

Faculty Contributions:**Workshop/FDP:**

- ✓ Mr. P. Raghava Reddy attended a workshop on Smart Classroom conducted by IIT BOMBAY from 24.06.2019 to 25.06.2019.
- ✓ Mr. Naveen Kolla attended a workshop on Speech processing conducted by Electronics & ICT Academy, NIT, Warangal from 17-6-2019 to 22-6-2019.
- ✓ Ms. M. Suhasini attended a workshop on Design of High Performance and Low Power Thirsty SOC modules using Mentor Graphics Tools conducted by Narayana Engineering College, Nellore, from 25-06-2019 to 29-06-2019.
- ✓ Ms. K. Radhika attended a workshop on Speech processing conducted by Electronics & ICT Academy, NIT, Warangal 17-6-2019 to 22-6-2019.
- ✓ Dr. Syed Jeelan Basha attended Workshop on “Python” conducted by IIT Bombay on 22.06.2019.
- ✓ Mr. P. Raghava Reddy attended Workshop on “Python” conducted by IIT Bombay on 22.06.2019.

Conference:

- Mr. G. Kiran kumar published a paper Synthesization of low power and area optimized approximate SOP designs in conference NCETEC-2019 on 12-04-2019 organized by DEPT.OF ECE,R&D,GIST ISSN:2349-5162.
- Ms. M. Suhasini published a paper Vehicle Tracking and Locating System based on GPS and GSM in conference NCETEC-2019 on 12-04-2019 organized by DEPT.OF ECE,R&D,GIST ISSN:2349-5162.
- Mr. P. Raghava Reddy published a paper Design and Analysis of Carry Maskable Adder (CMA) For Low Power Application in NCETEC-2019, National conference on 12-04-2019 organized by DEPT.OF ECE,R&D,GIST ISSN : 2349-5162.
- Dr. Shaik. Mahaboob Basha published a paper Energy saving and robust surveillance system using sensors and Raspberry pi in NCETEC-2019, National conference on 12-04-2019 organized by DEPT.OF ECE,R&D,GIST.
- Dr. Shaik. Mahaboob Basha published a paper Modified KPCA Technique For The Estimation Of Metrics For Super resolution Based Application in NCETEC-2019, National conference on 12-04-2019 organized by DEPT.OF ECE,R&D,GIST .

Journal:

- Mr. G. Kiran kumar published a paper Synthesization of low power and area optimized approximate SOP designs in international journal JETIR 2349-5162 with UGC Journal No: 63975
- Mr. M. Mahesh Kumar published a paper A bit-plane decomposition matrix-based VLSI integer transform architecture for HEVC in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Mr. S. Sreenivasulu published a paper A facial-expression monitoring system for improved healthcare in smart cities in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Mr. Mohana Krishna published a paper A high accuracy solver for RTE in under water optical communication path loss prediction in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Ms. K. Radhika published a paper A novel conveyor belt mechanism for identifying and sorting products in IJETIR (Journal of Emerging Technologies and Innovative Research)2349-5162 UGC approved.
- Mr. K. Prabhakar Reddy published a paper An adaptive method for vehicle counting using

digital image processing techniques in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.

- Dr. D. Regan published a paper An algorithm for concrete crack extraction and identification based on machine vision in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Dr. Sd. Jeelan Basha published a paper Automated contrast limited adaptive histogram equalization using intrinsic decomposition and dual gamma correction in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Mr. P. Raghava Reddy published a paper Brain tumor detection system using deep learning in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Ms. P. Madhavi published a paper Data hiding and extraction from images using side match algorithm in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Dr. S. Parasuraman published a paper Design a reconfigurable rectangular microstrip patch antenna for multiband communication in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Ms. C. Durga Tejeswi published a paper in Design and implementation of touch based TFT shift register for low power and low noise applications with 18nm technology IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Dr. Sk. Mahaboob Basha published a paper Energy saving and robust surveillance system using sensors and raspberry pi in IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Ms. Sk. Shahina published a paper Enhancing the security of MISO NOMA SWIPT system using cooperative jamming scheme IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Mr. P. Raghava Reddy published a paper GUI based quality assessment of rice grain using optical and image processing techniques IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.
- Mr. P. V. Krishna Rao published a paper Hand gesture recognition and voice conversion system for dumb and deaf people IJETIR (Journal of Emerging Technologies and Innovative Research) 2349-5162 UGC approved.

Department Events:

Spoken tutorial on Python and Scilab was organized for the Department of ECE II and III year students on 7th may 2019.



Student Achievements:**Prizes Won:**

- Nagaraju lalith Surya teja roll number 182U1A0497 SRUJANA-2K19 Awarded First prize in PPT organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19
- Nagaraju lalith Surya teja roll number 182U1A0497 SRUJANA-2K19 Awarded First prize in Project Expo organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19

Smart brain:

- ✓ L.Lavanya from III ECE participated in NECPECT 2K19 on topic Smart Bin in Narayana engineering college::Gudur, held on 4 APR 2019.
- ✓ Y.Supriya from III ECE participated in NECPECT 2K19 on topic Smart Bin in Narayana engineering college::Gudur, held on 4 APR 2019.

Quiz:

- Machavolu Sathvika roll number 182U1A0479 participated in SRUJANA-2K19 general quiz organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.
- Ch pushpa latha roll number 182U1A0431 participated in SRUJANA-2K19 general quiz organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.
- K Chandrakala roll number 182U1A0467 participated in SRUJANA-2K19 general quiz organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.
- Pottti Deepika roll number 182U1A04B9 participated in SRUJANA-2K19 general quiz organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.
- Y Siva Poojitha roll number 182U1A04H5, Syed Nayem roll number 182U1A04F9 , V Sravanthi roll number 182U1A04H0, G Sri Vidya roll number 182U1A0444, Ch Mahitha roll number 182U1A0429, D V Karthik roll number 182U1A0432, B Malyadri Hari Krishna roll number 182U1A0413 participated in SRUJANA-2K19 general quiz organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.

Poster presentation:

- Pessala Supriya roll number 182U1A04B6, Shaik Sabreen roll number 182U1A04E1, K Bhuvanewari roll number 182U1A0469 participated in SRUJANA-2K19 poster presentation organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.

Ppt:

- Shaik Shahina participated in SRUJANA-2K19 ppt organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.
- Mohaseena Begum participated in SRUJANA-2K19 ppt organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.
- D V Karthik roll number 182U1A0432, B Malyadri Hari Krishna roll number 182U1A0413 participated in SRUJANA-2K19 ppt organised by GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY on 13-Apr-19.

Editorial Board:

Editors: 1. M. Sivakrishna, Asst. Professor,

2. C. Durga Tejaswi, Asst. Professor

Student Members: 1. M. Sudivya (III ECE),

2. N. Saiteja (III ECE),

3. P. Bhagya Lakshmi (II ECE),

4. Sk. Hafeez (II ECE)



GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to JNTU, Anantapur)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NEWS LETTER

ABSOLUTE ELECTRONICS
"Key to Success"

Vision

To become a reputed learning centre producing competent professionals.

Mission

- Provide Quality education through interactive teaching-learning practices.
- Establish Technology-enabled environment for core competencies including robotics.
- Arrange Industry-Interaction to hone professional skills.
- Organize activities to foster social skills and ethical values.

Eye Gaze Communication

The term Eye gaze communication refers to operating computer system by tracking the eye gaze of the human. Eye tracking is the process of tracking the moment of eye and determining where the user is looking on the screen. Eye gaze technology is hand free or voice free technology i.e. without using hand or voice we can operate the computer. Persons with cerebral palsy, spinal cord injury, brain injury, brainstem stroke, muscular dystrophy etc. can use this system. This system is also called as vision-controlled communication system

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- Apply Engineering concepts to solve Electronics and Communication Engineering problems of social relevance.
- Design and develop Electronic devices and Systems for Industry or pursue research.
- Demonstrate competencies through continuous learning and adapt to multi-disciplinary environment.
- Practice professional values and contribute to the societal needs.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Professional Skills: Apply principles of Analog and Digital Electronics, Communication Systems, Image processing, VLSI and Embedded Systems to solve diverse problems.
- Software Knowledge: Develop solutions for complex engineering problems of social relevance by employing Xilinx, CC Studio, Micro Wind, Keil, NG Spice, Scilab tools.