



VOLUME 4 | ISSUE 2 | 2015-2016

# PRIYADARSHINI ENGINEERING COLLEGE

DEPARTMENT OF  
ELECTRONICS AND  
COMMUNICATION  
ENGINEERING



*Vizvasa---The Newsletter*

## ABOUT THE COLLEGE

Moved by the sad plight of affairs which was prevailing among the rural based population of Vaniyambadi and nearby Village 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 Priyadarshini 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 Priyadarshini 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), M.E (Engineering Designs), M.E (Communication System) and M.E (Computer Science Engineering) in Postgraduate course. He continues to administer the institution with full zeal and zest till date.

### VISION:

- ✦ To Inculcate In The Young Rural Minds The Aptitude To Compete With The Quality Technocrats

### MISSION:

- ✦ 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

## **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 10.1 version, XILINX 9.1 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 ISTE, 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**

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

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

### **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)**

**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, communication theory and apply them to electronics and communication engineering applications.

**PO3 (Design & Development of Solutions):** Analyze and design the electronic components and to apply in analog and digital communication systems.

**PO4 (Investigation of Complex Problem):** Analyze and design the electronic components and to apply in analog and digital communication systems.

**PO5 (Modern Tools Usage):** Use contemporary computing tools and techniques in electronics and communication Engineering applications.

**PO6 (Engineer and Society):** Handle engineering aspects of modern electronics and communication technology, 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.

## 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 2015-2016.

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 thankful to our Management and Principal for their Support and Encouragement.

Dr.R.Sivakumar, Editor-in-chief, Dept News Letter

### EDITORIAL BOARD:

*Dr.R.Sivakumar,* *Mounika Devi R*  
*Associate Professor & Head, Dept of ECE* *Final Year ECE*  
*Editor -in-chief, Dept News Letter*

*Mr.R.Selvarasan,* *Gnanavel*  
*Associate Professor/ECE* *Final Year ECE*

*Mr.K.Karthick Neman*  
*Assistant Professor/ECE* *Final Year ECE*

*Ms.S.Senthamizhl Selvi,* *Ramya L*  
*Assistant Professor /ECE* *Final Year ECE*

Department Events		
Date	Program	Dignitaries
22.03.2016	Guest lecture on "Embedded systems" for III & IV year students on 22 <sup>nd</sup> March 2016	<b>Chief Guest:</b> Mr.B.Karthikeyan,AP, VIT University.
30.03.2016	National level Technical Symposium "ECCLESIA 2K16"	<b>Chief Guest:</b> P.Sivakumar, Professor/ECE, SKP engineering College.
02.04.2016	Power seminar on "Ethical hacking and Cyber security"	<b>Chief Guest:</b> Dr.N.Sivarajan, TechnicalDirector, ChannelLive Inc., Chennai
15.04.2016 to 16.04.2016	Two days national conference on "Recent Innovations in Engineering, Technology, Management & Applications" (RIETMA-2016)"	<b>Chief Guest:</b> Dr. P.Anandan, HOD-PG& Professor/ECE, SKP engineering College
20.04.2016	Workshop on "Embedded Home Automation using arduino"	<b>Chief Guest:</b> Mr. M.Samuel Livingston,CEO, Kristotech pvt.Ltd.



National level Technical Symposium "ECCLESIA 2K16"



Guest lecture on "Embedded systems"

**Staff Achievement Details and Participation in Various Institutions:**

- ❖ Mr. R.Sivakumar, HOD/ECE has presented a paper titled “Residential appliances control using Internet of things” in the two day national conference on “Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. R.Selvarasan, AP/ECE has presented a paper titled “Path Congestion and failure in an Interactive Network Applications” in the two day national conference on “Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. T.Vignesh AP/ECE has presented a paper titled “Implementation of Electrocardiogram Monitoring and Heart Rate Measurement System” in the two day national conference on “Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. P.Arun Kumar, AP/ECE has presented a paper titled “Implementation of Electrocardiogram Monitoring and Heart Rate Measurement System” in the two day national conference on “Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. G.Manigandan, AP/ECE has presented a paper titled “64 STAGE ROPUFs GDS2 for Device Authentication and Secret key Generation” in the two day national conference on “Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. P.Arun Kumar, AP/ECE has presented a paper titled “64 STAGE ROPUFs GDS2 for Device Authentication and Secret key Generation” in the two day national conference on “Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. S.Karthik, AP/ECE has presented a paper titled “PWireless sensor networks using ZigBee” in the two day national conference on “Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. G.Subramani, AP/ECE has presented a paper titled “Detection of Hazardous in Gas Pipeline using Wireless Sensor Node” in the two day national conference on “Recent Innovations in Engineering, Technology, and Management& Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.

- ❖ Mr. S.Samundeeswari, AP/ECE has presented a paper titled “Path Congestion and failure in an Interactive Network Applications” in the two day national conference on “ Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. S.Ramapriya, AP/ECE has presented a paper titled “A Novel Method for Paralytic Hand Rehabilitation using EMG conrtroller” in the two day national conference on “Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. K.Karthick, AP/ECE has presented a paper titled “Embedded Based Remote Monitoring System for Mobile base stations using IOT” in the two day national conference on “ Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ K.Sridhar, AP/ECE has presented a paper titled “Embedded Based Remote Monitoring System for Mobile base stations using IOT” in the two day national conference on “ Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. G.Subramani, AP/ECE has presented a paper titled “Cooperation Relaying Spectrum sharing in Cognitive Radio Networks” in the two day national conference on “Recent Innovations in Engineering, Technology, and Management& Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. S.Gaythri, AP/ECE has presented a paper titled “Next Generation Narrow Band(Under 500khz) power Line Communication Standards” in the two day national conference on “ Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.
- ❖ Mr. S.Senthamizhselvi, AP/ECE has presented a paper titled “Health care system based on Ant+ Protocol” in the two day national conference on “ Recent Innovations in Engineering, Technology, Management & Applications” (RIETMA-2016) held on 15 & 16<sup>th</sup> April 2016 in our college.

### Student Achievement:

S.No	Name	Event	Date	College
1.	M.Jagadeeshwari, M.Arthi, PG scholars(First year M.E-CS)	Presented a paper titled “Path Congestion and failure in an Interactive Network Applications”	15.4.2016	Priyadarshini Engineering college



2.	HariPriya.B Third year ECE	Presented a paper titled "Implementation of Electrocardiogram Monitoring and Heart Rate Measurement System"	15.4.2016	Priyadarshini Engineering college
3.	Janani.M Third year ECE	Presented a paper titled "64 STAGE ROPUFs GDS2 for Device Authentication and Secret key Generation"	15.4.2016	Priyadarshini Engineering college
4.	S.Shalini and V.Santhiya, First year M.E(CS)	Presented a paper titled "Wireless sensor networks using ZigBee"	15.4.2016	Priyadarshini Engineering college
5.	P.Soundarapandy, Final year ECE	Presented a paper titled "Residential appliances control using Internet of things"	15.4.2016	Priyadarshini Engineering college
6.	G.Meena and M.Vaishalini, First year M.E(CS)	Presented a paper titled "Detection of Hazardous in Gas Pipeline using Wireless Sensor Node"	15.4.2016	Priyadarshini Engineering college
7.	G.Meena, Final year ECE	Presented a paper titled "Path Congestion and failure in an Interactive Network Applications"	15.4.2016	Priyadarshini Engineering college
8.	S.Pavithra Final year ECE	Presented a paper titled "A Novel Method for Paralytic Hand Rehabilitation using EMG controller"	15.4.2016	Priyadarshini Engineering college
9.	J.Nandhini and R.Nivedha, First year M.E(CS)	Presented a paper titled "Cooperation Relaying Spectrum sharing in Cognitive Radio Networks"	15.4.2016	Priyadarshini Engineering college
10.	T.Soorya and R.Soniya Final year ECE	Presented a paper titled "Next Generation Narrow Band(Under 500khz) power Line Communication Standards"	15.4.2016	Priyadarshini Engineering college
11.	N.Rajakumari and E.Subashini, Final year ECE	Presented a paper titled "Health care system based on Ant+ Protocol"	15.4.2016	Priyadarshini Engineering college

**Placement:**

- ❖ Final year students V.Abrar Basha, A.Raghavan, M.Gnanavel were placed in AXIS Bank.
- ❖ Final year student Ragul.V was placed in WIPRO by attending the placement program at VIT Consortium.
- ❖ Final year student R.Mounika Devi was shortlisted for the next level in HCL Technologies.
- ❖ Final year students A.Raghavan, R.Nagarajan, R.Mounika Devi, D.Kamali, M.Anupriya were placed in Zealous Services.
- ❖ The final year ECE students N.Rajakumari, M.Latha, P.Kodila, S.D.Aswini were placed in LIC.
- ❖ The final year students K.Janani, R.MounikaDevi were placed in S10 Health.
- ❖ The final year student A.Raghavan was placed in Vertex.
- ❖ The final year student R.Bharath was placed in Williams Wonders
- ❖ The final year students K.Janani, P.Kodila were placed in Chola MS General Insurance.

**Cultural activities:**

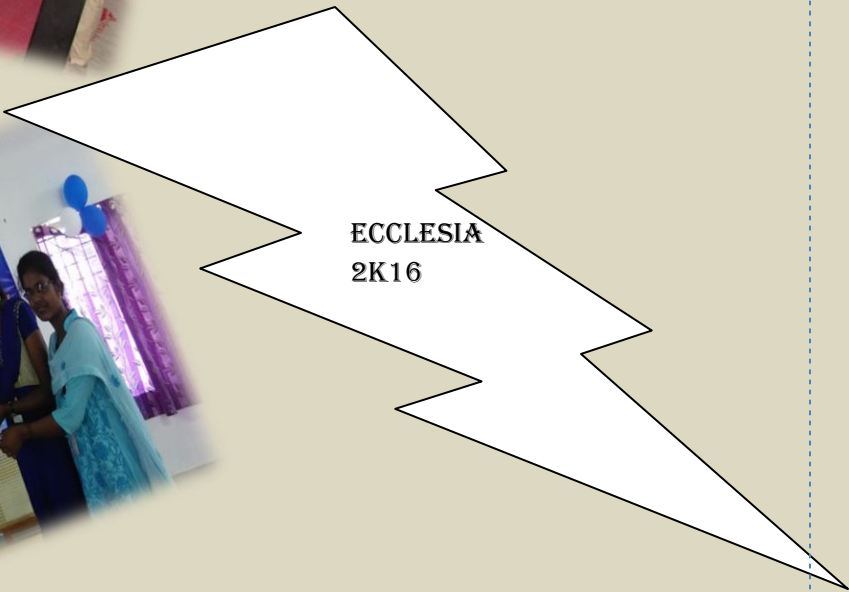
- ❖ The Third year students P.Madhuram, M.Janani, R.Anupriya, V.Kiruthiga, S.Sathya and D.Divya won first prize in dance competition held at MNM Jain College Artsmart on Feb 2016.
- ❖ P.Madhuram and M.Janani of third year ECE has won Second place in Couple Dance competition held at Artsmart, MNM Jain College on Feb 2016.
- ❖ Third year ECE girls team has won Third prize in Fashion Parade event held at Artsmart, MNM Jain College on Feb 2016
- ❖ Third year student P.Madhuram and S.Sathya had won First place in Couple Dance in the cultural competition on March 2016 which was conducted by our college.
- ❖ ECE girls' team won First place in Mime Show, Group Dance and Comedy Show events in the cultural on March 2016 competition which was conducted by our college.
- ❖ ECE girls' team won Second place in Cooking and Variety show events in cultural competition on March 2016 which was conducted by our college.
- ❖ ECE boy's team has won first place in Cooking, Junk art and Mime show events in the cultural competition on March 2016 which was conducted by our college.

- ❖ Third year ECE student R.Anupriya won First place in Solo Singing in cultural competition on March 2016 which was conducted by our college.
- ❖ ECE boy's team has won Second prize in the Variety Show and Third prize in group dance, Clay work, and Pencil sketch competitions held in the cultural on March 2016 which was conducted by our college.
- ❖ Third year ECE student Ravi Krishnan has won first prize in Tattoo and second prize in Pencil Sketch competitions held in the cultural on March 2016 which was conducted by our college.

### **Sports**

- ❖ ECE girl's team has won First prize in Throw Ball and carom match held at Sports Competition on March 2016.
- ❖ Third year Janani has won First prize in 100 Meters Running competition held at Sports Competition on March 2016.
- ❖ T.Esaikuzhil of final year ECE has won First prize in Javelin throw held at Sports Competition on March 2016.
- ❖ Thrid year ECE student Sumitha has won Third prize in Discuss Throw held at Sports Competition on March 2016.
- ❖ R.Keerthana, P.Madhuram, T.Esaikuzhil has won First prize in Relay held at Sports Competition on March 2016.
- ❖ ECE boy's team has won the Cricket and Table Tennis matches held at Sports Competition on March 2016.
- ❖ ECE boy's team has won the Second prize in Basket ball and Foot Ball matches held at Sports Competition on March 2016.
- ❖ ECE girl's team has won the Second prize in Volley Ball and Shuttle matches held at Sports Competition on March 2016.

Gallery





Guest lecture on "Embedded systems" for III & IV year students on 22<sup>nd</sup> March 2016, given by Mr. B. Karthikeyan, AP, VIT University.



Workshop on "Embedded Home Automation using arduino" given by Mr. M. Samuel Livingston, CEO, Kristotech pvt. Ltd.

*Vizvasa*

*The Newsletter*