Priyadarshini Engineering College,
Vaniyambadi-635751

Department of Electrical and Electronics Engineering

Mysterious Transients

S U R P L U S E L E C T R I C I T Y

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 Anna 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

"கற்றலும், கற்றவை கேட்டலும், கேட்டதன்கண் நிற்றலும்"

HOD MESSAGE

Priyadarshini Engineering College, Vaniyambadi is a centre of education where we nurture young talents in different fields of Engineering. Our major emphasis of imparting technical training to encourage curiosity and innovativeness among our students and lay a foundation from where they can acquire quick learning ability and adaptivity with the fast changing needs of the industry. 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 specialization, they also provide the students challenges 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 human kind. I am confident that our students would be asset to your organization through their technical and managerial capabilities. My aim is to actively assist you in attracting and identifying the individuals best suited to your needs and developing a successful recruitment relationship.

VISION OF THE DEPARTMENT:

To produce eminent electrical engineer specifically from rural background.

MISSION OF THE DEPARTMENT:

- *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.

PEO3: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.

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.

The Electrical & Electronics Engineering department has been established with the firm commitment of developing and producing quality Electrical and Electronic Engineers with high-technical knowledge and good practical basis, combined with leadership skills and decision making capabilities.

The department was established since the Institute inception. The department is housed with state-of-art facilities in a separate block with Sufficient Lecturing and all laboratories equipped with modern instruments with latest technology as per AICTE.

The Department is strongly supported by qualified and well experienced faculties and Technical staffs. The department is continuously updating its facilities to make the students excel in all respects in the area of electrical engineering.

The department conducts workshops, seminars, conferences and invited lectures to keep the students and staff updated with the latest developments. The department also invites projects from industries to be implemented by the students of the college. The students have been well trained with the support of the placement cell.

Majoring in Electrical Engineering

The design- and project-oriented program integrates concepts, analysis, design and development of tomorrow's electrical systems. You will have "learning-to-learn" experiences in projects that are taught jointly by industry and university personnel. This active learning emphasizes knowledge and skills so that you can solve real-world electrical engineering problems.

The Language of Technical Computing

Explore new ideas

MATLAB® is the high-level language and interactive environment used by millions of engineers and scientists worldwide. It lets you explore and visualize ideas and collaborate across disciplines including signal and image processing, communications, control systems, and computational finance.

Put your ideas into action

You can use MATLAB in projects such as modeling energy consumption to build smart power grids, developing control algorithms for hypersonic vehicles, analyzing weather data to visualize the track and intensity of hurricanes, and running millions of simulations to pinpoint optimal dosing for antibiotics.

LABORATORIES

Electrical Machines Laboratory *has around 50 machines which include, DC generators, motors, synchronous ,motors, alternators and transformers*

Electrical Measurements and Standards Lab *is well equipped for the measurement of various electrical quantities with sufficient number of standards and measuring equipment*

Electronic Drives Lab *has state of the act facilities for control of dc and ac motors. The lab is used by B.E Students.*

The other laboratories in this Department are Electronics Circuits Lab, Digital Circuits Lab and the Power Electronics Lab, Systems and Control Lab, Micro processor Lab, Software Lab and Advanced control lab

The electrical & electronics workshop gives practice on different types of domestics, commercial and industrial wiring.

Department Library

The Department library has a large collection of books which includes all the text books prescribed in the syllabus, reference books, IEEE journals, periodicals and copies of manuals of experiments done in various laboratories

STUDENTS ACTIVITIES:

- *Third year Students visited* ***PALANIAPPA PUMPS AND MOTORS , Coimbatore.***
- ***Final year students visited Deccan industries.***

INVITED TALK PROGRAM

On 31st July 2014, TANGEDCO , Assistant Engineer Mr. ***D.B.Devarajan,****delivered a talk on* ***"Overview of Substations"*** *for Faculties and Students .*

Guest Lecture Program – 2014

The EEE Department organized a knowledge sharing opportunity for the students of Electrical Engineering. Mr.S.Sampath , A.D, Vaniyambadi was invited as the guest lecturer to share his insights on the uses of Energy Saving and its relevance to "modern engineering life".

STAFF ACHIEVEMENTS

- *Mr.V.Viji has delivered a guest lecture on **"Transformer"** at KET polytechnic college on 28th August 2014.*
- *Mrs.C.Bhuvaneswari has delivered a guest lecture on **"Electrical Machines"** at VPRS polytechnic college on 9th August 2014.*
- *Mrs.K.Malarkodi has delivered a guest lecture on **"Structure of Power System"** at KET polytechnic College on 9th August2014.*
- *Mrs.N.Jayanthi has delivered a guest lecture on **"FACTS Controller"** at KET polytechnic College on 9th August2014.*
- *Mr.K.Sathishkumar, Assistant Professor publishaed a paper in International Journal of Applied Engineering Research entitled **"Ant Colony Optimization based Control Strategy for PowerQuality Enhancement in an Autonomous Microgrid"**ISSN 0973-4562 Volume 9, Number 21 (2014) pp. 10539-10553.*
- *Mr.C.Kalaiarasan, Assistant Professor published a in International Journal of Emerging Technologies and Innovative Research entitled **"A Fuzzy Adaptive Voltage Control Strategy of 3-Phase Inverter for Stand-Alone Distributed Generation Systems "** Volume 1 Issue 6, ISSN:2349-5162 8th November 2014.*
- *Mr.V.Karthikeyan has delivered a guest lecture on **"STEPPER MOTOR"** at KET polytechnic College on 18th July 2014.*
- *Mr.V.Viji has delivered a guest lecture on **"DC GENERATOR"** at KET polytechnic College on 22nd July 2014.*

OFF CAMPUS PLACEMENT

S.NO	NAME OF THE STUDENT	ORGANISATION	DESIGNATION
1	MOHAMMED SALICK SHAFI.K	FLEXTRONICS TECHNOLOGIES INDIA PVT LTD	Jr.ENGINEER
2	DEVENDIRAN.N	SHANKAR ELECTRICALS	TECHNICIAN

ON CAMPUS PLACEMENT

S.NO	NAME OF THE STUDENT	ORGANISATION	DESIGNATION
1	AMUDHA.A	M/S.REDWAN TECHNOLOGIES PVT.LTD	Trainee Software Engineer
2	DIVYA.R	M/S.REDWAN TECHNOLOGIES PVT.LTD	Trainee Software Engineer
2	SOWNDARYA.P	M/S.REDWAN TECHNOLOGIES PVT.LTD	Trainee Software Engineer
3	MARTINA RUBAVATHY.J	AXIS SECURITIES LTD	Trainee Software Engineer
4	LALITH KUMAR.K	AXIS SECURITIES LTD	Trainee Software Engineer
5	KANIMOZHI.S	AXIS SECURITIES LTD	Trainee Software Engineer
6	CHANDRALEKA.G	AXIS SECURITIES LTD	Trainee Software Engineer
7	NAVEEN KUMAR.B	MAX IT	Technical Support Engineer

SOLAR POWER PLANT INSTALLATION

- *15 KW OFF GRID Solar power plant has been install in our campus on 17.10.2014. it consists of 60 Polycrystalline panel with 250 Watts capacity .*