P.S.R ENGINEERING COLLEGE

News letter

Department of Electronics and Communication Engineering

DECEMBER 2016

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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.

Editor's Note

"There are far, far better things ahead than any we leave behind."- C.S. Lewis

It is a matter of pride as well as pleasure to present before our readers next issue of Department Newsletter. We feel honored for the faith reposed in me for performing the role of editor of Department Newsletter. We have put whole hearted endeavors to give a complete and kaleidoscopic view of laudable achievements of ECE department. Through further issues of Newsletter, we do hope that we will come up to the expectations of our readers. Your constructive suggestions are always solicited.

Sincerely

Mrs.P.A.Mathina AP/ECE, Mrs.P.Lingheswari AP/ECE

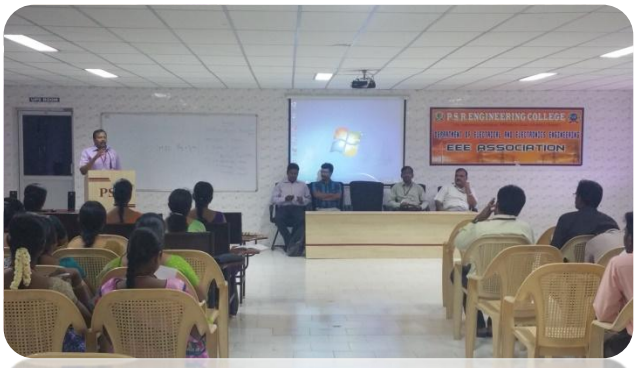
NCECT-2016

Department of ECE organized National Conference On "Emerging Communication Trends- NCECT-2016"

Facult Development Programme

* ECE Department conducted Two day Faculty Development Training Programme on "Advanced Embedded Processors"from 17th to 18th November 2016.

*Dr.M.Arunraja,Director,Sofia Infology,Madurai was the resource person.



FDTP

- Department of ECE has organized a Faculty Development Training Progromme on Electronic Circuit-I.

JOURNAL PUBLICATIONS

- Mr.G.Saravanakumar, **Dr.K.Valarmathi**, Willjuice Iruthayarajan, Seshadhri Srinivasan, "Lagrangian based State Transition Algorithm for tuning multivariable decentralized controller", International Journal of Advanced Intelligence Paradigms, Vol.8, No.3 , pp.303 – 317, 2016.
- Mr.K.santhanakumar, **Dr.P.Ranjith kumar**, "An Intelligent approach for optimizing Energy consumption and Schedule length of embedded multiprocessors", Journal of intelligent & fuzzy systems.DOI:10.3233/IFS-162171,2016 **Impact Factor-1.81**.
- Ms.S.Karthiga Devi, Ms.M.Nagalakshmi Subraja, Mr.A.Kamaraj, **Dr.P.Marichamy**, "Design and Implementation of Adders using Novel Reversible Gates in Quantum Cellular Automata", Indian Journal of Science and Technology, Vol.9, Issue.8,pp.1-8, 2016.
- Mr.C Karthik, Mr.K Suresh, **Dr.K Valarmathi**, Mr.RJ Rajesh, "Model-Based Control for Moisture in Paper Making Process", Journal of Artificial Intelligence and Evolutionary Algorithms in Engineering Systems, 2016.
- **Mr.C.K.Ramar**, "Amplify and Forward Relay Network Improves the Security-Reliability Trade-off in Cognitive Radio", International journal of seventh sense research, 2016.
- Mr.B.Veerasekar , **Ms.A.Krishnaveni**, "Application of Nano Technology IN Medicine", Journal of Chemical and Pharmaceutical Research, 8(1s):177-180, 2016.
- Mr.Theivanathan, **Mr.P.Govindamoorthi**, "Intelligence Shopping System Using Rf Module", South -Asian Journal of Multidisciplinary Studies (SAJMS) ISSN:2349-7858:SJIF:2.246:Vol 3 Issue 5, 2016.
- Mr.Theivanathan, **Mr.P.Govindamoorthi**, "An Efficient VLSI-EDDR Architecture for Motion Estimation in Testing Applications", South -Asian Journal of Multidisciplinary Studies,(SAJMS)ISSN:23497858:SJIF:2.246:Volume 3 Issue 5, 2016.
- **Mrs.R.Meena Prakash**, Ms.R.Shantha selva kumara, "Fuzzy C Means Intergated with Spatial Information and contrast Enhancement for segmentation of MR Brain", International Journal of Imaging systems and Technology, vol 26,PP: 116-123, 2016.
- **Mrs.R.Meena Prakash**, Ms.R.Shantha selva kumara, "Fast Anisotropic Filter Based EM with Spatial Information for Segmentation of noisy Images", The IIOB Journal, Vol 7, Issue: 3, PP: 66-76, 2016.

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.

PROGRAMME OUTCOMES (POs)

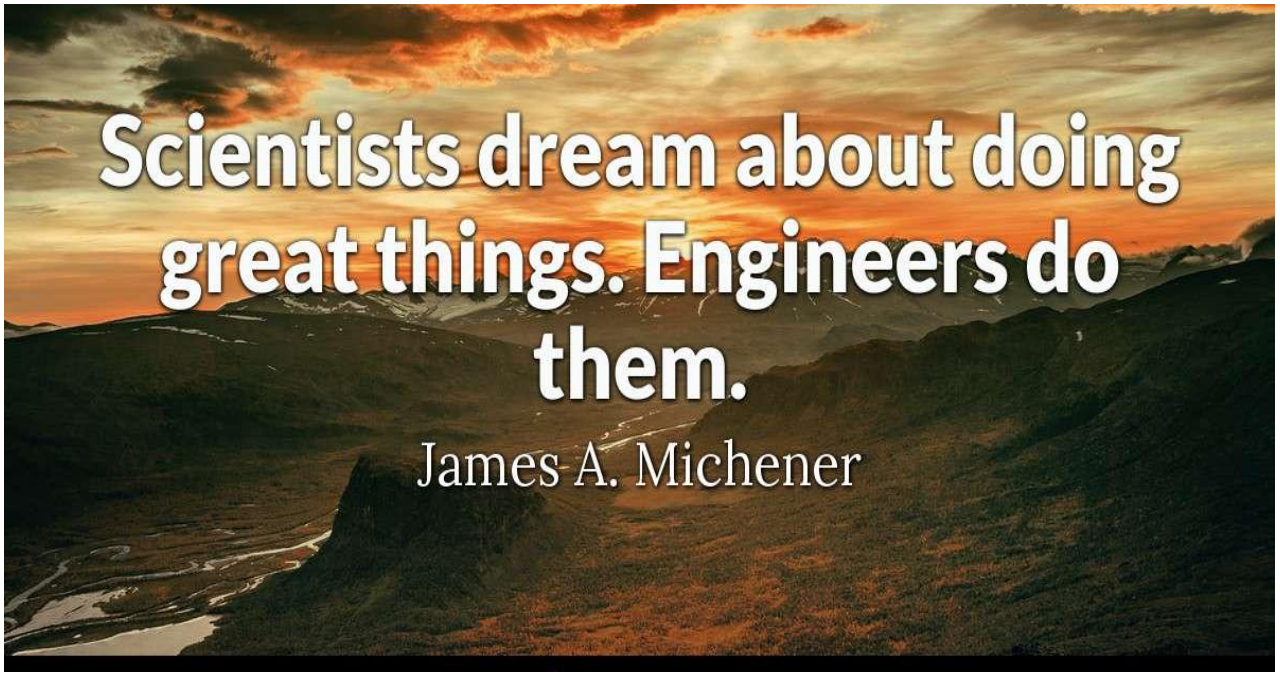
- PO: 1**Engineering Knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO: 2 **Problem Analysis**: Identify, formulate, review research literature, and analyze complex engineering problems 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.



STUDENT EDITORS:
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