Establishments.**
- Ø To Handle Socio Economic Challenges of Society by Instilling Human Values and Ethical Responsibilities.**

## PROGRAMME EDUCATIONAL OBJECTIVES

- To practice the students to have fruitful career in Electrical and Electronics, Allied fields and stimulate them for Higher Education and Research.
- **To provide strong foundation in Basic Science, Mathematics, Circuit Theory, Field Theory, Control Theory, Signals and Systems, Power System in Electrical Power Gadgets and Basic Electronics to Power Electronics - necessary to formulate, solve and analyze Electrical and Electronics problems.**
- **To foster student cognizance for all-time learning and instill professional ethics.**
- **To adapt evolving technologies and stay contemporary with their profession.**

## PROGRAMME OUTCOMES

- Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 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.
- 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.
- Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 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.
- 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.
- Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 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.
- 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.
- Life-long learning:** Recognize the need for, and have the preparation and ability to





# Project Presentation

DATE : 19.07.23



Project presentation was organized by EEE department in association with IEEE SB and IIC on 19.07.23. Dr. G. Rohini, Professor & HoD/EEE and Dr. S. Sendil kumar, Professor and faculty members of EEE reviewed the students project. 30 students of EEE department attended the project presentation and presented their projects. Dr. L. Umasankar and Mrs. J. Megala from EEE department coordinated the entire event.

# Guest Lecture

DATE : 20.07.23



Department of EEE & IEEE SB organized a Guest Lecture on the Load flow Analysis using ETAP. Guest Lecture was delivered on 20.07.23 by Mr. A. S. Sethuraman, Executive Engineer from Power Projects, Chennai. He about the load flow analysis using various buses in power system. He also explained the modelling of power system with load flow calculation of bus quantities like real power, reactive power, and voltage and power angle. 88 students of EEE department and faculty members of EEE department attend the Guest lecture.

# Techno Quiz

DATE : 26.07.23



IEEE SB in association with Department of EEE organized Techno Quiz on 26.07.23. Technical quiz on various topics such as network analysis etc., were discussed by the IEEE SB students. 39 students of EEE department participated in the event. Dr. G. Muralikrishnan, Associate Professor, EEE Department judged the performance of the students.

# Guest Lecture

DATE : 21.07.23



The Guest lecture on INNOVATION TECHNIQUES IN SMART GRID AND MICRO GRIDS by Mr. K. SAKTHIPRASATH (MANAGING DIRECTOR, DYNAMIC CAD) arranged by EEE Department exclusively for FINAL YEAR students on 21st JULY, 2023 enclosed the techniques for sustainable environment and knowledge about the importance of energy sustainability and efficiency which was a valuable opportunity to the students for their future career.

# Internship

DATE : 19.07.23

MARIA FRANCIS.J of EEE B, 3rd Year student of EEE Department has successfully completed Online Internship on PCB SIMULATION BASICS with SURYA'S MIB DIGITAL SERVICES for the period of 15 days during the month of JULY, 2023.



# Mock Interview

DATE : 21.07.23



The Mock interview was conducted by the EEE Departments for the FINAL YEAR students on 21st JULY, 2023 where the students appeared for the interview in front of the mock HRs from MBA Department, Dr. AJAY (Professor) and Dr. SASIKALA (Professor). This event has improved the students' vision on attending an interview and prepared the students for facing the real world interviews.

# Techno Buzz!

**DATE : 04.08.23**



IEEE SB in association with Department of EEE organized Techno Quiz on 04.08.23. Technical quiz on various topic such as Circuit theory etc., were discussed by the IEEE SB students. 42 students of EEE department participated in the event. Dr. G. Muralikrishnan, Associate Professor, EEE Department judged the performance of the students.

# Electro Quiz

**DATE : 09.08.23**



IEEE SB in association with Department of EEE organized Electro Quiz on 09.08.23. Technical quiz on various topic such as Electrical Machines etc., were discussed by the IEEE SB students. 40 students of EEE department participated in the event. Dr. G. Muralikrishnan, Associate Professor, EEE Department judged the performance of the students.

# Value Added Course

DATE : 16.08.23 to 23.08.23



Value Added Course on Battery Management System was organized by EEE department in association with IEEE SB and IIC conducted on 16.08.23 – 18.08.23 & 21.08.23 – 23.08.23. Mr. Aravind, Training Executive of Dynamic CAD delivered expert lecture to faculty members of EEE and students of EEE department. Faculty members from EEE department coordinated the entire event.

# Quiz Fest

DATE : 18.08.23



IEEE SB in association with Department of EEE organized Electro Quiz on 18.08.23. Technical quiz on various topic such as Electron Device and Circuits etc., were discussed by the IEEE SB students. 44 students of EEE department participated in the event. Dr. G. Muralikrishnan, Associate Professor, EEE Department judged the performance of the students.

# Workshop

**DATE : 21.08.23 to 23.08.23**



Department of EEE & IEEE SB organized a workshop on Industrial Automation. Guest Lecture was delivered on 21.08.23-23.08.23 by Mr. R. Theerthamalai, Senior Training Coordinator from ECI Systems Private Limited – Unit III, Chennai-132. He discussed about the latest trends in industrial automation. He also explained the modelling of industrial automation including timers, relays and protection circuits in industrial automation. 88 students of EEE department and faculty members of EEE department attend the Workshop.

# Industrial Visit

**DATE : 24.08.23 & 29.08.23**



IEEE SB in association with Department of EEE organized Industrial visit on 24.08.23 & 29.08.23. Timer and relay working for industrial purpose and its automation were discussed by the IEEE SB students with industrial persons. Totally 87 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

# Guest Lecture

**DATE : 21.08.23**



The Guest lecture conducted on the topic ELECTRICAL INTRODUCTION AND PLACEMENT SECTION by Mr. SATHISH KUMAR (ECI SYSTEM PRIVATE LIMITED) on 21st AUGUST, 2023 organized for 3rd Year students by EEE Department has enlightened the students about the various placement options provided by numerous companies. The lecture also delivered the introduction to industrial automation

# IEEE Event

**DATE : 31.08.23**



IEEE Event on BUSINESS IDEAS conducted by IEEE Co-ordinator exclusively for the 3rd year students on 31th August 2023 by the EEE Department has encouraged the innovative business ideas within the technology and engineering sectors. These events provide a platform for participants to pitch their entrepreneurial concepts. Participants may receive feedback, mentorship and opportunities for collaboration. It's a great opportunity to network, refine business ideas, and potentially launch technology – based startups.



# Symposiums

DATE : 05.08.23



The 3rd YEAR EEE B students have participated in NATIONAL LEVEL TECHNICAL SYMPOSIUM presented by Department of Electrical and Electronics Engineering conducted by ST. JOSEPH COLLEGE OF ENGINEERING on 5th AUGUST, 2023 where the students have actively taken part in many events organized by the department

# Internal Hackathon

DATE : 13.08.23 & 14.08.23



The internal hackathon for SMART INDIA HACKATHON was conducted by EEE Department for the entire college level on 13th & 14th AUGUST, 2023 was a dynamic event that fostered creativity and collaboration among the students. Participants showcased their problem-solving skills and developed innovative solutions. It was a amazing event which committed to nurture young talent and driving innovation in-house

# Alumni Interaction

DATE : 21.08.23



The Notable alumnus Mr. MANOJ KUMAR (2019 – 2021 batch) from EEE Department who has placed in COGNIZANT TECHNOLOGY SOLUTIONS has interacted with current FINAL YEAR students and enlightened them about the current job opportunities and imparted knowledge on career guidance on 21st AUGUST, 2023

# Value Added Course

DATE : 11.09.23 to 25.09.23



Value Added Course on Arduino and IOT was organized by EEE department in association with IEEE SB and IIC conducted on 11.09.23 – 15.09.23 & 19.09.23 – 25.09.23 for 2<sup>nd</sup> Year Students of EEE department. Mr. Jaya Kumar, Director of I O Logix Automation, Chennai delivered expert lecture to faculty members of EEE and students of EEE department. Totally 83 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event

## Value Added Course

DATE : 11.09.23 to 25.09.23



Value Added Course on STAP and PSCAD was organized by EEE department in association with IEEE SB and IC conducted on 11.09.23 – 19.09.23 & 20.09.23 – 25.09.23 for 2<sup>nd</sup> Year Students of EEE department. Mr. S. Suriya kumar, Power system Engineer of Power Projects, Chennai delivered expert lecture to faculty members of EEE and students of EEE department. Totally 33 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

## Internal Hackathon

DATE : 13.09.23 & 14.09.23

IEEE SB in association with Department of EEE organized Internal Hackathon 2023 on 13.09.23 & 14.09.23. Solution to Problem Statements on various themes of various engineering fields such as including student innovations etc. were also presented by the IEEE SB students. 570 students of various department of the college participated in the event. The event was conducted in two slots. Dr. K. Dinakaran, Professor & HOD/AIDS, Dr. A. Antonioss, Professor & HOD/CSBS and Dr. D. Chitra Devi, Associate Professor/CSE judged the performance of the students for slot 1 includes the departments of CSE branches like CSE, AIDS, IT, AIML, CSBS. Dr. R. Radhika, Professor /ECE and Dr. S. Sendikumar, Professor / EEE judged the performance of the students for slot 2 includes the departments of other branches like ECE, EEE, Mechanical, and Civil Engineering. Dr. G. Muralikrishnan, Associate Professor, EEE Department co-ordinated the entire event.



# Industrial Visit

DATE : 26.09.23 & 27.09.23



IEEE SB in association with Department of EEE organized Industrial visit on 26.09.23 & 27.09.23 to NPTS, Attipattu. Timer and relay Circuit breakers working for industrial purpose and its automation were field visited by the IEEE SB students with industrial experts in NPTS. Totally 83 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

# Symposium

DATE : 19.09.23



The 3rd Year EEE B students have actively participated in HACKERZ- NATIONAL LEVEL TECHNICAL SYMPOSIUM conducted by The Department of Computer Science and Engineering at CHENNAI INSTITUTE OF TECHNOLOGY on 19th SEPTEMBER, 2023.

# IEEE Awareness Program

**DATE : 07.10.23**



IEEE Day (IEEE Awareness Programme) was organized by EEE department in association with IEEE SB conducted on 07.10.23 for 2<sup>nd</sup> Year and 3<sup>rd</sup> Year Students of EEE department. Mr. M. Arun, Chairman, IEEE Madras Young Professional, Madras Section enlighten the awareness about IEEE in terms of benefits and societies in terms to faculty members of EEE and students of EEE department. Totally 141 students of EEE department participated.

## Guest Lecture

**DATE : 17.10.23**



Guest Lecture on Electromagnetic Theory was organized by EEE department in association with IEEE SB on 17.10.23 for 2<sup>nd</sup> Year Students of EEE department. Dr., S. Rama Reddy, Dean-Electrical Science, Rajalakshmi Engineering College, Chennai delivered expert lecture to faculty members of EEE and students of EEE department with real time examples. Totally 83 students of EEE department participated in the event. Faculty members from

# Guest Lecture

**DATE : 18.10.23**



Guest Lecture on challenges and opportunities in Smart Grid Technologies was organized by EEE department in association with IEEE SB on 18.10.23 for 3<sup>rd</sup> and 4<sup>th</sup> Year Students of EEE department. Dr., K Vijaya kumar, Associate Professor, IITDM, Kanchipuram delivered expert lecture to faculty members of EEE and students of EEE department. Totally 120 students of EEE department participated in the event. Faculty members from EEE

# IEEE Xtreme Event

**DATE : 28.10.23**



IEEE SB in association with Department of EEE attended IEEE Xtreme Challenge event on 28.10.23 in online. Students Volunteers of IEEE SB attended the event and Faculty members with IEEE membership acted as proctor for the event. Totally 90 students of EEE department and IEEE SB participated in the event. Faculty members from EEE department coordinated the entire event.

# Club Activities

DATE : 25.10.23

EEE Department has excitedly launched the PROJECT EXPO CLUB on 25th OCTOBER, 2023 inaugurated by DR.S RAMACHANDRAN (Principal) and Dr.G.RDHINI (Head of EEE Department) which was coordinated by Dr.S BHUVANESWARI (Associate Professor) and Dr.R.MAHESHWARAN (Associate Professor) where the students can gain the importance of Innovation, creativity and collaborations through project expos. The club also develops the insights of the students in project development and teamwork



**S.A. Engineering College**  
An Autonomous Institution Affiliated to Anna University, Chennai  
ACCREDITED TO NBA, KJ Somaiya UGC & TUV SUDAS (UK) CERTIFIED INSTITUTION



Department of EEE  
Inaugurated

PROJECT EXPO CLUB

COORDINATORS: Dr. S. Bhuvaneshwari & Dr. R. Maheshwari      DATE: 25.10.2023



# Online Certification

DATE : 27.10.23

**Elite**  
**NPTEL Online Certification**  
Awarded by the NPTEL Inst. of IITM  
This certificate is awarded to  
**RAJAVINI S.**  
for successfully completing the course  
Accreditation and Outcome Based Learning  
with a certified score of **85 %**  
Online Assignments: 22/2000    Practical Exam: 11/2000  
Total number of candidates certified in this course: 1000  
Aug 2023  
27 Oct 2023

**Elite**  
**NPTEL Online Certification**  
Awarded by the NPTEL Inst. of IITM  
This certificate is awarded to  
**SATHYA S.**  
for successfully completing the course  
Accreditation and Outcome Based Learning  
with a certified score of **89 %**  
Online Assignments: 21/2000    Practical Exam: 09/2000  
Total number of candidates certified in this course: 1000  
Aug 2023  
27 Oct 2023

Our EEE Department faculties Mrs.N.RAJAVINU (Assistant Professor) and Mrs. S. SATHYA (Assistant Professor) have been awarded for successfully completing the NPTEL course ACCREDITATION AND OUTCOME BASED LEARNING scored among the top 2% and 5% which reinforces a culture of learning and growth amid the students

# Symposium

**DATE : 18.10.23**

Our 2nd YEAR students of EEE Department G.R.Ajay Kumar, B.Gokulnath, V.Gowtham, I. Hermon, D.G. Krishna Kumar have participated in the paper presentation at ONE DAY NATIONAL LEVEL TECHNICAL SYMPOSIUM TECTRIX-2023 organized by Department of Information Security, Institute of Computer Science and Engineering, SIMATS Engineering on 18th OCTOBER, 2023.



# Sports Achievement

**DATE : 09.10.23**



Our EEE Department Student B. Vikas Raj of 2nd Year has secured first place in ANNA UNIVERSITY ZONE-1 Table Tennis on 9th OCTOBER, 2023 and also in OPEN TABLE TENNIS TOURNAMENT (open singles event) in Vellore district on 23rd OCTOBER, 2023



# Technical Symposium-EXURO'23

DATE : 09.11.23



Technical symposium Exuro 23 was organized by EEE department in association with IEEE SB conducted on 09.11.23 for students of other Colleges with active involvement of IEEE 'SB'. Dr. G. Rohini, IEEE Student Branch Counselor, S.A. Engineering College enlighten the Technical and Non-technical events for students activities in terms of technical and Non-technical. Totally 300 students of other institutions and EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

## Poster Presentation

DATE : 21.11.23



Poster Presentation of Ideas-Start Up was organized by EEE department in association with IEEE SB on 21.11.23 for 2nd Year Students of EEE department to trigger their innovative ideas. Dr. G. Rohini, Professor & HOD of EEE, S.A. Engineering College, Chennai delivered expert talk about the Start Up activities by the students and Alumni. Students presented their ideas about the Start Up activities with real time applications. Totally 83 students of EEE department participated in the event. Dr. G. Murahikrishnan, Associate Professor EEE and Faculty members from EEE department coordinated the entire event.

# Sports Achievement

**DATE : 30.11.23**

Our EEE Department Student B. SRIDEVI of 3rd Year has secured Third place as a team in BASKETBALL on 2nd – 3rd NOVEMBER, 2023 and Second place in LONG JUMP on 29th – 30th NOVEMBER, 2023 at ANNA UNIVERSITY ZONAL TOURNAMENTS 2022- 2023 held at G. R. T. ENGINEERING COLLEGE



# Campus Drive

**DATE : 24.11.23**



Our EEE Department has conducted campus drive by KONARD TECHNOLOGIES for final year students on 24th NOVEMBER, 2023 which benefitted students and facilitated the career of graduates with new work opportunities and candidates are selected who are suitable for the current job roles without any biased behavior.

# Conference Publication

**DATE : 30.11.23**

**Mr. R. Kamalakannan**, Assistant Professor, EEE Department has published paper on "**Environmental Impacts and Remediation in Soil Analysis Techniques**" at ICSCNA – 2023 on NOVEMBER, 2023

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DATE : 18.12.23

DAY : 1



Dr. S. Ramachandran, Principal and Dr. G. Rohini, HOD/EEE & IEEE Student Branch Counselor, Dr. S. Koteswaran, HOD/AIML of S.A. Engineering College enlighten the FDP along with Chief guest of honour Dr. Mahesh kumar, Dr. R. Sarathi, Dr. R. Jayaganthan, Professors from IIT Madras . Totally 100 faculty of our institutions and other institutions participated in the FDP. Faculty members from EEE & AIML department coordinated the entire event. Morning 3 Sessions were handled by the above mentioned Professors from IIT, Madras. Session 4 was handled by Dr. Jagadeesh Kakarla, Professor, IIITDM, Kancheepuram.

DATE : 19.12.23

DAY : 2



On Day 2, Session 5 was handled by Mr. L. Sivaraman, Vice president, Advanced sustainable Products, Chennai on the topic "Electric Vehicle – Drive Train concepts". Session 6 was handled by Mr. V. Dinesh Kumar, Manager – Software Division, Advanced sustainable Products, Chennai on the topic "Autonomy-Computer Vision Systems". Session 7 was handled by Dr. Ram Prasad Padhy, Assistant Professor, IIITDM, Kancheepuram on the topic "AI and Computer Vision for Self-driving Cars". Totally 100 faculty of our institutions and other institutions participated in the FDP. Faculty members from EEE & AIML department coordinated the entire event.

**DATE : 20.12.23**

**DAY : 3**



On Day 3, Session 8 & 9 was handled by Ms. P. Keerthi Reddy, Associate –Learning at Infosys, Mahindra World City, Chennai on the topic “AI, ML Algorithm & Overview of Gen AI”. Session 10 was handled by Mr. G. Antony Roy, Consultant, Infosys, Mahindra World City, Chennai on the topic “Case Studies and Industrial Applications using AI&ML”. Totally 100 faculty of our institutions and other institutions participated in the FDP. Faculty members from EEE & AIML department coordinated the entire event.

**DATE : 21.12.23**

**DAY : 4**



On Day 4, Session 11, 12, 13 were conducted as an industrial visit was handled by Ms. Aparna, and Mr. Shankar, Innovation Trainer, Advanced sustainable Products, Chennai to L & T Technology Services Private Limited, Manspakkam, Chennai. Industrial Visit includes visit to Innovation lab, Cyber Defence system, Network Security system. Totally 100 faculty of our institutions and other institutions participated in the FDP. Faculty members from EEE & AIML department coordinated the entire event.

**DATE : 21.12.23**

**DAY : 5**



On Day 5, Session 14 was handled by Dr. N. Kumarappan, Professor (R&D), Annamalai University, Chidambaram on the topic "Intelligence Unit Commitment with Electric Vehicle to Grid using Hybrid Optimization Technique". Session 15 was handled by Dr. V. Masilamani, HOD/CSE, IIITDM, Kancheepuram on the topic "Object Detection for Autonomous Vehicles". Session 16 was handled by Dr. S. Radha, Vice Principal, SSNCE, Chennai & Dr. S. Aasha Nandhini, Assistant Professor, SSNCE, Chennai on the topic "The Role of Embedded Artificial Intelligence in Smart Electric Vehicles". Totally 100 faculty of our institutions and other institutions participated in the FDP. Faculty members from EEE & AIML department coordinated the entire event. Dr. S. Radha, Vice Principal, SSNCE, Chennai and Trustee of IEEE Madras Section Facilitated the valedictory Function of the FDP by distributing the certificates to the participants.

# National Youth Day

DATE : 12.01.24



National Youth Day was organized by EEE department in association with IEEE SB conducted on 12.01.24 for students with active involvement of IEEE SB. Dr. G. Rohini, IEEE Student Branch Counselor, S.A. Engineering College enlighten the Technical presentation for students activities in terms of technical and innovative thinking. Totally 83 students of the institutions and EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

# Guest Lecture

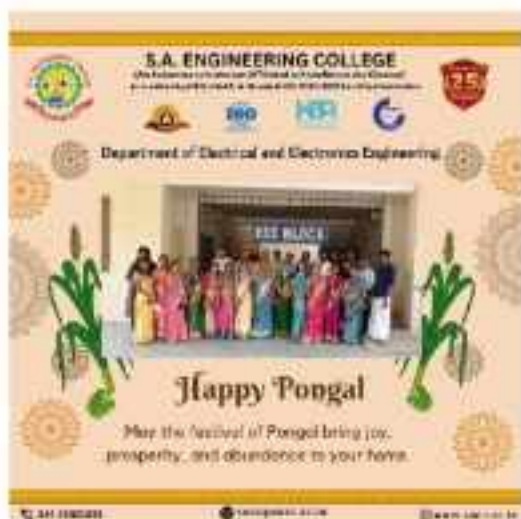
DATE : 30.01.24



Guest Lecture on Power System operation and control was organized by EEE department in association with IEEE SB on 30.01.24 for 3rd Year Students of EEE department. Dr., P. Somasundaram, Professor, Department of Electrical and Electronics Engineering, College of Engineering, Guindy, Anna University, Chennai delivered expert lecture to faculty members of EEE and students of EEE department with real time examples. Totally 87 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

# Pongal Celebration

DATE : 12.01.24



We are thrilled to share some exciting news that fills our hearts with joy and pride as the PONGAL CELEBRATION conducted on 12th JANUARY, 2024 where our EEE department emerged the victory in the Pongal Competition and Kollam Competition. It was a celebration of creativity, teamwork, and the vibrant spirit of our community.



# Alumni Meet

**DATE : 26.01.24**

The 20th ALUMNI MEET organized by EEE Department which was conducted on 26th JANUARY, 2024 which was a reunion of old friends and a celebration of shared memories. It was an unforgettable event filled with networking opportunities, success stories, and created a chance to reconnect with the alma matter. Hearing inspiring stories from fellow alumni who have made significant strides in their respective fields inspired the students to achieve further in future.



The poster for the SAEC 20th Alumni Meet 2024 features the Indian national flag and the Ashoka Chakra. It includes the college's name, accreditation details, and the event date. A clock icon indicates the start time at 10:00 AM.

**S.A. ENGINEERING COLLEGE, CHENNAI-77**  
(An Autonomous Institution, Affiliated to Anna University)  
Approved by AICTE  
Accredited by NBA, NAAC with 'A' Grade & ISO 9001:2015 Certified Institution  
Poonamallee - Avadi Road, Thiruvetkuru, Chennai - 600 077

**25th** Anniversary

**26<sup>th</sup> January 2024**

**SAEC**  
**ALUMNI ASSOCIATION**  
**20<sup>th</sup> ALUMNI MEET**

10:00AM

# Symposium

**DATE : 25.01.24**



Our EEE department students of 3rd Year have participated in the NATIONAL LEVEL TECHNICAL SYMPOSIUM ELECTROWIZ'24 organized by VELAMMAL ENGINEERING COLLEGE conducted on 25th JANUARY, 2024 where the students displayed their presentation and made their mark in symposium stage.



# Internship

**DATE : 12.01.24**



We are delighted to share the success stories of our talented 3rd Year students R. Roshan Maharajan, N. Ramana Krishnan, J. Prasanth, S. Janani, S. Lekha of EEE Department participated in the IOT internship organized by MINISTRY OF MICRO, SMALL AND MEDIUM ENTERPRISES (MSME) at Guindy from 8th JANUARY, 2024 to 12th FEBRUARY, 2024. This hands-on experience provided them with a unique opportunity to delve into the world of cutting-edge technology and their achievement's during this internship are truly noteworthy

# Outside Interaction

**DATE : 30.01.24**

Our EEE Department students of 3rd Year have attended the 2 days session on LEADERSHIP THROUGH ENTREPRENEURSHIP by ANTONY FIRMIN ALEXANDER (Training Consultant, MSME) where the student gained the insights on entrepreneurship and the ways of managing a business venture with the aim of achieving financial success by fulfilling personal and professional goals.



# Industrial Visit

DATE : 31.01.24



Our EEE Department has organized an Industrial visit for 3rd Year students on 29th JANUARY and 31st JANUARY, 2024 to INDIAN INSTITUTE OF TECHNOLOGY (IIT Madras) where the students visited the institute's High voltage engineering lab, IOT lab and Power electronics lab. It helped the students to gain insights on various top graded electrical equipment.

# Conference Publications

DATE : 11.01.24 to 13.01.24

**Ms. S. Sathya**, Assistant professor, EEE Department, has published the paper "**Neuro AI-Driven Advanced Deep Brain Stimulation for Precision Management of Movement Disorders**" at the conference ICACRS – 2023 on 11th – 13th DEC, 2023.

# Journal Publications

DATE : 11.01.24 & 13.01.24

**Mr. Sathish Kumar**, Assistant Professor, EEE Department has published paper on "**Machine Learning Algorithm Based Decision Support Made for Diabetes**" on 11th JANUARY, 2023.

**Ms. S. Sathya**, Assistant professor, EEE Department, has published the paper "**Neuro AI-Driven Advanced Deep Brain Stimulation for Precision Management of Movement Disorders**" at the conference ICACRS – 2023 on 11th – 13th DEC, 2023.

# Guest Lecture

DATE : 09.02.24



Guest Lecture on Start Up Awareness was organized by EEE department in association with IEEE SB on 09.02.24 for 3rd and 4th Year Students of EEE department. Mr., P. Hemanth Kumar, Assistant Operations Manager, Autometer Railway Alliance Limited, Delhi delivered expert lecture to faculty members of EEE and students of EEE department with real time examples on Start Up. Totally 87 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

# Workshop

DATE : 13.02.24



Department of EEE & IEEE SB organized a workshop on Thinking Inside the Bigger Box. Guest Lecture was delivered on 13.02.24 by Dr. Chockalingam Aravind Vathilingam, Associate Professor, School of Engineering, Faculty of Innovation & Technology, Taylor's University, Malaysia. He discussed about the latest trends in Design Thinking, Critical Thinking and Innovation Design. 87 students of EEE department and faculty members of EEE department attend the Workshop

# Industrial Visit

**DATE : 12.02.24 & 13.02.24**



IEEE SB in association with Department of EEE organized Industrial visit on 12.02.24 & 13.02.24. High Voltage testing and its automation were discussed by the IEEE SB students with IIT technical Persons. Totally 87 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

# Industrial Visit

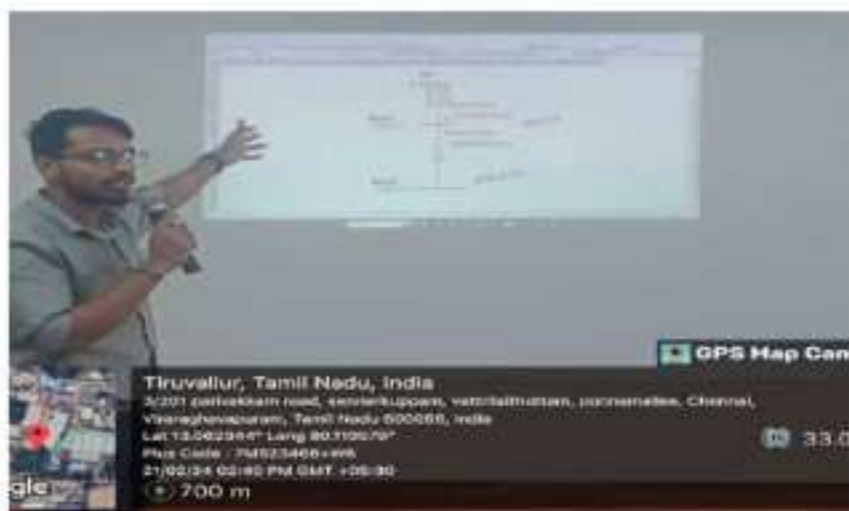
**DATE : 13.02.24 & 14.02.24**



IEEE SB in association with Department of EEE organized Industrial visit on 13.02.24 & 14.02.24. Circuit Breakers, relays, Current Transformers, Potential Transformers and its automation (coordination) were discussed by the IEEE SB students with Industrial Person. Mr. Madhan, Assistant Engineer, TANTRANSCO explained and delivered the expert talk about the substation and its importance. Totally 83 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

# Guest Lecture

DATE : 21.02.24



Guest Lecture on Transmission Line and Cable modelling using ETAP was organized by EEE department in association with IEEE SB on 21.02.24 for 2nd Year Students of EEE department. Mr., K. Paramanandan, Power System Engineer, Power Projects, Chennai delivered expert lecture to faculty members of EEE and students of EEE department with real time examples using ETAP. Totally 83 students of EEE department participated in the event. Faculty members from EEE department coordinated the entire event.

# Poster Presentation

DATE : 21.02.24



Our EEE Department students of 3rd Year have attended the 2 days session on LEADERSHIP THROUGH ENTREPRENEURSHIP by ANTONY FIRMIN ALEXANDER (Training Consultant, MSME) where the student gained the insights on entrepreneurship and the ways of managing a business venture with the aim of achieving financial success by fulfilling personal and professional goals.











