



PSR ENGINEERING COLLEGE

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

# NEWS LETTER

*Half-Yearly Edition*

JANUARY-MAY, 2018



Once upon a time, there was a Kingdom. The king there only had one leg and one eye, but he was very intelligent and kind. Everyone in his kingdom lived a happy and a healthy life because of their king. One day the king was walking through the palace hallway and saw the portraits of his ancestors. He thought that one day his children will walk in the same hallway and remember all the ancestors through these portraits.

But, the king did not have his portrait painted. Due to his physical disabilities, he wasn't sure how his painting would turn out. So he invited many famous painters from his and other kingdoms to the court. The king then announced that he wants a beautiful portrait made of himself to be placed in the palace. Any painter who can carry out this should come forward. He will be rewarded based on how the painting turns up.

All of the painters began to think that the king only has one leg and one eye. How can his picture be made very beautiful? It is not possible and if the picture does not turn out to look beautiful then the king will get angry and punish them. So one by one, all started to make excuses and politely declined to make a painting of the king.

But suddenly one painter raised his hand and said that I will make a very beautiful portrait of you which you will surely like. The king became happy hearing that and other painters got curious. The king gave him the permission and the painter started drawing the portrait. He then filled the drawing with paints. Finally, after taking a long time, he said that the portrait was ready! All of the courtiers, other painters were curious and nervous thinking, How can the painter make the king's portrait beautiful because the king is physically disabled?

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What if the king didn't like the painting and gets angry? But when the painter presented the portrait, everyone in the court, including the king, left stunned.

The painter made a portrait in which the king was sitting on the horse, on the one-leg side, holding his bow and aiming the arrow with his one eye closed. The king was very pleased to see that the painter has made a beautiful portrait by cleverly hiding the king's disabilities. The King gave him a great reward.

*Moral: We should always think positive of others and ignore their deficiencies. We should learn to focus on the good things instead of trying to hide weaknesses. If we think and approach positively even in a negative situation, then we will be able to solve our problems more efficiently.*

## Extra-Curricular and Co-Curricular Activities

### RED RIBBON CLUB

NATIONAL YOUTH DAY CELEBRATION



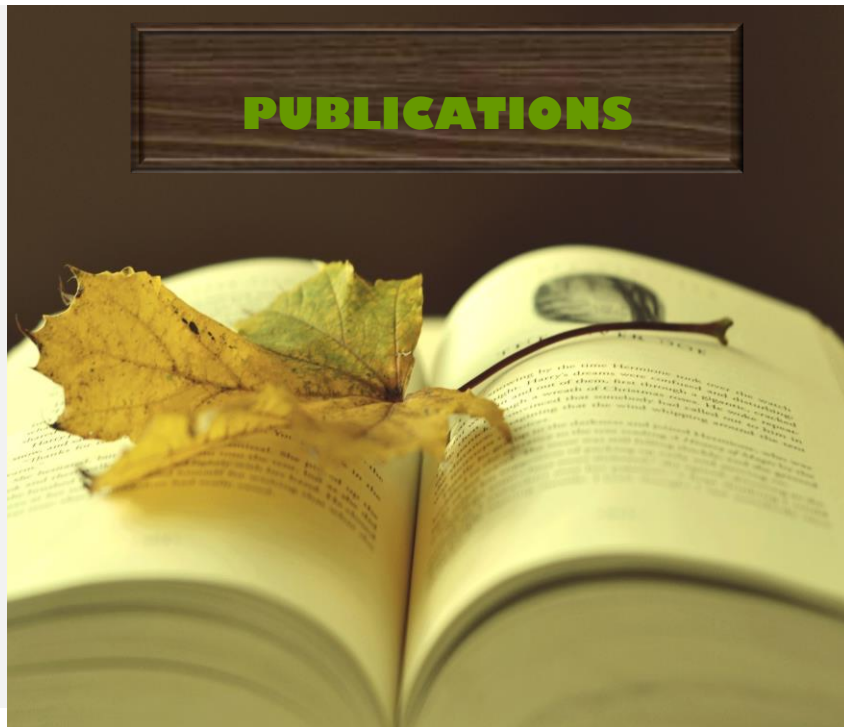
Red Ribbon Club has celebrated the 'National Youth Day'. Students took pledge on this occasion.

- R.Nikitha of III ECE participated in "TIVA"-Online Contest conducted by Texas Instruments
- Nandha kumar.s participated in KLN organised "National productivity week celebration-2018" on 16.02.2018.
- Vinoth Raj.S and Rajalakshmi.S, Rajarajeswari.R Priyanka.A, Pommy.S Rasitha Bulkees.A presented their Papers in " NECSI 2K18" in National engineering college,Kovilpattion 15.02.2018 and 16.02.2018.
- Keerthana.R ,Mahalakshmi .M, Subashini.N, Saraswathi.U participated in "IOT CHALLENGE 2018" in the event 'i3india technologies' organized in KLN Engineering College,Maduraion 2.2.2018 and 3.2.2018..
- Gopika shree.S ,Ganga devi.N, Madhanki.G and Nivethitha.R.A attended the workshop by robotech labs-"Underwater robotics "held at College of engineering,guindy on 2.2.2018 and 3.2.2018.

### Seminar



RRC Conducted a one day seminar ON 'CELEBRATING LIFE ' on 27.03.2018.Resource person was Mr.M.Kaliappan Ictc/Std Councilor Govt Hospital Kallamanaickerpatti.



## JOURNAL PUBLICATIONS

- K. Gobi, B. Kannapiran, D. Devaraj, and K. Valarmathi, “Design, Development and Performance Evaluation of Eddy Current Displacement Sensor Based Pressure Sensor with Target Temperature Compensation”, Defence Science Journal, Vol. 68, No. 2, March 2018, pp. 203-209. Impact Factor-0.53.
- K. Gobi, B. Kannapiran, D. Devaraj, and K. Valarmathi, “Design, development and performance evaluation of pressure sensor using eddy current displacement sensing coil”, Sensor Review, Vol. 38, Issue: 2, pp.248-258,2018. Impact Factor- 1.277.

## PUBLICATIONS IN NATIONAL / INTERNATIONAL CONFERENCES

- S.Chitradevi, D.Elizabeth, K.Gurulakshmi, N.S.YogaAnanth,“Wearable Antenna for Physiological Monitoring System using IoT”, National Conference on Recent Trends in Computing, Communication and Technology,2018.
- T.Praveena, K.Lamiyagulshan, K.SivakamiSundari, S.Balasubramanian, “IoT based system for Health Care Monitoring using Wireless Sensor Network”,National Conference on Advanced Technologies in Robotics and Industrial Automation, 2018.
- D.Moses Daniel Prabhakar, P.RanjithKumar, “Power Quality Improvement in a Grid Solar PV System”, International Conference on Recent Trends in Multi-Disciplinary Research,2018.
- J.SivaSankari, K.Valarmathi, “A New Adaptive Low Frequency Noise Removal From ECG Signal”, International Conference on Recent Trends in Multi-Disciplinary Research,2018.
- R.SelvaLakshmi, P.Marichamy,“An Efficient Face Recognition Technique using Local Binary Descriptors”, International Conference on Recent Trends in Multi-Disciplinary Research,2018.

- M.Nithin, R.Periyasamy, G.4ajkumar, M.Thangaraj, M.Indhumathi, "Underwater Surveillance Robot" National Conference on Recent Trends in Computing, Communication and Technology, 2018.
- S.Subburaj, A.Vinothkumar, P.Marichamy, "Public Transport Ticketing System using RFID" National Conference on Recent Advancements in Communication, Electronics and Signal Processing, 2018.
- M.Arunadevi, K.Karthika, M.Manisha, P.Lingeswari, "Smart Automation in Machine to Machine Communication", National Conference on Recent Trends in Computing, Communication and Technology, 2018.
- G.GanesaPandian, K.Valarmathi, "Lora based Traffic Violation Detection System", National Conference on Emerging Trends in Information and Communication Technology 2018.
- M.Sangeetha, D.SornaGomathi, M.Thanalakshmi, M.Vimala, "Design of Stair Case Climbing Robot", National Conference on Advanced Technologies in Robotics and Industrial Automation, 2018.
- R.Jothimeena, S.Mutharasi, G.Lingasamy, "Vehicle Traffic Congestion Control System in Smart Cities", National Conference on Recent Trends in Computing, Communication and Technology, 2018.
- P.Bavani, N.Maheswari, M.Muthupriya, R.Arunkumar, "Innovatory Modus for Text to Speech Pertinence for Stalled People", National Conference on Recent Trends in Computing, Communication and Technology, 2018.
- R.Sangeethaasree, S.Shyamala, P.RanjithKumar, "Bore Well Rescue Robot", National Conference on Advanced Technologies in Robotics and Industrial Automation, 2018.
- K.Abinaya, K.MuthuManilakshmi, J.Meena, "Implementation of Wireless Power Transfer System using FPGA for Charging Electric Vehicles", International Conference On Computer Science Engineering , 2018.
- M.Sidhuraj, P.Sivasurya, C.Vignesh, P.RanjithKumar, "A Societal Interaction Model for Detection of Toxic Gas in Septic tank", National Conference on Recent Trends in Computing, Communication and Technology, 2018.
- V.Archana, K.Jeyachitra, S.Jeyashree, S.Balasubramanian, "Smart ATM using Multi-Biometrics and GSM", National Conference on Recent Trends in Computing, Communication and Technology, 2018
- S.Nithya, G.Sridevinachiar, P.A.Mathina, "Preventing of String Crash in Haar Condition", National Conference on Advanced Technologies in Robotics and Industrial Automation, 2018.

- K.Kamaraj, K.Kumaralingam, P.Murugesan, P.Marichamy, "Intelligent Surveillance Robot", National Conference on Recent Trends in Computing, Communication and Technology, 2018.
- M.A.Jayakrishnan, S.Kalyaanam, P.RanjithKumar, "Internet of Things based Garbage Management System", National Conference on Innovations in Communication and Computing, 2018
- M.Boomadevi, S.Bhuvaneswari, S.Athimoolam," Remote Controlled Drainage Cleaning System", National Conference on Recent Trends in Computing, Communication and Technology,2018.
- A.S.Nivetha, M.Ramya, P.Lingeswari,"Design of Defence Robot Using Wireless Technology, National Conference on Advanced Technologies in Robotics and Industrial Automation, 2018.
- K.Selvaranjitha, B.Sangeetha, R.N.Nivethitha, "Data Transfer Through Power Line Communication to the Robot", National Conference on Recent Trends in Computing, Communication and Technology, 2018
- M.GuruRamaGayathri, P.Kaleeswari, P.A.Mathina, "Anti-Theft Security based Iot Using WSN", National Conference on Recent Trends in Computing, Communication and Technology,2018.
- L.Anusuya, I.Madhana, A.MoncyAmalInfanta, K.Ramalakshmi," Modern Drone System for Mine Applications", National Conference on Recent Trends in Computing, Communication and Technology,2018.
- M.Ganapathy, M.JebaSundar, P.MuthuKaruppasamy, P.Marichamy,"Stamped Avoidance System", National Conference on Recent Trends in Computing, Communication and Technology,2018.
- M.ArunKumar, S.ManoKarthick, G.Sivakumar, P.Krishnaleela," Intelligent Health Care Monitoring Device Using Fuzzy", National Conference on Recent Trends in Computing, Communication and Technology ,2018.
- M.Nidhyasri,A.Padmavathy,G.Priyadharsini , N.S.YogaAnanth "Design and analyze of Dual band Dual mode button Antenna" National Conference on Recent Trends in Computing,Communication and Technology, 2018.
- R.Anitha, E.Kaleeswari, N.Karpagalakshmi, P.GovindaMoorthi" A Novel Biometric Based Smart Class Regularity System", National Conference on Recent Trends in Computing,Communication and Technology, 2018.
- S.Nalayini, M.Pandiselvi, R.Ramya, J.Meena "Automated WPT System for Dynamic Weight Lifting Robot", International Conference on Recent Trends in Engineering,Computers,Information Technology and Applications,2018.

## ACHIEVEMENTS



ISRO CONTEST won by Rajkumar and Periyasamy.

2<sup>nd</sup> National Level Techno fair conducted by District Science Centre Thirunelvi. K.Sharmila Rani and Shanmuga Priya K won the trophy for their project "k smart bus system".



S.Vinoth Kumar has received "best 10 projects" award for his project in I 4 INDIA-Space Kids competition.



### Faculty Development Programme

Department of ECE has organized FDP on the topic "Audion Rasperberry pie" on 09<sup>th</sup>, February, 2018.



### **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.