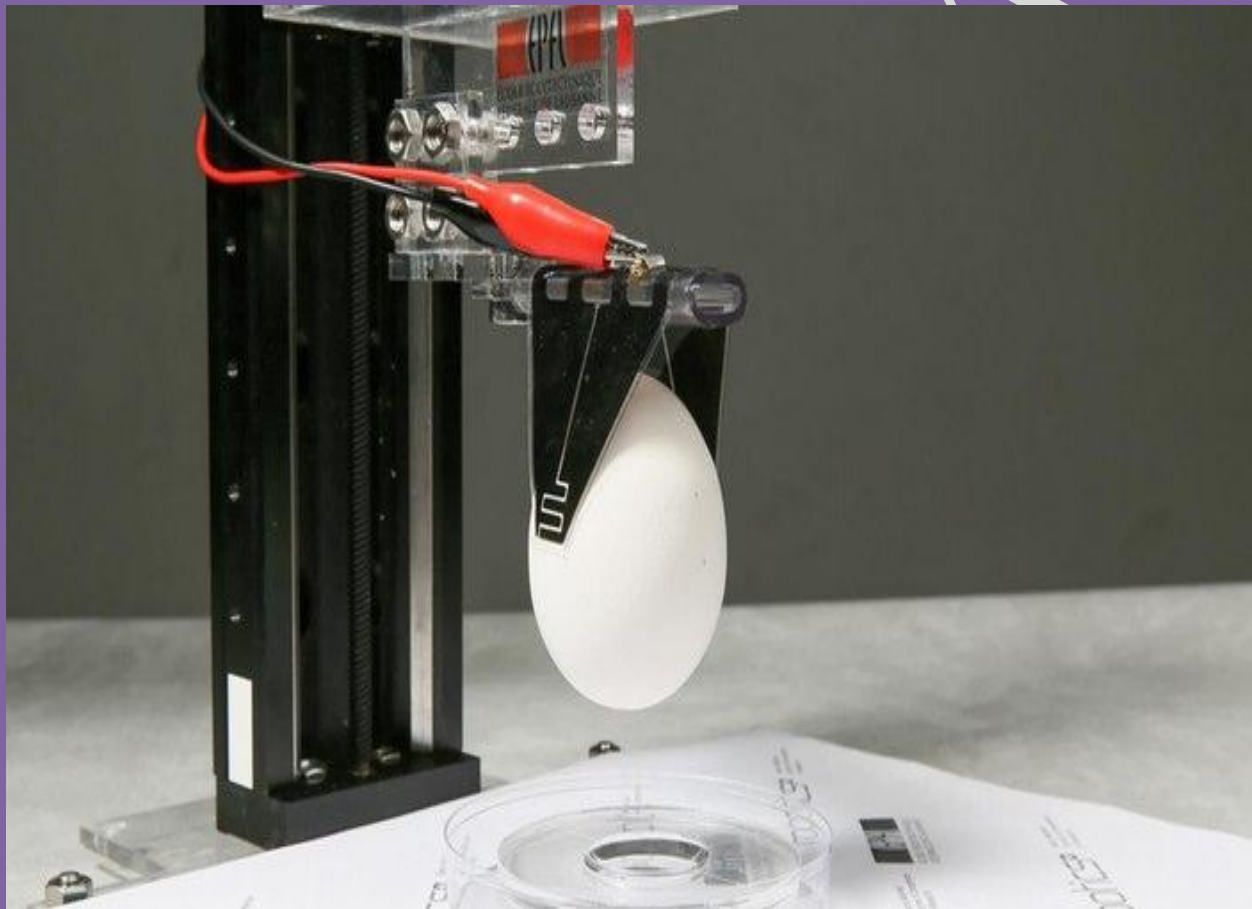**Department of Electronics and Communication Engineering**

Priyadarshini Engineering College, Vaniyambadi-635751.

VIZVASA-(2013-2014)

Volume3| Issue 1|2014-2015

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:

- 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 thesocietal 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.

Mrs N.Jayakala, Editor-in-chief, Dept News Letter

EDITORIAL BOARD:

Mrs N.Jayakala,   *Nivedha.R*
Associate Professor & Head,Dept of ECE   *Final Year ECE*
Editor –in-chief,Dept News Letter

Mrs S.Samundeeswari,   *Nandhini.R*
Assistant Professor/ECE   *Final Year ECE*

Mrs R.Elavarasi,   *Faiza thaseen*.R

Assistant Professor/ECE   *Final Year ECE*

Mrs S.Gayathri,   *Rajkumar .J*
Associate Professor/ECE   *Final Year ECE*

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 Programmed 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 molding 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. SIVAKUMAR, Head Of Department** has given a lecture on Neural Networks at Sapthagiri College of Engineering on19.09.2014

- ➢ **Mrs.S.SAMUNDEESWARI**, Associate Professor has given a lecture on Smart antennas at Pandiyan Polytechnic College on 20.08.2014

- ➢ **Mrs.R.ELAVARASI, Associate Professor** has given a guest lecture on Neural Networks at Pandiyan Polytechnic College on 13.08.2014

- ➢ **Mrs.S.GAYATHRI, Associate Professor** has given a guest lecture on Satellite Communication at Pandiyan Polytechnic College on12.09.2014

- ➢ **Mr.R.Selvarasan, Associate Professor** has given a guest lecture on Linear Integrated Circuits at Vaani Polytechnic College on19.08.2014

- ➢ **Mr.G.Subramani, Associate Professor** has given a guest lecture on Advanced Communication Systems at Vaani Polytechnic College on 21.08.2014

- ➢ **Mr.G.Manigandan, Asst Professor** has participated workshop on Cryptography & Network Security held on from 21.08.2014 to 22.08.2014 at SSN College of Engineering,Kalavakkam.

- ➢ **Mr.G.Manigandan, Asst Professor** has participated workshop on Solid State Device Modelling & Simulation held on from 11.11.2014 to 12.11.2014 at Thiagarajar College of Engineering,Madurai

- ➢ **Mr.P.Arun Kumar, Asst Professor** has participated workshop on Cryptography & Network Security held on from 21.08.2014 to 22.08.2014 at SSN College of Engineering, Kalavakkam.

- ➢ **Mr.P.Arun Kumar, Asst Professor** has participated workshop on Solid State Device Modelling & Simulation held on from 11.11.2014 To 12.11.2014 at Thiagarajar College of Engineering, Madurai

- ➢ **Mr.T.Vignesh, Asst Professor** has participated workshop on Cryptography & Network Security held on from 21.08.2014 to 22.08.2014 at SSN College of Engineering, Kalavakkam.

- ➢ **Mr.T.Vignesh, Asst Professor** has participated workshop on Solid State Device Modelling & Simulation held on from 11.11.2014 to 12.11.2014 at Thiagarajar College of Engineering, Madurai

- **Mr.S.Karthik, Asst Professor** has participated in workshop on Sars Preparation and Evaluation O Outcome Based Accreditation Process held on from 08.11.2014 to 09.11.2014 At Jayam College Of Engineering & Technology, Dharmapuri.

- **Mr.S.Karthik, Asst Professor** has given a guest lecture on Medical Electronics at Pandean Polytechnic College on19.07.2014

- **Mr.K.Sridhar, Asst Professor** has participated workshop on Digital Resource Centre Using Dspace And Digimat held on 01.08.2015 at Priyadarshini Engineering College,Vaniyambadi.

- **Mr.K.Karthik, Asst Professor** has given a guest lecture on Embedded Systems at Vaani Polytechnic College on 19.08.2014

STUDENT ACHIEVEMENT

S.no	Name	Events	Venue
1.	Meena.G	Presented Paper	"Adhiyaman College Of Engineering,Hosur
2.	Aruna.C	Presented Paper	"Adhiyaman College of Engineering,Hosur
3.	Lavanya.R	Presented Paper	"Adhiyaman College of Engineering,Hosur
4.	Dhivya.V	Presented Paper	"Adhiyaman College of Engineering,Hosur
5.	Ramya.L	Presented Paper	"Adhiyaman College of Engineering,Hosur
6.	Shalini.S	Presented Paper	"Adhiyaman College of Engineering,Hosur

INDUSTRY INSTITUTION INTERACTION

S.No	Department	Date of Visit	Industry
1.	Final year ECE	30.8.2014	Chips Software Systems.