



P.S.R. ENGINEERING COLLEGE



An Autonomous Institution & Affiliated to Anna University, Chennai,
Accredited NAAC, NBA & Recognized Under 12(B) of the UGC Act, 1956
Sivakasi-626140, Virudhu Nagar District, Tamil Nadu.

NEWS LETTER

JANUARY – MAY 2017



Department of Electronics and Communication Engineering

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INSTITUTION VISION

To contribute to the society through excellence in technical education with societal values and thus a valuable resource for industry and the humanity.

INSTITUTION MISSION

- To create an ambience for quality learning experience by providing sustained care and facilities.
- To offer higher level training encompassing both theory and practices with human and social values.
- To provide knowledge based services and professional skills to adapt tomorrow's technology and embedded global changes.

DEPARTMENT VISION

The vision of the Electronics and 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 programs 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 and communication engineering.
- Providing need based training and professional skills to satisfy the needs of society and industry.

PROGRAMME OUTCOME(POs)

- Apply knowledge of mathematics, physical sciences and Electronics and Communication Engineering fundamentals.
- Able to identify, formulate, analyze and solve Electronics and Communication Engineering Problems.
- Able to design and realize Electronics and Communication systems to meet desired needs within practical constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
- Able to investigate and conduct experiments, as well as to analyze and interpret data.
- Use of techniques, skills, and modern engineering tools necessary for engineering practice.
- Contextual knowledge to assess societal, health, safety, legal and cultural issues related to Engineering.
- Realize the impact of Electronics and Communication engineering solutions in a global, economic and environmental context.
- Apply ethical principles and commitment to professional ethics and responsibility.
- Function as an individual and as a member or leader in multidisciplinary teams.
- Communicate effectively with the engineering community and society at large.
- Knowledge and understanding of management and business practices and their limitations.
- Recognize the need for, and have the ability to engage in life-long learning.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

- Design, simulate and analyse diverse problems in the field of telecommunication.
- Able to design and analyse varied electronic circuits for applications.
- Apply signal and image processing techniques to analyse a system for applications.
 - Construct, test and evaluate an embedded system and control systems with real time constraints.

DEPARTMENT EVENTS:

- National Level Technical Symposium "INTELLECT 2K17" was conducted on 27.01.2017.



S.No	Name	Title of the Programmes	Title of the Programmes	Date
1	Dr.P.Ranjithkumar., Mr.G.Lingasamy	Workshop	How to write Research Proposal & Funding Opportunities	12.05.2017
2	Mr.P.Govindamoorthi	STTP	STTP on CMOS, Mixed Signal and Radio Frequency VLSI Design IIT, Kharagpur	30.01.2017 & 04.02.2017
3	Ms.J.Meena, Mr.N.SYogaAnanth, Ms.P.A.Mathina, Ms.P.Lingeswari, Ms.P.Krishnaleela, Ms.R.N.Nivethitha, Ms.T.Ruba	Workshop	Fuzzy logic and it's Applications P.S.R Engineering college, Sivakasi	28.01.2017
4	Dr.K.Valarmathi	Seminar	International seminar on Cypher Physical Systems Kalasalingam University, Krishnankovil	05.01.2017- 08.01.2017

JOURNAL PUBLICATIONS:

S.No	Title of paper	Name of the author/s	Name of the journal	Year of publication	ISSN number	Published in Scopus / UGC Listed Journals
1	Support vector regression and model reference adaptive control for optimum control of nonlinear drying process	C. Karthik, K. Valarmathi, M. Rajalakshmi	Tappi journal	2017	0734-1415	Scopus

2	Design, Development and Performance Evaluation of Pressure Sensor using Eddy Current Displacement Sensing Coil	Gobi, K., Kannapiran, B., Devaraj, D., Valarmathi, K.	<i>Sensor Review</i>	2017	0260-2288	<i>Scopus</i>
3	Spatial Fuzzy C Means and Expectation Maximization Algorithms with Bias Correction for Segmentation of MR Brain Images	Meena Prakash R Shantha Selva Kumari R.	<i>Journal of Medical Systems</i>	2017	0148-5598	<i>Scopus</i>
4	Spatial Fuzzy C Means and Expectation Maximization Algorithms with Bias Correction for Segmentation of MR Brain Images	Meena Prakash, R., Shantha Selva Kumari, R.	<i>Journal of Medical Systems</i>	2017	0148-5598	<i>Scopus</i>
5	Optimal tuning of fractional order PI controller using particle swarm optimization for pH process	Petchinathan G Valarmathi K Radhakrishnan T.K	<i>International Journal of Applied Engineering Research</i>	2017	0973-4562	<i>Scopus</i>
6	Optimal tuning of fractional order PI controller using particle swarm optimization for pH process	Petchinathan, G., Valarmathi, K., Radhakrishnan, T.K.	<i>International Journal of Applied Engineering Research</i>	2017	0973-4562	<i>Scopus</i>
7	Artificial Neural Network Based Brain Signal Classification Of Gustatory Stimuli In FPGA	C.Kalyanasundram, P.Marichamy, R.R .Devu	<i>International Journal Of Pure And Applied Mathematics</i>	2017	1311-8080	<i>Scopus</i>

8	Gaussian Mixture Model with the Inclusion of Spatial Factor and Pixel Re-labelling: Application to MR Brain Image Segmentation	Meena Prakash R R. Shantha Selva Kumari	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	2017	1319-8025	Scopus
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INTERNATIONAL CONFERENCE PUBLICATIONS:

S.No.	Name of the teacher	Title of the paper	Name of the conference	Year of publication
1	P. Marichamy	Feature extraction for the patient consciousness detection using P300 even	4th International Conference on Advanced Computing and Communication Systems (ICACCS)	2017
2	P.Marichamy	Design of a body Matched Bowtie Antenna for Biomedical Applications	International Conferecne on communication, Computing and Networking ICCCN	2017
3	P.Marichamy	Design of N-Bit Fault Tolerant Division Unit using New Reversible Gates in QCA	International Conferecne on communication, Computing and Networking ICCCN	2017
4	Valarmathi K	Mobile application for aqua-monitoring system	IEEE International Conference on Electrical, Instrumentation and Communication Engineering, ICEICE	2017
5	Valarmathi K	Diagnosis of shrimp condition using intelligent technique	IEEE International Conference on Electrical, Instrumentation and Communication Engineering, ICEICE	2017
6	P.Marichamy	Design and implementation of arithmetic and logic unit (ALU) using novel reversible gates in quantum cellular automata	4th International Conference on Advanced Computing and Communication Systems (ICACCS)	2017
7	P.Marichamy	Design & Development of SCADA System for solid propellant carton/Agni curing oven	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
8	P.Marichamy	Performance of OFDM with Index Modulation	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE-17)	2017
9	K.Valarmathi	Face Recognition based class Attendance system using GSM	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
10	K.Valarmathi	Crack Detection and Measurement using Image Processing Technques	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017

11	K.Valarmathi	A Software based IP Lookup Approach for high Performance Router/Switch	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
12	K.Valarmathi	Comparison of Evolutionary algorithm Modified Fuzzy MRAC for optimum Control to Industrial Drying Process	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
13	P.Ranjith Kumar	An Intelligent Channel Optimization Method for Multi-Channel Wireless	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
		Mesh Networks with MIMO Links		
14	P.RanjithKumar	Cloud Robots For Disaster Management Using IOT	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
15	P.RanjithKumar	Human Robot Interaction using IOT Technolog	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
16	J.Meena	High efficiency energy transmission system for mobile robot based on VLSI	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
17	J.Meena	Secure elliptic curve cryptography based RFID authentication scheme for IOT in healthcare environment	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
18	J.Meena	Capacity and power allocation for fading MIMO channels in VLSI architecture	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
19	K.Ramalakshmi P.A.Mathina	School bus tracking system using IOT	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
20	K.Ramalakshmi	Automatic Car Parking System Rotary Model	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE 17)	2017
21	S.Balasubramanian	Advanced energy meter system using GSM	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017

22	<i>S.Balasubramanian</i>	Development of ZIGBEE System for Monitoring the working vehicles using Zigbee Network	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
23	<i>S.Balasubramanian</i>	Chromosome classification using SVM	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
24	<i>S.Balasubramanian</i>	Fire protection with emergency carpet slope escape system	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
25	<i>S.Balasubramanian</i>	An Effective segmentation method using Deformable model for skin lesions in Dermoscopic Images	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
26	<i>S.Athimoolam</i>	Raspberry Pi based staff and student Monitoring system	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
27	<i>S.Athimoolam</i>	Monitoring of soldiers health during war time	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
28	<i>N.S.Yogaanath</i>	Protective Helmet for Mining Industry	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
29	<i>N.S.Yogaanath</i>	Smart grids based peak load management	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
30	<i>G.Lingasamy</i>	Design of Smart bike monitoring and controlling system	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
31	<i>G.Lingasamy</i>	High speed audio transmission using VLC	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
32	<i>P.A.Mathina Ramalakshmi K</i>	Plant Leaf diseases detection and classification using intelligent system	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
33	<i>P.A.Mathina</i>	Constant speed Control using PLL	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017

34	<i>P.A.Mathina</i>	Efficient Cache Position strategy in wireless content Delivery Network	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17),	2017
35	<i>P.Lingeswari</i>	Automatic detection of Tuberculosis	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
36	<i>P.Lingeswari</i>	Aadhar card based electronic voting system using PIC	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
37	<i>P.Lingeswari</i>	Implementation of IOT System for Industrial Environment	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
38	<i>P.Govindamoorthi</i>	Smart cart with automated billing using aadhar	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
39	<i>P.Govindamoorthi</i>	Web based and identification system security lock	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
40	<i>M.Vimala</i>	Semi-supervised adaptive fuzzy clustering for image segmentation	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
			Communication Engineering (REECE -17)	
41	<i>M.Vimala</i>	Design of IOL based Maximum power point tracking	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
42	<i>P.KrishnaLeela</i>	IOT based real time patient monitoring system	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
43	<i>P.KrishnaLeela</i>	Embedded based secured milk quality management system	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
44	<i>R.N.Nivethitha</i>	Density based Auto traffic signal control with android based remote override	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017

45	<i>R.N.Nivethitha</i>	Design of low power nonvolatile lookup table using RRAM	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
46	<i>T.Ruba</i>	Smart vehicle security system	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
47	<i>T.Ruba</i>	Charging of electric vehicle based on wireless power transmission	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
48	<i>T.Vaishnavi</i>	Embedded based Temperature control for Automation Plant using Fuzzy Logic	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
49	<i>T.Vaishnavi</i>	Automatic Gas Leakage Detection and Booking by sensing Cylinder weight	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
50	<i>M.Indhumathi</i>	Colascence of WIFI and LIFI towards 5G	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
51	<i>M.Indhumathi</i>	Development of Lateral Control Module for Zone Driver Cooperative Autonomous Driving Licence System	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
52	<i>S.Karthik, S.Sowndaryabhavani M.Subbulakshmi S.Umamaheswari</i>	Lossless Comparison of ROI in hyper Spectral Image using Context based Adaptive Logic	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
53	<i>S.Karthik K.Karthiga M.Krishnaveni M.Muthulakshmi</i>	Defending worm hole attack in wireless Ad-hoc Network	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
54	<i>M.Kokila, S.Pondivya, S.Jeyachithra, and P.Suresh Pandiyarajan</i>	Development of an Advanced Automatic Specialized Vehicle using various Sensors	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017
55	<i>Devi.C, Kowsalya.S, Sudha.K, and P.Suresh Pandiyarajan</i>	Voice and Gesture based wheelchair Implementation usinf PIC and Android	International Conference on Recent trends in Electrical, Electronics and Communication Engineering (REECE -17)	2017

STUDENT ACTIVITY**INTRA/INTER-INSTITUTE EVENTS (WINNING PRIZE) – 2017**

Date of the Event	Name of the Event	Conducted by	Name of the Students Participated	Prizes Won
03/02/2017	Innovate For India - National Science Day	I 4 India, Space Kidz India, Chennai	VinothKumar.A	Top 10 Finalist
14/02/2017 & 15/02/2017	Paper Presentation - Intesy-2017	National Engineering College, Kovilpatti	Raji.A Vinitha.P	I
17/02/2017	Paper Presentation-Adhyasa'17	P.S.R.Rengasamy College Of Engineering For Women	Jaya Sree.S	II
30/03/2017 & 31/03/2017	Innovators-2017 Second National Level Techno Fair	District Science Centre, Tirunelveli	Abisha.L Harini.V	Special Prize
30/03/2017 & 31/03/2017	Innovators-2017 Second National Level Techno Fair Smart Bus System	District Science Centre, Tirunelveli	Sharmilarani.P Shanmugapriya.K	III
09/03/2017	Drawing Ekthesi – 2k17	P.S.R.Engineering College, Sivakasi	Ramya.R	I