



**PRIYADARSHINI ENGINEERING COLLEGE,
VANIYAMBADI-635751.**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

*MYSTERIOUS TRANSIENTS
WHERE POWER BREATH*

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ABOUT THE INSTITUTE

Priyadarshini Engineering College, the flagship of Jai Barath Charitable Trust, was established in 1995 at Vaniyambadi in Vellore District of Tamil Nadu. The college has been approved by All India Council for Technical Education, New Delhi & affiliated to Ana University, Chennai. Priyadarshini Engineering College situated in the rural area of Vaniyambadi, Vellore District is committed to the vision of developing itself into a multi-campus, Inter-disciplinary Institution of Excellence through symbiotic efforts and innovative practices of management and faculty to provide the student with an ambient academic environment, ideal for the pursuit of knowledge and development carrier.

VISION OF THE INSTITUTE

- *To inculcate in the young rural minds the aptitude to compete with the quality technocrats.*

MISSION OF THE INSTITUTE

- *To instill technical skills to compete in the sustainable world*
- *To impart holistic value based technical education*
- *To intensify research and development (r & d) activities in technological development*
- *To imbibe core values of love for motherland performance of duty, compassion, tolerance, honesty and integrity*

MOTTO

Perseverance, Endurance, Commitment

“□□□□□□□□, □□□□□□ □□□□□□□□□□, □□□□□□□□□□□□



HOD MESSAGE

I feel great pleasure to share with you through this News Letter about the progress made by Department of Electrical & Electronics Engineering (EEE) at PEC. The Department is blessed with highly talented faculty members who have come from Industries and Academics. It is not only quantity but from quality point of view, the department has produced meritorious student who have secured positions in the university. All this could be made possible due to dedication of faculty members who relentlessly endeavor to address the problems of students through tutorial and extra classes. The course contents are finished within stipulated time and numerical are solved through tutorials and assignments.

VISION:

To produce eminent electrical engineer specifically from the rural background.

MISSION:

- Infuse moral ethics and good virtues to the students.
- Providing good technical knowledge for innovative research and development
- Making them excellent in extracurricular activities.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

PEO 1: Core Competence

Graduates excel in analyzing, designing, simulating and testing of all electrical and electronics systems.

PEO2: Societal Requirements

Graduates are successful in giving solutions for real time problems to cater to the industrial and societal requirements.

PEO 3: Lifelong Learning

Graduates can adapt to lifelong learning to enhance their technical skills.

PEO 4: Leadership Qualities

Graduates exhibit their leadership qualities in a multidisciplinary field.

PROGRAMME OUTCOMES (POs)

PO1: Engineering Knowledge:

Understand and apply basic concepts of Mathematics, Physics, Chemistry and Engineering.

PO2: Problem Analysis:

Understand and analyze circuit theory, electromagnetic theory, control theory and apply them to electrical engineering applications.

PO3: Design & Development of Solutions:

Analyze and design the electrical and electronics components and to apply in solid state drives and power systems.

PO4: Investigation of Complex problems:

Conduct investigation in complex problems of power system operation, stability, control and protection.

PO5: Modern Tool Usage:

Use contemporary computing tools and techniques in Electrical Engineering applications.

PO6: Engineer and Society:

Handle engineering aspects of electrical energy, utilization and the impact of engineering solutions to the societal needs.

PO7: Environment & Sustainability:

Acquire knowledge of contemporary issues to sustain the ever changing environment.

PO8: Ethics:

Apply the ethical principles to their profession and social issues.

PO9: Individual & Team Work:

Perform individually and in a group to accomplish a common goal.

PO10: Communication:

Effectively communicate and present technological developments.

PO11: Lifelong Learning:

Gain self- confidence to engage in lifelong learning.

PO12: Project Management & Finance:

ABOUT THE DEPARTMENT:

The department of Electrical and Electronics Engineering was established in the year 1997 with the obvious vision to contribute its bit in the effort of providing quality engineers in the service of mankind.



In the Electrical Engineering Department, we aim to produce graduates who are innovative and capable of becoming the leaders in their fields. Our students are given an excellent foundation in the principles of electrical engineering. From this base, they develop the ability to conceptualize, and to analyse and solve problems.

Electrical and Electronic Engineering is an exciting and dynamic field. Electrical engineers are responsible for the generation, transfer and conversion of electrical power, while electronic engineers are concerned with the transfer of information using radio waves, the design of electronic circuits. These sought-after engineers can look forward to a rewarding and respected career.

Electronics is the study of components and circuits used to construct items such as audio amplifiers, radio transmitters and computer circuits. Students learn about elementary electrical components, transistors, integrated circuits, and computer circuitry and power electronics. The field specializes in areas such as microwave electronics, superconducting electronics, ultra-high speed electronics and the prevention of electromagnetic interference between devices.

Electrical engineers are needed in all manufacturing units, All major companies of public and private sector such as Electricity Boards, Large Scale Industries, Manufacturing Plants, Power corporations, Hydro-Electricity sector are continuously in need of Electrical Engineers for their prospects in Design Industries ,Production plants, Natural gas plants, Petroleum as well as in steel and chemical plants. Many premier educational and research Institutions regularly intake Electrical Engineers as Graduate Engineer Trainees to work on research projects. Electrical Engineers can also get a job in Major players in Public sector such as Indian Railways, Armed forces (technical branch) and also in Thermal and Nuclear power Corporation Limited.

STUDENTS ACTIVITIES:

- *Mr.M.AshwinSrinivas Mr.R. Barathkumar ,Mr.M. Barath ,Mr.S. Balamurali of Third year EEE has attended Workshop on “EMBEDDED SYSTEMS & ROBOTICS” held on 20th January 2013 Conducted by Bits n watts embedded solutions, Chennai at Hotel D ‘ Europe in Pondicherry.*
- *Ms.P.K. Nageenasuman, Ms. J. Martina Rubavathi of Second year EEE has Participated in National Level Technical Symposium “POWERTRONS 2K13 “ held on 2nd March 2013 at Podhigai College of Engineering & Technology, Tirupattur.*
- *Mr.S. Gowtham , Mr.B. Naveen Kumar of Second year EEE has Participated in paper presentation FESRTRO’13 held on 9th March 2013 at SMK Fomra Institue of Technology.*

TECHNICAL SYMPOSIUM

The Department Organized a National Level Technical Symposium “SYNCHRO SHOCZ '13”, On 04.04.2013. Mr.K.RAVI,M.E.,Ph.D, Associate Professor,VIT UNIVERSITY , Vellore was the chief Guest.



ON CAMPUS PLACEMENT

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4	DHUSHYANTH KUMAR MUDHU REDDY KESAVULU REDDY	AGS HEALTH	TRINEE-PROCESS RE ENGINEERING
5	ARUN.R	TEAM LEASE	EXECUTIVE ENGINEER
6	MANOBALA.T	APPASAMY CONSTRUCTIONS	EMBEDDED ENGINEER
7	RAVIKANT RAJAN	CDJ LAW JOURNAL PVT.LTD	BUSINESS DEVELOPMENT MANAGER
8	JAYARAJ.M	SHRI PADMAVATHI CONSULTANTS	DESIGN ENGINEER
9	SHARMILA.S	VANI POLYTECHNIC COLLEGE	LECTURER
10	RADHU.G	PRO OFFICE-VELLORE	TECHNICAL ASST
11	VIJAYAKUMAR.D	QATAR ENGINEERING AND CONTRACTING LIMITED	TRAINING ENGINEER

<i>S.NO</i>	<i>NAME OF THE STUDENT</i>	<i>ORGANISATION</i>	<i>DESIGNATION</i>
12	VASUGI.S	M/S KOCHAR INFOTECH PVT.LTD	TECH.SUPPORT EXECUTIVE
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14	PRIYANKA.R	M/S KOCHAR INFOTECH PVT.LTD	TECH.SUPPORT EXECUTIVE
15	KAVITHA.G	M/S KOCHAR INFOTECH PVT.LTD	TECH.SUPPORT EXECUTIVE
16	SANTHOSH.S	JAIN HOUSING	TRAINEE-ELECTRICAL
17	SANTHA KUMAR.S	SRI SAMANNA AGARBATHI INDUSTRIES	OWN COMPANY
18	KARTHICK RAJA.G	VOLVO INDIA PVT LTD	ELECTRICAL SUPPORT EXECUTIVE
19	GOPIPRAKASH.P	ARIKASH POWER PVT LTD	OWN COMPANY
20	THIRUPATHI RAJA.A	TDS MANAGEMENT CONSULTANT PVT LTD	PIU TECHNICIAN
21	LINGAMOORTHY	MICRON ELECTRICALS	SITE ENGINEER

STAFF ACHIEVEMENTS

- Mrs.K.Malarkodi, Assistant Professor has delivered a guest lecture on **“Inverters and its Features”** at Imayam Arts & Science College on 9th February 2013.
- Mrs.N.Jayanthi, Assistant Professor has delivered a guest lecture on **“Uninterrupted Power Supply”** at Imayam Arts & Science College on 9th February 2013.
- Mrs.R.Rajeswari, Assistant Professor has delivered a guest lecture on **“Power System Analysis”** at Vani polytechnic College on 13th April 2013.
- Mr.C.Kalaiarasan, Assistant Professor Participated two weeks AICTE sponsored FDP of Rural development by green energy on 3.6.2013-16.6.2013 in Kongunadu college of Engineering and technology at Trichy.
- Mrs.C.Bhuvanewari, Assistant Professor has participated in the two days national workshop on **“Recent trends in Energy Management System”** held on 1st & 2nd March 2013 at VIT University, Vellore.
- Mrs.R.Rajeswari, Assistant Professor has participated in the two days national workshop on **“Recent trends in Energy Management System”** held on 1st & 2nd March 2013 at VIT University, Vellore.
- Mr.C.Kalaiarasan, Assistant Professor participated in two weeks AICTE sponsored Faculty Development Program titled **“Rural development by green energy”** organized by the department of EEE, Kongu Nadu College of Engineering & Technology, Tirchy from 03rd to 15th June 2013.
- Mr.V.Prakash, Assistant Professor & Head has participated in one week TEQIP sponsored Faculty Development Program titled **“Recent Trends in Power Electronics and Power System (RTPEPS)”** organized by the department of EEE, Pondicherry Engineering College, from 12th to 18th June 2013.
- Mr.V.Prakash, Assistant Professor & Head has participated in the workshop on **“R&D project proposals – awareness, needs and benefits”** organized by centre for technology development and transfer, Anna University Chennai on 28th June 2013.

FARE WELL FUNCTION

Third Year and Second Year Students Celebrated "VALIDICTIA 2K13" for the outgoing final year students.

