



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. Dr.S.Chitra - HOD i/c
2. Mr.V.Velu - Lecturer(Sr.Gr)
3. Mr.M.Yuvarasu - Lecturer
- 4.K.K.Brindha - III EEE
5. G.Dhamodharan - II EEE
- 6.P.G.Saranya - I EEE

ஆசிரியர் உரை

**"உழைப்பு, ஒழுக்கம், தன்னம்பிக்கை
- வெற்றியின் மூன்று தூண்கள்."**

வெற்றி என்பது ஒரே நாளில் கிடைப்பதல்ல; தொடர்ந்து கற்றல், கடின உழைப்பு மற்றும் விடாமுயற்சியின் பலனாகும். இன்று எங்கள் மாணவர்கள் முன்னணி நிறுவனங்களில் வேலைவாய்ப்பு பெற்றிருப்பது பெருமைக்குரிய சாதனையாகும். இந்த வெற்றியை ஊக்கமாகக் கொண்டு, ஒவ்வொரு மாணவரும் தங்களின் திறமைகளை மேம்படுத்தி, உயர்ந்த இலக்குகளை அடைய முயற்சி செய்ய வேண்டும்.

**"கனவு காணுங்கள்... முயற்சி
செய்யுங்கள்... வெற்றியை
அடையுங்கள்!"**

ACTIVITIES

During the academic year 2023-2024 we have conducted the following activities.

1. BIS- Writing Competition
2. Nal Jal Mitra-Skill based Training Programme
3. Industrial visits.
4. Symposium
5. Placement
6. Students Activities

INDUSTRIAL VISIT

The Department of Electrical and Electronics Engineering (EEE) organized an industrial visit to Milky Mist Dairy Pvt. Ltd., Erode, on 03 January 2024 for the students to gain practical exposure to industrial operations and modern manufacturing practices. The visit provided an excellent opportunity for students to bridge the gap between classroom learning and real-world industrial applications.

During the visit, students observed the various stages involved in dairy processing, including milk collection, quality testing, pasteurization, packaging, and cold storage. They also gained insights into the use of automation systems, electrical drives, PLC-based control systems, sensors, and energy-efficient technologies employed in the plant. The company officials explained the importance of maintaining quality standards, hygiene, safety measures, and process control in large-scale production.



Industrial visit to Milky Mist, Perundurai.

STATE LEVEL TECHNICAL SYMPOSIUM – VOLTRIC 2K24

The Department of Electrical and Electronics Engineering, Sakthi Polytechnic College, successfully organized VOLTRIC 2K24, a State Level Technical Symposium, on 19 February 2024. The symposium provided an excellent platform for diploma engineering students from various institutions to showcase their technical knowledge, creativity, and innovative ideas. The event encouraged participants to enhance their technical skills while promoting interaction and knowledge sharing among budding engineers.

The symposium featured a variety of technical events, including Paper Presentation, Project Presentation, and General Quiz. The paper presentation topics included emerging technologies such as EVGo (Electric Vehicles), Wireless Power Transfer, Virtual Power Plant, and Power Walls, enabling students to explore recent advancements in the field of electrical engineering. In addition to the technical events, exciting fun games such as Move In On Up, Mind Game, and Connection made the event more engaging and enjoyable for the participants.

Students from several polytechnic colleges actively participated with great enthusiasm. Attractive prizes and certificates were awarded to the winners, motivating students to pursue innovation and technical excellence. The symposium was a grand success and served as a valuable learning experience, fostering technical competence, teamwork, communication skills, and confidence among the participants.



Voltric-2K24 State level Technical Symposium inauguration

BIS CLUB – STANDARDS WRITING COMPETITION

The Bureau of Indian Standards (BIS) Club of Sakthi Polytechnic College organized a Standards Writing Competition on 29 February 2024 to create awareness among students about the importance of standards in engineering, quality assurance, and product safety. The competition aimed to encourage students to develop technical writing skills while understanding the role of standardization in industrial and technological development.

Students from various departments enthusiastically participated in the competition by presenting their ideas on the significance of Indian Standards and their applications in everyday life and engineering practices. The participants demonstrated creativity, analytical thinking, and a good understanding of quality standards through their write-ups. The event also highlighted the importance of following standards to ensure safety, reliability, and sustainability in engineering.

The winners were awarded prizes and certificates in recognition of their outstanding performance. The competition served as an excellent platform for students to improve their technical writing abilities and enhance their awareness of the Bureau of Indian Standards. Overall, the event was highly informative and inspired students to appreciate the value of standardization in building a safer and more efficient society.



BIS Club-Writing Competition Programme

ISTE TN SECTION – BEST STUDENT AWARD 2023

The Department of Electrical and Electronics Engineering is proud to congratulate Ms. Brindha K., III Year EEE, on receiving the prestigious ISTE TN Section Best Student Award 2023. The award was presented on 01 March 2024 at Excel Polytechnic College in recognition of her outstanding performance in academics, co-curricular, and extracurricular activities.

The ISTE Best Student Award is one of the most prestigious recognitions presented by the Indian Society for Technical Education (ISTE) to students who demonstrate excellence in academic achievement, leadership, technical competence, and active participation in institutional and professional activities. Ms. Brindha's dedication, hard work, and consistent performance earned her this well-deserved honor, bringing pride to the department and the institution.



ISTE-Best Student Award

ISTE TN SECTION – BEST STUDENT PROJECT AWARD 2023

The Department of Electrical and Electronics Engineering proudly congratulates Ms. B. Pradeepa and Ms. K. Brindha, III Year EEE, for securing the Second Prize in the prestigious ISTE TN Section Best Student Project Award 2023. Their innovative project titled "IoT Based Smart Agriculture Monitoring System" was recognized for its technical excellence, practical application, and contribution towards modern agricultural practices. The award was presented at Excel Polytechnic College on 01 March 2024.

The project focused on utilizing Internet of Things (IoT) technology to monitor important agricultural parameters such as soil moisture, temperature, humidity, and water management, enabling farmers to make informed decisions and improve crop productivity. The students demonstrated creativity, technical knowledge, and problem-solving skills by developing a smart and sustainable solution for the agricultural sector.



ISTE-Best Student Project Award

NAL JAL MITRA SCHEME – SKILL BASED TRAINING PROGRAMME

Sakthi Polytechnic College-EEE Department successfully organized a Skill Based Training Programme under the NAL JAL MITRA Scheme from 13 March 2024 to 22 March 2024, with the support of the Tamil Nadu Skill Development Corporation (TNSDC). The programme was designed to provide practical skill training to local people from nearby villages, enabling them to enhance their employability and livelihood opportunities in the water supply and sanitation sector.

The training focused on developing essential skills related to water management, plumbing, maintenance of water supply systems, safety practices, and basic technical knowledge. Participants received both theoretical instruction and hands-on practical training from experienced trainers, helping them understand modern techniques and best practices in the field.

The programme was coordinated by Dr. N. Thangavelu, Principal, and conducted by Mr. R. S. Krishna Murthy, Workshop Instructor. The initiative reflected the institution's commitment to community development by empowering local youth and villagers with industry-relevant skills. Overall, the training programme was highly beneficial and contributed to creating skilled manpower while promoting sustainable water resource management and self-employment opportunities.



Nal Jal Mitra skill based training programme

BIS MENTOR TRAINING PROGRAMME

Dr. S. Chitra, Head of the Department (i/c), Electrical and Electronics Engineering, participated in the BIS Mentor Training Programme organized by the Bureau of Indian Standards (BIS), Coimbatore Branch Office on 22 March 2024 at Coimbatore. The programme was conducted to strengthen the activities of BIS Standards Clubs in educational institutions and to create awareness about the importance of standardization, quality, and safety among students.

During the training programme, Dr. S. Chitra actively participated in the interactive sessions and gained valuable insights into the role of BIS in promoting quality standards, consumer awareness, and standardization practices. She also shared her experiences and discussed effective methods for conducting BIS Club activities in educational institutions. The programme emphasized the importance of integrating standardization concepts into technical education and encouraged faculty members to motivate students to actively participate in BIS initiatives.



BIS Mentor Training Programme

FACULTY ACHIEVEMENTS

The faculty members of the Department of Electrical and Electronics Engineering actively participated in various Faculty Development Programmes (FDPs) conducted by prestigious organizations such as NITTTR, Chennai and NPTEL-AICTE during the academic year 2023–2024. These programmes enhanced their knowledge in emerging technologies and modern teaching methodologies, enabling them to deliver quality technical education.

- Dr. S. Chitra, Head of the Department (i/c), attended a five-day online FDP on "Industry 5.0: Concept and Implementation" organized by NITTTR, Chennai, from 16.10.2023 to 20.10.2023. The programme provided insights into the latest industrial revolution, smart manufacturing, human-centric automation, and advanced digital technologies.
- Mr. V. Velu successfully completed a 4-week NPTEL-AICTE FDP on "Electric Vehicles – Part I" during January–February 2023, gaining comprehensive knowledge of electric vehicle technology, battery systems, charging infrastructure, and sustainable transportation. He also attended a five-day online FDP on "Applications of AI in Electrical and Electronics Engineering" conducted by NITTTR, Chennai, from 16.10.2023 to 20.10.2023.
- Mr. M. Yuvarasu participated in the online FDP on "Applications of AI in Electrical and Electronics Engineering", organized by NITTTR, Chennai, from 16.10.2023 to 20.10.2023. The programme focused on the application of artificial intelligence and machine learning techniques in electrical engineering, automation, smart systems, and intelligent control.

These FDPs have strengthened the faculty members' technical expertise and enabled them to incorporate the latest technologies and innovative teaching practices into the curriculum, thereby enhancing the overall learning experience of students.

PLACEMENT REPORT 2023–2024

The Department of Electrical and Electronics Engineering (EEE), Sakthi Polytechnic College, recorded an excellent placement performance during the academic year 2023–2024, reflecting the department's strong commitment to academic excellence, industry-oriented training, and student career development. Through the continuous efforts of the Training and Placement Cell, students received comprehensive training in technical skills, aptitude, communication, and interview preparation, enabling them to secure placements in leading industries.

Out of 40 admitted students, 31 students registered for campus placements, and all 31 registered students were successfully placed, achieving an outstanding 100% placement among

registered candidates. In addition, 9 students opted for higher education, demonstrating the department's encouragement towards both employment and higher studies.

The placement drive resulted in 61 job offers, allowing several students to receive multiple employment opportunities. The highest salary package offered was ₹27,000 per month, while the average salary package was ₹16,500 per month. Students were recruited by reputed organizations such as TEAL, Brakes India Pvt. Ltd., Aqua Group, Marico, L&T Defence, Integra Automation, Nokia Siemens Networks, TVS Training & Services, and Centum Electronics.

This remarkable achievement reflects the dedication of the students, the continuous support of the faculty members, and the effective guidance provided by the Training and Placement Cell. The department remains committed to strengthening industry collaboration and equipping students with the skills required to excel in their professional careers.

Placement Highlights (2023-2024)

Particulars	Details
Total Students Admitted	40
Students Opted for Higher Studies	9
Students Registered for Placement	31
Students Placed	31
Total Job Offers Received	61
Highest Salary Package	₹27,000 per month
Average Salary Package	₹16,500 per month
Placement Percentage (Registered Students)	100%



SAKTHI POLYTECHNIC COLLEGE, SAKTHI NAGAR - 638 315

GOVT.AIDED | APPROVED BY AICTE & AFFILIATED TO DOTE, CHENNAI
NBA ACCREDITED PROGRAMMES - CIVIL, MECH, MET, EEE & ECE



PLACEMENT RECORD - 2023-24

ELECTRICAL AND ELECTRONICS ENGINEERING



S.MAHEEN
TITAN



K.K.BRINDHA
CENTUM ELECTRONICS,
INTEGRA AUTOMATION
AQUA GROUP



B.PRADEEPA
AQUA GROUP



S.DHARANIPRIYA
L&T CBE,
AQUA GROUP



R.NIMMI
AQUA GROUP



M.SASIKALA
CENTUM ELECTRONICS,
L&T CBE, AQUA GROUP



A.S.VASUKI
CENTUM ELECTRONICS,
L&T CBE, BRAKES INDIA



S.SATHISHKUMAR
CENTUM ELECTRONICS
MARICO LTD, AQUA GROUP



S.JEEVANANDHAM
MARICO LTD,
INTEGRA AUTOMATION
BRAKES INDIA



M.ARUNRAJ
INTEGRA AUTOMATION
BRAKES INDIA



A.SASIKUMAR
INTEGRA AUTOMATION
AQUA SUB



A.K.DIVAKAR
INTEGRA AUTOMATION
BRAKES INDIA, AQUA GROUP



S.DHIVITH
INTEGRA AUTOMATION
BRAKES INDIA, AQUA GROUP



A.GIRIRAJ
INTEGRA AUTOMATION
BRAKES INDIA, AQUA GROUP



P.M.U.JANAKIRAJU
INTEGRA AUTOMATION
BRAKES INDIA, AQUA GROUP



M.JEEVANPRASATH
INTEGRA AUTOMATION
BRAKES INDIA, AQUA GROUP



M.NAVEEN KUMAR
INTEGRA AUTOMATION
BRAKES INDIA, AQUA GROUP



S.RAGUL
CENTUM ELECTRONICS,
BRAKES INDIA, AQUA GROUP



B.R.THIVYA PRASAD
INTEGRA AUTOMATION
BRAKES INDIA



M.VINOTHAJ
INTEGRA AUTOMATION
BRAKES INDIA, AQUA GROUP



C.BOOPATHI RAMACHANDRAN
AQUA GROUP



S.NAVEENKUMAR
AQUA GROUP



K.NEELAMANIKANDAN
AQUA GROUP



R.PERIYASAMY
AQUA GROUP



A.SUDHAGAR
AQUA GROUP



P.GOKUL PRASATH
AQUA GROUP



S.LOGESH
NOKIA



T.A.DHARANISH
TVS



S.KATHIRAVAN
TVS



P.PAMBAVASAN
TVS



D.ROHITH
TVS

HIGHEST SALARY PACKAGE : 27,000 / MONTH

AVERAGE SALARY PACKAGE : 16,500 / MONTH

NO.OF. STUDENTS ADMITTED	NO.OF STUDENTS OPTED FOR HIGHER STUDY	NO.OF STUDENTS REGISTERED FOR PLACEMENT	NO.OF STUDENTS PLACED	NO.OF OFFERS
40	09	31	31	61

RECRUITERS 2023-24



OFFER - 1 CTC-27,000 / MONTH



OFFERS - 13 CTC-16,500 / MONTH



OFFERS - 20 CTC-16,500 / MONTH



OFFERS - 2 CTC-15,000 / MONTH



OFFERS - 3 CTC-16,500 / MONTH



OFFERS - 13 CTC-17,000 / MONTH



OFFER - 1 CTC-15,000 / MONTH



OFFERS - 4 CTC-19,000 / MONTH

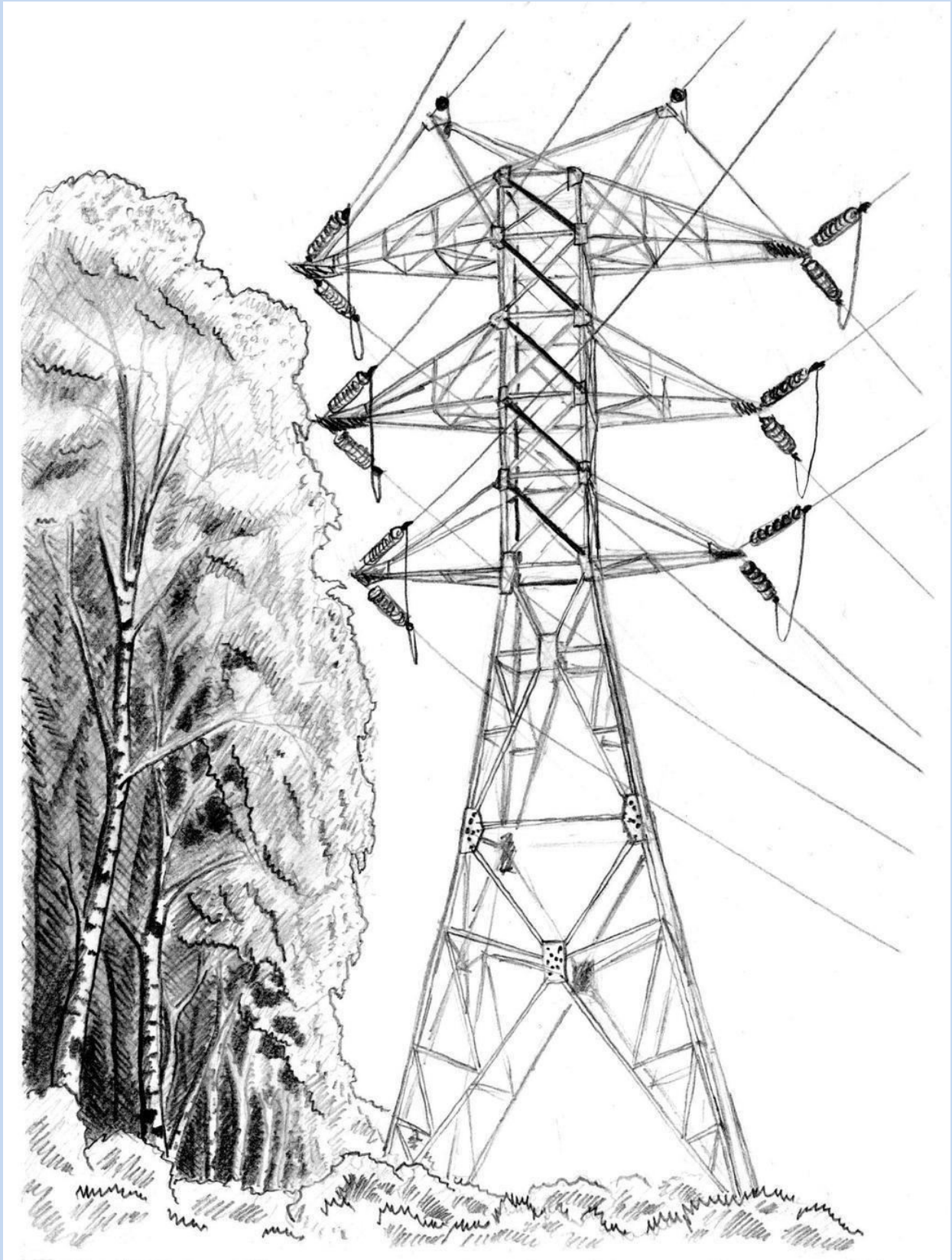


OFFER - 4 CTC-17,500 / MONTH

STUDENT ACTIVITIES



-Designed by .K.Brindha,Nimmi (III-EEE)



-Artwork by G.Dhamodharan (II-EEE)

HIGH-EFFICIENCY ELECTRICAL MACHINES: POWERING THE FUTURE

Electrical machines are essential components in industries, power plants, transportation, and domestic applications. They convert electrical energy into mechanical energy and vice versa, making them indispensable in modern technology. As the demand for energy continues to increase, the development of high-efficiency electrical machines has become a key focus in reducing energy consumption and improving system performance.

Modern electrical machines are designed with advanced magnetic materials, improved insulation, and optimized cooling techniques to minimize energy losses and increase efficiency. High-efficiency motors, such as IE3 and IE4 motors, consume less power while delivering higher output and longer service life. The use of Variable Frequency Drives (VFDs) further enhances motor performance by controlling speed according to load requirements, resulting in significant energy savings.

In addition, smart monitoring systems using sensors help detect faults at an early stage, reducing maintenance costs and improving reliability. High-efficiency electrical machines are widely used in electric vehicles, renewable energy systems, manufacturing industries, and smart automation applications. Their adoption not only reduces operational costs but also supports environmental sustainability by lowering carbon emissions.

The future of electrical engineering depends on the development of intelligent, energy-efficient machines that combine automation, digital monitoring, and advanced control technologies. These innovations will play a vital role in achieving sustainable industrial growth and efficient energy management

-Article by S.Kasthuri, Lecturer-EEE