SR Engineering College
innovation . Creativity . Entrepreneurship

ELECTROVORTEX

NEWS LETTER

Volume: 02 **Issue: 22** **May – Aug 2018**

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.

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 Seminar on "Signals and Systems and Its Applications" organized by SREC IEEE Student Branch, from 21st July, 2018, by Dr. Ravikumar, Associate Professor, NIT Warangal.

A Industrial visit to "All India Radio, Warangal", organized by ECE IETE Professional Society, on 25th July, 2018.

A Technical Presentation on "Virtual Reality Cloud computing AI and Machine Learning Blockchain", organized by SREC IEEE Student Branch, on 25th August, 2018, by Dr. K. Bikshalu, Assistant Professor, KUCE, Kothagudem.

PUBLICATIONS / PRESENTATIONS AT NATIONAL AND INTERNATIONAL JOURNALS/CONFERENCES

INTERNATIONAL JOURNALS:

Mohd Shirazuddin1, Syed Musthak Ahmed, Anupama Deshpande published a paper on "METICULOUS STUDY ON IMPROVING UCM'S SAFETY: ANALYSING CAUSES OF ACCIDENTS AND SUGGESTING RECOMMENDATIONS", in International Journal of Computer Sciences and Engineering, on June 2018, Vol: 6, Issue: 6, Page No.: 858-862, ISSN: 2347-2693.

Mohammed Yasin Ali, Syed Musthak Ahmed published a paper on "AN EFFICIENT DESIGN OF CROSS LAYER DESIGN FOR POWER CONTROL AND LINK AVAILABILITY", in International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), on June 2018, Vol: 4, Issue: 6, Page No.: 143-149, ISSN: 2455-2585.

P. Anuradha published a paper on "Characterization of SPEC BENCHMARKS" in International Journal of Pure and Applied Mathematics vol. .:118 No.24 Year/ Month of Publication: June 2018, ISSN: 1314-3395 **[Scopus Indexed Journal]** **https://acadpubl.eu/hub/2018-118-24/2/285.pdf**

L.MARIA IRUDAYA LEO JOSEPH published a paper on "CENTRAL RETINAL VEIN OCCLUSION: AN APPROACH FOR THE DETECTION AND EXTRACTION OF RETINAL BLOOD VESSELS", in Journal of Pharmaceutical Sciences and Research, on June 2018.

Sreedhar Kollem and V. Rajanesh, Compression of Embedded Image using a Pilot and Information Water Mark Model in International Journal of Pure and Applied Mathematics, Volume No.120, Issue No.6, July 2018 (Scopus Indexed and UGC Approved)

Ch. Rajendra Prasad, Dr. Pollaiah Bojja published a paper on "A SURVEY ON ROUTING PROTOCOLS IN WIRELESS BODY AREA NETWORKS FOR MEDICAL APPLICATIONS", Journal of Advanced Research in Dynamical and Control Systems, Volume 10, Issue 10, Pages :92-97 - July- 2018 ISSN : 1943-023X.

G. Renuka, V. Ushashree, P .Chandrasekhar Reddy published a paper on "DESIGN AND IMPLEMENTATION OF ARM BASED VERIFICATION METHODOLOGY FOR LOW COMPUTATION TIME AND HIGH PERFORMANCE", in Jour of Adv Research in Dynamical & Control Systems, on July 2018, Vol: 10, (Special Issue-10), Page No.: 102-111.

Jaffreen Samdani, P. Anuradha published a paper on "VLSI ARCHITECTURE OF A HIGH SPEED POLAR CODE DECODER USING FINITE LENGTH SCALING LDPC CODES", in Journal of Advance Research in Dynamical and Control Systems(JARDCS) with ISSN 1943-023X Vol. No.: 10, Year/ Month of Publication: July 2018, Page No's: 153-161 **[Scopus Indexed Journal]**

P. Anuradha, Hemalatha Rallapalli, G.Narsimha published a paper entitled "VERSATILE INTELLIGENT ELM ALGORITHM FOR WORKLOAD CHARACTERIZATION'' in Journal of Advance Research in Dynamical and Control Systems(JARDCS) with ISSN 1943-023X Vol. No.: 10, Year/ Month of Publication: July 2018 Page No's: 177-184 **[Scopus Indexed Journal]**

J. Tarun Kumar, M. Sampath Reddy, P. Ramchandar Rao published a paper on "EQUALIZER DESIGN TO COMPENSATE IMPAIRMENTS IN OFDM SYSTEM", in Jour of Adv Research in Dynamical & Control Systems, on July 2018, Vol: 10, (Special Issue-2), Page No.: 1819-1826.

L.MARIA IRUDAYA LEO JOSEPH published a paper on "DETECTION AND SEGMENTATION OF RETINAL BLOOD VESSEL IN DIGITAL RGB AND CIELUV COLOR SPACE FUNDUS IMAGES", in Journal of Pharmaceutical Sciences and Researc Research Journal of Pharmacy and Technology, on August 2018.

K. Naveen, Y. Shekar published a paper on "High- Parallel Turbo Decoder VLSI Design", in in International journal of pure and applied mathematics, on August 2018.

Y. Shekar, K. Naveen published a paper on "Design of VLSI Architecture for High Efficiency Video Coding Interpolation Filter", in in International journal on advance Research in dynamical & control systems, on August 2018.

Soma Umamaheshwar, Tipparti Anil Kumar, and Kunupalli Srinivas Rao, "Performance of MIMO Detection Techniques with Spatial Multiplexing ", in International Journal of Engineering & Technology (IJET) (UAE), on August 2018, Vol. 7, Issue:33, Page No:752-754, ISSN:2227-524X.

INTERNATIONAL CONFERENCES:

Umamaheshwar Soma, Anil Kumar Tipparti, Srinivasa Rao Kunupalli presented a paper on "IMPROVED PERFORMANCE OF LOW COMPLEXITY K-BEST SPHERE DECODER ALGORITHM", in International Conference on Inventive Communication and Computational Technologies (ICICCT 2017), organized by IEEE, on June 2018, Page No.: 490-495.

Ravichander Janapati, ch.Balaswamy, K.Soundararajan presented paper on "ENHANCEMENT OF LOCALIZED ROUTING USING CDPSO IN WSN" in spaces-2018 at KL University, organized by IEEE(Scopus indexed).

WORKSHOPS / FDPS/ TRAININGS ATTENDED:

Ch. Rajendra Prasad attended a faculty development program on "Engineering Exploration" course from 14th to 18th May 2018 at CEER KLE technological University, Hubballi, Karnataka.

S. Srinivas and P. Ramchandar Rao are attended in One week training on "NI Labview Core1 and Core2 course", organized by at Department of Electronics & Communication Engineering, Vasavi College of Engineering, Hyderabad, from, from 14th to 19th May, 2018.

Ch. Rajendra Prasad, Y. Shekar, Ch. Sridevi attended workshop on "Artificial Intelligence and Deep Learning" conducted by leadindia.in, at SR Engineering College, Warangal, form 17th -19th June 2018.

Ch. Rajendra Prasad has awarded Certificate for completion of "Image classification with DIGITS, Object detection with DIGITS, Neural Network Deployment with DIGITS and TensorRT" by NVIDIA Deep Learning Institute on 19th June 2018.

Ch. Sridevi has awarded Certificate for completion of "Image classification with DIGITS, Object detection with DIGITS, Neural Network Deployment with DIGITS and TensorRT" by NVIDIA Deep Learning Institute on 19th June 2018.

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STUDENT ACHIEVEMENTS:

1. Srikanth, T. Kiran, M. Kishore, Jwala, Anusha and Karith are attended one week workshop at "ALL INDIA RADIO STATION, WARANGAL", on June 2018.
2. M. Kishore, T. Kiran and Sainath participated in "TINKER CAMP-2018", organized by SR Engineering College, from 24th to 28th June 2018.
3. M. Kishore, T. Kiran, Sreeja and A. Srikanth participated in "IOT HACKATHON-2018", organized by Anurag Group of Institutuions, Hyderabad, on 17th & 18th August 2018.

PHOTOGRAPHS OF VARIOUS ACTIVITIES

"Signals and Systems and Its Applications" organized by SREC IEEE Student Branch, from 21st July, 2018, delivered by Dr. Ravikumar, Associate Professor, NIT Warangal.

A Industrial visit to **"All India Radio, Warangal",** organized by ECE IETE Professional Society, on 25th July, 2018.