Priyadarshini Engineering College,

Vaniyambadi 635751.

Department of Electrical and Electronics Engineering

MYSTERIOUS TRANSIENTS WHERE POWER BREATH

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

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HOD MESSAGE

VISION OF THE DEPARTMENT :

To produce eminent electrical engineer specifically from the rural background.

MISSIONOF 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.

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, electro magnetic 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:

Plan and manage a project in a cost effective manner.

ABOUT THE DEPARTMENT:

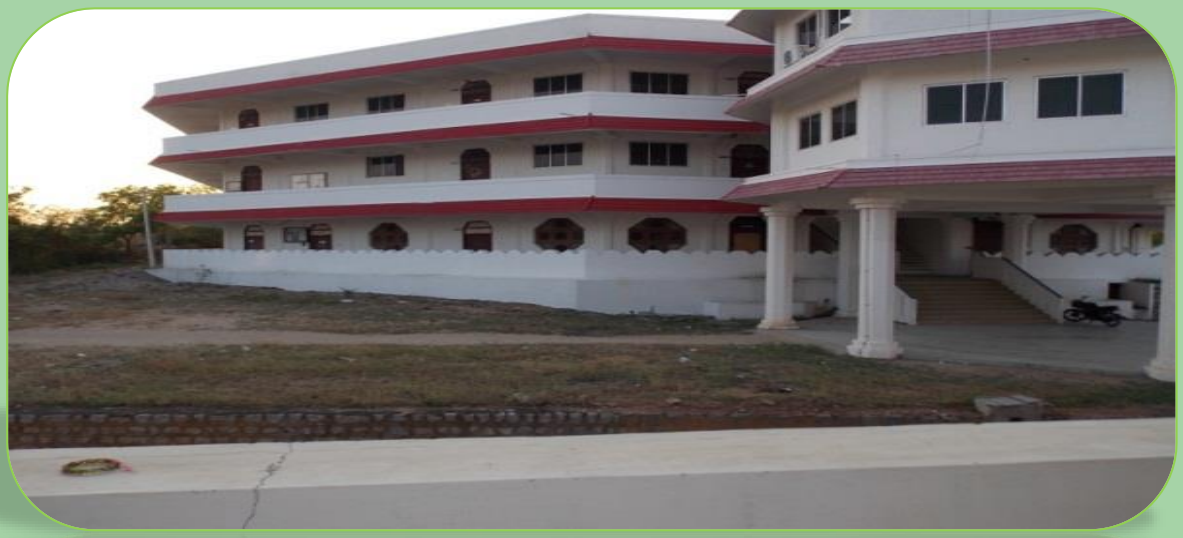
The Electrical and Electronics Engineering department was established in 1997, the labs are fully established including, Electrical Machines, Electrical Control systems lab, Electrical Measurements lab and Simulation lab.

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.

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 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.

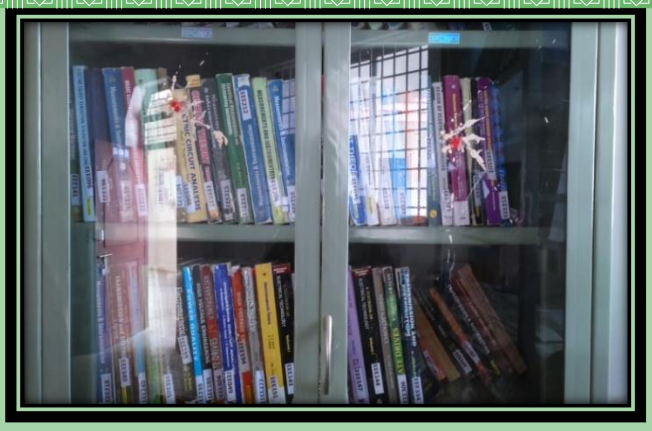


Electrical and Electronic Engineering is an exciting and dynamic field. Electrical engineers are responsible for the generation, transfer and conversion of electrical power, while electronic engineers are concerned with the transfer of information using radio waves, the design of electronic circuits,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

With the ambitious objective of developing professional expertise and skilled manpower that can face various challenges posed by power situations, drives, controls and instrumentation, the Department is constantly on the look out to modernize its laboratories and infrastructure to accommodate the latest trends of world-class research work. The Department gives maximum priority to updated technical information, through office automation with a true internet and intranet environment.

DEPARTMENT LIBRARY

The Department library has a large collection of books which includes all the text books prescribed in the syllabus, reference books,e-books and Lab manuals.



DEPARTMENT LABORATORY

Electrical Machines Laboratory *has around 25 machines which include, DC generators, motors, synchronous, motors, alternators and transformers.*

Electrical Measurements and Instrumentation 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 Electrical Circuits Lab, Digital Circuits Lab and the Power Electronics Lab, Control Systems Lab, Micro processor Lab.*

The simulation laboratory is equipped with latest computers and servers installed with licensed software. The students are encouraged to work on both in-house

STUDENTS ACHIEVEMENTS:

- *Mr.P.Gopiprakash Final year EEE has participated in project expo CEFEES '12 in DRDO, Delhi on 23rd October 2012.*
- *Mr.M.AshwinSrinivas,Mr.R.Barathkumar, Mr.S.Balamurali,Mr.MD.WasifurRahman, Mr. S. Sakthivel of Third year EEE has attended In-plant Training in Integral Coach Factory, Chennai on 22-06-2012 to 29-06-2012.*
- *Mr.S.Gowtham.M,Mr.LalithkumarL.Mr.SubashRao.V,Mr.Gnanasekaran, Mr.Thamizharasan.K,Mr.JunaidAbbas.M.Mr.Vijayasankar.V.A, Mr.MD Faisal .K, Mr. MD Salickshafi of Second year EEE has attended in-plant traninig in TirupatturCo.op Sugar mills limited, Tirupattur on 22-12-2012 to 28-12-2012*
- *Third year students has visited "INDO SHELL MOULD LIMITED" Ooty*

STUDENTS PERFORMANCE IN COMPETITIVE EXAM

S.NO	NAME OF THE STUDENT	YEAR	EXAM
1	VIJAYAKUMAR.G	2013	TANCET
2	RAJESH.A	2013	TANCET
3	HAREETHA SHREE.R	2013	TANCET
4	SANKARI DEVI.R	2013	TANCET
5	YUVARANI.B	2013	TANCET

STAFF ACHIEVEMENTS

- *Mrs.C.Bhuvaneswari, Mrs. R.Rajeswari, Assistant Professor published a journal " Study analysis of hybrid power plant(wind-solar)vertical axis wind turbine-Giromill Darrieus type with evacuated tube collectors" in- IJETEE(International journal of emerging trends in electrical and electronics)Volume1,Issue1,March2013 .*

- *Mrs.C.Bhuvaneswari, Assistant Professor has presented a paper titled "Study analysis of hybrid power plant (wind-solar) vertical axis wind turbine-Giromill Darrieus type with evacuated tube collectors"in the National conference XETA 2013 held at Jayam college of Engineering, Dharmapuri.*

- *Mrs. R.Rajeswari, Assistant Professor has presented a paper titled "Analysis of solar energy based street light with auto tracking system"in the National conference XETA 2013 held at Jayam college of Engineering, Dharmapuri.*

TEACHER'S DAY CELEBRATION:

Teacher's day was celebrated on 05.09.2012. All the teaching and non teaching staff members and Students attended the function.