



GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY

(AUTONOMOUS)

Accredited by NAAC with 'A' Grade, Accredited by NBA (B.Tech., -ECE, EEE & Mech : 2024-2027

(Approved by AICTE & and UGC, New Delhi & Affiliated to JNTUA, Anantapur.)

3rd Mile, Nellore - Bombay Highway, Gangavaram (V), Kovur (M), S.P.S.R. Nellore Dt, Andhra Pradesh - India. 524 137

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Department of Electronics and Communication Engineering

Report on "Techno Crosswords"

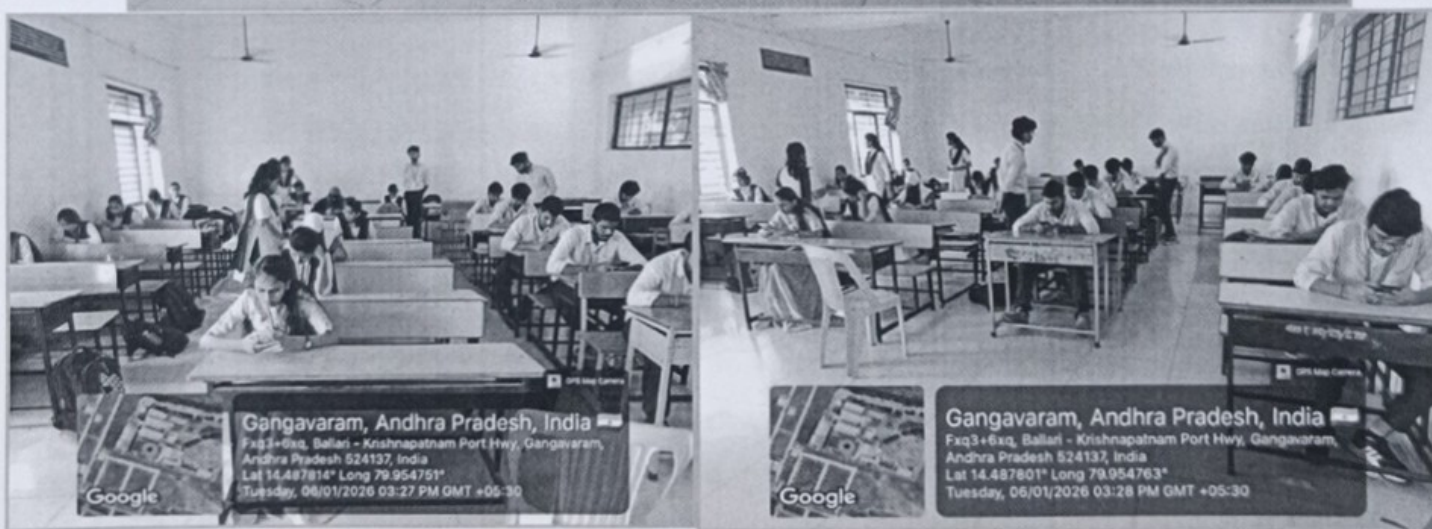
The department of Electronics and Communication Engineering under "Vision of Electronics" (Students Association) organized a "Techno Crosswords" competition for II ECE students on 06-01-2026 as a part of its continuous efforts to promote innovative and activity-based learning among students. The primary objective of this event was to enhance student's technical knowledge in an interactive and engaging manner. The event was designed to strengthen core understanding of electronics and communication concepts while promoting analytical thinking, teamwork, and quick recall of technical terminology. Students from various semesters enthusiastically participated, reflecting their interest in knowledge-based competitive activities.

The crossword puzzles were carefully prepared with clues related to fundamental electronics and communication engineering topics such as electronic devices and circuits, digital circuit design, communication systems and digital electronics. Each participant is required to solve the crossword within a stipulated time, ensuring both accuracy and speed. Clear rules and instructions were explained before the commencement of the competition, which ensured smooth conduct throughout the session.



Students actively participating in round 1

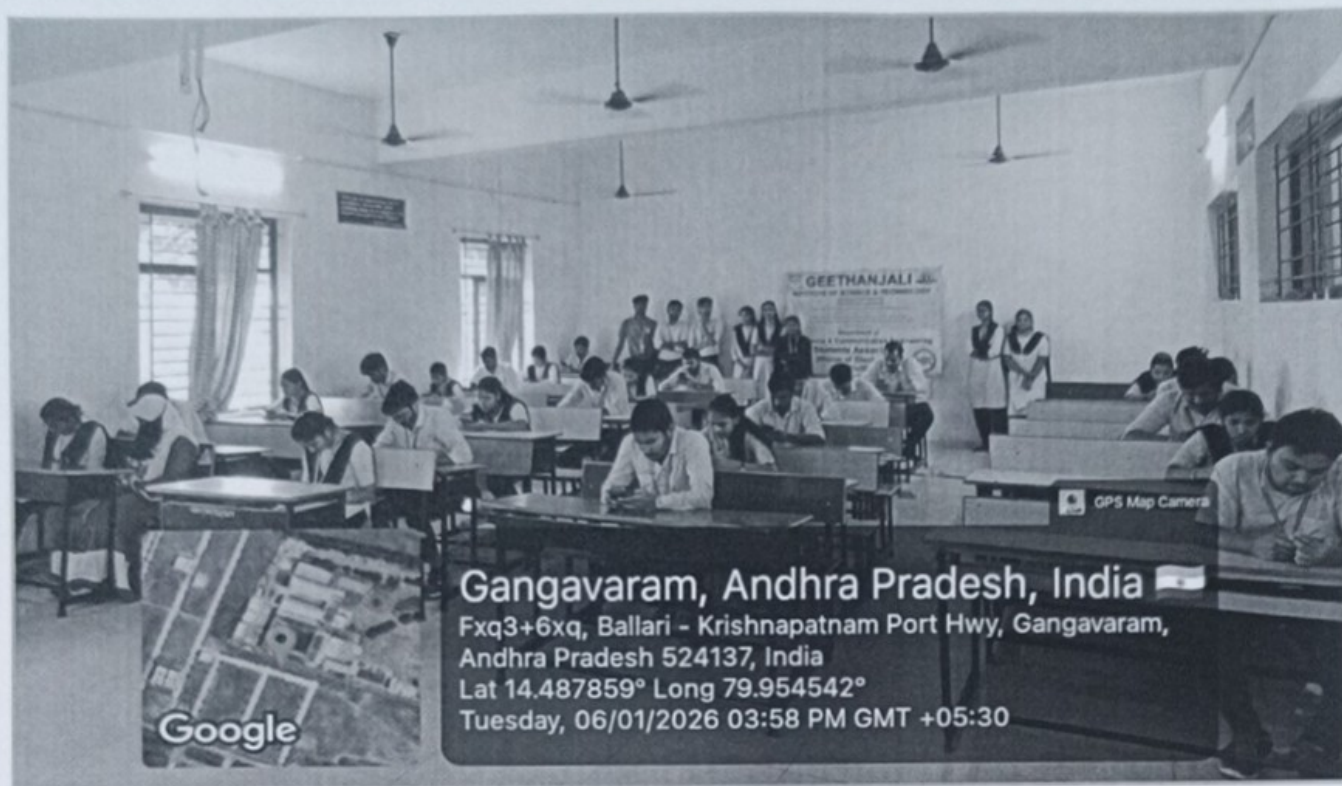
The competitive environment encouraged students to collaborate and apply their subject knowledge effectively. Faculty coordinators closely monitored the activity and provided motivation and support to the participants. The event not only tested student's subject proficiency but also helped in improving their problem-solving skills and confidence in handling technical terms under time constraints.



Students actively participating in round 1

In addition to its academic value, the techno crosswords event served as an effective platform to bridge the gap between theoretical knowledge and practical understanding. By engaging with subject-based clues, students were encouraged to recall classroom concepts and apply them in a creative and time-bound format. The activity promoted peer learning by strengthening their conceptual clarity. Such interactive learning methods helped reduce exam-related stress and made technical subjects more approachable and enjoyable.

A Total of 49 students from II ECE participated in this event. The event was organized in two rounds. Round 1 has two sessions consisting of 5 crosswords in each session and has given a time limit of 15 minutes. At the end of round 1, 23 participants were shortlisted for round 2. Round 2 has two sessions consisting of 5 crosswords in each session and has given a time limit of 15 minutes.



Shortlisted Students participating in round 2

The event also contributed to the overall personality development of the participants. Students demonstrated leadership, communication, and decision-making skills while working collaboratively under competitive conditions.

Overall, the Techno Crosswords event proved to be an enriching academic activity that combined learning with fun. It created a lively atmosphere within the department and promoted healthy competition among students. The positive feedback received from participants highlighted the effectiveness of such innovative learning approaches. The event concluded successfully, achieving its intended objectives and motivating students to actively participate in similar technical and co-curricular activities in the future.

PRIZE DISTRIBUTION

MIR HAMED ALI of II ECE – C secured first prize and K. Jahnvi of II ECE – A secured second prize.



First prize distribution



Second prize distribution

[Handwritten Signature]
ECE HOD

Head of the Department
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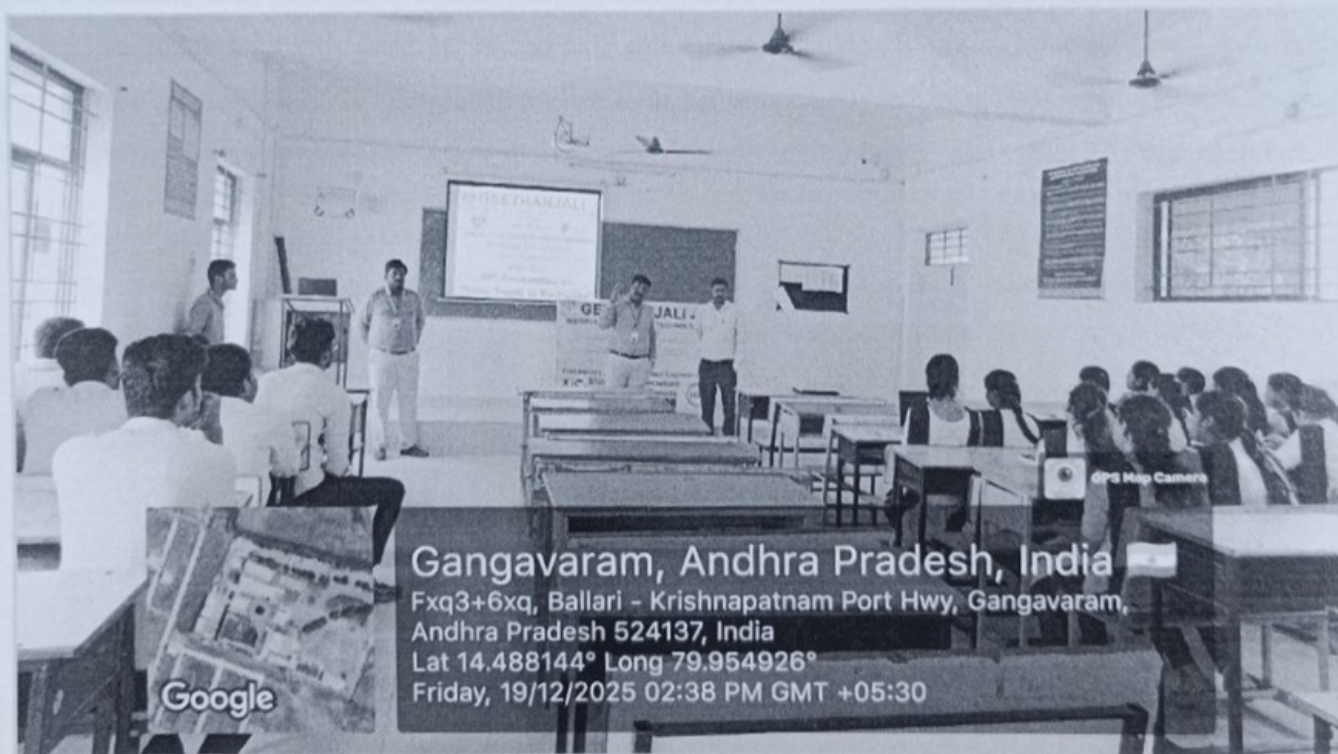


Department of Electronics and Communication Engineering

Report on "PPT Presentation" on "Latest Trends in Electronics"

The department of Electronics and Communication Engineering under "Vision of Electronics" (Students Association) organized a "PPT Presentation" on "Latest Trends in Electronics" competition for III ECE students on 19-12-2025. The main objective of this event was to create awareness among students about the latest advancements and emerging technologies in the field of electronics and also provide a platform for students to explore and share contemporary developments shaping the field of electronics, while also enhancing their presentation and research skills.

The program began with a brief introduction by the Head of the Department, who emphasized the importance of staying updated with current technological advancements in an ever-evolving industry. Emphasis was placed on how traditional electronics has transformed into intelligent and connected systems due to advancements in computing power, communication technologies, and miniaturization of components.



Dr. U. Penchalaiah, HOD ECE addressing the participants

Dr. U. Penchalaiah, HOD ECE explained that understanding these trends is essential for students to align their academic learning with industry expectations and future career opportunities. The session

created an encouraging atmosphere where students showcased their individual research, highlighting how emerging technologies are transforming electronic systems and applications.

A diverse range of topics was covered in the presentations, reflecting the breadth of innovation in modern electronics.

The various topics covered in the presentation are:

- Impact of AI on Jobs and Industries
- Children Safety Monitoring System
- Quantum Technology
- Brain Computer Interface
- Embedded Linux in Consumer Electronics
- 6G Technology
- Nano Electronics
- Smart Communication
- Matrix LED
- Medical Supply Delivery Drone

One group of students spoke about Impact of AI on Jobs and Industries. Artificial Intelligence (AI) is significantly transforming jobs and industries by automating routine tasks, improving efficiency, and enabling data-driven decision-making. In many sectors, AI-powered systems are handling repetitive and time-consuming activities such as data entry, quality inspection, and customer support, allowing human workers to focus on more creative, analytical, and strategic roles. While automation may reduce the demand for certain low-skill or repetitive jobs, it is simultaneously creating new opportunities in areas such as AI development, data science, cyber security, system maintenance, and ethical AI management.

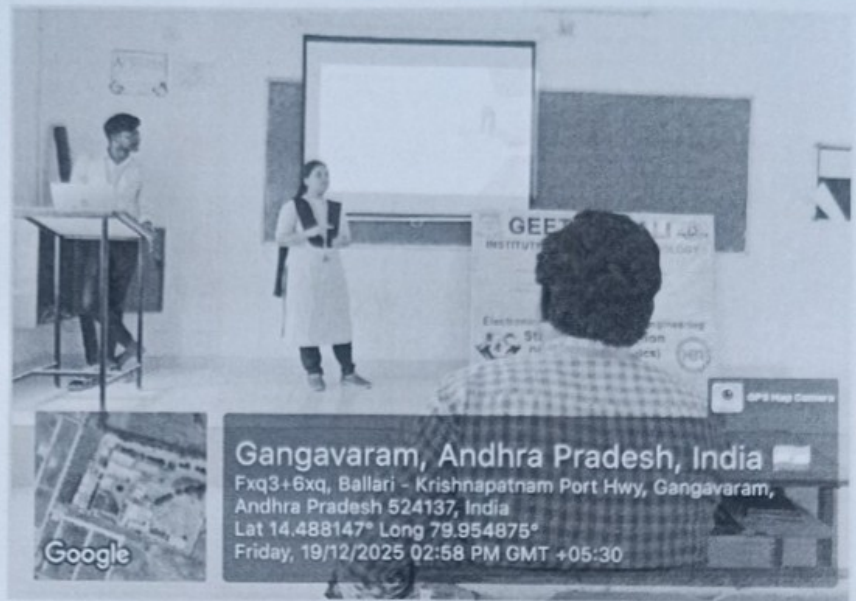


Students explaining about Impact of AI on Jobs and Industries

One student explained about child safety monitoring system, which is a technology-based solution designed to ensure the safety, security, and well-being of children by continuously monitoring their location, activities, and surrounding environment.

These systems typically use a combination of sensors, GPS modules, communication technologies, and embedded controllers to track a child's movements in real time.

In case of emergencies or unusual situations, the system can automatically send alerts to parents or guardians through mobile applications, SMS, or internet-based platforms, enabling quick response and preventive action.



Explaining about child safety monitoring system

Modern child safety monitoring systems often integrate IoT, GPS, GSM, and wearable devices such as smart bands or badges.

Another Student explained about Embedded Linux that plays a crucial role in modern consumer electronics by providing a flexible, reliable, and open-source operating system for embedded devices. It is widely used in products such as smart TVs, set-top boxes, smartphones, home routers, smart speakers, wearable devices, and home automation systems.

Embedded Linux offers a modular architecture, allowing developers to customize the kernel, drivers, and applications according to specific hardware and performance requirements, making it highly suitable for resource-constrained consumer devices. One of the major advantages of Embedded Linux in consumer electronics is its strong support for multitasking, networking, and multimedia applications.



Explaining about Embedded Linux in consumer electronics



III ECE students participating in PPT presentation

Another batch of students explained about nano electronics. Nanoelectronics is a specialized branch of electronics that focuses on the design and application of electronic devices and systems at the nanometer scale, typically below 100 nanometers. It represents the evolution of conventional electronics, where components such as transistors, diodes, and interconnects are miniaturized to achieve higher speed, lower power consumption, and greater device density.



Explaining about nano electronics

In nanoelectronics, advanced materials such as carbon nanotubes, graphene, quantum dots, and nanowires are widely used to overcome the limitations of traditional silicon-based devices. These materials offer improved conductivity, faster electron transport, and reduced heat generation. Applications of nanoelectronics include ultra-fast processors, high-density memory devices, nanosensors, flexible electronics, and advanced communication systems.

The program also included a question-answer session after each presentation, where students and faculty engaged in meaningful discussions, further enriching the learning experience. Participants demonstrated commendable confidence, effectively addressing queries and sharing deeper insights into their selected topics.

PRIZE DISTRIBUTION

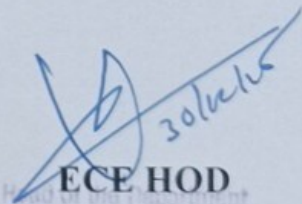


First prize distribution



Second prize distribution

The session concluded with positive feedback from faculty members, who appreciated the research efforts and clarity of communication displayed by the students. Overall, the student-driven PPT presentations not only offered a comprehensive overview of the latest trends in electronics but also fostered an environment of collaboration and intellectual curiosity. The Department of ECE applauds the students for their hard work and plans to organize similar activities in the future to encourage continued exploration of advanced electronic technologies.


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Department of Electronics and Communication Engineering

Report on Technical Quiz

The department of Electronics and Communication Engineering under “**Vision of Electronics**” (Students Association) organized a “**Technical Quiz**” competition for III ECE students on 08-10-2025. The main objective of this event was to enhance the technical knowledge, logical thinking, and problem-solving abilities of the students in the field of Electronics and Communication Engineering.

The quiz was conducted in two rounds, including preliminary and final rounds. Questions were based on various core subjects such as Digital Circuit Design, Signals, Systems and Stochastic Processes, Electronic Devices and Circuits, Analog and Digital Communications, Microprocessors & Microcontrollers and recent trends in technology. The event saw enthusiastic participation, showcasing their technical expertise and competitive spirit. A total of 44 students participated in this event.

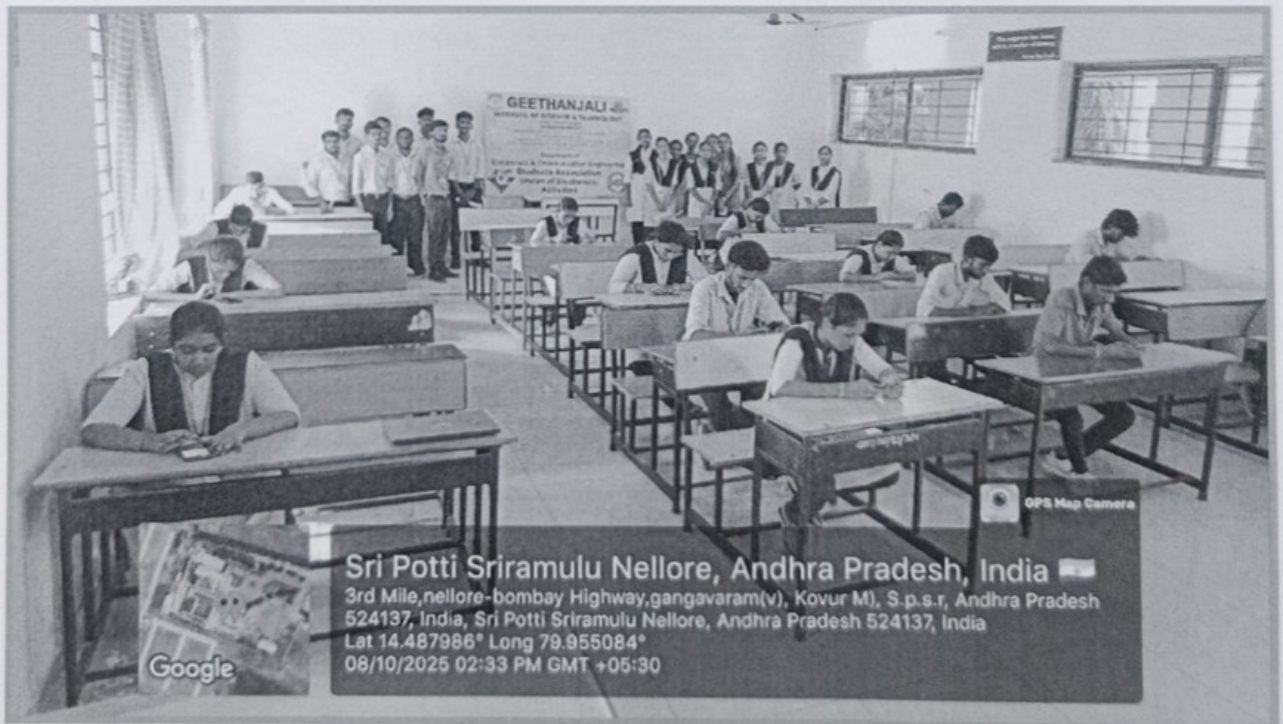


Students Actively Participating in Technical Quiz – Round - I

The quiz served as a platform for students to apply theoretical concepts to practical scenarios and to stay updated with the latest technological advancements in electronics, communication systems, VLSI, and embedded technologies. It also intended to build students' confidence, improve their communication skills, and motivate them to participate actively in technical events that contribute to their academic and professional growth.



Students actively participating in Technical Quiz – Round – I



Shortlisted students participating in final round

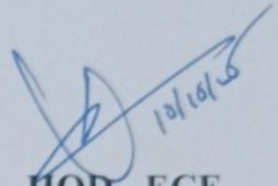
Students appreciated the quiz format and expressed that it was an enjoyable learning experience. They mentioned that it motivated them to revise key concepts and explore topics beyond their syllabus. Faculty members praised the initiative and encouraged students to take part in similar events to strengthen their knowledge base..

After the completion of final round, Batturi Vinod bearing roll number 242U5A0404 of III ECE - C got first prize and Y. Manogna bearing roll number 232U1A04I6 of III ECE - C got second prize and prizes were distributed to both the winners.



Prize distribution to Winners

In conclusion, the technical quiz organized under the Students Association for III Year ECE students proved to be a highly engaging and successful event. It effectively fulfilled its objective of promoting technical excellence, teamwork, and enthusiasm for learning among the students. The event not only tested their knowledge in core areas of Electronics and Communication Engineering but also motivated them to explore new concepts and emerging technologies. Students actively participated with great interest and competitive spirit, making the quiz both educational and enjoyable. Overall, the event served as an excellent platform for students to showcase their technical skills, enhance their confidence, and strengthen their academic foundation beyond the classroom learning experience.

A handwritten signature in blue ink, followed by the date '19/10/20' written in the same ink.

HOD - ECE

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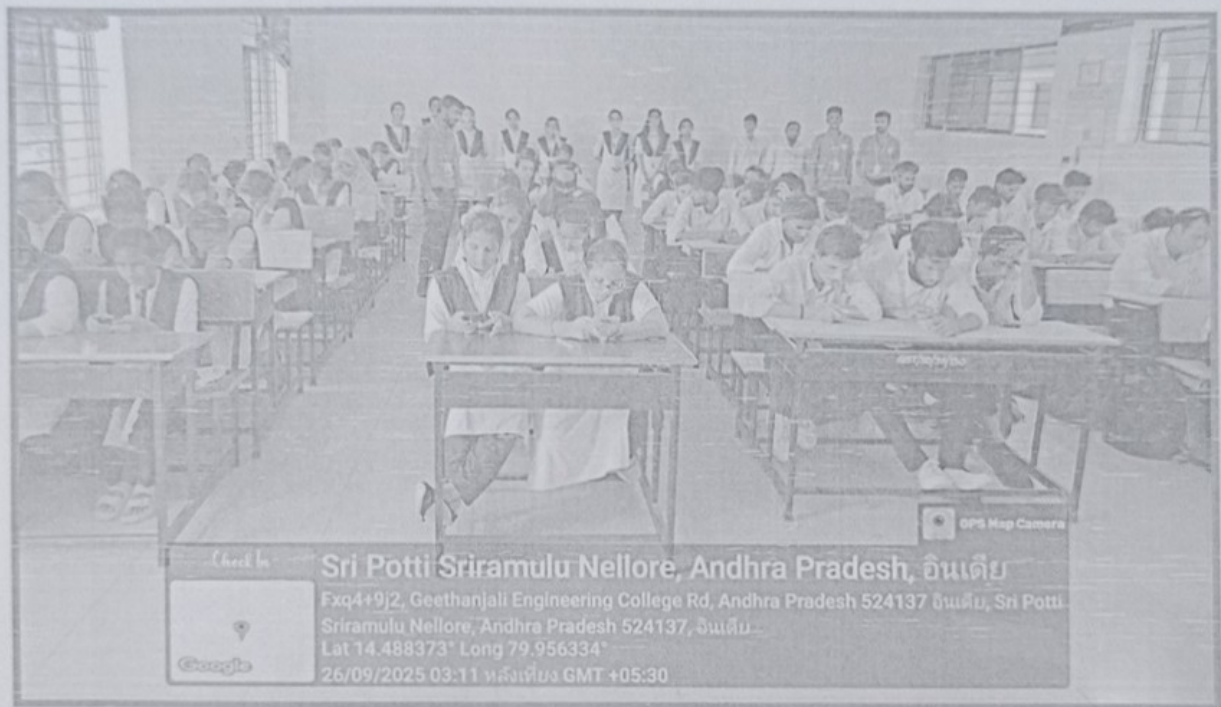
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Department of Electronics and Communication Engineering

Report on Technical Quiz

The department of Electronics and Communication Engineering organized a "Technical Quiz" on behalf of "Vision of Electronics" (Students Association) on 26-09-2025 for II ECE students. The event was conducted to enhance students conceptual understanding of core ECE subjects and to provide a competitive yet encouraging platform to showcase their technical knowledge. A total of 64 students participated in this event. The quiz comprised two rounds, including multiple choice questions on Digital Electronics, Electronic Devices and Signals & Systems.

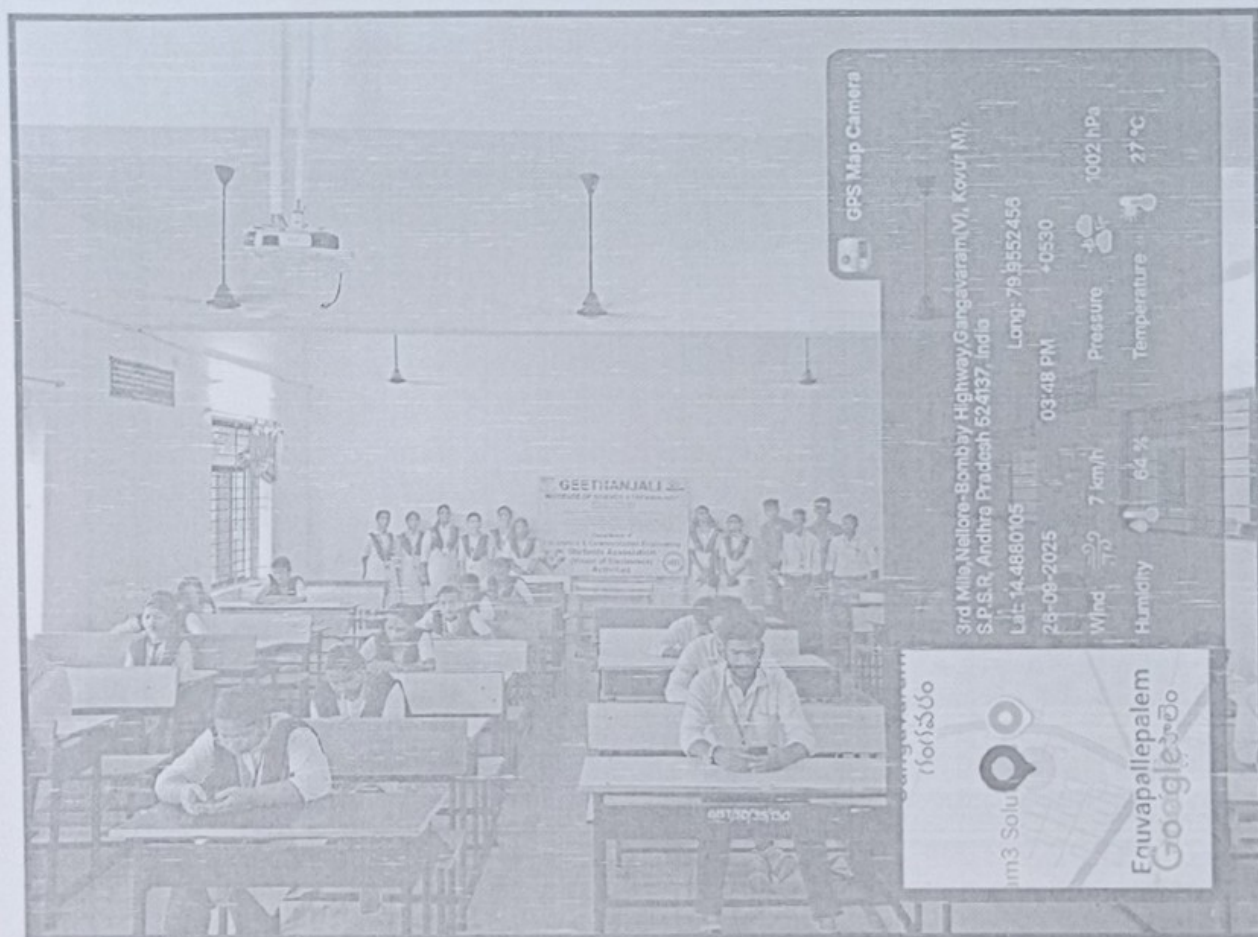


Students Actively Participating in Technical Quiz – Round - I

The main objective of conducting the technical quiz was to assess and strengthen students' knowledge in crucial areas such as Digital Electronics, Electronic Devices and Signals & Systems. The quiz also aimed to promote teamwork, critical thinking, and quick decision-making abilities among participants. By participating in the competition, students not only revised key concepts but also developed confidence and interest in applying theoretical knowledge in a practical and competitive environment.



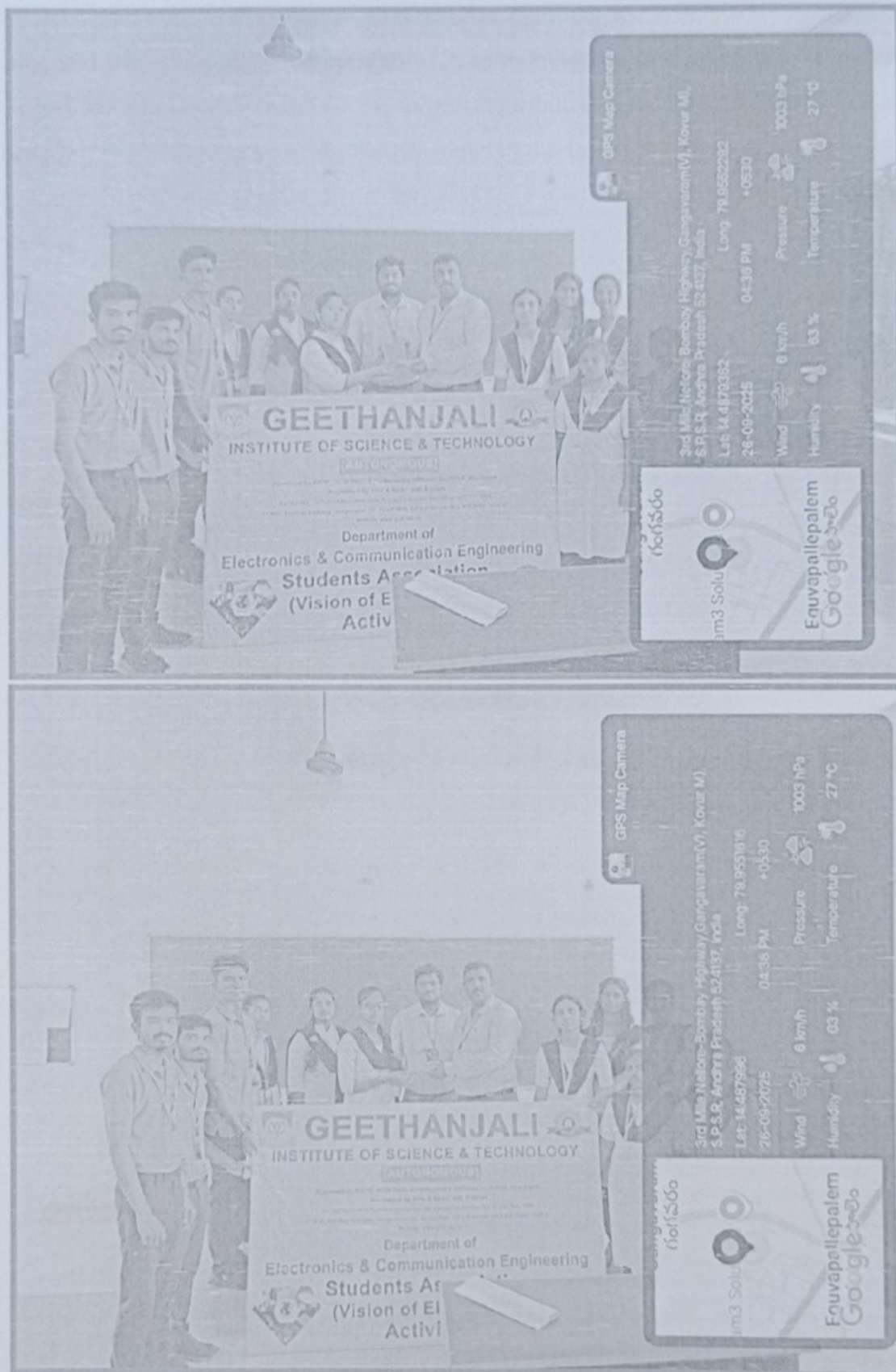
Students actively participating in Technical Quiz – Round – I



Shortlisted students participating in final round

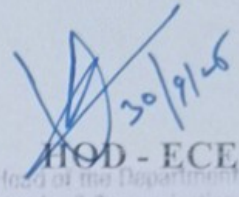
The feedback from the participants and faculty was highly positive. Students appreciated the structure of the quiz, the diversity of the questions, and the interactive buzzer and audiovisual rounds. Many felt that the event helped them identify their strengths and areas that require improvement.

After the completion of final round, Pendyala Varshitha bearing roll number 242UA04102 of II ECE - B got first prize and K. Mounika bearing roll number 242UA04059 of II ECE - A got second prize and prizes were distributed to both the winners.



Prize distribution to Winners

In conclusion, the Technical Quiz was a successful and impactful initiative that fulfilled its purpose of strengthening technical knowledge and encouraging active participation among Electronics and Communication Engineering students. The competition not only promoted healthy academic competition but also provided a platform for students to collaborate, think critically, and perform under time constraints. The enthusiastic involvement of the participants and the well-coordinated efforts of the organizers contributed to the smooth conduct of the event. The department plans to organize similar programs in the future to further enhance the students' learning experience and prepare them for academic and career challenges in the field of engineering.


30/9/25

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Department of Electronics and Communication Engineering

Report on Group Discussion

The department of Electronics and Communication Engineering organized a "Group Discussion" competition on behalf of "Vision of Electronics" (Students Association) on 22-08-2025 for II ECE students to enhance students technical communication, leadership, and collaborative skills. The main objective of this competition was to provide a platform where students could express their views on current developments in the electronics and communication domain, think critically, and interact confidently with their peers.



Students actively participating in group discussion

Topics related to emerging technologies such as 6G communication, the Internet of Things, satellite communication, artificial intelligence in electronics, and advancements in VLSI were discussed. The activity also aimed to prepare students for placement drives, professional group tasks, and academic presentations.



Students actively participating in group discussion

The response from the participants was encouraging, with students actively engaging in the discussion and presenting their opinions with clarity. Many of them demonstrated good subject knowledge, logical reasoning, and teamwork while expressing their viewpoints. Faculty members who supervised the session appreciated the enthusiasm of the students and noted improvements in their communication and confidence levels. Some students, however, were advised to focus on improving assertiveness, clarity in speech, and active listening skills. The peer-to-peer interaction helped even the quieter participants gain confidence as the session progressed.



First prize distribution



Second prize distribution

In conclusion, the group discussion conducted under the Students Association activities was highly productive and beneficial for the students of Electronics and Communication Engineering. It served as an effective platform for nurturing their communication abilities, fostering teamwork, and increasing awareness of technological advancements. The session successfully contributed to the holistic development of the students and highlighted the importance of continuing such interactive initiatives regularly.

[Handwritten Signature]
19/9/25

HOD - ECE

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