NEWS LETTER

P.S.R ENGINEERING COLLEGE

DEPARTMENT OF ECE

June-December, 2017
Half-Yearly Edition

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FROM THE DEAN'S DESK

I am happy that the ECE Department is bringing out a College News-letter. The college Newsletter will definitely help to show-case the activities that are happening in the campus. It also helps in building up teamwork which is very much needed today in the world of competition. It provides a platform for exposing the merits and academic achievements of the faculty. This enhances the documentation culture of the institute. This would definitely create an impact in the minds of readers, by way of providing larger visibility and dimension to the campus. I hope that this culture of releasing Newsletter continue forever and become a quoted example for all other colleges to follow

I LOVE THOSE WHO CAN SMILE IN TROUBLES, WHO CAN GATHER STRENGTH FROM THEIR DISTRESS, AND GROW BRAVE BY REFLECTION. THIS IS THE BUSINESS OF LITTLE MINDS TO SHRINK, BUT THEY WHOSE HEART IS FIRM, AND WHO CONSCIENCE APPROVES THEIR CONDUCT, WILL PURSUE THEIR PRINCIPLE UNTO DEATH.

-LEONARDO DA VINCI

HOD'S MESSAGE

"Honor your commitments with Integrity"

I am very pleased to present you the newsletter of Electronics and Communication Engineering Department. Within these pages you will and much news related to diverse activities from the whole Faculty members and students. You can see the contributions from Faculties and students. I hope everyone will and this newsletter exciting and interesting.

EDITORIAL

A thought that has been enduring in mind when it becomes real; is truly an interesting and exciting experience. This news letter was one such cherished work that had its roots in the persuasion. It would be a snapshot of the various activities and advancements for all associated with ECE Department.

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Department vision

The vision of the Electronics& Communication Engineering Department is to produce graduates with sound knowledge for the betterment of society and to meet the dynamic demands of industry and research.

Department mission

- Offering under graduate and post graduate programmes by providing effective and balanced curriculum and equip themselves to gear up to the ethical challenges awaiting them.
- Providing the technical, research and intellectual resources that will enable the students to have a successful career in the field of electronics& communication engineering.
- Providing need based training and professional skills to satisfy the needs of society and industry.

Department Events

Proposal Submission

*Research Proposal Scheme – 1
*Short Term Training Programme (STTP) – 1
*International Conference – 1
*MODROB – 1
*TNSCST- 3 Project
*Texas Instrument-2 Projects
*DRDO – 10 Projects

"Awareness about organ donation, blood donation and dengue fever ."

YRC Conducted the awareness program on 18th August. Dr.T.Ayyanar, Government Hospital, Sattur, delivered the key note.

- The Department of ECE has conducted a National Level Technical Symposium "ELCOWARZ17" on 15th September.
- One Day seminar on the topic "How to Prepare an Interview for an Industries" was conducted for the students on 12th July.

National Level Technical Symposium ELCOWARZ'17

Hands-on session

- A two day hands on session on HTML and CSS was held on 28th and 29th august. Mr.Vinu M.Sangaralingam,B.ETeam Leader,Tech Mahindra, Chennai was the Resource person.
- 72 students attended the programme.

Hands on session on HTML and CSS

Faculty development programme

- The Department of ECE has organized Faculty Development Programme "R Programming" on 16th 17th December.

STAFF ACTIVITIES

NPTEL COURSES

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Mr.R.Arun Kumar got 5th Rank in"Introduction To OS Computer Architecture".

13 faculty members successfully completed NPTEL Online courses

- Dr.K.Valarmathi delivered a guest lecture on" Research Issues on Control Engineering" at PSNA College of Engineering and Technology, Dindigul on 17th August.

- Ms.P.A.Mathina, Mr.S.Karthik attended the workshop on Exploring Research Potential in Networking domain using Netsim during 21st to 24th August.

- Sandhya S ,Theivanathan G and Govindamoorthi P,published a paper "Coin Drop Mobile Charger using IR sensor",Journal of Electronic Design Engineering ,Vol,3, Issue,1 , 2017.

STUDENT ACTIVITIES

- Vidhya K,Ramya M of II ECE and Sridevi Nachiyar of IV ECE were the runners of ball badminton conducted by university VOC college of engineering, Thoothukudi,on 30th and 31st August.

- Final year ECE Department students won overall championship in intra college symposium RESILLANCE'17.

JOURNAL PUBLICATIONS :

- Mr.K.Santhakumar and **Dr.P.Ranjith kumar** "Compression Analysis of Approximations for High Quality Data", Advances in Natural and Applied Sciences, Vol.11 No.6, pp. 742-755, 2017.

- Ms.J.Dhivya Bharathi, Mr.A.Kamaraj, **Dr.P.Marichamy**, "Realization of N-Bit Fault Tolerant Division unit using Reversible Logic in QCA", International Journal of Advanced Computing and Communication Systems (IJACCS, Vol 4, Issue :3, 2017.

- **Dr.P.Marichamy**,Mr.A.Kamaraj, "Design and Implementation of Arithmetic and Logic Unit(ALU)using Novel Reversible Gates in Quantum Cellular Automata", International Journal of Advanced Computing and Communication Systems (IJACCS) Vol 4, Issue :3, 2017.

- Mr.C. Karthik, **Dr.K. Valarmathi**, and Ms.M. Rajalakshmi, "Support vector regression and model reference adaptive control for optimum control of nonlinear drying process", Tappi journal, Vol. 15, No.2, pp 111-126, February ,2017. **Impact Factor- 0.803**.

- Mr.R.R.Devu, Mr.C.Kalyana sundaram, **Dr.P.Marichamy**, " Aritifical Neural Network Based Brain Signal Classification of Gustatory stimuli in FPGA", International Journal of Pure and Applied Mathematics, Vol 117, Issue 16, PP: 111-119, 2017.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S)

- PEO:1 Lead a professional career by acquiring the basic knowledge in the field of specialization and allied Engineering.
- PEO:2 Assess the real life problems and deal with them confidently relevance to the society.
- PEO:3 Engage in lifelong learning by pursuing higher studies and participating in professional organizations.
- PEO:4 Exhibit interpersonal skills and able to work as a team for success.

PROGPROGRAMME OUTCOMES (POs)

- **PO:1 Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

- **PO:2 Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

- **PO:3 Design / Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

- **PO:4 Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

- **PO:5 Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

- **PO:6 The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

- **PO:7 Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- **PO:8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

- **PO:9 Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

- **PO:10 Communication:**Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

- **PO:11 Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

- **PO:12 Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

- **PSO:1** Design, simulate and analyse diverse problems in the field of telecommunication.

- **PSO:2** Able to design and analyse varied electronic circuits for applications.

- **PSO:3** Apply signal and image processing techniques to analyse a system for applications.

- **PSO:4** Construct, test and evaluate an embedded system and control systems with real time constraints.

Don't study to EARN…Study to LEARN..
What you learn today is what you will become tomorrow..!