



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 நின்றலும்"

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 2013-2014.

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,
Associate Professor & Head,Dept of ECE
Editor -in-chief,Dept News Letter

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Final Year ECE

Mrs S.Gayathri,
Associate Professor/ECE

Tamilmani.G
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 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 emphasize 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

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

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.

Staff Achievement Details and Participation in Various Institutions:

- **Mrs.N. Jayakala**, Associate Professor, has participated in national level workshop “ NPTEL” held on 20.09.13 at IIT, Madras & IISC-Bangalore.
- **Mrs. S.Samundeeswari**, Assistant Professor, has participated in national level workshop “Recent Trends in Image Processing & its applications using Matlab”held on 31-08-2013 at Bharathidasan Engineering College, Nattarampalli.
- **Mrs. R.Elavarasi** , Assistant Professor , has participated in national level workshop “Recent Trends in Image Processing & its applications using Matlab” held on 31-08-2013 at Bharathidasan Engineering College- Nattarampalli.
- **Mrs.N.Jayakala**, Associate Professor, has given Guest Lecturer in “Digital Logic Circuits” held on 29.08.2013 Organized by Pandiyan Polytechnic College – Tiruppattur.
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- **Ms. R. Elavarasi**, Assistant Professor, has given Guest Lecturer in “Wi-Fi mobile” held on 10.09.2013 Organized by Pandiyan Polytechnic College – Tiruppattur.
- **Ms. S. Gayathri**, Associate Professor, has given Guest Lecturer in “Interfacing of microprocessor” held on 13.08.2013 Organized by Vaani Polytechnic College – Vaniyambadi.
- **Mr. R. Selvarasan**, Assistant Professor has given Guest Lecturer in “Computer Networks” held on 29.08.2013 Organized by Pandiyan Polytechnic College – Tiruppattur.
- **Mr. G. Subramani**, Assistant Professor has given Guest Lecturer in “Digital Communication” held on 17.07.2013 Organized by Pandiyan Polytechnic College – Tiruppattur.
- **Mr. G. Manigandan**, Assistant Professor has given Guest Lecturer in “Nanotechnology” held on 13.07.2013 Organized by KAR Polytechnic College – Ambur.
- **Mr. P. Arun Kumar**, Assistant Professor has given Guest Lecturer in “CMOS Technology” held on 20.07.2013 Organized by KAR Polytechnic College – Ambur.
- **Mr.J.Vinothkumar**, Assistant Professor has given Guest Lecturer in “VLSI” held on 21.08.2013 Organized by Pandiyan Polytechnic College – Tiruppattur.

- **Mr. A.S.Krishnamurthi**, Assistant Professor has given Guest Lecturer in “Electron Devices and Circuits” held on 08.08.2013 Organized by Pandiyan Polytechnic College – Tiruppattur.
- **Mr. T. Vignesh**, Assistant Professor has given Guest Lecturer in “3G Standards” held on 27.07.2013 Organized by KAR Polytechnic College – Ambur.
- **Ms.S.Senthamizhselvi**, Assistant Professor has given Guest Lecturer in “Advanced communication engineering” held on 09.07.2013 Organized by Vaani Polytechnic College – Vaniyambadi.
- **Mr. S. Karthik**, Assistant Professor has given Guest Lecturer in “Measurements and Instrumentation” held on 08.08.2013 Organized by Vaani Polytechnic College – Vaniyambadi.
- **Mr. K. Sridhar**, Assistant Professor, ECE Department has given Guest Lecturer in “VLSI” held on 17.07.2013 Organized by Vaani Polytechnic College – Vaniyambadi.
- **Ms.G.Gayathri**, Assistant Professor has given Guest Lecturer in “Digital Electronics” held on 06.08.2013 Organized by Pandiyan Polytechnic College – Tiruppattur.

STUDENT ACHIEVEMENT

.no	Name	Events	Venue
1.	Ms.L.Ramya , II year	Presented Paperwon II prize held on 03-09-13	“Sri Nandhanam College of Engineering & Technology
2.	Ms.L.Ramya , II year	Participated Workshop in “ Cyber Forensics And Eihical Hacking ” held on 6.09.2013 to 7.09.2013	Podhigai College of Engineering and Technology
3.	Ms.S.Shalini , II year	Participated Workshop in “ Cyber Forensics And Eihical Hacking ” held on 6.09.2013 to 7.09.2013	Podhigai College of Engineering and Technology
4.	Ms.Ezhilarasi.A , II year	Participated in “ Code debugging ” held on 8.03. 2014	Podhigai College of Engineering and Technology

INPLANT TRAINING:

S.No	Name	Department	Date of Visit	Industry
1.	Ms.M.PoojaPoonkuzhali III year	ECE	23.12.2013 to 28.12.2013	BSNL Katpadi.
2.	Ms.A.NasreenKouser III year	ECE	22.12.2013 to 27.12.2013	KaashivInfotech- Chennai

Cultural activities:

- **Ms.P.Balanandhi**, III year, Student has Participated Essay writing (Tamil) competition on 12-10-2013 at Vidiyal kalai ilakiya mandram - Madurai.
- **Ms.Ezhilarasi.A**, III year, Student has Participated Fashion parade competition on 12-10-2013 at Marudhar kesari jain college for women – Vaniyambadi.

INDUSTRY INSTITUTION INTERACTION

S.No	Department	Date of Visit	Industry
1.	Final year ECE	20.9.2013	ALLINDIA RADIO –Coimbatore.
2.	Third year ECE	30.09.2013.	PrasarBharati, (Broadcasting Corpn. Of India), AIR-Ooty.