News letter

Department of Electronics and Communication Engineering

P.S.R ENGINEERING COLLEGE

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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"

Department of ECE has organized a Faculty Development TrainingProgromme on Electronic Circuit-I

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.

FACULTY CORNER

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: 6-76, 2016.

Title of paper	Name of the author/s	Name of the journal	Year of publication	ISSN number	Published in Scopus / UGC Listed Journals
Fuzzy C means integrated with spatial information and contrast enhancement for segmentation of MR brain images	Meena Prakash R R Shantha Selva Kumari	International Journal of Imaging systems and Technology	2016	0899-9457	Scopus
An intelligent approach for optimizing Energy consumption and Schedule length of Embedded multiprocessors	P.Ranjith Kumar Santhakumar K Palani S.	Journal of Intelligent and Fuzzy Systems	2016	1064-1246	Scopus
Design and Implementation of Adders using Novel Reversible Gates in Quantum Cellular Automata	A.Kamaraj, P.Marichamy, S.Karthiga Devi	Indian Journal of Science and Technology	2016	0974-6846	Scopus
Fast anisotropic filter based EM with spatial information for segmentation of noisy images	Meena Prakash R Shantha SelvaKumari R.	IIOAB Journal	2016	0976-3104	Scopus
HMM and Fuzzy Based Scheduling and Resource Allocation for Downlink	K Valarmathi	Asian Journal of Information Technology	2016	1682-3915	Scopus

INTERNATIONAL CONFERENCE PUBLICATIONS

Name of the teacher	Title of the paper	Name of the conference	Year of publication
Ranjithkumar.P	Bee colony based sequential & parallel task scheduling in cloud environment	IEEE International conference on computing technologies and Intelligent data engineering	2016
P. Marichamy	FPGA based filters for EEG pre-processing	Second International Conference on Science Technology Engineering and Management (ICONSTEM)	2016
P. Marichamy	P300 event detection using feature extraction technique in FPGA	Online International Conference on Green Engineering and Technologies (IC-GET)	2016
Mathina.P.A	Brain Tumor Detection using Various Methods	International conference on Engineering Innovations and solutions	2016
K.Valarmathi	Support vector regression for Hammerstein-Wiener model identification	International Conference on Computing Technologies and Intelligent Data Engineering, ICCTIDE 2016(Scopus)	2016

NATIONAL CONFERENCE PUBLICATIONS

S.No.	Name of the teacher	Title of the paper	Title of the proceedings of the conference	Year of publication
1	BalaSubramanian S	Splat Based Hemorrhage And Blood Vessel Segmentation In Retinal Fundus Images	National Conference on Emerging Communication Trends(NCECT'16)	2016
2	Ramar C K	An Automatic Motor On/Off and Monitoring the Irrigation Process	National Conference on Emerging Communication Trends(NCECT'16)	2016
3	Lingeswari P	Regional Environmental Monitoring and Detection System using GSM	National Conference on Emerging Communication Trends(NCECT'16)	2016
4	Abarna S	Automatic E-vehicle recharge system	National Conference on Emerging Communication Trends(NCECT'16)	2016
5	Valarmathi K	IOT based vibration sensing with rasperri PI	National Conference on Emerging Communication Trends(NCECT'16)	2016
6	Balakumar R	Security system for base transmission station using Raspberry Pi	National Conference on Emerging Communication Trends(NCECT'16)	2016
7	Ramalakshmi K	Content Based Image Retrivel Using Curvelet and Wavelet Transform	National Conference on Emerging Communication Trends(NCECT'16)	2016
8	Vimala M	Monitoring and Controlling the Patients Using Zigbee	National Conference on Emerging Communication Trends(NCECT'16)	2016

9	Sudha R	Ivrs Based Automatic Announcement System For Vehicle	National Conference on Emerging Communication Trends(NCECT'16)	2016
10	Valarmathi K	Automatic System To Totally Avoid Accident In Fire Works Using Raspberry Pi	National Conference on Emerging Communication Trends(NCECT'16)	2016
11	Ranjithkumar P	Air Packed Balloon Robot for Crowd Disaster Management	National Conference on Emerging Communication Trends(NCECT'16)	2016
12	Ramar C K	Amplify and Forward Relay Network Improves the Security-Reliability Trade-off in Cognitive Radio Systems	National Conference on Emerging Communication Trends(NCECT'16)	2016
13	Mathina P A	Multiregion Image Segmentation Using Various Method	National Conference on Emerging Communication Trends(NCECT'16)	2016
14	P. Marichamy	Energy-Efficient Resource Allocation in LTE-Based MIMO-OFDMA System	National Conference on Emerging Communication Trends(NCECT'16)	2016
15	K.Valarmathi	Intelligent Techniques for Fault Detection And Classification In Gearbox	National Conference on Emerging Communication Trends(NCECT'16)	2016
16	Ranjithkumar.P	Bee colony based sequential & parallel task scheduling in cloud environment	National Conference on Emerging Communication Trends(NCECT'16)	2016

WORKSHOP

S.NO	NAME	NAME OF THE WORKSHOP	TITLE	DURATION
1	**Ms.R.N.Nivethitha**	FDTP	Faculty Development Training Programme on Communication Theory PSNA College of Engineering and Technology, Dindugul	05.12.2016 & 09.12.2016
2	**Ms.K.Ramalakshmi Ms.M.Vimala**	STTP	Recent Trends In Soft Computing Pondicherry Engineering College, Pondicherry	05.12.2016 & 09.12.2016

3	Dr.K.Valarmathi Mr.S.Athimoolam Mr.G.Lingasamy	Seminar	Two day national seminar on Recent Trends in RF, Antennas and MIC, K.L.N College of Engineering, Pottapalayam	01.12.2016 & 02.12.2016
4	Mr.N.S.Yogaananth	FDP	Faculty Development Programme on Ad – Hoc and Wireless Sensor Networks Anna Universty, Chennai	28.112016 & 04.12.2016
5	Mr.S.Balasubramanian	Workshop	Two day workshop on Computational Intelligence for Big data Analytics	17.11.2016 & 18.11.2016
6	Dr.P.Marichamy Dr.K.Valarmathi Dr.P.Ranjith Kumar Ms.J.Meena Ms.P.Lingeswari Ms.K.Ramalakshmi Mr.R.Arunkumar Mr.S.Athimoolam Mr.N.S.Yogaananth Mr.G.Lingasamy Ms.P.A.Mathina Ms.P.Lingeswari Mr.P.Govindamoorthi Ms.M.Vimala Ms.P.Krishnaleela Ms.R.N.Nivethitha Ms.M.Indhumathi Ms.K.Ramalakshmi Ms.T.Ruba Ms.T.Vaishnavi	FDTP	Two day Faculty Development Training Programme on Advanced Embedded Processors P.S.R Engineering college, Sivakasi.	17.11.2016 & 18.11.2016
7	Ms.J.Meena Ms.P.Lingeswari	STTP	Recent Trends And Developments In Broadband Technologies Pondicherry Engineering College, Pondicherry	07.11.2016 & 11.11.2016

| 8 | Dr.P.Marichamy
Dr.K.Valarmathi
Dr.P.Ranjith Kumar
Ms.J.Meena
Ms.P.Lingeswari
Ms.K.Ramalakshmi
Mr.R.Arunkumar
Mr.S.Athimoolam
Mr.N.S.Yogaananth
Mr.G.Lingasamy
Ms.P.A.Mathina
Ms.P.Lingeswari
Mr.P.Govindamoorthi
Ms.M.Vimala
Ms.P.Krishnaleela
Ms.R.N.Nivethitha
Ms.M.Indhumathi
Ms.K.Ramalakshmi
Ms.T.Ruba
Ms.T.Vaishnavi | Workshop | Workshop on HTML and CSS
P.S.R Engineering college, Sivakasi | 12.08.2016
&
13.08. 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.

INDUSTRIAL VISIT:

Name of the industry	Year / Semester	Staff Accompanied	Duration
Port Trust, Cochin	IV Year VII Semester	Mrs.J.Meena AP/ECE Mrs.T.Ruba,AP/ECE Mrs.P.Krishnaleela, AP/ECE Ms.R.N.Nivethitha,AP/ECE Mr.N.S.Yogaananath, AP/ECE	24.09.2016
ISRO, Kerala	III Year V Semester	Mrs.P.Lingeswari,AP/ECE Mrs.M.Vimala AP/ECE Mr.R.Arunkumar,AP/ECE Mr.P.Govindamoorthi AP/ECE	23.09.2016
ISRO, Kerala	II Year III Semester	Mrs.J. Meena AP/ECE Mrs.T.Ruba,AP/ECE Ms.R.N.Nivethitha,AP/ECE Mr.P.Govindamoorthi AP/ECE	10.10.2016
Aarthi Scans, Tirunelveli	III Year V Semester	Mr.S.Balasubramanian, Mr.P.Govindamoorthi, Ms.D.Venkateswari, Ms.S.Amutha	14.10.2016

PLACEMENT DETAILS
Our IV Year ECE students were placed in various companies.

Serial No	Name of the student	Name of the Company
1	Ms.S.Thivya	TECH MAHENDRA
2	B.Priyanka	VEE TECHNOLOGIES
3	S.Suganthi	VEE TECHNOLOGIES
4	G.Durga.	VEE TECHNOLOGIES
5	S. Jeya Siva Sakthi	VINAYAK INFOTECH
6	R.Arul Babu	IDBI
7	M.Anitha	IDBI
8	R.Abinaya.	IDBI
9	R.Gayathri	IDBI
10	P.Dhivya	IDBI
11	G.Durga	IDBI
12	S.Muthumari	IDBI
13	P.Vijaykumar	IDBI
14	S.Leela Soundharyaa	IDBI
15	S.Dhebika	IDBI
16	R.S.Prem Kumar	TNQ
17	S.Dhebika	TNQ
18	K.Deepa	TNQ
19	R.Abinaya	TNQ
20	R.Gayathri	TNQ
21	A.Karthika	TNQ
22	S.Jasmine Jeba Selvi	TNQ
23	S.Saba	TNQ
24	C.Shalom Grace	TNQ
25	V. Preeth Vaishnavi.	TNQ
26	S.Sivaramathilagar	JSK
27	S.Stanley Siddharth	JSK
28	P.Vinothkumar	JSK
29	R.Arulbabu	JSK
30	P.Balaji Prabhu	JSK
31	S.Nivedha Sree	Lexis Solutions
32	A.Sonica Shree	Lexis Solutions
33	C.Shalom Grace	Lexis Solutions
34	Santhanamari.K	Lexis Solutions
35	T. Brindha	Zealous

36	S.Nivedha Sree	Zealous
37	M.Muthu Lakshmi	Zealous
38	S.Abinaya	Zealous
39	P. Suganya	Zealous
40	B.Karthika	Zealous
41	B.Gayathri	Zealous
42	K. Deepa	Zealous
43	S.Saba	Zealous
44	B. Priyanka	Zealous
45	S. D. Anusha@ Nachiyar	

Scientists dream about doing great things. Engineers do them.
James A. Michener