

# PRIYADARSHINI ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Permanently Affiliated to Anna University, Chennai)

*Department of Electronics  
and Communication  
Engineering*  
**NEWS LETTER**

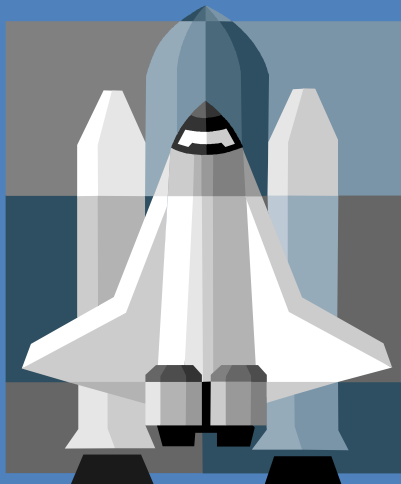


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## **ABOUT THE COLLEGE**

Moved by the sad plight of affairs which was prevailing among the rural based population of Vaniyambadi and nearby Villages who were quite unaware of the technological explosion that was taking place in India, the philanthropist of Vaniyambadi and nearby villages came together and established Jai Barath Charitable Trust in the year 1994 and started Pariyadarshini Engineering College in the year 1995 under its banner with their sumptuous contributions.

With the sole aim that the accomplishment of the Vision and Mission of the Trust does not get shattered, the matter was referred to the Honorable High Court of Madras for scheming. The Honorable High Court of Madras appointed Retired Justice V. Rengasamy as the Receiver of the Trust in the year 2004 which appointment was confirmed by the Honorable Supreme Court of India, New Delhi. Right from that time Honorable Justice V. Rengasamy with his efficient leadership, guidance and impeccable integrity is administering Pariyadarshini Engineering College faithfully following the Vision and Mission of Jai Barath Charitable Trust in letter and spirit and has raised the college to greater heights. He took initiative to establish palatial buildings and labs in the college. He made it a point to fully equip the labs with the necessary software and our labs are deficient free as per the AICTE and Anna University norms. He introduced B.E (Civil) in Undergraduate Course and M.E (Power Systems) and M.E (Engineering Designs) in Postgraduate course. He continues to administer the institution with full zeal and zest till date.

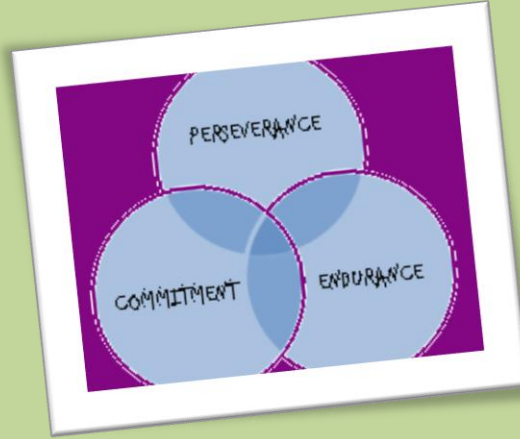
## **VISION OF THE COLLEGE**

To Inculcate In the Young Rural Minds the Aptitude to Compete With the Quality Technocrats

## **MISSION OF THE COLLEGE**

- ❖ To instill technical skills to compete for a sustainable world
- ❖ To impart holistic value based technical education
- ❖ To intensify international research and development (R & D) cooperation in technological development
- ❖ To imbibe core values of love for motherland, performance of duty, compassion, tolerance, honesty and integrity

## COLLEGE MOTTO



"கற்றலும், கற்றவை கேட்டலும், கேட்டதன்கண் நின்றலும்"

### ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was started in PEC in the year 1995 with the intake of 60 students with the objective of imparting quality education in the field of Electronics and Communication and the intake was increased to 120 in the year 2013. The department started M.E.Communication System in the year 2014 with an intake of 24 students. At present, the department is offering an undergraduate course in Electronics and Communication Engineering and one post graduate course in Communication Systems. The department has well-equipped laboratories with the facility of working in various areas like Integrated circuits, Microprocessor and Microcontrollers with interfaces, Microwave and optical communication, Digital signal processing and VLSI etc. The department has dynamic and committed faculty members who have published and presented papers in various Journals, National and international conferences in the area of speech processing, image processing, wireless communication networks and neural networks. Original MATLAB 7.0 with signal processing tool box, ORCAD PSPICE 16.1 version, XILINX 9.1, TANNER EDA 15.11 version is added to the department to bring multi faceted knowledge among students in the ECE discipline. The department in association with student professional bodies like IETE, ISTE, and ICTACT has organized several workshops, conferences and other technical events.

The ultimate aim of the department is to foster the technical skills in the field of Electronics and Communication that will help the students to practically express their findings as products conducive to the society.

### **VISION OF THE DEPARTMENT**

To develop high quality, technically competent and socially responsible Engineers in the field of communication from rural background.

### **MISSION OF THE DEPARTMENT**

1. To imbibe technical skills among graduates relevant to the area of electronics and communication engineering field.
2. Making our students technologically superior and ethically strong.
3. To instill skills among students to meet the industrial requirement

### **PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)**

Program Educational Objectives (PEOs) are Broad Statements that describe what Graduates are expected to attain within a few years of Graduation. Program Educational Objectives are based on the needs of the program's Constituencies.

### **OBJECTIVES OF THE PROGRAM**

#### **PEO1: *Core Competence***

Graduates Excel In analyzing, designing, simulating and testing of all Electronics and Communication Engineering.

#### **PEO2: *Breadth***

Graduates exhibit their multidisciplinary skills to integrate Contemporary knowledge.

#### **PEO3: *Life Long Learning***

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

#### **PEO4: *Professionalism***

Graduates excel in their professional careers as Engineers, consultants and entrepreneurs.

## **PROGRAMME OUTCOMES (PO'S)**

Programme outcomes are narrower statements that describe what students are expected to know and be able to do upon the graduation. They are formed in line with the graduate attributes of NBA. These relate to the skills, knowledge, attitudes, values and behavior outcomes that students acquire through the programme.

Graduates will have ability to:

### **Programme Outcome 1 (Engineering Knowledge):**

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

### **Programme Outcome 2 (Problem Analysis):**

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

### **Programme Outcome 3 (Design & Development of Solutions):**

Analyze and design the electronic components and to apply in analog and digital communication systems.

### **Programme Outcome 4 (Investigation of Complex Problem):**

Analyze and design the electronic components and to apply in analog and digital communication systems.

### **Programme Outcome 5 (Modern Tools Usage):**

Use contemporary computing tools and techniques in electronics and communication Engineering applications.

### **Programme Outcome 6 (Engineer and Society):**

Handle engineering aspects of modern electronics and communication technology, utilization and the impact of engineering solutions to the Societal needs.

### **Programme Outcome 7 (Environment & Sustainability):**

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

### **Programme Outcome 8 (Ethics):**

Apply the ethical principles to their profession and social issues.

### **Programme Outcome 9 (Individual & Team work):**

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

### **Programme Outcome 10 (Communication):**

Effectively communicate and present technological developments.

**Programme Outcome 11 (Lifelong Learning):**

Gain self-confidence to engage in lifelong learning.

**Programme Outcome 12 (Project management & Finance):**

Plan and manage a project in a cost effective manner.

**FROM THE EDITORS DESK**

**Dear Readers,**

Hearty welcome to the newly launched ECE Department's first issue of the news letter for the academic year 2017-2018.

The objectives of the news letter is to mainly focus on the

- Achievements of the Students and faculty members from the ECE department in Curricular, Co-Curricular and Extra –curricular Activities.
- The Recent Trends in the area of Electronics and Communication Engineering and related areas.

I congratulate all my team members for their constant efforts in launching this News Letter. We are very Grateful to our Management and Principal for their Support and Encouragement.

Editor-in-chief, Dept News Letter

*EDITORIAL BOARD:*

*Mr. R.Sivakumar,*  
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## ADMINISTRATOR'S MESSAGE



India has the world's largest population. It is not enough to only foster cognitive intelligence among the youth. The youth requires a mutual faculty endowed with multi dimensional intelligence. What are the objectives that the youth should work towards? These cannot be purely materialistic, materialistic Programme alone does not guarantee national security. What is essential is the character or integrity of the country's citizens. A national policy for integrating spiritual values and organization leadership can be achieved through measures by which we can create a modern Mindset among the youth. This will not only motivate them to acquire technical cognitive competence but also develop their emotional,, moral , social, spiritual, environmental and innovational intelligence. This will make them more patriotic self-reliant individuals of high character, possessing a social conscience. Such an army of evolved youth will be the asset of the nation

## PRINCIPAL'S MESSAGE



I am happy to meet all of you through this News Letter and I thank all the staff who strived to give professional education in a new perspective manner and achieve perfection in all the fields. The main reason for our tremendous performance in various activities is the involvement of the faculty members who motivated students whole heartedly to participate in the seminars, industrial visit, inter activity session and other extracurricular activities to inculcate in them sound moral values, strong personality and eagerness to work in the society. Because of these efforts we have been successful in moulding the personality of our students and imbibe in them moral values and the spirit to team work. As a result 328 of our students leaving the institution in the year 2015 got Placed in reputed and renowned firms. I wish this solidarity continues for successive years and we would be proud to release many more news letter like this, highlighting our achievements. I have no doubts in near future PEC will be termed as one of the leading technical institutions in our district.

## HOD MESSAGE



THE DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING (ECE) has consistently maintained an exemplary academic record. The greatest asset of the department is its highly motivated and learned faculty. The available diversity of expertise of the faculty with the support of the other staff prepares the students to work in global multicultural environment. The graduates of the Electronics & Communication Stream have been selected by some of the world's leading corporations & as well as by most of the leading Indian counter parts.

We hope that we will continue to deliver our best to serve the society and mankind. It is also expected and that our students will continue to pass-on the skills which they have developed during their stay at this department to whole of the world for a better society. We will be happy to receive your suggestions for further improvement and development of our department.

### Department Activities

S.No	Name of the Events	Date	Resource Persons
1	Guest lecture on "Environment Health and Safety"	21/07/2017	Mr.A.Arun, B.E., (PEC Alumnus/ ECE/2005-2009Batch) EHS Executive Health and Safety. Honeywell, Chennai

#### Conference/workshop/seminar/FDP attended by faculty members:

- Dr.M.Umadevi, Professor Presented a paper titled with "Cooperative MIMO routing protocol for clustered WSN" in an innovative scientific research professional conference on 21<sup>st</sup> & 22<sup>nd</sup> Oct 2017 at Malaysia.
- Mr.R.Selvarasan, Asso.Professor has attended one day ICT Conference on 9<sup>th</sup> Aug 2017 at Chennai.

- Mr.P.Arunkumar Asst.Professor has attended 3 day FDP on networking simulation using QUALNET software& Circuit simulation /PCB design using target 3001 software.Organised by Dell soft Technologies Pvt.ltd on 13<sup>th</sup> to 15<sup>th</sup> Sep 2017.
- Department faculty members attended one day Guest Lecture on "Environment Health and Safety "on 21-07-2017 at Priyadarshini Engineering College.



➤ Mr.S.karthik Asst.Professor,has participated in the Two day FDP on Teaching and Learning Enhancement through outcome based Education, conducted at Valliammai Engineering College on 7<sup>th</sup> & 8<sup>th</sup> Dec 2017.

➤ Department faculty members participated in the one day workshop on “Myths and realities of R&D at colleges: Opportunities, Challenges & Report Writing and Plagiarism Checking” held at Priyadarshini Engineering College on 18<sup>th</sup> Nov 2017.

➤ Department faculty members attended one day workshop on “Financial assistance for R&D from funding agencies for colleges with 2(f) & 12(B) status” held at Priyadarshini Engineering College on 5<sup>th</sup> Dec 2017.

➤ Department faculty members attended one day workshop on Intellectual Property Rights & Innovations held at Priyadarshini Engineering College on 14<sup>th</sup> Dec 2017.

#### Conference/workshop/seminar attended by Student:

➤ Final Year students, S.K Barkathulla, A.Ajay, K.Ajith ,kumar, Md.Falah Kabeer V.Viveganandhan, N.Vignesh attended Two days conference on Indian Technology Congres 2017-10&11 Aug 2017 at NIMHANS Convention Center Bangalore.

➤ Final Year students B.Nevetha, M.Jothi, S.Priya presented a paper and won 2<sup>nd</sup> prize in Technical Symposium conducted by Er.Perumal Manimegalai College of Engg & Tech, Hosur on 14<sup>th</sup> Sep 2017.

➤ Final Year students, T.Sughasini, J.Pavithra(22), K.rajeswari, K.Pavithra(24), V.vaishnavi, r.Poojalakshmi, Faizan S.K Barkathulla, A.Ajay, K.Ajith ,kumar, Md.Falah Kabeer V.Viveganandhan, N.Vignesh participated in Technical Symposium conducted by Adhiyaman College of Engg, Hosur on 13<sup>th</sup> Sep 2017.

➤ Final Year students attended Entrepreneurship Awareness Camp from 30<sup>th</sup> Aug to 1<sup>st</sup> Sep 2017 at Priyadarshini Engineering College.

➤ Final year students A.Ajay, Md.Falah Kabeer. Had completed “cloud computing” online course in NPTEL.

➤ Third year Student A.D.Sanjeevi got 1<sup>st</sup> Prize for Circuit debugging in Technical Symposium on 5<sup>th</sup> Oct 2017 at P.S.V. College of Engineering.

➤ Third year Student G.Kamalesh got 2<sup>nd</sup> Prize for Circuit debugging in Technical Symposium on 5<sup>th</sup> Oct 2017 at P.S.V. College of Engineering

➤ Third year Students R.Naveen, T.C.Prasanth Participated for Circuit debugging in Technical Symposium on 5<sup>th</sup> Oct 2017 at P.S.V. College of Engineering

➤ Third year Students V.Avinash , S.Dharshan won 1<sup>st</sup> Prize for Quiz in Technical Symposium on 5<sup>th</sup> Oct 2017 at P.S.V. College of Engineering.

➤ Third year Students A.D.Sanjeevi, T.C.Prasanth won 2<sup>nd</sup> Prize for Quiz in Technical Symposium on 5<sup>th</sup> Oct 2017 at P.S.V. College of Engineering.

➤ Third year Students R.Naveen, G.Kamalesh, M.Ahok, S.Ganesh Babu, J.Lokesh Participated in Technical Symposium on 5<sup>th</sup> Oct 2017 at P.S.V. College of Engineering .

#### Cultural Activities

➤ Final year students P.Gopi and R.Anbarasn , J.Hidumathi , S.archana participated In Radio Mirchi Kaloori Stars Competition at Priyadarshini Engineering College on 18<sup>th</sup> Sep 2017.

➤ Thied year student S.Habishek got 2<sup>nd</sup> prize on Kavithai in ARTSMART-2K17 28th sep 2017 at MKJC for Womens.

➤ Third year Students E.Senthil kumar, M.Ashok, J.Lokesh, A.D.Sanjeevi, R.Naveen, G.Kamalesh, S.Habishek, and 2<sup>nd</sup> year student M.S.Zahir ahmed. Participated in Pride Walk on ARTSMART-2K17 28<sup>th</sup> Sep 2017 at MKJC for Womens.

- Second year student M.S.Zahir ahmed participated in singing event on radio Mirchi Kaloori Stars Competition at Priyadarshini Engineering College on 18<sup>th</sup> Sep 2017.
- Second year student Sarika participated in dance event on ARTSMART-2K17 28th Sep 2017 at MKJC for Womens.

### **Industrial Visit**

- Final year students visited LANSA informatics Pvt Ltd, Coimbatore on 18<sup>th</sup> Aug 2017.

### **In plant Training**

- Third year students visited IRIS Technology, Vadapalani, Chennai. from 12<sup>th</sup> to 15<sup>th</sup> Dec 2017.

## GUEST LECTURE



Guest Lecture ON “Environment Health and Safety” on 21<sup>st</sup> July 2017. Guest Lecture Delivered by **Mr.A.Arun, B.E.**,(PEC Alumnus/ECE/2005-2009Batch),EHS Executive Health and Safety.Honeywell, Chennai.