

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
ACCREDITED BY NAAC A+



THE

ECE

THE ECHOS

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VISION/MISSION

VISION

To remain a symbol of pride in the fields of Electronics and Communication Engineering by producing holistic and diligent Engineers for industrial and societal needs.

MISSION

M1: To produce high quality learners who are globally competitive and challenged in the field of Electronics and Communication Engineering.

M2: To offer educational programmes that imparts inventive knowledge with high levels of ethical and human values.

M3: To provide a platform to acquire and implement innovative ideas in research and development.

M4: To build up the state of art laboratories and centers of excellence in different areas of Electronics and Communication Engineering.

M5: To train the students and faculty to update their knowledge in pioneering technologies to meet industrial requirement.





DEPARTMENT ACTIVITIES



VANDE MATARAM CELEBRATION COMMEMORATING 150 YEARS OF NATIONAL PRIDE. 7-11-2025

The Department of Electronics and Communication Engineering, University College of Engineering, Kakinada (JNTUK), organized the “Vande Mataram” celebration on 7th November 2025 at 10:00 AM in the Gallery Hall to commemorate the 150-year legacy of the national song “Vande Mataram.” The event was conducted with great enthusiasm and patriotic fervor, bringing together faculty members, students, and staff of the department.



The program featured the collective rendition of “Vande Mataram,” symbolizing unity, pride, and respect for the nation. Participants also reflected on the historical importance and cultural significance of the song, remembering its role in inspiring the freedom movement. The celebration served as a meaningful reminder of the values of patriotism, national unity, and dedication to the country.

ISO VISIT TO DEPARTMENT OF ECE A Milestone Event

17-12-2025

The Department of ECE hosted an ISO inspection on 17th December 2025 in offline mode. The team reviewed academic activities, labs, and documentation. Faculty and students actively presented their work. The visit was successful and highlighted the department’s commitment to quality and continuous improvement.





DEPARTMENT ACTIVITIES



PROJECT REVIEWS 08-10-2025 TO 09-10-2025

Mini project review sessions for M.Tech (1st Year) students were conducted regularly to track progress and ensure timely completion. Students presented their project ideas, design methodology, and implementation details, while faculty members provided constructive feedback and guidance to improve understanding, presentation, and overall project quality.



B.Tech Reviews 18-10-2025

B.Tech 3rd Year I Semester CSP project reviews were conducted in the e-classroom on 18th October 2025. Students presented their objectives, design, and progress, while faculty provided valuable feedback to enhance project quality and ensure timely completion.





DEPARTMENT ACTIVITIES



M.TECH FINAL YEAR PROJECT REVIEWS : 09-10-2025

The Department of Electronics and Communication Engineering, University College Engineering, Kakinada (JNTUK), conducted the M.Tech Final Year Project Reviews in online mode successfully. Students presented their project work, highlighting objectives, methodology and outcomes before the evaluation panel. The sessions enabled effective interaction, technical assessment, and valuable feedback from faculty members, ensuring quality and timely completion of the projects.



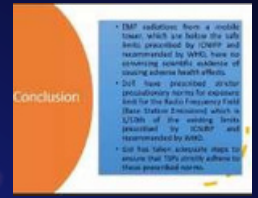
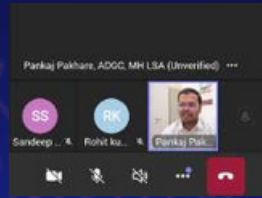
The online review sessions provided a flexible and efficient platform for students and faculty to engage seamlessly. The evaluation panel offered constructive suggestions to enhance the quality and presentation of the projects. These reviews played a vital role in strengthening students' confidence and readiness for final submission and future research endeavors.





19-11-2025

The Sanchar Mitra online awareness program was conducted on 19th November with Pankaj Pakhare as the keynote speaker. As ADGC, MH LSA, he delivered an engaging and informative session highlighting the importance of digital communication and the growing need for cyber safety in today's world. He explained various telecom services, government initiatives, and the role of Sanchar Mitra in spreading awareness among the public.



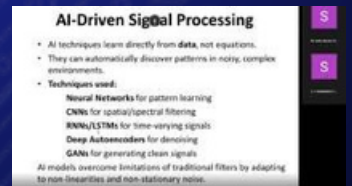
The session also focused on responsible mobile usage, prevention of online frauds, and protection of personal data. Real-life examples were shared to help students understand common cyber threats and how to avoid them. Dr. B. Leela Kumari, Associate Professor and Head of the Department of ECE, University College of Engineering (A), JNTUK, served as a Nodal officer and few of our students are part of this program. The interactive session encouraged students to ask questions and actively participate, making it both informative and practical. Overall, the event enhanced digital awareness and empowered students with essential knowledge for safe communication practices.

FACULTY ACHIEVEMENTS

EXPERT SESSION ON AI-DRIVEN SIGNAL PROCESSING TECHNIQUES

01-12-2025

Dr. B. Leela Kumari, Associate Professor and Head of the Department of ECE, University College of Engineering (A), JNTUK, served as a Resource Person for a Faculty Development Programme held at Vijaya College of Engineering, Vijayawada, on 1st December 2025. She delivered an expert lecture on "Optimal Filtering Techniques for Communication Applications & AI-Driven Signal Processing Techniques."



During the session, she explained advanced filtering methods used in communication systems along with the role of Artificial Intelligence in modern signal processing. The lecture highlighted key areas such as machine learning-based signal analysis, deep learning for pattern recognition, and intelligent filtering techniques for noise reduction and signal enhancement. Real-time applications in wireless communication, biomedical signals, and audio processing were also discussed.



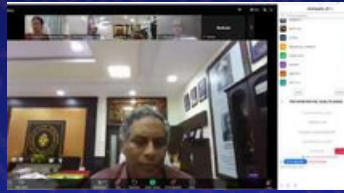
FACULTY DEVELOPMENT PROGRAMMES



FDP ON QUALITY ASSURANCE AND INSTITUTIONAL REPUTATION

01-12-2025 TO 10-12-2025

Dr. B. Leela Kumari served as Coordinator for the two-week online Faculty Development Programme on “Quality Assurance and Institutional Reputation: A Focus on Accreditation and Ranking,” organized by Jawaharlal Nehru Technological University Kakinada from 1st to 10th December 2025. The programme focused on accreditation processes, ranking frameworks, and quality enhancement in higher education.



The FDP witnessed active participation from faculty members including Dr. N. Mohana Rao, Prof. K. Ravindra, Prof. R. Srinivasa Rao, Prof. P. Subba Rao, along with several academicians and research scholars. The sessions provided valuable insights into institutional development, quality standards, and best academic practices, contributing to overall academic excellence. Smt.T.V.ramani acted as a co-Coordinator.



The programme also emphasized the importance of continuous improvement through internal quality assurance mechanisms, outcome-based education, and effective documentation practices. Participants engaged in interactive discussions, case studies, and experience sharing sessions, which helped in understanding real-time challenges faced by institutions during accreditation and ranking processes. Around 350 faculty members from various affiliated colleges participated in the programme, making it a highly interactive and successful event.



WORKSHOP ON TRANSFORMING THE FUTURE OF RESEARCH COLLABORATION OF IEEE-EBSCO WITH JNTUK

19-11-2025

On 19th November As part of the Oak Jubilee celebrations, Jawaharlal Nehru Technological University Kakinada (JNTUK) organized a one-day workshop titled “Transforming the Future of Research” in collaboration with IEEE and EBSCO. The program aimed to strengthen the research ecosystem by introducing global research tools, open-science resources, and advanced digital learning platforms to faculty members and students.



Distinguished experts from IEEE and EBSCO delivered informative sessions on authorship support, advanced publishing tools, and best practices in research and scholarly communication. Faculty members, research scholars, and students actively participated and gained valuable insights through the interactive sessions and demonstrations.



The event was organized under the guidance of the University administration and was successfully coordinated by Dr. B. Leela Kumari, whose efforts ensured smooth conduct and active engagement throughout the workshop. Around 100 faculty members participated in the programme and benefited from the technical sessions and interactive



WORKSHOP ON INTERNET OF THINGS (IOT)

11-10-2025 TO 13-10-2025

The Department of Electronics and Communication Engineering, University College of Engineering, Kakinada, Jawaharlal Nehru Technological University (JNTUK), successfully organized a three-day workshop on “Internet of Things (IoT)” from 11th October 2025 to 13th October 2025 in the Gallery Hall.



The workshop was conducted in collaboration with Vishishta Innovators Private Limited, aiming to provide participants with practical knowledge and insights into IoT technologies, real-time applications, and industry trends. The program was graced by Mr. Sadu Sai Sandeep, Managing Director, Vishishta Innovators Pvt. Ltd. The event was organized under the guidance of Dr. B. Leela Kumari, Convener and Head of the ECE Department, and coordinated by Mrs. P. Pushpalatha, Assistant Professor, ECE.



During the workshop, participants gained hands-on experience in IoT system design, sensor integration, embedded systems, and smart applications. The sessions focused on bridging the gap between theoretical knowledge and practical implementation, enhancing students' technical skills and industry readiness. Around 100 students participated actively in the workshop along with faculty members, making it a highly informative and successful event.



GUEST LECTURE

QUANTUM TECHNOLOGY LECTURE & IEEE CHAPTERS

30-12-2025

The Department of Electronics and Communication Engineering, University College of Engineering, Kakinada (JNTUK), organized a motivational lecture on Quantum Technology in collaboration with IEEE Chapters in December 2025.



The session was delivered by Prof. T. Srinivas from Indian Institute of Science Bangalore, who provided valuable insights into emerging trends, research opportunities, and real-world applications of quantum technologies. Around 60 students attended the session and actively participated in the interaction. The lecture inspired students and faculty, encouraging them to explore advanced research domains and actively participate in IEEE activities.



The lecture, an interactive session was conducted where Prof. T. Srinivas engaged with students and faculty members, addressing their queries and sharing expert guidance on research directions, higher education opportunities, and career prospects in the field of quantum technologies. The discussion fostered enthusiasm and clarity among participants, making the session more impactful and insightful.



CONFERENCES

- *Dr. B.T.Krishna* presented his research titled “ Noise Cancellation in Speech Signal Using Least Mean Square Algorithms” at An International Conference on Green Energy, Computing and Intelligent Technology (Gen-CITy 2025) held on December 2025.
- *Dr. B.T.Krishna* presented his research titled “ Robust Image Denoising Using Deep Convolutional Autoencoders” at An International Conference on Green Energy, Computing and Intelligent Technology (Gen-CITy 2025) held on December 2025.
- *Dr. K. Rajasekhar* presented his research work titled “Performance Improvement of full Swing Adder Using CNTFET” at ICCDC held on 6th & 7th November 2025.
- *Dr . P.Pushpa Latha* presented her research work titled “ Design of dual band U-shaped MIMO Antenna” at IEEE held on october 2025.

JOURNALS

- *Dr. A.M.Prasad* presented A stable adaptive harmonic scheduling: a precision RTOS framework for 2nd-order medical control systems at International Journal of Information Technology held on december 2025.
- *Dr. B.T.Krishna* presented The development of Novel fractional order differentiators and their applications at Journal of Results Control and Optimization held on november 2025.
- *Dr. B.T.Krishna* presented Novel fractional order sinusoidal oscillators using operational trans resistance amplifiers at Journal of TELEKOMNIKA Telecommunication, Computing, Electronics and Control held on December 2025.
- *Dr. K.Padma Priya* presented Advancements in voice analysis for disease detection at Journal of xidian university held on October 2025.
- *Dr. U.V. Ratna Kumari* presented Multi band omni directional fractal Bow Tie antenna for IOT Applications at Journal of Nano and Electronic Physics held on 2025.





PROFESSIONAL DEVELOPMENT

EVENTS ORGANIZED

- **Dr. B.Leela Kumari** acts as a Convener for Three Day workshop on Internet of Things Organized by Dept. of ECE,UCEK, JNTUK, Kakinada in Association with IEEE Student Branch and Visishta Innovators Pvt.Ltd held on 11th to 13th October 2025.
- **Dr. B.Leela Kumari** organized of conducting Swachhta Day every month 3rd Saturday at Department of ECE .
- **Dr B. Leela Kumari**, Dr. K.Padma Priya acted as a Coordinator for Transforming the future of research with IEEE-EBSCO knowledge feast in association with UCEK,JNTUK on 19th November 2025.
- **Dr. B.Leela Kumari** acted as a Coordinator for Transforming the future of research with IEEE-EBSCO knowledge feast in association with PVPSIT on 20th November 2025.
- **Dr. B.Leela Kumari** conducted 150 Years Vande mataram at Department of ECE, UCEK, JNTUK on 7th November 2025.
- **Dr. B.Leela Kumari** conducted Constitution Day at Department of ECE, UCEK, JNTUK on 29th November 2025.
- **Dr. B.Leela Kumari** acted as Coordinator in Two Week online FDP on Quality Assurance And Institutional Reputation A Focus on Accreditation And Ranking Organized by department of ECE & Sponsored by JNTUK from 1st to 10th December 2025.
- **Dr. B.Leela Kumari** acted as Resource Person for FDP on the topic AI Driven Signal Processing Techniques at Vijaya College of Engineering Vijayawada on 1st december 2025.
- **Dr. B.T.Krishna** acted as resource person for 5-days online FDP on Quantum Machine Learning for Next- Generation Communication System Organized by MVGR College of Engineering from 24th to 28th november 2025.
- **Dr. P.Pushpa Latha** acts as a Coordinator for Three Day workshop on Internet of Things Organized by Dept. of ECE,UCEK, JNTUK, Kakinada in Association with IEEE Student Branch and Visishta Innovators Pvt.Ltd held on 11th to 13th October 2025.



- *Sri.K.HariKrishna* acts as a Co-Coordinator for Three Day workshop on Internet of Things Organized by Dept. of ECE,UCEK, JNTUK, Kakinada in Association with IEEE Student Branch and Visishta Innovators Pvt.Ltd held on 11th to 13th October 2025.
- *Smt.T.V.Ramani* acted as Co-Coordinator in Two Week online FDP on Quality Assurance And Institutional Reputation A Focus on Accreditation And Ranking Organized by department of ECE & Sponsored by JNTUK from 1st to 10th December 2025.



WORKSHOPS/FDPs ATTENDED

- *Dr. B.Leela Kumari, Dr. M.Sailaja, Dr. N.Balaji, Dr. K.Padma Priya, Dr.K.RamaDevi, Dr. P.Pushpa Latha, Dr. K. Jhansi Rani, Smt.A.Rajani* participated FDP on Govt officers training- basic on IOT Conducted by NIELIT Chennai in association with UCEK, JNTUK as a part of future skills prime project from 3rd to 7th November 2025.
- *Dr. B.Leela Kumari, Dr. M.Sailaja, Dr. A.M.Prasad,Dr. K.Padma Priya,Dr.U.V.RatnaKumari,Dr.P.VinayKumar,Dr.K.RamaDevi,Dr.R.M adhu,Smt.A.Rajani,Sri.K.HariKrishna,Dr.Y.Gowthami,Smt.A.D.Bhavan i,Smt.Ch.KrishnaVeni,Smt.B.Prasanthi,Smt.T.V.Ramani* participated Transforming the future of research with IEEE-EBSCO knowledge feast in association with UCEK,JNTUK on 19th November 2025.
- *Dr. B.Leela Kumari, Dr. M.Sailaja, Dr. A.M.Prasad, Dr. N.Balaji, K.Padma Priya, Dr. U.V. RatnaKumari, Dr.K.RamaDevi, Dr. K. Rajasekhar, Dr.R.Madhu, Dr. P.Pushpa Latha, Dr. K. Jhansi Rani, Smt.A.Rajani, Sri. S.Nagarjuna, Smt.T.V.Ramani* participated in Two Week online FDP on Quality Assurance And Institutional Reputation A Focus on Accreditation And Ranking Organized by department of ECE & sponsored by JNTUK 1st to 10th December 2025.



- *Dr. U.V. RatnaKumari, Dr.K.RamaDevi, Smt.A.Rajani* attended FDP on Govt officers training- basic on IOT Conducted by NIELIT Chennai in association with UCEK,JNTUK as a part of future skills prime project from 27th to 31st October 2025.
- *Smt.A.Rajani* participated 5 day National level FDP on Integrating indian knowledge systems in education and sustainable sciences Organized by IQAC,SKR&SKR Govt college for women(A),Kadappa,collaboration with ACT Academy,Tamilnadu unit from 13th to 17th october 2025.
- *Sri.K.HariKrishna,Smt.A.D.Bhavani,Smt.Ch.KrishnaVeni,Smt.T.V.Ramani* attended FDP on QT-02 Foundations of Quantum Technologies conducted by EICT Academy, MNIT Jaipur and APSCHE from September 19th to October 16th 2025.
- *Sri.S.Naagarjuna, Smt.T.V.Ramani* has completed NPTEL Course VLSI Design Flow: RTL to GDS founded by the MoE, Govt of India on 19th November 2025.

Ph.D Awardees

- *Ajitha G*, bearing RollNo:15022Po431,pursued her Ph.D. with the title “Analyzing the Performance of Distributive Video Coding Using Wavelet Transform” on 03.11.2025 under the guidance of Dr. I Santhi Prabha.
- *Anil Kumar Bandani*, bearing Roll No: 10022Po444, pursued his Ph.D. with the title “An Optimal Power Constraint Routing Scheme for Mobile Ad Hoc Networks” on 30.12.2025 under the guidance of Dr. M.V Subramanyam and Dr. K Satya Prasad.
- *Satyavati Jaga*, bearing Roll No: 18022Po423, pursued her Ph.D. with the title “Development of Robust Methods for Detection and Classification of Brain Tumors” on 31.12.2025 under the guidance of Dr. K Rama Devi.





COMMUNITY ENGAGEMENT



18-10-2025, 15-11-2025 & 20-12-2025

On 18th October 2025, a Cleanliness Drive and Tree Plantation activity was organized in the Department of Electronics and Communication Engineering, UCEK, JNTUK, under the guidance of Dr. B. Leela Kumari, Head of the Department. B.Tech and M.Tech students actively participated along with faculty and non-teaching staff in cleaning and plantation activities.



A rally was also conducted to create awareness about air pollution and environmental protection. Students actively participated by carrying placards with meaningful slogans, raising their voices to highlight the importance of reducing pollution and protecting natural resources. The rally passed through nearby areas, drawing the attention of the public and encouraging them to adopt eco-friendly practices in their daily lives.



The program emphasized the importance of cleanliness, proper waste management, and the need to reduce the use of plastics. It also inspired students to take individual responsibility for maintaining a healthy environment. Through this initiative, a strong message of environmental awareness and community participation was spread, motivating everyone to work together towards a greener and more sustainable future.



As part of the Swarnandhra Swachhandhra Program organized on 15th Nov 2025, a cleanliness drive was conducted in the Department of Electronics and Communication Engineering. The event was carried out under the guidance and supervision of Dr. B. Leela Kumari, Head of the Department.

Students from B.Tech and M.Tech actively participated in the program and enthusiastically engaged in various cleaning activities. Along with them, the faculty members and non-teaching staff of the ECE Department also joined hands in the drive, contributing significantly to its success. Their collective efforts created a clean, disciplined, and inspiring atmosphere within the department.

Later, refreshments were arranged for the students who took part in the drive. The program not only enhanced the cleanliness of the campus but also spread awareness about the importance of hygiene, responsibility, and collective participation among students, faculty, and staff.



On 20th December 2025, as part of the Swarnandhra Swachhandhra program, the ECE Department conducted a cleanliness drive under the guidance of Dr. B. Leela Kumari, HOD. B.Tech and M.Tech students, along with faculty and staff, actively participated, creating a clean and inspiring environment within the department.





INDUSTRIAL VISIT



08-11-2025

The II B.Tech (ECE) students of the Department of Electronics and Communication Engineering, University College of Engineering, Kakinada (Autonomous), visited Reliance Industries Ltd. (RIL), Kakinada on 08.11.2025 as part of their industrial exposure program. The visit was coordinated by Dr. B. Leela Kumari, Associate Professor & Head, ECE, with the support of Dr. Venugopala Raju garu.



Students observed real-time monitoring and automation systems in the Control and Operations Rooms and gained knowledge about industrial process control and instrumentation in the Prototype and Demonstration Room, explained by Er. Kumar, Manager. The visit provided valuable practical exposure to industrial automation and communication systems. Dr. B. Leela Kumari and Smt. T. V. Ramani accompanied the students during the industrial visit.



STUDENT ACHIEVEMENTS

PLACEMENT HIGHLIGHTS

*FIVE OF OUR STUDENTS HAVE BEEN SELECTED BY
INFOSYS WITH 3.6LPA.*



S.Durga Nageswari



V.Reshma



S.Lalitha Sri Vanditha



D.Joshna



K Naga Sruthi Suvarsha

*FOUR OF OUR STUDENTS HAVE BEEN SELECTED BY VEM
TECHNOLOGIES WITH 4LPA*



V.Reshma



K Siri Vennala A



**Lakshmi Narasimha
Raja**



G Satya Satwik



ECE MAGAZINE LEGACY



OUR TEAM

EDITOR IN CHIEF



DR. LEELA KUMARI BALIVADA
HEAD OF THE DEPARTMENT

STUDENT EDITORS



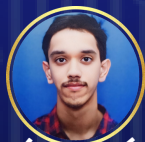
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RAMANI
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YASWANTH
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KISHORE
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HEMANTH
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