



VISION OF THE DEPARTMENT

- ◆ To academically outstand in the field of Electronics and Communication Engineering education

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- ◆ Build Electronics and Communication Engineering knowledge in students by implementing novel educational experiences.
- ◆ Develop effective instructional infrastructural resources.
- ◆ Promote interdisciplinary learning.
- ◆ Develop community through service, consulting and research activities.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

PEOs (Program Educational Objectives) relate to the career and professional accomplishments of students after they graduate from the program. Consequently, assessment and evaluation of the objectives requires assessment tools that can be applied after graduation.

- ◆ Create innovative products in the field of Electronics and Communication Engineering.
- ◆ Pursue higher education or professional development courses for life-long learning.
- ◆ Support community building to improve the quality of life.

PROGRAMME OUTCOMES (POS):

Engineering Graduates will be able to:

- PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation for the solution of complex engineering problems.
- PO2:** Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3:** 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 public health and safety, and cultural, societal, and environmental considerations
- PO4:** Investigate 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.

- PO5:** 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
- PO6:** 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.
- PO7:** 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.
- PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9:** Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with the 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
- PO11:** 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.
- PO12:** 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.

PROGRAMS SPECIFIC OUTCOMES (PSO)

- PSO's 01:** Apply mathematical foundations, electronic principles and computer fundamentals in the modeling and design of electronic based systems in a way that demonstrates comprehension of the tradeoffs involving design choices.
- PSO's 02:** Demonstrate ideas, methodologies with new cutting-edge technologies using system software for product development starting from lowest level of physical devices to the top level of application development.

ACTIVITIES OF THE DEPARTMENT

PROGRAMS CONDUCTED:

A five day training on “LabView Certification Course (CLAD) (PH-III)”, organized by Department of ECE, from 28th August to 1st November 2018, by Mr. Balaji, LabView, Application Developer, Bangalore.

PUBLICATIONS / PRESENTATIONS AT NATIONAL AND INTERNATIONAL JOURNALS/CONFERENCES

INTERNATIONAL JOURNALS:

G. Renuka published a paper on “COMPARISON OF AES AND DES ALGORITHMS IMPLEMENTED ON VIRTEX-6 FPGA AND MICROBLAZE SOFT CORE PROCESSOR”, in International Journal of Electrical and Computer Engineering IJECE, on October 2018, Vol: 8, Issue:5, ISSN: 2088-8708.

J. Mounika, Dr. J.Tarun Kumar published a paper on “ANOTHER APPROACH FOR MECHANICAL ELECTRICAL PARAMETERS CONTROLLING AND CHECKING UTILIZING IOT INNOVATION”, in Advances in Computational Sciences and Technology, on November 2018, Vol: 11, Page No.: 23-33.

Ch. Sridevi published a paper on “AN ENHANCED STUDY OF COMPUTATIONAL FLUID DYNAMICS” , International Journal of Public Health Research & Development , Vol. 9, No. 11, November-2018, pp. 706-711.

Sreedhar Kollem, Katta Rama Linga Reddy, Duggirala Srinivasa Rao published a paper on “DENOISING AND SEGMENTATION OF MR IMAGES USING FOURTH ORDER NON-LINEAR ADAPTIVE PDE AND NEW CONVERGENT CLUSTERING”, in International Journal of Imaging System Technology, RESEARCH ARTICLE, on November 2018, Page No.: 1–15,

Nutenki Siddhartha, G .Renuka published a paper on “CODING TECHNIQUES FOR IMPLEMENTATION OF FAULT TOLERANT PARRALLEL FILTER USING ECCS”, in International Journal of Electronics Engineering Research, on November 2017, Vol: 9, Issue: 10, Page No.: 1493-1500.

Sangeetha Sadul, Rajeshwar Rao Arabelli published a paper on “IOT BASED MONITORING AND CONTROL SYSTEM FOR APPLIANCES”, in Advances in Computational Sciences and Technology, on November 2018, Vol: 11, Page No.: 35-42.

Dr. T. Chandrabai, E. Ramesh, Gunda Mahesh Kumar published a paper on “THE ROLE OF TECHNOLOGY MANAGEMENT ON INNOVATION SUCCESS AND PERFORMANCE OF ORGANIZATIONEMPIRICAL STUDY”, in International Journal of Civil Engineering and Technology (IJCIET), on December 2018, Vol: 9, Issue: 13, Page No.: 819-826, ISSN: 0976-6308.

S. Srinivas, T.Chandraprakash, M. Shyam Sunder published a paper on “IMPLEMENTATION OF ADAPTIVE CHANNEL ESTIMATION AND CIR SUPPORT BASED ON PILOT ARRANGEMENT AND ADAPTIVE FILTERING IN MIMO-OFDM SYSTEMS”, in International Journal of Engineering & Technology, on December 2018, Page No.: 236-239.

E. Ramesh, D. Ramesh Babu, P. Ramchandrar Rao published a paper on “THE IMPACT OF PROJECT MANAGEMENT IN ACHIEVING PROJECT SUCCESS- EMPIRICAL STUDY”, in International Journal of Mechanical Engineering and Technology (IJMET), on December 2018, Vol: 9, Issue: 13, Page No.: 237-247, ISSN: 0976-6340.

Ch. Rajendra Prasad published a paper on “FAULT TOLERANT PARALLEL FILTERS BASED ON ECC CODES” in Advances in Computational Sciences and Technology ISSN 0973-6107 Volume 11, Number 7 (2018) pp. 597-605 © Research India Publications <http://www.ripublication.com>

L.MARIA IRUDAYA LEO JOSEPH published a paper on “COMPARATIVE STUDY OF SOFT COMPUTING BASED HIGH-RESOLUTION SATELLITE IMAGE SEGMENTATION IN ADDITIVE AND USER-ORIENTED COLOR SPACE”, in Microelectronics, Electromagnetics and Telecommunications, Lecture Notes in Electrical Engineering, on December 2018.

Sreedhar Kollem, Katta Ramalinga Reddy and Duggirala Srinivasa Rao, A Review of Image Denoising and Segmentation Methods based on Medical Images submitted to Journal of Engineering and Applied Sciences (Accepted), (Scopus indexed journal)

WORKSHOPS / FDPS/ TRAININGS ATTENDED:

S. Srinivas participated actively in “NI Academic & Research Day” at Hotel Trident, Chennai hosted by National Instruments on 04th December 2018.

P. Ramchandrar Rao, A. Rajeshwar Rao participated in hands on workshop on “IOT and Drones”, organized by leadingIndia.ai, a national wide initiative by Bennett Univeristy, Greater Noida, India from 08th & 9th December 2018.

STUDENT ACHIEVEMENTS:

- M. Sandeep participated in “TELANGANA STARTUP YATRA”, organized by JNTU, Hyderabad and got Best project award, on September 2018.
- Sanath Kumar, M. Kishore, M. Sai Teja, P. Aishwarya, K. Nikitha, K. supriya, A. Neha, R. Vineetha, T. Meghana, Rohsan, Shivani, T. Arun Kumar are participated in Abhivyaktha, organized by Department of ECE, SREC, Warangal and got appreciation award, on October 2018.



HONORS:

Congratulations to Mr. S. Srinivas, Mr. P. Ramchandar Rao were awarded “**CERTIFIED LABVIEW ASSOCIATE DEVELOPER (CLAD)**” exam on 24-11-2018, conducted by National Instruments, organized by Department of Electronics and Communication Engineering, RVR & JC Engineering College, Guntur.

Editorial Board:

Chief Editor : Dr. J. Tarun Kumar

Staff Members : Mr. M. Sampath Reddy, Mr. P. Ramchandar Rao, Mr. S. Sanjay Kumar

Student Members : Ms. B. Rishika, Mr. T. Pavan Kumar.

PHOTOGRAPHS OF VARIOUS ACTIVITIES



National Instrumentation, Bangalore has authorized SR Engineering College to conduct Certification Course in “LABVIEW” under its Academy School, with effect from 4th December 2018