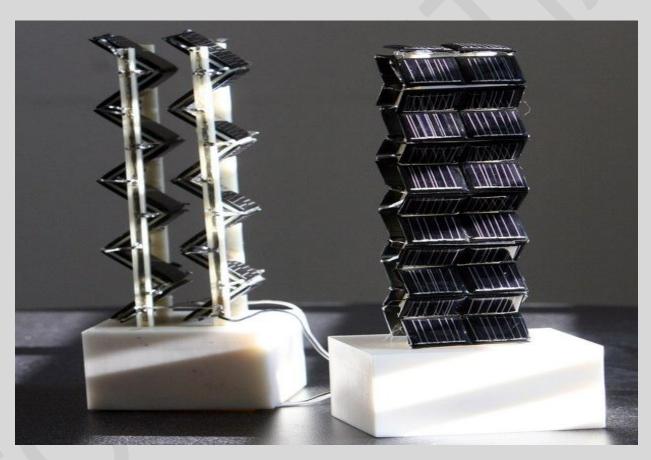


# Department of Electronics and Communication Engineering

Priyadarshini Engineering College, Vaniyambadi-635751.

VIZVASA-(2013-2014)

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# **COLLEGE MOTTO:**

PERSEVERANCE, ENDURANCE, COMMITMENT

"கற்றலும், கற்றவை கேட்டலும், கேட்டதன்கண் நிற்றலும்"

### 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:**

# **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.
- 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 2014-2015.

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.

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

# EDITORIAL BOARD:

Mr.R.Sivakumar

Associate Professor & Head, Dept of ECE

Final Year ECE

Editor -in-chief, Dept News Letter

Mrs S.Samundeeswarí, Nandhíní.R Associate Professor /ECE Final Year ECE

Mrs R. Elavarasí, Faiza thaseen. R

Associate Professor /ECE Final Year ECE

Mrs S.Gayathrí, Rajkumar .J Associate Professor/ECE Fínal Year ECE



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 80 of our students leaving the ECE department 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.

# VICE PRINCIPAL'S MESSAGE



It is always a pleasure to be a part of a team which strives to bring out the talents of students and staff. The essential purpose of a college magazine is to inform, engage, inspire and entertain a diverse readership – including alumni, parents, students, faculty, staff and other friends of the college. The Department of ECE has seen a considerable growth since its inception in the year 1995. The well qualified faculty and courses of this department aid to prepare students for careers as professional engineers through an education in fundamental principles as well as in the context of real application and design environment. The department encourages all students to take advantage of the opportunities provided by the institute and participate in all the extracurricular activities that are offered.

I wish to emphasis the importance of few things that we always have to remember. Parents and teachers should remember that students should not be forced, but should be guided to achieve their goals in an easy and pleasing ways, so that we can discover the touch of genius in each one of them.

#### HOD'S MESSAGE



It gives me immense pleasure to state that the Department of Electronics & Communication Engineering (ECE) has been maintaining exemplary academic record consistently. The ECE department has been responsible for imparting quality education in various fields of Electronics & Communication Engineering including Advanced

microprocessor, satellite communication, Networking, VLSI Technology etc. and other latest research oriented topics. The notable asset of our department is its highly motivated, technically qualified and well experienced faculty.

# Staff Achievement Details and Participation in Various Institutions:

- ➤ Mr.Dr.R. Sivakumar, Head Of Department has participated in national level workshop on Research Methodology in Basic Engineering & Technology held on 13.05.2015 at Priyadarshini Engineering College, Vaniyambadi.
- ➤ Mrs.S.SAMUNDEESWARI, Associate Professor has given a guest lecture on Smart home technology robots at Sri Methodology in Basic Engineering & Technology held On 13.05.2015 at Priyadarshini Engineering College, Vaniyambadi.
- ➤ Mrs.S.SAMUNDEESWARI, Associate Professor has participated in national level workshop on the topic of Research Methodology in Basic Engineering & Technology held on 13.05.2015 At Priyadarshini Engineering College, Vaniyambadi
- ➤ Mrs.S.SAMUNDEESWARI, Associate Professor has participated in FDP on the topic of Electromagnetic Theory held on 10.06.2015 at Vellalar College of Engineering &Tecnology, Erode.
- ➤ Mrs.S.SAMUNDEESWARI, Associate Professor has participated in national level conference on the topic of A Prototypical High Capacity Data Hiding Based Image Compression Using Smvq With Adaptive Index &Block Truncation Code held on 27.02.2015 at GRT Institute of Engineering & Technology, Tiruttani.
- ➤ Mrs.R.ELAVARASI, Associate Professor has given a guest lecture on Brain to Brain Communication at Sri Nandhanam Polytechnic College on 20.01.2015
- ➤ Mrs.R.ELAVARASI, Associate Professor has Participated in national level work shop on the topic of Research Methodology in Basic Engineering & Technology held on 13.05.2015 at Priyadarshini Engineering College, Vaniyambadi.
- ➤ Mrs.R.ELAVARASI, Associate Professor has participated in national level conference on the topic of A Prototypical High Capacity Data Hiding Based Image Compression Using SMVQ with Adaptive Index &Block Truncation Code held on 27.02.2015 at GRT Institute of Engineering & Technology, Tiruttani.
- ➤ Mrs.S.GAYATHRI, Associate Professor has given a guest lecture on Digital communication at Vaani Polytechnic College on 18.02.2015
- ➤ Mrs.S.GAYATHRI, Associate Professorhas participated in national level conference on the topic of Motion Vector Estimation Using Local Block Matching Algorithm to H.264 Coding held on 23.03.2015 at SBC Engineering College, ARNI.

➤ Mr.R.Selvarasan, Assistant Professor has participated in national level conference on the topic of Co-Operative Relaying Spectrum Sharing in Cognitive Radio Networks held on 29.03.2015 at Vel Tech High Tech Engineering College, Chennai.

- ➤ Mr.R.Selvarasan, Assistant Professor has given a guest lecture on Linear Integrated Circuits at Pandiyan Polytechnic College on 21.01.2015
- ➤ Mr.G.Subramani, Assistant Professor has participated workshop on Research Methodology in Basic Science Engineering and Technology held on 13.05.2015 at Priyadarshini Engineering College, Vaniyabadi.
- ➤ Mr.G.Subramani, Assistant Professor has participated in inter-national level conference on the topic of Co-Operative Relaying Spectrum Sharing in Cognitive Radio Networks held on 29.03.2015 at Vel Tech High Tech Engineering College, Chennai.
- ➤ Mr.G.Subramani, Assistant Professor, has given a guest lecture on Advanced Communication Systems at Pandiyan Polytechnic College on 25.02.2015
- ➤ Mr.G.Manigandan, Assistant Professor has participated in Inter-National Level Conference on the topic of FPGA Implementation of Floating Point Multiplier Using Vedic Mathematics Xilinx ISE Tools held on 15.03.2015 at Sri Ramanujar Engineering College, Chennai.
- ➤ Mr.G.Manigandan, Assistant Professor has given a guest lecture on Resource Speaker at Sri Nandhanam College of Engineering & Technology on 09.05.2015
- ➤ Mr.P.Arun Kumar, Assistant Professor has given a guest lecture on Resource Speaker at Sri Nandhanam College of Engineering & Technology on 09.05.2015
- ➤ Mr.P.Arun Kumar, Assistant Professor has participated in Inter-National Level Conference on the topics of FPGA Implementation of Floating Point Multiplier Using Vedic Mathematics Xilinx ISE Tools held on 15.03.2015 At Ramanujar Engineering College, Chennai
- ➤ Mrs.S.Senthamizhlselvi, Assistant Professor has given a guest lecture on Interfacing of microcontroller 8051 at Pandiyan Polytechnic College on 10.03.2015
- ➤ Mrs.S.Senthamizhlselvi , Assistant Professor has participated in National Level Conference on the topics of An Advanced Image Contrast Enhancement using Histogram Modification Technique held on 23.03.2015 At SBC Engineering & Tech,ARNI.
- ➤ Mr.T.Vignesh, Assistant Professor has given a guest lecture on Resource Speaker at Sri Nandhanam College of Engineering & Technology on 09.05.2015
- ➤ Mr.T.Vignesh, Assistant Professor has participated in inter-national level conference on the topic of FPGA Implementation of Floating Point Multiplier using Vedic Mathematics Xilinx ISE Tools held on 15.03.2015 at Sri Ramanujar Engineering College, Chennai.
- ➤ Mr.S.Karthik, Assistant Professor has participated in inter-national level conference on the topics of Efficient Time Synchronization for Under Water Wireless Sensor Network held on 29.03.2015 at Vel Tech.Chennai.

➤ Ms.M.Arthi, Assistant Professor has given a lecture on Digital Electronics at Pandiyan Polytechnic college on 25.02.2015

- ➤ Ms.A.Kavitha Assistant Professor has given a lecture on Microcontrollers at Pandiyan Polytechnic College on 04.03.2015
- ➤ Mr.C.Raja, Assistant Professor has given a lecture on Communication Theory at Pandiyan Polytechnic College on 12.02.2015
- ➤ Mr.K.Sridhar, Assistant Professor has given a guest lecture on Microprocessor and Microcontroller at Vaani Polytechnic College on 25.02.2015
- ➤ Mr.K.Sridhar, Assistant Professor has participated in Inter-National Level Conference on the topics of An Approach Of Data Aggregation Using Wireless Network With Filtering Attacker's Impact held on 29.03.2015 at Veltech, Chennai.
- ➤ Mrs.S.Ramapriya, , Assistant Professor, has participated in national level conference on the topics of Advanced Image Contracts Enhancement Using Histogram Modification Techniques held on 23.03.2015 at S.B.C Engg College, ARNI.
- ➤ Mrs.S.Ramapriya, Assistant Professor has given a guest lecture on Low Power VLSI at Pandiyan Polytechnic College on 06.01.2015
- ➤ Mr.K.Karthik, Assistant Professor has participated in workshop on Research Methodologies And Basic Science Engg and Tech. 64.Mr.K.Karthik, Assistant Professor, has given a guest lecture on Embedded Systems at Pandiyan Polytechnic College on 02.03.2015
- ➤ Mr.K.Karthik, Assistant Professor has participated in Inter-national level conference on the topics of An Approach of Data Aggregation Using Wireless Network with Filtering Attacker's Impact held on 29.03.2015 at Veltech, Chennai.
- ➤ Mr.S.Krishnamurthi, Assistant Professor has participated in workshop on National Programme On Technology Enhanced Learning held on 11.01.2015 at PEC, Vaniyambadi
- ➤ Mr.S.Krishnamurthi, Assistant Professor has given a guest lecture on Digital Electronics at Vaani Polytechnic College on 25.02.2015
- ➤ Mr.S.Krishnamurthi, Assistant Professor, has participated in Inter-national level conference on the topics of Efficient Time Synchronization For Under Water Wireless Sensor Network held on 29.03.2015 at Vel Tech, Chennai.

Department of Electronics and Communication Engineering							
Date	Program	Dignitaries					
17.3.2015	ECCLESIA 2K15	S.SABARINATH,PROJECT MANAGER,FOTRONICHS PVT LTD					
26.3.2015	RIEMTA 2015	Mrs A.AMUDHA PRABHA,ASSOCIATE PROFESSOR ,VIT Mrs VALARMATHI.PROFESSOR,VIT					

### Department activities:

- ♣ The department of electronic and communication engineering (ECE ) of priyadarshini engineering college, vaniyambadi, organized a National level Technical Symposium ECCLESIA-2K 15 on march 17<sup>th</sup> 2015.Principal Dr.P.Natrajan inaugurated the symposium, S.Sabarinath Project Manager ,FotronicsPvt Ltd chief guest of the function.25 students including students from various colleges participated in the technical events paper presentation. Winners of the events were awarded prizes and participation certificates by the principal Dr.P.Natarajan, vice-principal Dr.M.Saleemullah and HOD of ECE DrR.Siyakumar
- The Department of ECE has organized a **National Conference RIEMTA 2015** on 25.3.2015 & 26.3.2015. About 74 students including students from various colleges participated in the technical events paper presentation. Winners of the events were awarded prizes and participation certificates by the principal Dr.P.Natarajan, vice-principal Dr.M.Ssaleemullah and HOD of ECE DrR.Siyakumar

# Student Achievement

S.No	Name	Event	Date	College
1	Keerthana.M	Art Smart	09.01.2015.	MarudharKesari Jain College For Women, Vaniyambadi
2	Ezhilarasi.A	Workshop On Web Design	09.01.2015.	Open Soft Company, Chennai
3	Ramya.L	Circuit Debugging	28.3.2015	Sri Nandhanam College Of Engg&Technology,Tirupattur,.
4	Ramya.L	EYE BEAM	28.3.2015	Sri Nandhanam College Of Engg&Technology,Tirupattur
5	Shalini.S	EYE BEAM	28.3.2015	Sri Nandhanam College Of Engg&Technology,Tirupattur

# INPLANT TRAINING

S.No	Name	Department	Date of Visit	Industry
1.	L.RAMYA S.SALINI S.PAVITHRA	ECE	29.06.2015 To 04.07.2015,	BHELKatpadi.
2.	V.DHIVYA	ECE	23.06.2015 To 27.06.2015	BSNL Katpadi.

### **CULTURALS:**

➤ Kiruthiga.V has participated in Group Dance and won III place in MKJC for Women, Vaniyambadi, held on 09.01.2015.

- ➤ Dhivya.d has participated in Group Dance and won III place in MKJC for Women, Vaniyambadi, held on 09.01.2015.
- ➤ Meena.G has participated in EMC Technology Day 2015 in SRM University College, Chennai, held on 13.02.2015.
- Aruna.C has participated in EMC Technology Day 2015 in SRM University College,Chennai, held on 13.02.2015.
- Ramya.L has participated in EMC Technology Day 2015 in SRM University College, Chennai, held on 13.02.2015.
- ➤ Balanandhi.P has participated in Robotic Game on Priyadarshini Engineering College, Vaniyambadi, held on from 06.03.2014 to 07.03.2014.
- ➤ Sheela.S has participated in Robotic Game on Priyadarshini Engineering College, Vaniyambadi, held on from 06.03.2014 to 07.03.2014.
- ➤ Bhuvaneshwari.R has participated in Robotic Game on Priyadarshini Engineering College, Vaniyambadi, held on from 06.03.2014 to 07.03.2014.
- Aravind.M has participated in Robotic Game on Priyadarshini Engineering College, Vaniyambadi, held on from 06.03.2014 to 07.03.2014.
- Ezhilarasi. A has participated in Robotic Game on Priyadarshini Engineering College, Vaniyambadi, held on from 06.03.2014 to 07.03.2014.
- > Sathiya.S has participated in Group Dance in MKJC for Women, Vaniyambadi, held on 09.01.2015.
- Saranya.S has participated in Group Dance In MKJC for Women, Vaniyambadi, held on 09.01.2015.

# GALLERY:



RIEMTA 2015





ECCLESIA 2K15

