



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. P.Ganesh | - III EEE |
| 5. S.Chandra | - II EEE |
| 6. C.M.Jeevahan | - I EEE |

ஆசிரியர் உரை

வெற்றி என்பது அதிர்ஷ்டத்தால் கிடைப்பதல்ல; விடாமுயற்சி, ஒழுக்கம் மற்றும் தன்னம்பிக்கையால் கிடைக்கும் வெகுமதியாகும். ஒவ்வொரு நாளும் புதியதை கற்றுக்கொள்ளும் ஆர்வத்தை வளர்த்துக் கொள்ளுங்கள். தோல்வியை கண்டு அஞ்சாமல், அதை வெற்றிக்கான படிக்கல்லாக மாற்றுங்கள். உங்கள் கனவுகளை இலக்காகக் கொண்டு கடினமாக உழையுங்கள். அறிவு, திறமை மற்றும் நல்ல பண்புகள் இணைந்தால் உயர்ந்த சாதனைகளை எளிதில் அடைய முடியும். "முயற்சி திருவினையாக்கும்" என்பதை மனதில் கொண்டு, நம்பிக்கையுடன் முன்னேறுங்கள். இன்றைய உங்கள் உழைப்பே நாளை உங்கள் வெற்றிக்கான அடித்தளமாக அமையும்.

"கனவு காணுங்கள்... கடினமாக உழையுங்கள்... வெற்றி நிச்சயம் உங்களுடையதே!"

ACTIVITIES

During the academic year 2024-2025 we have conducted the following activities.

1. CIICP- Short term Course
2. BIS- Inauguration, Competition & Visits
3. Pongal Celebration
4. Industrial visits.
5. Symposium
6. Hill Hiking
7. Placement
8. Students Activities

CIICP SHORT-TERM COURSE

The Canada India Joint Internship Program (CIICP) and Directorate of Technical Education (DOTE) in our college are providing training to improve the employability of students.

Accordingly in the current academic year (2024-2025) during the fifth semester vacation (16-12-2024 to 06-01-2025) 10 days PCB Design training course was conducted by Equipment Repair Center (ERC) of CIICP.

The training course was excellently conducted by Mr. M. K. Subramanian (Resource Person).

A total of 30 students from the third year Electrical and Electronics Engineering department participated in the training course and benefited.

PCB design model material was provided to the students during the training.

Finally PCB Design exam was held for students on 10-01-2025. At the end of the exam, students will get a government certificate.



CIICP- PCB Design Training Course

BUREAU OF INDIAN STANDARD (7827) EEE'S LOCAL VISIT

Local Visit for 25 Students from second Year Electrical and Electronics Engineering was arranged By **Bureau of Indian Standard (BIS)** which is the Indian National Standard Body, at Asian Pipes, Pallipalayam, Gobichettipalayam on January 6th 2025. They are Manufacturing **High Density Poly Ethylene Pipes (HDPE)**. The thickness, quality, and heat-stability of pipes are tested by this company after manufacturing. The required IS Number (4984:2016) is printed in the pipes by using Laser Method. Mr.V.Velu, Mr.R.S.Krishnamurthy are staff members from Sakthi Polytechnic College and Mr. Vijay, Resource Person from BIS, Coimbatore accompanied the second 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 permitting to this visit and made to increase the students industrial exposure and importance of Standards in their daily consumables.



BIS EEE Local Visit To Asian Pipes, Gobichettipalayam

VISIT TO BIS AWARENESS PROGRAMME AND QUIZ COMPETITION

On 1st February 2025, a group of 22 Second-Year EEE students and 12 Third-Year EEE students, accompanied by faculty members, visited the exhibition stalls organized by the Bureau of Indian Standards (BIS), Coimbatore. The visit was aimed at creating awareness among students about Indian Standards, quality assurance, product certification, and consumer safety.

During the visit, students explored various BIS exhibition stalls that showcased information on standardization, quality testing, and certification processes followed across different industries. The officials explained the significance of BIS standards in ensuring the quality, safety, and reliability of electrical and electronic products. The students actively interacted with the experts and gained valuable knowledge about the role of standardization in engineering and manufacturing.



Visit To BIS Awareness Programme And Quiz Competition

PONGAL CELEBRATION:

On January 11, 2025, the Department of EEE celebrated the Pongal Gratitude Festival for Farmers with great enthusiasm and cultural significance. This colorful event honored the harvest festival, marking the arrival of a new season and serving as a moment to express gratitude for nature's generosity. We sincerely appreciate the support of our management, institution head, faculty, and students in making Pongal 2025 a memorable celebration.



Pongal Festival Celebration

INDUSTRIAL VISIT

An industrial visit to Sakthi Sugars Limited, Sakthinagar was organized for the III-Year Electrical and Electronics Engineering (EEE) students on 25th January 2025. The primary objective of the visit was to provide students with practical exposure to the sugar manufacturing process and power generation systems used in the industry, thereby bridging the gap between classroom learning and real-time industrial practices.

During the visit, students observed the various stages of sugar production, from sugarcane processing to the final manufacturing process. They also gained valuable insights into the cogeneration power plant, where electricity is generated using bagasse, a by-product of sugarcane. The industry experts explained the operation of boilers, steam turbines, generators, transformers, electrical control panels, and power distribution systems. Students also learned about energy conservation practices, industrial safety measures, and maintenance procedures followed in the plant.



Industrial Visit to Sakthi Sugars Limited, Sakthinagar

HIKING TRIP

A memorable hiking trip was organized for the II-Year Electrical and Electronics Engineering (EEE) students on 29th January 2025 by our former Professor, Mr. S. D. Krishnakumar. The students, accompanied by their guide, embarked on an exciting journey to Palampalayam Hills, Thalavaipettai, Erode District. The trip was organized with the objective of promoting physical fitness, team spirit, leadership, and environmental awareness among the students.

During the hike, students experienced the beauty of nature while exploring the scenic landscape of the hills. The activity encouraged them to step out of their regular academic routine, helping them refresh their minds and strengthen their bonds with classmates. Throughout the journey, students learned the importance of teamwork, discipline, perseverance, and effective communication while overcoming various challenges along the trekking route.

The hiking trip proved to be both enjoyable and educational, providing students with an opportunity to develop confidence, leadership qualities, and a greater appreciation for nature. The Department of Electrical and Electronics Engineering extends its heartfelt gratitude to Mr. S. D. Krishnakumar for his dedicated efforts in organizing and successfully guiding this memorable and enriching experience for our students.



Hiking Trip To Palampalayam Hills, Thalavaipettai, Erode

A STATE LEVEL SYMPOSIUM- SUPER NOVA -2K25

The Department of Electrical and Electronics Engineering was conducted “A State Level Technical Symposium” “SUPER NOVA 2K25” on 14.02.2025. Events like Paper presentation, Project Expo, Fun Games was conducted. In this connection various college Students were participated and secured different Position. The Department of EEE wishes to thank our Management, Director and Principal for given approval to conduct this wonderful Symposium.



Super Nova 2K25 A State Level Symposium

BIS CLUB (SC ID : 7827)- QUIZ COMPETITON

The students of the Department of Electrical and Electronics Engineering (EEE) actively participated in the BIS Standards Quiz Competition held on 3rd March 2025. The competition was organized by the Bureau of Indian Standards (BIS), Coimbatore Branch Office, with the objective of creating awareness among students about Indian Standards, quality assurance, product certification, and consumer safety.

Our students enthusiastically participated in the competition and showcased their technical knowledge, analytical thinking, and understanding of standardization practices. Competing with participants from various institutions, the EEE students demonstrated excellent performance and secured prizes, bringing pride and recognition to the department.



BIS Standards Quiz Competition

INDUSTRIAL VISIT

An industrial visit to Current Electrical Works Pvt. Ltd., Erode was organized for the II-Year Electrical and Electronics Engineering (EEE) students on 4th March 2025. The primary objective of the visit was to provide students with practical exposure to the electrical workshop industry and to bridge the gap between theoretical knowledge and real-time industrial practices.

During the visit, students gained valuable insights into the operation of an electrical workshop, particularly the overhauling, maintenance, testing, and repair of various types of electrical motors used in industrial applications. The technical experts explained the complete motor servicing process, including dismantling, fault diagnosis, rewinding, insulation testing, bearing replacement, assembly, and performance testing. Students also learned about the importance of preventive maintenance, quality control, workplace safety, and modern repair techniques followed in the industry.



Industrial visit to Current Electrical Works Pvt. Ltd., Erode

STUDENTS PARTICIPATION LIST AT VARIOUS COLLEGE EVENTS

1. National Level Technical Symposium at Nanjiah Lingammal Polytechnic College :

Our Third-year EEE students, P.GANESH and K.T.VELAMUTHAN, have secured the First Prize in the Paper presentation competition at the National Level Technical Symposium, organized by Nanjiah Lingammal Polytechnic College , Mettupalayam on February 28th, 2025. We congratulate and proud to our students for their achievement.



Receiving Prize at Nanjiah Lingammal Polytechnic College , Mettupalayam

2. State Level Technical Symposium at Kongu Vellalar Polytechnic College:

Our Third-year EEE students, P.GANESH and P.JAWAHAR, have secured the First Prize in the Paper presentation competition at the state Level Technical Symposium, organized by Kongu Vellalar Polytechnic College, Seenapuram on February 27th, 2025. We congratulate and proud to our students for their achievement.



Receiving Prize at Kongu Vellalar Polytechnic College, Seenapuram

3. State Level Technical Symposium at Muthayammal Polytechnic College:

Our Third-year EEE student, P.YATHAV secured First Prize in the Painting and Drawing competition at the state Level Technical Symposium, organized by Muthayammal Polytechnic College, Rasipuram on February 22nd, 2025. We congratulate and proud to our student for his achievement.



Receiving Prize at Muthayammal Polytechnic College, Rasipuram

4. ISTE Tamilnadu section Best Student Award for the year 2024:

Our Third-year EEE students, M. ENIYAVAN was received the ISTE Best students award for his overall performance in the academic, extra – curricular and the involvement in ISTE student chapter activities from ISTE Tamilnadu section and the event host by Arasan Ganesan Polytechnic college, Sivakasi. We congratulate and proud to our student who securing the prestigious ISTE Best Student award 2024.



Receiving the ISTE Best students award at Arasan Ganesan Polytechnic college,

Sivakasi

5. IEI SEMINAR ON "ARTIFICIAL INTELLIGENCE FOR ELECTRICAL ENGINEERING"

The Institution of Engineers (India) (IEI) organized a seminar on "Artificial Intelligence for Electrical Engineering" at Thiagarajar Polytechnic College, Salem, on 30 January 2025. Three students from the Department of Electrical and Electronics Engineering (EEE) actively participated in the seminar by presenting their views on emerging AI applications in the electrical engineering domain. Their presentations were well appreciated, and they were awarded participation certificates by IEI.

Ms. A. Sangavi, II Year EEE, delivered a presentation on "Smart Grids and Intelligent Energy Systems", highlighting the role of artificial intelligence in improving the efficiency, reliability, and sustainability of modern power systems. Mr. A. Raghul and Mr. M. Eniyavan, III Year EEE, presented on "Edge Computing and IoT in Electrical Networks", explaining how edge computing and the Internet of Things enable real-time monitoring, automation, and intelligent decision-making in electrical networks.

The seminar provided an excellent platform for students to enhance their technical knowledge, presentation skills, and awareness of the latest advancements in artificial intelligence and its applications in electrical engineering.



Receiving presentation Certificate at Thiagarajar Polytechnic College, Salem

FACULTY ACHIEVEMENTS

- Mr. V. Velu, Lecturer, Department of Electrical and Electronics Engineering, successfully completed a 20-hour Faculty Development Programme (FDP) on "Programmable Logic Controllers (PLC)" conducted through Online Mode from 22.07.2024 to 26.07.2024. The programme enhanced his knowledge of industrial automation, PLC programming, and control systems. The training will help strengthen practical learning and enable the integration of current industrial practices into classroom teaching, benefiting the students of the EEE department.
- Mrs. S. Kasthuri, Senior Lecturer, Department of Electrical and Electronics Engineering, successfully completed the AICTE ATAL Academy Faculty Development Programme on "Artificial Intelligence's Potential Applications in Energy Management and Energy Storage Systems: A Technological Revolution" held at K.S.R. College of Engineering from 09.09.2024 to 14.09.2024.
- Mr. M. Yuvarasu, Lecturer, Department of Electrical and Electronics Engineering, successfully participated in the AICTE ATAL Academy Faculty Development Programme on "Artificial Intelligence's Potential Applications in Energy Management and Energy Storage Systems: A Technological Revolution" conducted at K.S.R. College of Engineering from 09.09.2024 to 14.09.2024. The programme provided valuable insights into AI-enabled energy technologies, smart grid applications, and modern energy storage systems, enhancing his professional knowledge and teaching capabilities.

PLACEMENT REPORT 2024-2025

The Department of Electrical and Electronics Engineering (EEE), Sakthi Polytechnic College, achieved an outstanding placement record during the academic year 2024-2025, reflecting the department's commitment to academic excellence, industry-oriented training, and career development. Through continuous efforts by the Training and Placement Cell, students were provided with technical training, aptitude coaching, soft skills development, mock interviews, and campus recruitment opportunities.

Out of 41 admitted students, 34 students registered for campus placements, **and** all 34 registered students were successfully placed, achieving an impressive 100% placement among registered candidates. In addition, 7 students opted for higher education, demonstrating the department's emphasis on both employment and academic progression.

The placement drive resulted in a total of 118 job offers from leading multinational companies and core industries, enabling many students to secure multiple employment opportunities. The highest salary package offered was ₹27,900 per month, while the average salary package stood at ₹18,000 per month, highlighting the quality of placements secured by the students.

The department's students were recruited by reputed organizations such as Alstom, LGB, TVS Training and Services, Pricol, Royal Enfield, Tata Electronics, Brakes India (Bradken), Centum Electronics, Rapid Tech, Universal PHI, BorgWarner, Indo Shell Casts Pvt. Ltd., Marico, DWS, and Birla Opus, among others.

Placement Highlights (2024-2025)

Particulars	Details
Total Students Admitted	41
Students Opted for Higher Studies	7
Students Registered for Placement	34
Students Placed	34
Total Job Offers Received	118

Particulars	Details
Highest Salary Package	₹27,900 per month
Average Salary Package	₹18,000 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 - 2024-25



ELECTRICAL AND ELECTRONICS ENGINEERING

 ADHARISH K ALSTOM, DONGWOO	 BALA KANESH T PRICOL, TVS	 BANDHESWARAN C ROYAL ENFIELD, DONGWOO	 BOOPALAN M BRADKEN	 CHANDRU S PRICOL, LGB	 DEEPA SATHY S PRICOL, LGB	 DEVA C ALSTOM, ROYAL ENFIELD	 DHAMODHARAN G PRICOL, LGB	 DINESH KUMAR P ROYAL ENFIELD, DONGWOO	 GOPIKASRI S ROYAL ENFIELD	 GUHANESH A DONGWOO, TVS	 GOWTHAM S ROYAL ENFIELD
 HANISH S DONGWOO, INDO SHELL	 JAWAHAR P ROYAL ENFIELD, DONGWOO	 KANISH KUMAR S TVS, LGB, PRICOL	 KAVINKUMAR P BRADKEN, MARICO	 LINGESHWARAN A DONGWOO, UNIVERSAL PHI	 MAISARAN S ROYAL ENFIELD, DONGWOO	 MANIKANDAN R TVS, UNIVERSAL PHI	 MUKUNTHAN D ROYAL ENFIELD, DONGWOO	 NAVEENKUMAR G RAPIDTECH, TVS	 NIKELESH T TVS, LGB, PRICOL	 PRADEEP R TVS, LGB, PRICOL	 PRAVIN K INDO SHELL, TVS
 RAGHU A DONGWOO, CENTUM, UNIVERSAL PHI	 RAMANIDHARAN S TVS, LGB, PRICOL	 SHUHAIDUDHEEN S ROYAL ENFIELD, DONGWOO	 SRIHARITHASUTHAN S INDO SHELL, PRICOL	 SUKUMARAN N S INDO SHELL, TVS	 SUNDAR S DONGWOO, TVS, LGB	 TAMILARASI S BILTA PAINTS	 VENKATESH S ROYAL ENFIELD	 SRIDHARAN R TVS, LGB, PRICOL	 VISHALATCHI A ROYAL ENFIELD		

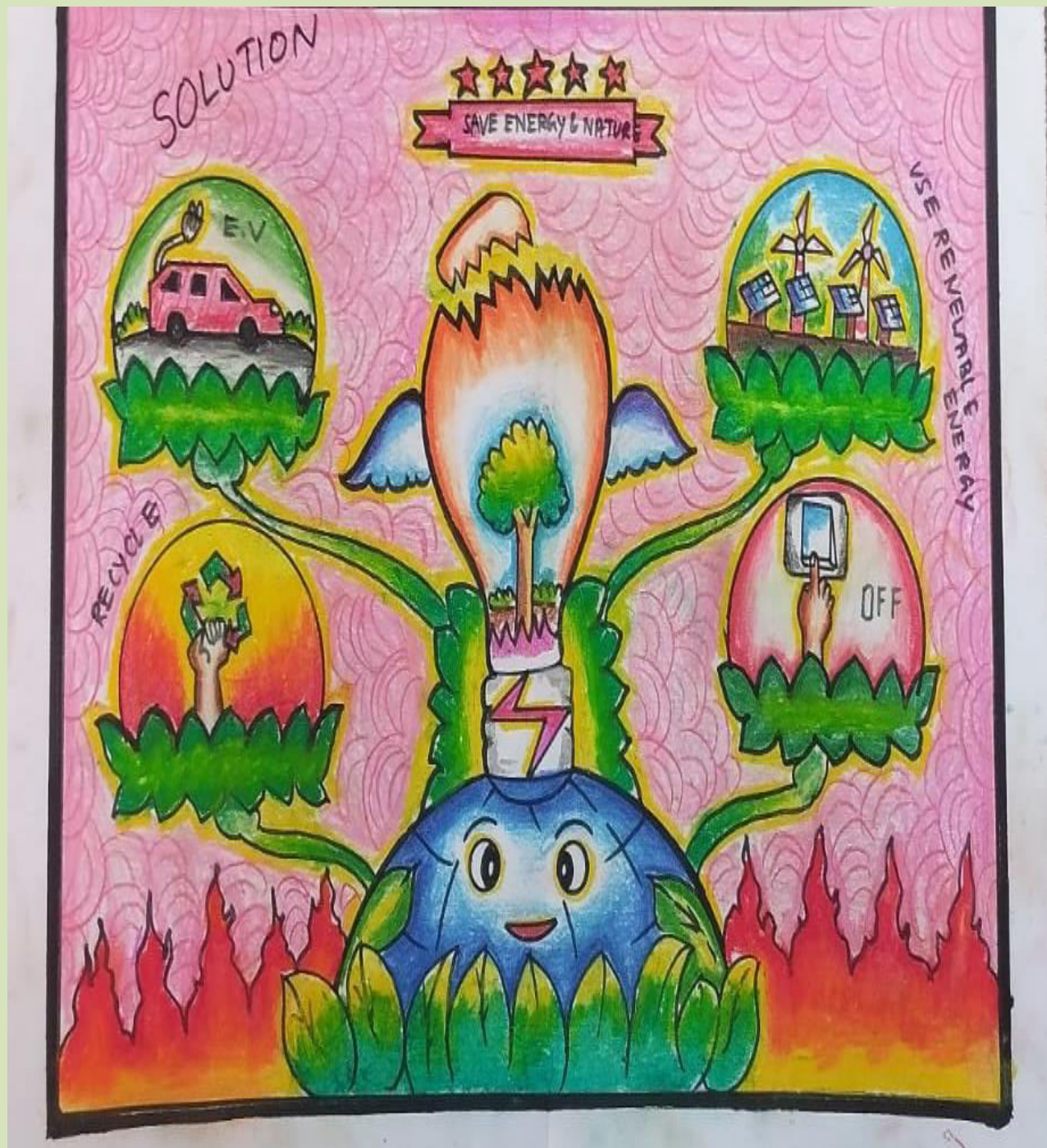
HIGHEST SALARY PACKAGE : RS.27,900 / MONTH / AVERAGE SALARY PACKAGE : RS.18,000 / MONTH

RECRUITERS 2024 - 25

NO.OF. STUDENTS ADMITTED	NO.OF STUDENTS OPTED FOR HIGHER STUDY	NO.OF STUDENTS REGISTERED FOR PLACEMENT	NO.OF STUDENTS PLACED	NO.OF OFFERS
41	07	34	34	118

 OFFERS - 2 / CTC - 19000 / MONTH	 OFFERS - 2 / CTC - 17500 / MONTH	 OFFERS - 3 / CTC - 19000 / MONTH	 OFFERS - 15 / CTC - 15000 / MONTH	 OFFERS - 15 / CTC - 18000 / MONTH	 OFFERS - 22 / CTC - 15900 / MONTH
 OFFERS - 1 / CTC - 15000 / MONTH	 OFFERS - 193 CTC - 18500 / MONTH	 OFFERS - 1 / CTC - 19000 / MONTH	 OFFERS - 5 / CTC - 15000 / MONTH	 OFFERS - 14 / CTC - 16000 / MONTH	 OFFERS - 4 / CTC - 15000 / MONTH
 OFFERS - 14 / CTC - 15000 / MONTH	 OFFERS - 4 / CTC - 19000 / MONTH	 OFFERS - 1 / CTC - 27900 / MONTH	 OFFERS - 2 / CTC - 15,000 / MONTH		

STUDENT ACTIVITIES



-Artwork by P.Yadhav (III-EEE)



-Artwork by S.Chandra (II-EEE)

Electric Vehicles: Transforming the Future of Transportation

Electric Vehicles (EVs) are revolutionizing the automotive industry and have become one of the fastest-growing technologies in the field of Electrical Engineering. With increasing concerns about environmental pollution, rising fuel costs, and climate change, EVs provide a clean, efficient, and sustainable alternative to conventional petrol and diesel vehicles. Governments across the world are promoting electric mobility through incentives, charging infrastructure, and policies aimed at reducing carbon emissions.

An electric vehicle operates using an electric motor powered by rechargeable batteries instead of an internal combustion engine. The main components of an EV include the battery pack, electric motor, motor controller, inverter, battery management system (BMS), and charging unit. The Battery Management System plays a crucial role by monitoring battery health, controlling charging and discharging processes, and ensuring safe operation of the battery.

One of the major advantages of electric vehicles is their high energy efficiency. Electric motors convert nearly 90% of electrical energy into mechanical energy, whereas conventional engines are much less efficient. EVs also produce zero tailpipe emissions, making them environmentally friendly. Additionally, they require less maintenance because they have fewer moving parts, eliminating the need for engine oil changes and reducing mechanical wear and tear.

The rapid growth of EVs has created exciting career opportunities for electrical engineers. Engineers are involved in designing battery management systems, developing fast-charging technologies, improving motor control systems, and integrating renewable energy with EV charging stations.

Despite their many advantages, electric vehicles face challenges such as limited charging infrastructure, battery cost, and charging time. However, continuous research in lithium-ion batteries, solid-state batteries, and ultra-fast charging technologies is addressing these issues. Innovations in smart charging and vehicle-to-grid (V2G) technology are expected to make EVs even more efficient and reliable in the coming years.

In conclusion, electric vehicles represent the future of sustainable transportation and play a vital role in reducing environmental pollution and dependence on fossil fuels. The future of transportation is electric, and it offers immense opportunities for aspiring electrical engineers to contribute to a cleaner and smarter world.

-Article by S.Sakthivel, Lecturer-EEE