



VISION OF THE DEPARTMENT

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

MISSION OF THE DEPARTMENT

- ◆ 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.

Volume: 01

Issue: 21

Jan - Apr 2018

- 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 Four Day Training Session on “**EMBEDDED SYSTEMS USING MSP 430 (PHASE-I)**”, organized by Department of ECE, from 8th to 11th January, 2018, by Mr. Gurjeet Singh, Managing Director, Gill Instruments Pvt. Ltd, Bangalore.

A five day training on “**LABVIEW CERTIFICATION COURSE (CLAD) (PH-II)**”, organized by Department of ECE, from 19th to 23rd February, 2018, by Mr. Balaji, LabView, Application Developer, Bangalore.

A Four Day Training Session on “**EMBEDDED SYSTEMS USING MSP 430 (PHASE-II)**”, organized by Department of ECE, from 22nd to 25th February, 2018, by Mr. Pradhan, Embedded Systems Engineer, Gill Instruments Pvt. Ltd, Bangalore.

A one week training on “APPLICATION OF RASPBERRY PI ON IOT”, organized by ECE IETE Professional Society, from 22nd to 29th February, 2018, by Mr. Atif Shah, ABE semi conductor design, Chairman & Managing Director, Chennai

PUBLICATIONS / PRESENTATIONS AT NATIONAL AND INTERNATIONAL JOURNALS/CONFERENCES

INTERNATIONAL JOURNALS:

Sreedhar Kollem, Katta Ramalinga Reddy and Duggirala Srinivasa Rao, Denoising and Segmentation of MR Images using Fourth Order Non-linear Adaptive PDE and New Convergent Clustering in International Journal of Imaging Systems and Technology, Volume No.29, Issue No.1, March 2018,

Humera Zainab1, P. Anuradha published a paper on “ TESTABILITY DESIGN FOR SLEEP CONVENTION LOGIC”, in Advances in Computational Sciences and Technology, on March 2018, Vol: 11, Page No.: 561-566.

Ch. Rajendra Prasad, Dr. Pollaiah bojja published a paper on “A REVIEW ON BIO-INSPIRED ALGORITHMS FOR ROUTING AND LOCALIZATION OF WIRELESS SENSOR NETWORKS”, Journal of Advanced Research in Dynamical and Control Systems, Volume 9, Issue 18, Pages :1366-1374 - March- 2018.

Sreedhar Kollem, Image Denoising by using Modified SGHP Algorithm in International Journal of Electrical and Computer Engineering (IJECE), ISSN: 2088-8708, Volume No.8, Issue No.2, April 2018 (Scopus Indexed and UGC Approved).

S. Srinivas published a paper on “CASE STUDY ON CHANNEL ESTIMATION TECHNIQUES FOR MIMO-OFDM SYSTEMS ” in International Journal of Creative Research Thoughts, on April 2018, Vol.:6, Issue:2, Page No: 115-118, ISSN:2320-2882.

G.Renuka1 , V.Ushashree2 , P .Chandrasekhar Reddy published a paper on “Functional Verification of Inter Integrated Circuit (I2C) Using Advanced Verification Methodology”, in International Journal of Pure and Applied Mathematics, on April 2018, Vol: 118, Issue: 24, Page No.: 1-11, ISSN: 1314-3395.

Mohammed Yasin Ali, Syed Musthak Ahmed published a paper on “A CROSS-LAYERED APPROACH FOR IMPROVING QUALITY OF SERVICE OF VIDEO TRANSMISSION IN AD-HOC NETWORKS”, in Journal of Advanced Research in Dynamical & Control Systems, on April Special Issue 2018, Vol: 10, Page No.: 1849-1854.

P. Anuradha published a paper on “ENERGY EFFICIENT SCHEDULING ALGORITHM FOR THE MULTICORE HETEROGENEOUS EMBEDDED ARCHITECTURES” in Springer SCIE journal Design automation for embedded systems Vol. No.:21 Issue No.: 4 Year/ Month of Publication: April 2018 . DOI: 10.1007/s10617-018-9202-7.[SCIE]

WORKSHOPS / FDPS/ TRAININGS ATTENDED:

Dr J. Ravichander attended a Faculty Development Program on “MooCs, open education and open educational resources, organized by JNTU Hyderabad during 5th to 7th January 2018.

Ch. Rajendra Prasad attended conference on “Signal processing and communication engineering systems SPACES-2018” (in association with IEEE), 4th & 5th January 2018, KLEF, Andhra Pradesh.

Dr J. Ravichander attended a Faculty Development Program on Engineering Educated Training Program organized by SR Engineering College during 22nd February2017 to 18th January 2018.

STUDENT ACHIEVEMENTS:

1. B. Navya got 1st prize in “HACKATHON -2018”, organized by Sumathi Reddy Institute of Technology for Women, on February 2018.
2. D. Kushal, S. Santh Kumar, Kishore, Kiran, Srikanth won State 1st Prize in “ROBOCON” National Robotics Competition, organized by MIT, Pune, from 1st to 3rd March, 2018.
3. M. Kishore, T. Kiran, M. Sandeep participated in “MAKETHON-2018”, on 14th April 2018.

PLACEMENT DETAILS:

The following are the placements taken place between January to April 2018.

S.No.	Name of the Company	No. of Students Placed
1	Aliens Group	07
2	HGS	21
3	IBS	06
4	Infosys	05

5	Justdial	06
6	Rapid Robotics	02
7	Savantis Solutions LLC	02
8	SD Mactech	02
9	Tech Mahindra	02
10	Triangle Tele Incorporation	14

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



Training Session on “**EMBEDDED SYSTEMS USING MSP 430**”, by Mr. Gurjeet Singh, Managing Director, Gill Instruments Pvt. Ltd, Bangalore.



Training Session on “**LABVIEW CERTIFICATION COURSE (CLAD)**”, by Mr. Balaji, LabView, Application Developer, Bangalore.



Training Session on “**APPLICATION OF RASPBERRY PI ON IOT**”, by Mr. Atif Shah, ABE semi conductor