



VSB COLLEGE OF ENGINEERING TECHNICAL CAMPUS

(Approved by AICTE and Affiliated to Anna University)

NH-209, Coimbatore-Pollachi main road, Ealur Pirivu, Solavampalayam(po), Coimbatore – 642109, Tamil Nadu, INDIA



Department of Electrical and Electronics Engineering

News Letter

PYLON

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About the Department

The Department of Electrical and Electronics Engineering was established in the year 2012. It offers an UG Course namely B.E Electrical and Electronics Engineering with a Sanctioned intake of 60. The department is instituted with a vision to meet the world's sky-rocketing demand for electricity. It deals with the study and application of Electricity, Electronics and Electro Magnetism. These are the areas of development which have created wonders and are most important without which, the world will not move on. Students are given awareness in the area of control system which plays an important part in modern equipments which are automatically controlled. Students are also made to be aware of different types of fault analysis, stability analysis and corrective measures in power system. So we can say that Electrical and Electronics course provides a student with full knowledge of Electrical and Electronics field.




Vision

To create dynamic and challenging electrical engineers with social responsibilities.







Mission







- ✓ To provide technical proficiency by adopting well defined teaching learning process.
- ✓ To create an environment to practice ethical codes.
- ✓ To prepare the graduates to be professionally competent to meet out the Industrial needs.
- ✓ To motivate the students to pursue higher studies and research activities.

Programme Educational Objectives

-  **PEO1:** Graduates of the program will be able to have a successful career in core and allied engineering or associated industries or in higher education or as entrepreneurs or in research.
-  **PEO2:** Graduates of the program will be proficient to provide optimized solution for complex engineering problems in chosen Technical areas.
-  **PEO3:** Graduates of the program are equipped to exhibit continuous improvement in their profession through life-long learning.

Programme Outcomes

-  **PO1: Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
-  **PO2: 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.
-  **PO3: 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.
-  **PO4: Conduct investigation 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.
-  **PO5: 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.
-  **PO6: 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.

-  **PO7: 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.
-  **PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
-  **PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
-  **PO10: 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.
-  **PO11: 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.
-  **PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

About the Course

The Electrical and Electronics Engineering degree program prepares graduates to enter a dynamic and rapidly changing field with career opportunities in Electric power, Integrated circuits, Robotics and control, Computer hardware and software. The demand for Electrical Power is increasing rapidly and thereby Electrical Engineers are in great demand to meet the requirements.

Our campus is an exciting place to study and grow where thinkers become leaders, where there is a thirst for knowledge. The interaction between students and professors greatly enriches the educational experience for all. Our campus provides students with opportunities to gain and use knowledge to build successful lives and career and become an integral part of the community. The department laboratories are well-equipped and commensurate with licensed software such as MATLAB and ETAP for solving analyzing power system problems. The department has adequate infrastructure to do research in Power Systems. Our faculty members are experts in the areas they teach. Not only do they provide a solid grounding in the academic theories and concepts of their specialty but they also provide challenges for the students, facing their discipline. They provide the students the right balance of theory and practice.

We emphasize team work to give opportunity to each student to benefit from the ideas and intelligence of their classmates. We continue to strive to meet our mission to mould youth into world-class technocrats of tomorrow who would endeavor to increase the quality of life for mankind. I am confident that our students would be an asset to our organization with their technical and managerial capabilities. On the whole, we are committed towards creating and erecting a professional graduate community which is vivacious with continuous learning. Electrical and Electronics

Engineers have career opportunities in Electrical power generation, Integrated circuits, Manufacturing of Robotics and control, Computer Hardware & Software, Manufacturing of Electrical & Electronics Equipment's, Electrical Energy saving equipment's, Non-conventional sources of energy conversion systems, etc.

Our Students Achievements in Results



Number of students placed.(1.1.2022 – 30.06.2022)

S.No	Name of the student	Year / Branch	Name of the company	Salary Package (in Lakhs)	Date
1	Pratheeksha	IIIEEE	Hexaware	4 L per annum	
2	Pavithra shree	IIIEEE	Hexaware	4 L per annum	
3	Bhavatharani	IIIEEE	Hexaware	4 L per annum	
4	Padmakumar	IIIEEE	Hexaware	4 L per annum	
5	Praveen Prabhu	IIIEEE	Hexaware	4 L per annum	
6	Manoj Kumar	IIIEEE	Hexaware	4 L per annum	

Name of the FDP/STTP/Workshop/Online certification courses attended by faculty members (including online courses). – Pantech, NPTEL, etc.,

Sl.No	Date	Name of the Workshop/Seminar	Name(s) of the Student(s)	Name of the Organization
1	31.01.2022-05.02.2022	FDP	Dr.G.Banu	Sri Venkateswara college of Engineering
2	Jan-Mar 2022	NPTEL	Dr.G.Banu	NPTEL online certification

3	04.05.2022	Webinar	Dr.G.Banu	St. mother therasa engineering college
4	05.03.2022-06.03.2022	workshop	Dr.G.Banu	NITK-STEP
5	04.02.2022	Patent	Dr.G.Banu	Intellectual property india
6	20.05.2022	Patent	Dr.S.Muthu Vijaya Pandian	The Patent Office journal-India
7.	20.09.2022-24.09.2022	ATAL (FDP)	Dr.S.Muthu Vijaya Pandian	EDI, India
8	Dr.S.Muthu Vijaya Pandian	Online course	22.02.2022	university of syndey
9	Dr.S.Muthu Vijaya Pandian	Online course	25.03.2022	University of MICHIGAN
10	Dr.S.Muthu Vijaya Pandian	Book published	02.05.2022	Notion Press
11	Mr.D.Velmurugan	Webinar	04.05.2022	St. mother therasa engineering college
12	Mr.D.Velmurugan	NPTEL	feb-april 2022	NPTEL online certification
13	Mr.D.Velmurugan	FDP	18.02.2022-23.02.2022	Hindustan college of Engineering and Technology
14	Mrs.L.Sreevidya	FDP	18.02.2022-23.02.2022	Hindustan college of Engineering and Technology
15	Mrs.L.Sreevidya	Online course	21.01.2022	coursera project network
16	Mrs.T.Sivaranjani	Webinar	04.05.2022	St. mother therasa engineering college
17	Mrs.T.Sivaranjani	Online course	21.01.2022	coursera project network
18	Dr.M.Varatharaj	FDP	23.03.2022	National IP Awareness Mission
19	Dr.M.Varatharaj	Webinar	04.05.2022	St. mother therasa engineering college
20	Dr.M.Varatharaj	FDP	18.02.2022-23.02.2022	Hindustan college of Engineering and Technology
21	Mrs.D.Priyadharshini	FDP	18.02.2022-23.02.2022	Hindustan college of Engineering and Technology

22	Mrs.D.Priyadharshini	Webinar	04.05.2022	St. mother therasa engineering college
23	Mrs.D.Priyadharshini	Virtual seminar	08.05.2022	Dr.T.Thimmaiah institute of technology

Technical papers published by Faculty members in National and International Journals and National Conference / International Conference.(Including online Journals).

S.No	Name of the Authors	Title of the paper	National Journal / International Journal / National Conference / International Conference / Symposium
1.	Mrs.T.Sivaranjani	Bidirectional converter based emulator of battery E storage system for grid application	Conference as on 27.05.2022 National conference on emerging trends in engineering
2.	Mr.D.Velmurugan	Design and Implementation of Wireless women safety system	Conference as on 27.05.2022 National conference on emerging trends in engineering
3.	Dr.G.Banu	A Novel approach to precision agriculture using hanging robot Based on AI	Conference as on 27.05.2022 National conference on emerging trends in engineering
4.	Dr.M.Varatharaj	Wireless Power Transfer	Conference as on 27.05.2022 National conference on emerging trends in engineering
5.	Mrs.D.Priyadharshini	RF based Smart vehicle for speed control in low speed zones	Conference as on 27.05.2022 National conference on emerging trends in engineering
6.	Mrs.L.Sreevidya	Bidirectional converter based emulator of battery E storage system for grid application	Conference as on 27.05.2022 National conference on emerging trends in engineering
7.	Dr.S.Muthu Vijaya Pandian	An advanced health monitoring device for treating Chronic diseases using IoT	Internal journal of mechanical engineering as on 01.01.2022

8.	Dr.M.Varatharaj	Field oriented control PMSM D-Q axis coupling on smart technologies and application	RAMCO institute of Technology as on 11.03.22-12.03.22
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Technical papers published by student members in National and International Journals and National Conference / International Conference.(Including online Journals).

S.No	Name of the Authors	Title of the paper	National Journal / International Journal / National Conference / International Conference / Symposium
1	Akash. K Akilan .M Lokesh Kumar. N	A Novel approach to learning and writing Braille code	Conference as on 27.05.2022 National conference on emerging trends in engineering
	Praveen Kumar. C Ramachandran. K Sabarinathan .M	RF based Smart vehicle for speed control in low speed zones	Conference as on 27.05.2022 National conference on emerging trends in engineering
	Gayathiri .M Logaprabha. A Lakshmi Devi .P	A Novel approach to precision agriculture using hanging robot Based on AI	Conference as on 27.05.2022 National conference on emerging trends in engineering
	Haleel Ahamed Santhosh .D Manoj Kumar. K S	Green house plant monitoring using IoT	Conference as on 27.05.2022 National conference on emerging trends in engineering
	Malarvizhi. R Rajeshwari .C Priyadharshini .M	Bidirectional converter based emulator of battery E storage system for grid application	Conference as on 27.05.2022 National conference on emerging trends in engineering

Manikandan .P	Design and Implementation of Wireless women safety system	Conference as on 27.05.2022 National conference on emerging trends in engineering
Gokulakrishnan.M		
Venkateshwaran. A		
Medha. P	Smart waste segregation using bluetooth	Conference as on 27.05.2022 National conference on emerging trends in engineering
Mohanapriya. K		
Rajeshwari. R		
Ramadevi. P		
Nareen Kumar. M	Wireless Power Transfer	Conference as on 27.05.2022 National conference on emerging trends in engineering
Anbarasu. S		
Sangeeth. J		

Name of the add on course / online certificate courses/value added courses, symposium attended by students (including online courses). – Pantechsolutions,NPTEL, etc.,

S.No	Title of the value added course	Students batch	Number of students benefitted	Name of the organization	Duration
1.	Innovation and Startups (for Self Reliant India)	(2018-2022) (2019-2023) (2020-2024)	33	DST & TNSCST	18 th January 2022
2	Nanotechnology Revolution	(2018-2022) (2019-2023)	38	Manipal Institute of Technology	03/02/2022-04/02/2022
3	TCS iON Career Edge - Young Professional	(2018-2022) (2019-2023)	16	TCS-iON	01/02/2022-15/02/2022
4	Future of Electric Vehicle in India	(2021-2025)	12	KARPAGA VINAYAGA College of Engineering and Technology	29 th January •

5	Intellectual Property Rights	(2021-2025)	15	Annapoorana Engineering college	31th January 2022
6	Artificial Intelligence and machine learning of grid integrated renewable energy system	(2021-2025)	2	Sri Ramakrishna Engineering College	08.04.2022
7	Introducton to Data Science	(2021-2025)	28	Infosys & Springboard	January 2022
8	contemporary challenges under IPR	2020-2024	07	Dr.T.Thimmaiah institute of technology	08.05.2022
9	Natinal level technical symposium	2020-2024	04	INFO institute of Technolgogy	13.05.2022
10	Artificial Intelligence and machine learning of grid integrated renewable energy system	2020-2024	01	Sri Ramakrishna Engineering College	08.04.2022
11	CAMCEE 22	2020-2024	01	Jansons Institute of technology	12.04.2022
12	Online course	2019-2023	23	AWS academy	April 2022
13	IP Awareness program	2019-2023	11	National IP Awareness Mission	23.03.2022
14	EFFECTIVE COMMUNICATION	2019-2023	01	SKILL INDIA	9/2/2022
15	Site Specific Assessment of Wind Turbines	2018-2022	10	SKILL LYNC	12 th January 2022
16	National Level E-Quiz	2018-2022	18	Sri Ramakrishna Engineering College	27/02/2022

17	TALENT NEXT COURSE ON JAVA J2EE	2018-2022	03	WIPRO	JUNE-OCT2021
18	Fundamental Of Digital Marketing	2018-2022	05	Google Digital Unlocked	8/2/2022
19	Idea generation with technology readiness	2018-2022	16	St. mother therasa engineering college	04.05.2022
20	PHP for beginners	2018-2022	08	UDEMY	April 2022
21	Master class on Python Programming	2018-2022	01	Pantech E learning	28.02.2022- 29.03.2022

Industry visits / in plant training by students

S.No	Year/Sec	Name of the industry	Number of students	Date of visit
1.	III-EEE II-EEE	Sunshiv Electronic solutions	21	26.02.2022- 05.03.2022
2.	II EEE	Loocust incorp Apparel Export Private Limited	3	01.03.2022- 05.03.2022
3	II EEE	Titan company Limited	02	03.03.2022- 04.03.2022
4	IV-EEE	L &T electrical and automation	03	07.03.2022- 07.04.2022
5	IV-EEE	SRG power control System	03	21.02.2022- 19.04.2022

Teachers are people who start things they never see finished, and for which they never get thanks until it is too late.

— Max Forman

Thank You