

DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
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June 2017

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# PRIYADARSHINI ENGINEERING COLLEGE VANIYAMBADI 635751

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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 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*

## 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*

## MOTTO

**Perseverance, Endurance,  
Commitment**

*“கற்றலும், கற்றவைகேட்டலும், கேட்டதன்கண்நிற்றலும்*

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**HOD MESSAGE**

*The Department has always been on a highgrowth path and has well qualified, experiencedand dedicated faculty who work with zeal andenthusiasm to provide a vibrant and optimumlearning environment to the students in order tohelp them excel in today's competitive environment.*



**VISION OF THEDEPARTMENT**

*To produce eminent electrical engineer specifically from the 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.*

**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:**

Plan and manage a project in a cost effective manner.

**CONFERENCE /WORKSHOP/SEMINAR ATTENDED BY THE STAFFS:**

- Mrs.R.Rajeswari, Associate Professor of Priyadarshini Engineering College, Vaniyambadi has Participated in TEQIP –II Sponsered FDP on” **INDUSTRIAL DRIVES , AUTOMATION AND INTELLIGENT CONTROL**” at GCE SALEM on 1<sup>ST</sup> March to 7<sup>th</sup> March 2017.
- Mrs.R.Rajeswari, Associate Professor presented a paper entitled **“DISC TYPE TRANSFORMER WINDINGS IN AN OD COOLING MODE WITH DIRECTED OIL FLOW “** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadiduring April 7<sup>th</sup> &8<sup>th</sup>, 2017.
- Mrs.R.Rajeswari, Associate Professor presented a paper entitled **“APPLICATION OF BI-DIRECTIONAL METER IN DISTRIBUTED PHOTOVOLTAIC GRID TRANSFORMER “** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadi during April 7<sup>th</sup> &8<sup>th</sup>, 2017.
- Mrs.R.Rajeswari, Associate Professor presented a paper entitled **“MONITORING AND CONTROLLING OF POWER LOSS IN A TRANSFORMER “** in 2<sup>nd</sup> National Conference NCIRSEM’17 Organized by P.S.V College of Engineering and Technology on 27<sup>th</sup> & 28<sup>th</sup> April 2017.

- Mrs.R.Rajeswari, Associate Professor published a *International Journal of Advanced Engineering and Research Development (IJAERD)* entitled **“MONITORING AND CONTROLLING OF POWER LOSS IN A TRANSFORMER** “Paper ID #: IJAERD2017V04I0569316 , Volume 04 Issue 05, May – 2017.
- Mrs.C.Bhuvaneshwari Associate Professor of Priyadarshini Engineering College, Vaniyambadi has Participated in TEQIP –II Sponsered FDP on **INDUSTRIAL DRIVES , AUTOMATION AND INTELLIGENT CONTROL** “at GCE SALEM on 1<sup>ST</sup> March to 7<sup>th</sup> March 2017.
- Mrs.C.Bhuvaneshwari Associate Professor presented a paper entitled **“PERFORMANCE ASSESMENT OF 15KW SOLAR POWER PLANT AT PEC”** in the International Conference On Trends & Advanced Research in Green Energy Technologies ICTARGET – 2017 during 30 & 31<sup>st</sup> March 2017 at Vellore Institute of Technology.
- Mrs.C.Bhuvaneshwari Associate Professor presented a paper entitled **“PERFORMANCE ASSESMENT OF 15KW SOLAR POWER PLANT AT PEC”** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadi during April 7<sup>th</sup> & 8<sup>th</sup>, 2017.
- Mrs.N.Jayanthi Associate Professor of Priyadarshini Engineering College, Vaniyambadi has Participated in TEQIP –II sponsored FDP on **“INDUSTRIAL DRIVES , AUTOMATION AND INTELLIGENT** “t GCE SALEM on 1<sup>ST</sup> March to 7<sup>th</sup> March 2017.
- Mrs.N.Jayanthi Associate Professor presented a paper entitled **“TESTING OF BREAKDOWN STRENGTH IN POWER TRANSFORMER UING PALM OIL”** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadi during April 7<sup>th</sup> & 8<sup>th</sup>, 2017.

- *Mr.M.Selvaperumal Associate Professor presented a paper entitled **“THREE PHASE 19 LEVEL MODULAR MULTILEVEL INVERTER FOR RENEWABLE ENERGY SOURCE”** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadi during April 7<sup>th</sup> & 8<sup>th</sup>, 2017.*
- *Mrs.K.Malarkodi Assistant Professor presented a paper entitled **“ENERGY EFFICIENT ACQUISITION OF WIRELESS BODY SENSOR “** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadi during April 7<sup>th</sup> & 8<sup>th</sup>, 2017.*
- *Mrs.K.Malarkodi Assistant Professor presented a paper entitled **“ANALYTICAL ANALYSIS ON WIRELESS SENSOR NETWORK ADAPTING CSMA/CA PROTOCOL “** with id no IC GPC069 in 4<sup>th</sup> international conference on green technologies for power generation , communication and instrumentation (ICGPC '17) on 3<sup>rd</sup> and 4<sup>th</sup> April 2017 organised by department of ECE at St.Peter's University , Chennai, India .*
- *Mr.V.Viji Assistant Professor presented a paper entitled **“POWER FACTOR IMPROVEMENT OF BLDC MOTOR USING VOLTAGE SOURCE INVERTER WITH CONTROLLED SPEED USING GENETIC ALGORITHM”** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA '2017) held at Priyadarshini Engineering College, Vaniyambadi during April 7<sup>th</sup> & 8<sup>th</sup>, 2017..*

### STUDENTS ACHIEVEMENTS

- B.Limba , PG Student presented a paper entitled **“VOLTAGE CONTROL AND STABILITY ANALYSIS FOR AN AUTONOMOUS AC MICROGRID”** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadiduring April 7<sup>th</sup> & 8<sup>th</sup>, 2017..
- B.Limba, PG Student presented a paper entitled **“PERFORMANCE ANALYSIS OF STABILITY & VOLTAGE CONTROL USING P-F & Q-V DROOP CONTROLLER FOR AN AUTONOMOUS AC MICROGRID”** in 2<sup>nd</sup> National Conference NCIRSEM'17 Organized by P.S.V College of Engineering and Technology on 27<sup>th</sup> & 28<sup>th</sup> April 2017
- B.Limba, PG Student published a International Journal of Advanced Engineering and Research Development (IJAERD) entitled **“PERFORMANCE ANALYSIS OF STABILITY & VOLTAGE CONTROL USING P-F & Q-V DROOP CONTROLLER FOR AN AUTONOMOUS AC MICROGRID “** Paper ID #: IJAERD2017V04I0551893, Volume 04 Issue 05, May – 2017
- R.Srilekha, PG Student presented a paper entitled **“DISC TYPE TRANSFORMER WINDINGS IN AN OD COOLING MODE WITH DIRECTED OIL FLOW”** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadiduring April 7<sup>th</sup> & 8<sup>th</sup>, 2017..



- *R.Srilekha, PG Student presented a paper entitled **“MONITORING AND CONTROLLING OF POWER LOSS IN A TRANSFORMER** “ in 2<sup>nd</sup> National Conference NCIRSEM’17 Organized by P.S.V College of Engineering and Technology on 27<sup>th</sup> & 28<sup>th</sup> April 2017*
- *R.Srilekha, PG Student published a International Journal of Advanced Engineering and Research Development (IJAERD) entitled **“MONITORING AND CONTROLLING OF POWER LOSS IN A TRANSFORMER** “Paper ID #: IJAERD2017V04I0569316 , Volume 04 Issue 05, May – 2017.*
- *B.Vijay, PG student presented a paper entitled **“PERFORMANCE ASSESMENT OF 15KW SOLAR POWER PLANT AT PEC”** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadiduring April 7<sup>th</sup> & 8<sup>th</sup>, 2017..*
- *M.Sankarganesh, PG student presented a paper entitled **“THREE PHASE 19 LEVEL MODULAR MULTILEVEL INVERTER FOR RENEWABLE ENERGY SOURCE”** in the Third National Conference On Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2017) held at Priyadarshini Engineering College, Vaniyambadiduring April 7<sup>th</sup> & 8<sup>th</sup>, 2017..*

***THIRD NATIONAL CONFERENCE ON RECENT  
INNOVATIONS IN ENGINEERING, TECHNOLOGY,  
MANAGEMENT AND APPLICATIONS (RIETMA 2017)***



***HONOURING THE CHIEF  
GUEST DR.I.THANGARAJU  
BY MR.M.SELVAPERUMAL***



***PRESENTATION BY CHIEF  
GUEST***



***STUDENT  
PRESENTATION***



***CERTIFICATE  
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## Condolences

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*On behalf of the Department of EEE, We would like to extend our sincere condolences and sympathy to Prof..R.THILEPA who have worked in the field of electrical engineering.*

*Prof.R.THILEPA known to most of us as an IEEE member of various engineering college, died on Monday, May 24, 2017 at the age of 36.*

*We remember Prof.R.THILEPA in particular by her very active promotion of the exchange of knowledge in the field of electrical engineering with her keynote speeches in IEEE function. Her reviews were always critical, but at the same time mild because she had an open eye for human relations and a good sense of humor.*



*She was a gracious colleague, always willing to discuss problems, and friend to many in the field. We will miss her greatly.*

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