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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**Volume - 04, Issue- 01 ECE NEWS (Half yearly News Letter) Jan-June 2023**

**Editor:**

Dr. B.Nancharaiah  
Professor & HOD.

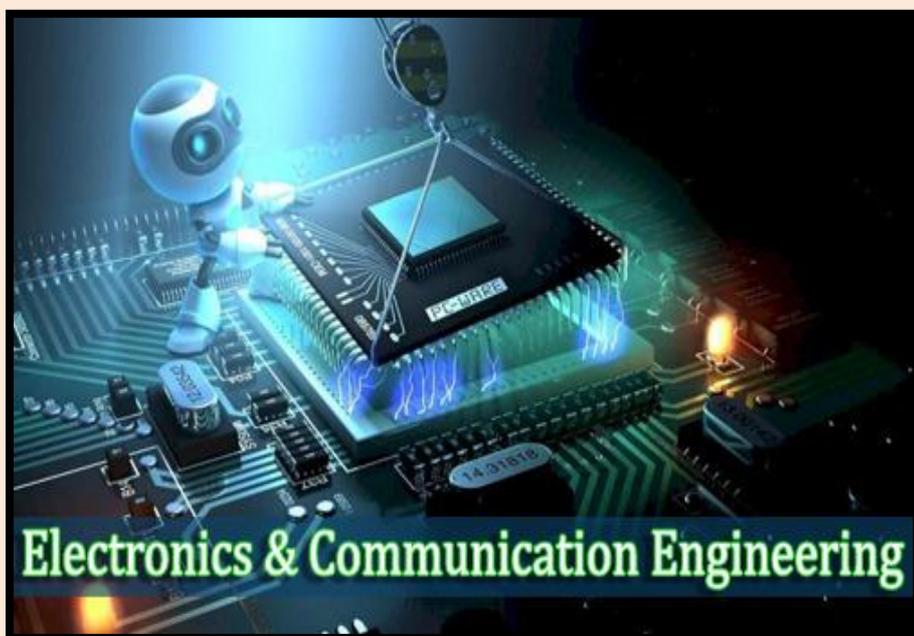
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Professor.  
Mr.E.Ramakrishna Reddy  
Asst. Professor.

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Arumalla Akhila- II ECE.  
Derangula Raviteja III ECE.  
Ella Deepika- III ECE.  
Mekala Priyanka-IV-ECE.  
Sunkara Tanuja - IV-ECE.

**NEWS LETTER**  
**ECE NEWS**



**Department of**  
**ELECTRONICS AND COMMUNICATION ENGINEERING**

January-December 2023      Volume-4 , Issue- 01

## **ABOUT ECE DEPARTMENT**

The Department of Electronics & Communication Engineering aims to impart value-based technical education and train students to become well-rounded engineers. Since its inception in the academic year 2008-09 with an initial intake of 60 students, the department has grown significantly. The current intake of the ECE department is 180 students. The department boasts faculty strength of 53 well-qualified, experienced, and dedicated postgraduates, including 11 doctorates, with some faculty members currently pursuing Ph.D.s in various streams.

## **VISION OF THE DEPARTMENT**

To be a pioneer in Electronics and Communication Engineering and research, promoting entrepreneurship and delivering innovative solutions to societal needs

## **MISSION OF THE DEPARTMENT**

**M1:** To provide a strong foundation in Electronics and Communication Engineering, preparing students to tackle emerging technological challenges.

**M2:** To drive research in Electronics and Communication Engineering that delivers innovative solutions to societal needs.

**M3:** To promote lifelong learning, empowering students to adapt to the evolving technological advancements

### **Program Educational Objectives (PEO's):**

The following are the Program Educational Objectives (PEO's) for Electronics & Communication Engineering Under-Graduate Program.

**PEO 1:** Exhibit continuous growth in technical expertise and leadership within the engineering field, while upholding professional ethics.

**PEO 2:** Communicate effectively and manage resources skillfully as members and leaders of the profession

**PEO 3:** Commit to continuous learning and adapt to emerging technologies to meet the evolving needs of society.

**Program Specific Outcomes (PSOs):**

**PSO1:** Develop electronics and communication systems in VLSI, embedded systems, signal processing, and RF communications using advanced tools.

**PSO2:** Apply ECE knowledge to design, develop, and test systems, considering societal, environmental, ethical, and economic factors.

**Program Outcomes (POs):**

**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**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.

**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.

**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.

**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.

**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.

**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary setting

**MESSAGE FROM HOD****Dr. B. Nancharaiah**

Professor & Head of the Department, Department of ECE,

Usha Rama College of Engineering and Technology, Telaprolu

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Dr. B. Nancharaiah received his B.E. degree in Electronics and Communication Engineering in 1999 from SRKR Engineering College, Bhimavaram, affiliated to Andhra University, India. He obtained his M.Tech degree in Electronics and Communication Engineering in 2003 from Pondicherry Engineering College, Pondicherry Central University, India. He earned his Ph.D. degree in Wireless Communications and Networks in 2017 from JNTUH, Hyderabad, India.

Dr.B.Nancharaiah has been working as Professor and HOD in the Department of Electronics and Communication Engineering at Usha Rama College of Engineering and Technology, Telaprolu, Andhra Pradesh, India, since June 2018. With 23 years of teaching experience, he is a Life Member of ISTE and Fellow of IETE. He has published over 70 papers in reputable national and international journals and conferences. He is the author of two textbooks: Metaheuristic Algorithms in Wireless and Mobile Ad Hoc Networks and Antenna and Wave Propagation. His research interests include wireless communications, networks, and IoTs.

Our department is committed to providing quality education and training to our students, enabling them to excel in their chosen careers. We strive to create a stimulating learning environment that fosters innovation, creativity, and critical thinking. Our faculty members are dedicated professionals with expertise in their respective areas, and we are proud of our strong industry partnerships that provide opportunities for internships, projects, and placements.

Best regards,

Dr.B.Nancharaiah

Head, Department of Electronics and Communication Engineering

**Research paper publications**

SCI/SCIE	Web of Science	Scopus	UGC	Others
1	0	11	43	-

1. Dr. B. Nanchariah, Professor, published a paper titled " Based Healthcare Monitoring System" in the Journal of Pharmaceutical Negative Results (Scopus indexed) in January 2023.
2. M. K. Kishore, Assistant Professor, and Dr. B. Nancharaiah, Professor, published a paper titled "Blockchain-Based Topographical Relay Selection Secure Routing (B-TRSSR) Technique for the Multi-Hop Communication in Wireless Mesh Networks (WMN)" in the Journal of Pharmaceutical Negative Results (ISSN: 0976-9234, Scopus indexed) in April 2023.
3. M. K. Kishore, Assistant Professor, and Dr. B. Nancharaiah, Professor, published a paper titled "Novel Optimization Algorithm to Enhancing the Performance for VoIP and MDVC Video Transmission in Wireless Mesh Network" in the Journal of Data Acquisition and Processing (ISSN: 1004-9037, Scopus indexed) in April 2023.
4. B. Nancharaiah, Professor, published a paper titled "Basic Compact Two-Element Antenna with Improved Isolation Using Sub-6GHz for 5G Applications" in the Journal of Data Acquisition and Processing (ISSN: 1004-9037, Scopus indexed) in April 2023.
5. B. Nancharaiah, Professor, and K. Babu Rao published a paper titled "Power and Density Aware Partial-Bus Invert Adaptive Coding Using GDI" in the Journal of Data Acquisition and Processing (Scopus indexed) in April 2023.
6. G. Suneetha, Assistant Professor, K. Babu Rao, Assistant Professor, and Dr. B. Nancharaiah, Professor, published a paper titled "High-Throughput and Dynamic Power Aware Global Optical Flow Method Using Clock Gating and MRP" in the Journal of Data Acquisition and Processing (ISSN: 1004-9037, Scopus indexed) in April 2023.
7. Ch. Santhi Rani, Professor, published a paper titled "An Embedded Systems Based Approach for Alcohol Detection in Drivers" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.

8. D. Srikanth, Assistant Professor, published a paper titled "A Design of Modified Version of Three Stage Comparator with Improved Speed and Reduced Noise" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.
9. B. Nancharaiah, Professor & HOD, published a paper titled "Solving of Three Buffers Over Ever-Changing Communication Scenarios in Tactical Networks" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
- 10.P. Sarvanan Kumar, Assistant Professor, published a paper titled "Learning Distant Domain Transfer for Medical Imaging" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.
- 11.G. Suneetha, Assistant Professor, published a paper titled "Implementation of Gaussian Network Using a Hybrid Fault-Tolerant Routing in Wireless Sensor Network" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
- 12.M. V. Srikanth, Assistant Professor, published a paper titled "Optimum Weighted Medical Image Fusion Using Non Sub-Sampled Contourlet Transform (NSCT) for Brain Tumour Detection" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.
- 13.M. K. Kishore, Professor, published a paper titled "A Crossover RO PUF Based and Lightweight Cloud Deployment Authentication for Multi-Hop Body Area Network" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
- 14.Surendra Loya, Assistant Professor, published a paper titled "Design of Asynchronous SAR ADC of 10-bit with EA-based Bandgap Reference Voltage Generator Using Bootstrap Switch and Two Stage Dynamic Comparator" in the International Journal of Innovative Research in Technology (UGC recognised, indexed) in April 2023.
- 15.T. Sreedhar, Associate Professor, published a paper titled "Using Fine-Grained Firmware Fingerprinting, One May Assess the Security Risks Posed by Embedded Devices" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
- 16.K. Babu Rao, Associate Professor, published a paper titled "Software-Defined Networks Anomaly Detection Using FADE and iFADE Algorithms" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
- 17.K. Sandeep, Assistant Professor, published a paper titled "Implementation of an Embedded System for Stair Recognition Based on Possibilistic Modeling Using Ultrasonic Sensor" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.

- 18.A. Syam Kumar, Assistant Professor, published a paper titled "Providing Data Security for IoT Technology in Medical Field Using Cryptography" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
19. A. Naga Suman, Assistant Professor, published a paper titled "An Automated Light-Weight Encryption Method for Wireless Sensor Networks That Is Both Safe and Energy-Efficient" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
20. P. Suresh, Assistant Professor, published a paper titled "Transmitter Fingerprinting for VLC System Using Convolutional Neural Network-Based Deep Feature Separation" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
21. G. Rajesh Babu, Assistant Professor, published a paper titled "Utilising a Random Projection Approach to Enhance a Machine Learning Model for Breast Lesion Categorisation" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
22. K. Nitya, Assistant Professor, published a paper titled "Railway Track Fault Detection Using Batteryless Wireless Sensor Tag" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
- 23.M. Ravi, Assistant Professor, published a paper titled "Accurate Verification of Local & Dimensional Feature-Free Searching on Massive Picture Databases" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.
24. D. Siva Padmavathi, Assistant Professor, published a paper titled "YubiKey Microsoft Authentication for Node-RED" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
- 25.M. V. Srikanth, Assistant Professor, published a paper titled "Fuzzy Entropy Based Multilevel Image Thresholding Using Constriction Coefficient-Based Particle Swarm Optimization and Gravitational Search Algorithm for Multilevel Image" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.
- 26.K. Raja Kumari, Assistant Professor, published a paper titled "A 16nm CMOS Implementation of 8x8 Array of SRAM Utilizing Low Power 10T SRAM Cell with Expanded Static Noise Margins" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.
27. Ch. Santhi Rani, Professor, published a paper titled "Fast Modular Multiplication Using Normal and Multi-Precision Schemes for the Post-Quantum Cryptography" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.

28. Surendra Loya, Assistant Professor, published a paper titled "Design and Development of a Low Profile IoT Based Frequency Controlled Reconfigurable Antenna for Wireless Applications" in the International Journal of Innovative Research in Technology (UGC recognised, indexed) in April 2023.
29. K. Bhaskar, Assistant Professor, published a paper titled "An IoT-Based Water Quality Monitoring System with Multifunctional Sensor for Smart Agriculture" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
30. E. Rama Krishna Reddy, Assistant Professor, published a paper titled "An Extremely Low Power Persistent Non Overlapping Clock Flip Flop with Precharge Suppression Operation" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.
31. K. Babu Rao, Associate Professor, published a paper titled "Blockchain Logging of Healthcare IoT Data" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
32. M. Ravi, Assistant Professor, published a paper titled "A New Canny Edge Detection Based Algorithm Using DWT-SVD for MRI and X-Ray Images" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
33. B. Nancharaiah, Professor & HOD, published a paper titled "Opportunistic Routing Algorithm Using Reinforcement Learning for Underwater Acoustic Sensor Networks" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
34. P. Suresh, Assistant Professor, published a paper titled "A Battery-Less RFID Sensor Design for Smart Home IoT Applications" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
35. B. Nancharaiah, Professor & HOD, published a paper titled "Opportunistic Channel Selection Algorithm for Cognitive Radio Networks" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
36. G. Suneetha, Assistant Professor, published a paper titled "A Blockchain-Enabled Transfer Learning Framework for Secure Authentication in Industrial IoT Networks" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
37. D. S. Padmavathi, Assistant Professor, published a paper titled "Whale Optimization Algorithm-Driven Clustering for Improved Performance of IoT Wireless Networks" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.

38. K. Nitya, Assistant Professor, published a paper titled "Effective Utilization of Energy for Wireless Sensor Networks Based on Mixed Strategy Game Theory" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
39. P. Venkanna, Assistant Professor, published a paper titled "Structural Condition Monitoring System with NB-LTE by Using Accelerometer Sensors" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
40. T. Sreedhar, Assistant Professor, published a paper titled "Hybrid Dilation and Attention Residual U-Net: A Tool for Medical Image Segmentation" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
41. K. Bhaskar, Assistant Professor, published a paper titled "A Parking Management System Built on Raspberry Pi and IoT" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
42. K. Raja Kumari, Assistant Professor, published a paper titled "Optimal Energy Utilization and Efficient Time Management with QoS in WSN" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.
43. Ch. Santhi Rani, Professor, published a paper titled "Finger Vein Authentication for Smart Vehicles Using Machine Learning" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
44. M. K. Kishore, Assistant Professor, published a paper titled "Implementation and Assessment of a Smart Traffic Management System in Smart Cities Using Vehicular Cameras and Fog Devices to Detect Driving Violations" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
45. K. Sandeep, Assistant Professor, published a paper titled "2-D CVM-Based Feature Extraction for Accurate Classification of Glaucoma Stages from Fundus Images" in The International Journal of Analytical and Experimental Modal Analysis (UGC recognised, indexed) in April 2023.
46. G. Rajesh Babu, Assistant Professor, published a paper titled "Object Detection Algorithm Using YOLOv3-Pruning (Transfer) Based on Transfer Learning" in the Journal of Interdisciplinary Cycle Research (UGC recognised, indexed) in April 2023.
47. E. Ramakrishna Reddy, Assistant Professor, published a paper titled "A Folded Very Low Voltage Frequency Divider MOS Logic Mode Current with Addition N and P Type Flip Flops" in the Journal of Engineering Sciences (UGC recognised, indexed) in April 2023.

48. M. K. Kishore, Assistant Professor, and Dr. B. Nancharaiah, Professor, published a paper titled "Blockchain-Based Topographical Relay Selection Secure Routing (B-TRSSR) Technique for the Multi-Hop Communication in Wireless Mesh Networks (WMN)" in the Journal of Data Acquisition and Processing (ISSN: 1004-9037, Scopus indexed) in April 2023.
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52. G. Suneetha, Assistant Professor, K. Babu Rao, Assistant Professor, and Dr. B. Nancharaiah, Professor, published a paper titled "High-Throughput and Dynamic Power Aware Global Optical Flow Method Using Clock Gating and MRP" in the Journal of Data Acquisition and Processing (ISSN: 1004-9037, Scopus indexed) in April 2023.
53. Dr. B. Nancharaiah, Professor, Department of ECE, published a paper titled "Metamaterial Inspired Quad-Port Multi-Antenna System for Millimeter Wave 5G Applications" in the Journal of Infrared, Millimeter, and Terahertz Waves (SCI, International), June 2023.

## FDP/Seminars/Webinars/workshops/STTP Attended/ Conducted

## Workshops Conducted

Time	Activity
9:45AM	Lighting the Lamp & Prayer Song
9:50AM	Inviting the Guest on to the dais
9:55AM	Opening Remakes by Dr.B.Nancharaiah, Head of the Department, ECE, URCET.
10:00AM	Message by the Dr.G.V.K.S.V.Prasad, Principal, URCET
10:05AM	Address by Dr.K. Rajasekhar Rao, Director, URCET
10:25AM	Dr.B.Poornaiah Professor, ECE Department, LBRCE, Mylavaram.
10:30AM	Felicitation to the guest
10:35AM	Vote Of Thanks
10:40AM	National Anthem

**USHARAMA**  
COLLEGE OF ENGINEERING AND TECHNOLOGY

**AUTONOMOUS**  
IETE Student Forum & E-Cratz Student Association

**A seven-day national level hands-on workshop on FPGA implementation was conducted from 17th to 23rd February 2023.**

**Venue: Seminar Hall, ECE Department**

Name of the Faculty Coordinator  
**Mr.Venkanna Penumaka**

The 6-day FPGA workshop kicked off with an engaging Inauguration & Welcome Session, followed by a comprehensive introduction to FPGA architecture, digital design, and the design flow process, including design entry, simulation, synthesis, and implementation. On Day 2, participants dove into Verilog and VHDL programming, learning the syntax, semantics, and hands-on techniques for creating basic modules. Day 3 focused on combinational and sequential logic design, offering practical experience with ALUs, flip-flops, and state machines, while debugging and verification techniques were explored. The fourth day covered FPGA synthesis, implementation, and timing constraints, with hands-on sessions for synthesizing designs and analyzing reports. Day 5 introduced FPGA configuration and hardware testing, with participants programming FPGAs using JTAG and testing their designs on physical boards, while also working on mini-projects like traffic light controllers and digital clocks.



### Faculty Development Programmes Attended

1. Dr. Nancharaiah Battula, Professor, conducted a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023.
2. Dr. Santhi Rani Chava, Professor, conducted a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023.
3. Dr. V. S. Naresh, Professor, conducted a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023, and also led a five-day workshop on "Advanced Communication" at LBRC, Mylavaram from June 5 to June 9, 2023.
4. Dr. Savadam Balaji, Professor, conducted a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023, and also led a five-day workshop on "Advanced Communication System" at LBRC, Mylavaram from June 5 to June 9, 2023.
5. Dr. Suneel Kumar Asileti, Associate Professor, attended a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023, and also led a five-day workshop on "Advanced Communication System" at LBRC, Mylavaram from June 5 to June 9, 2023.
6. Dr. Baburao Kodavati, Professor, attended a five-day workshop on "Advanced Communication System" at LBRC, Mylavaram from June 5 to June 9, 2023.
7. Dr. Krishnamoorthy Sooraj, Professor, attended a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023.
8. Dr. Jeya Kumar, Professor, attended a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023.

9. Dr. Samiappan Sivalingam, Professor, attended a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023.
10. Dr. Venkata Srikanth Mocherla Professor, Dr. E. Naga Venkata Purna Chandra Rao Professor, Dr. Swami Natha Professor, Tirupatamma Sonti Assistant Professor, Ponnaiah Saravana Kumar Assistant Professor, Shajahan Patan Assistant Professor, SaiNadh Kumar Boddupalli Assistant Professor, attended a five-day workshop on "MIMO Antennas for 5G Communications" at KHIT Guntur from June 26 to June 30, 2023.

### Students Participation in Inter College Competitions

Student	Name of the Event	Name of the Organization	Date of the Event	Prize
Anumula Narasimha Rao	Seminar	NRI Institute of Technology	13 June 2023	First Place
Chalapaka Devesh Kumar	Paper Presentation	NRI Institute of Technology	13 June 2023	First Place
Bantu Amani Srilatha	Poster Presentation	Andhra Loyola Institute of Technology	13 June 2023	First Place
Koka Dharanija	Poster Presentation	NRI Institute of Technology	13 June 2023	Second Place
Munagala Abhishek	Project Expo	NRI Institute of Technology	13 June 2023	First Place

**Editorial Members**

**Chief Editors**

**Dr K. Babu Rao ,Professor.**

**Mr.E.Rama krishna Reddy , Asst. Professor.**

**Associate Editors**

**S.Vamsi- II ECE.**

**Arumalla Akhila- II ECE.**

**Derangula Raviteja III ECE.**

**Ella Deepika- III ECE.**

**Mekala Priyanka-IV-ECE.**

**Sunkara Tanuja - IV-ECE.**

