



SAKTHI POLYTECHNIC COLLEGE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NEWS LETTER



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DEPARTMENT VISION

➤ To stand out in imparting knowledge and skills in the field of Electrical and Electronics Engineering to transform Young aspirants into eminent Engineers.

DEPARTMENT MISSION

- 1.To create an environment that facilitates effective learning for the students.
- 2.To encourage the students to do innovative projects to bridge the curricular gaps.
- 3.To Provide adequate facilities & opportunities for the students to develop their social and interpersonal skills.
- 4.To encourage the faculty to attend staff development programs for enhancing their knowledge on the recent developments in the field of Electrical & Electronics Engineering and subsequent dissemination to the students.

EDITORIAL BOARD

1. Mr.S.Sakthivel - HOD i/c
2. Mr.V.Velu - Lecturer(Sr.Gr)
3. Mr.M.Yuvarasu - Lecturer
4. A.Saigokul - III EEE
5. M.Ravindar - II EEE
6. K.karthika - I EEE

ஆசிரியர் உரை

வெற்றி என்பது ஒரே நாளில் கிடைப்பதல்ல; தொடர்ச்சியான கற்றல், தோல்விகளில் இருந்து பாடம் கற்றுக்கொள்ளும் மனப்பக்குவம் மற்றும் இலக்கை நோக்கி அயராது பயணிக்கும் உறுதியின் பலனாகும். "நம்மால் முடியும்" என்ற நம்பிக்கையுடன் ஒவ்வொரு நாளையும் தொடங்குங்கள். அறிவைப் பகிருங்கள், புதிய சிந்தனைகளை உருவாக்குங்கள், சமூகத்திற்கு பயனுள்ள பொறியாளர்களாக வளருங்கள்.

"கனவுகாணுங்கள்...
கற்றுக்கொள்ளுங்கள்...முயற்சி
செய்யுங்கள்...சாதித்துக்
காட்டுங்கள்...!"



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Since 1981

Department News Letter

For the Academic year 2025-2026-ODD Semester

With blessings from our founder

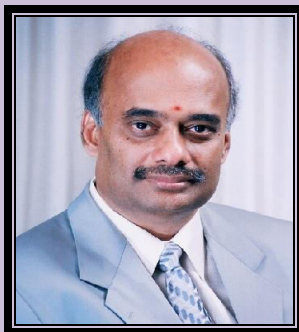


Padma Bhushan

Arutselvar Dr. N. MAHALINGAM, B.Sc., F.I.E.

Founder – Sakthi Polytechnic College.

Arutselvar DR. N. MAHALINGAM a legendary Gandhian by principle, a patriotic and proud son of the soil, Dr. N. MAHALINGAM was a man of pious living. His exemplary social contributions in numerous fields of socio-economic spectrum have benefited scores of institutions and individuals inspired by him during his long career. The government of India duly recognized his meritorious deeds and honored him with the prestigious Civilian Award - PADMA BHUSHAN. Dr. N. Mahalingam is also a recipient of many awards and titles conferred upon him by various educational, social and cultural institutions. As an industrialist he has several important positions and has played major roles fostering the development of agricultural, industrial, human resource and institutional development at the State and National levels. He is the Pioneer of sugar industry. He has rendered notable literary contributions. His social and humanitarian considerations took his journey beyond the boundaries of industries and scholarly tents he nurtured.



CHAIRMAN

Dr. M. MANICKAM, M.sc., M.B.A.

Dr. M. Manickam, the eldest son of Arutchelvar Dr N Mahalingam, is an industrialist, educationalist and an outstanding administrator with an M.B.A from the University of Michigan, U.S.A. He is the chairman of NIA educational institutions and Vice- Chairman of Sakthi Sugars. Under his capable guidance and stewardship, Sakthi Sugar Mills has expanded and set-up institutions in many places. Through his constant efforts, Sakthi Auto Components Ltd has modernized and expanded. He had been the President of the "All India Sugar Manufacturers Association" and currently he is the President of Indian Sugar Technologists Association. He was awarded an Honorary Doctorate Degree by Tamil Nadu Agricultural University. He evinces keen interest in the development of Good Infrastructure in the technical institute.



CORRESPONDENT

THIRU.G MUNIASAMY, B.TECH., MBA

Sakthi Polytechnic College is an Institution with a difference, started with the mission of providing quality technical education to rural youth at affordable cost. It is the vision of our beloved Founder Chairman Arutchelvar Dr. N Mahalingam, to empower the rural youth with technical knowledge and skills to train them as the most suited manpower to meet the needs and demands of the growing industrial scenario. We ensure that with the vast potentials for growth and avenues for development, Sakthi Polytechnic College will enhance the capabilities and nurture the latent talents of youth to emerge as entrepreneurs rather than job seekers.



PRINCIPAL
Dr.S.SENTHILARASU M.E.,Ph.D.,MISTE.,
PRINCIPAL (IN-CHARGE)

Technology is the need of the hour. In this era of Globalization when there is a need for an enormous number of technically qualified personnel, Polytechnics play a vital role in supplying the Industries, the inputs of their choice. Keeping this in mind our beloved Founder Arutselvar Padma Bhusan Dr N. Mahalinam established Sakthi Polytechnic College with a foresight and vision in this predominantly rural and agricultural area of Sakthi Nagar. The main aim of this Institution is to bring technical education within the reach of the rural youth. We ensure that our Institution with its excellent infrastructure, well qualified staff and conducive atmosphere for learning will go a long way in motivating the rural students to become leaders of technology in future. With Sakthi to lead them, Technical Education is no longer a distant dream for rural youth but very much a reality within their reach.



DIRECTOR
DR. K.R MUTHUSWAMY M.E., Ph.D.,

“A desire can change nothing, a decision can change something but a determination can change everything”. It gives me immense pleasure to welcome you all to Sakthi Polytechnic College, an eco-friendly campus that strives with a goal to attain excellence by empowering students with sound knowledge, wisdom and experience. Our strength lies in creating pleasant ambience with an excellent infrastructure, qualified and experienced faculty, commitment to personal care, motivation to excel in academic/extracurricular activities and continuous interaction with industry.

Over the past 41 years, the college has witnessed a strong blend of state-of-the-art infrastructure and dedicated human resource committed to provide professional education with thrust on creativity and innovation. The motivating environment in SPC for knowledge assimilation, generation and dissemination with a sense of social responsibility, human values and concern for environment has carved a niche for itself among the best technical Institutes.



Dr.S.CHITRA M.E., Ph.D.,MISTE.,
Lecturer (Sel.Gr II) / HOD I/c

We all are well aware of the fact that Electricity plays a pivotal role in the development of all industries which is an indicator of the prosperity of the nation. Hence the field of Electrical Engineering has become a significant branch of Engineering. Our department was established in the year 1981 and since then has produced so many successful engineers and entrepreneurs. The students of our department have secured state ranks many times and every year almost 95% of our students achieve I class & honors. This shows the commitment & dedication of our staff members in molding the careers of the students. We have well qualified staff members with vast experience (well over 25 years). The Non-teaching staffs (Technical Assistants) are equally experienced and knowledgeable to ably guide the students in their practical sessions. We have fully equipped Laboratories which will match those of even engineering colleges with meticulously planned layout & plenty of demonstration boards. Our labs stand out amidst those of plenty of polytechnics due to the erection of working models which can be normally found only in industries. Our department was awarded a grant of Rs 5 Lakhs by Government of India through MODROBS Scheme for setting up a separate CAD Centre for departmental utility. Besides offering Quality education to the students we offer Consultancy Services to the neighboring industries. We conduct exhibitions at periodical intervals on “Awareness on Electrical Safety& Energy Conservation” for general public. Vocational courses on “Servicing of Domestic Appliances” are conducted by us for the students of other branches

OUR FACULTIES

S.No	Name of the Faculty	Designation
1	Dr.S.CHITRA M.E. Ph.D., MISTE.,	Lecturer (Sel.Gr II) / HOD I/c.
2	Mr. S. SAKTHIVEL B.E. MISTE.	Lecturer (Sel.Gr I)
3	Mrs. S. KASTHURI B.E., MISTE.,	Lecturer (Sel.Gr I)
4	Mr. V. VELU M.E.,	Lecturer (Sr.Gr)
5	Mr. M. YUVARASU M.E.,	Lecturer
6	Mr. R.S. KRISHNAMURTHY I.T.I.,	Workshop Instructor
7	Mr. P. VELUSAMY I.T.I.,	Skilled Asst (Sel.Gr.)
8	Mr. P. PALANISAMY I.T.I.,	Lab Asst.

ACTIVITIES

During the academic year 2025-2026-odd semester we have conducted the following activities.

1. Forum Meeting
2. BIS-EEE Club Industrial visit
3. Induction Program
4. Industrial Visit
5. Parents Teachers Meeting
6. Naan Mudhalvan Course

1.FORUM MEETING

S. Sudharshan and P. Elango, alumni of 2000 passed out batch of the Electrical and Electronics Engineering department, delivered guest lecture on the topic of “Employability Skills” on 26.06.2025. They strongly encouraged students to focus not only on academic knowledge but also on key employability skills. Communication, teamwork, problem-solving, and hands-on technical expertise were emphasized as crucial for career success. They advised students to embrace internships, seek industry exposure, and engage in project-based learning. Building confidence and staying updated with current technologies, they said, will help students stand out in today’s competitive job market.



Delivered Guest Lecture On The Topic Of “Employability Skills”

2.BIS-EEE CLUB (7827) LOCAL INDUSTRIAL VISIT

Local Visit for 25 Students from Third Year Electrical and Electronics Engineering was arranged By Bureau of Indian Standard (BIS) which is the Indian National Standard Body, at V GUARD INDUSTRIES, Perundurai on July 10th 2025. High Quality Solar Water Heater and Induction stoves are manufactured in this plant. Mr.M.Yuvarasu & Mr.R.S.Krishnamurthy, staff members from Sakthi Polytechnic College and Mr. Vijaybalasundar Resource Person from BIS, Coimbatore accompanied the Third year Electrical and Electronic Engineering students. We, BIS 7827 are felt much grateful to the organizers of BIS, Coimbatore. We extend our thanks to our beloved Director, The principal, Staff members of Electrical and Electronics for granting permission for this visit. The students gained invaluable industrial exposure and awareness on the importance of Standards in their daily consumables.



BIS Industrial Visit to V Guard Industries, Perundurai

3. ALUMNI INTERACTION AND INDUCTION PROGRAMME

The Department of Electrical and Electronics Engineering organized a special Alumni Interaction and Induction Programme for second- and third-year students on 29.07.2025. The session was led by the department's distinguished alumni M. Iniyavan, K.T. Velamuthan, and P. Ganesh from the 2022–2025 batch, who shared their valuable experiences and career journeys with the students.

The primary objective of the programme was to bridge the gap between academic learning and real-world applications by providing firsthand insights into industry practices and higher education opportunities. The alumni emphasized the importance of building a strong foundation in core subjects, enhancing technical and soft skills, actively participating in internships, and undertaking project-based learning to improve employability and career prospects. They also shared practical strategies for career planning, higher studies, and adapting to professional work environments.



Alumni Interaction And Induction Programme For Second- And Third-Year Students

4.INDUSTRIAL VISITS

The Department of Electrical and Electronics Engineering organized an Industrial Visit for the third-year EEE students to MARICO Limited, SIPCOT Industrial Campus, Perundurai, on 30.07.2025. The visit was arranged with the objective of providing students with practical exposure to industrial processes and enhancing their understanding of electrical systems used in modern manufacturing industries.

During the visit, the students gained valuable insights into the coconut oil manufacturing process, from raw material handling to processing, quality control, packaging, and storage. They also had the opportunity to observe the functioning of various electrical machines, motors, control panels, distribution systems, and automation practices employed in the production facility. The industry experts explained the importance of preventive maintenance, safety standards, energy-efficient operations, and the role of electrical engineers in ensuring uninterrupted industrial production.

The visit effectively bridged the gap between theoretical knowledge and industrial practice, enabling students to better understand real-time applications of concepts learned in the classroom. The Department of Electrical and Electronics Engineering sincerely expresses its gratitude to the Management and staff of MARICO Limited, SIPCOT Campus, Perundurai, for their warm hospitality and for providing this valuable learning opportunity to our students.



Industrial visit to Marico Ltd,Perunduari

5.PARENTS-TEACHERS MEETING

The Parents-Teachers Meet for II and III Year students of the Department of Electrical and Electronics Engineering was conducted on 23rd September 2025 in the department E6 Lab. The meeting began with a warm welcome address by the Head of the Department, who emphasized the importance of parent-teacher collaboration in shaping students' academic success and professional growth.



Parents-Teachers Meet for II And III Year Students

7.NAAN MUDHALVAN PROGRAMME

Under the Naan Mudhalvan Programme, the II Year students of the Department of Electrical and Electronics Engineering successfully completed an 80-hour Advanced Skill Certification Course on “IoT and Its Applications.”

The course was designed to enhance students’ practical knowledge and industry-oriented skills in the field of the Internet of Things. It covered key concepts such as IoT architecture, sensors and actuators, embedded systems, cloud integration, data monitoring, and real-time applications.

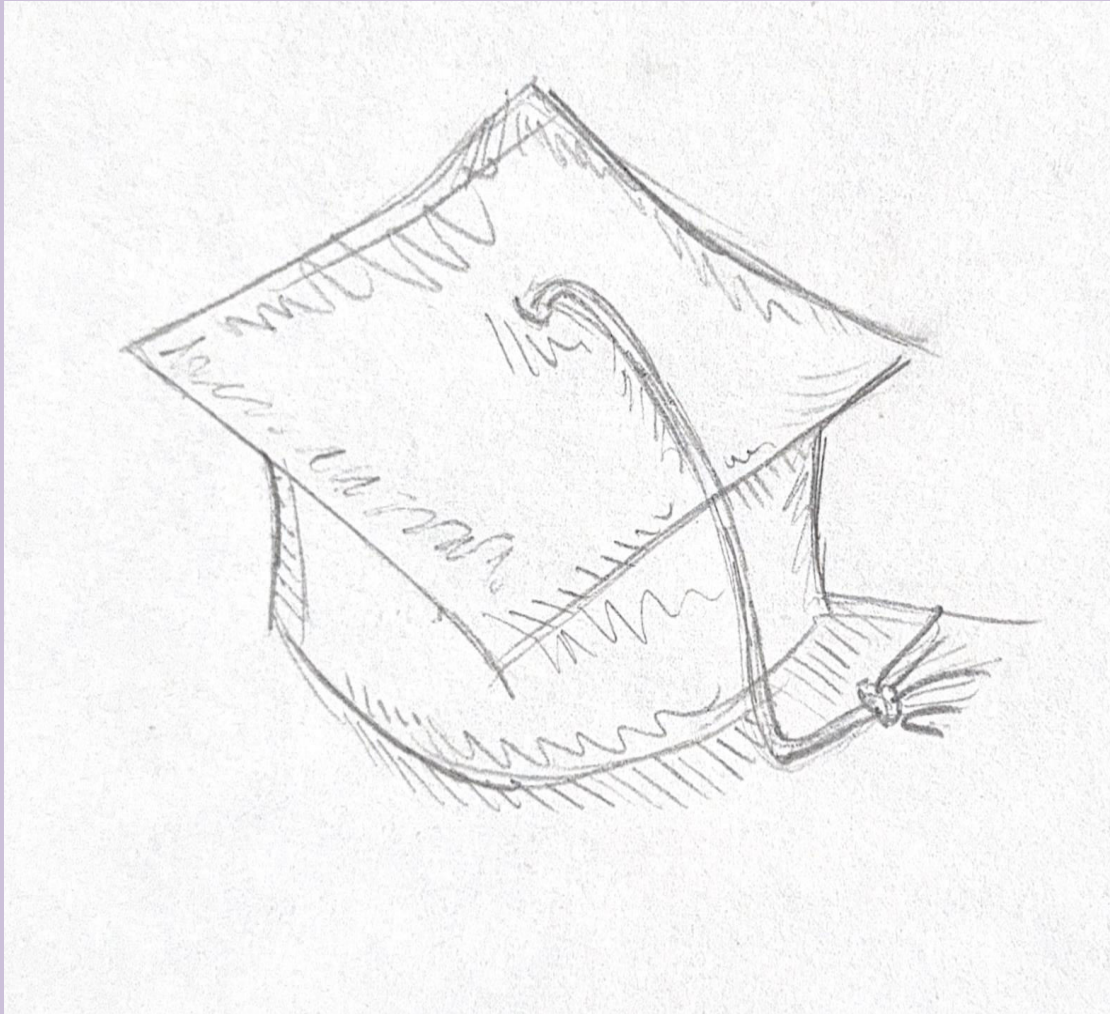
Students actively participated in hands-on training sessions, project development, and practical demonstrations. The training enabled them to design and implement IoT-based solutions in areas such as smart homes, industrial automation, environmental monitoring, and smart energy management.

The successful completion of this course has strengthened the technical competencies of the students and prepared them to meet current industry demands.



Naan Mudhalvan- IoT and Its Applications Course for Second year Students

8.STUDENTS ACTIVITIES



-Artwork by T.SARAVANAN (III-EEE)



-Artwork by YANISH ROBERT S (II-EEE)

முயற்சி

முயற்சி தான் மனிதனை மாற்றும்,
முடியாது என்பதை முறியடிக்கும்.

தோல்வி வந்தாலும் தளராதே,
தொடர்ந்து செல் – வெற்றி நிச்சயம்.

இன்று உழைத்தால் நாளை உயர்வாய்,
இலக்கு நோக்கி நடப்போம் உறுதி!

-Written by Sangavi (III-EEE)

தொழில் நுட்பம்

தொழில் நுட்பம் உலகை மாற்றும்,
தெரிவு செய்து செயல்பட கற்றுக் கொடுக்கும்.

அறிவு + திறமை + உழைப்பு = வெற்றி,
புதிய சிந்தனை தான் புதிய உலகை படைக்கும்.

கற்போம், உருவாக்குவோம்,
நாளை நாமே வழிகாட்டுவோம்!

-Written by Saigokul (III-EEE)

ARTIFICIAL INTELLIGENCE (AI) IN ELECTRICAL ENGINEERING

Artificial Intelligence (AI) is one of the most significant technological advancements transforming the field of Electrical Engineering. AI enables machines and electrical systems to learn from data, make intelligent decisions, and perform tasks with minimal human intervention. Today, AI is widely used in power generation, transmission, distribution, industrial automation, renewable energy, and electric vehicles.

One of the major applications of AI is predictive maintenance. Instead of waiting for electrical equipment such as transformers, motors, and generators to fail, AI continuously analyzes sensor data to identify early signs of faults. This helps industries reduce downtime, improve equipment reliability, and lower maintenance costs.

AI is also playing a vital role in smart power grids. Intelligent algorithms monitor electricity demand, predict power consumption, and automatically balance the supply of electricity. This improves energy efficiency, reduces power losses, and ensures a reliable electricity supply. AI also helps integrate renewable energy sources such as solar and wind power into the electrical grid by forecasting energy generation based on weather conditions.

In industrial automation, AI is combined with the Internet of Things (IoT) to create intelligent manufacturing systems. Sensors collect real-time data from machines, while AI analyzes the information to optimize production, detect abnormalities, and improve operational efficiency. This technology is widely adopted in modern industries under the concept of Industry 4.0.

As AI continues to evolve, its role in Electrical Engineering will become even more important. Future engineers must develop knowledge in AI, data analytics, automation, and intelligent control systems to meet the growing demands of smart industries and sustainable energy solutions. AI is not replacing electrical engineers—it is providing them with powerful tools to design safer, smarter, and more efficient electrical systems for the future.

-Article by V.Velu, Lecturer-EEE

Department of Electrical and Electronics Engineering,
Sakthi Polytechnic College
Nachimuthupuram, Sakthinagar,
Anthiyur(T.K),
Erode (DT)- 638 315,
Tamil Nadu.