

SCHOOL OF ENGINEERING

DEPARTMENT
OF

ELECTRONICS AND COMMUNICATION ENGINEERING

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NECTOR

NNRG EC TECHNOCRATS ORNATE REPORT

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NECTOR-ECE





Nalla Narasimha
Reddy Group of
Institutions

NNRG
Integrated Campus

Engineering • Pharmacy • MBA



**DEPARTMENT
OF
ELECTRONICS AND COMMUNICATION ENGINEERING**



NNRG EC TECHNOCRATS ORNATE REPORT

NECTOR
2026-2027
(JANUARY-FEBRUARY)



www.nnrg.edu.in
NECTOR-ECE

SCHOOL OF ENGINEERING
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

INSTITUTE'S VISION AND MISSION

VISION:

- To be a premier institution ensuring globally competent and ethically strong professionals.

MISSION:

- To provide higher education by refining the traditional methods of teaching to make globally competent professionals.
- To impart quality education by providing the state-of-the-art infrastructure and innovative research facilities.
- To practice and promote high standards of professional ethics, transparency and accountability.

DEPARTMENT'S VISION AND MISSION

VISION:

- To produce creative Electronics and Communication Engineering graduates with cutting edge technology and Research to meet Industry and societal needs.

MISSION:

- To provide innovative learning environment to enable the students to face the challenges.
- To provide value-based education by promoting activities addressing societal needs.
- To enable graduates to develop the skills to solve complex problems in multidisciplinary activities.

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1.SALIENT FEATURES

ABOUT ECE DEPARTMENT

Electronics is the branch of study that has revolutionized the life style of humanity. It is a pace setter and a prime mover behind the transition to a technological society. The field of Electronics and Communication Engineering encompasses all areas of human life. Radio, television, telephones, computers, automobiles, office machinery and house-hold appliances, lifesaving medical equipment and space vehicles represent a mere sample in the wide spectrum of application of Electronics.

In the age of satellite transmitted television and transcontinental computer network, the challenge and opportunities in this profession continue to mushroom. Electronics and Communication Engineering graduates have unlimited opportunities in the field of terrestrial and extra-terrestrial communication systems like telephones, cellular phones, television, optical fiber communication, consumer and entertainment devices. Highly rewarding and greatly satisfying opportunities await the Electronics and Communication Engineers in the field of satellite space programs, embedded technologies etc.

The Department of Electronics and Communication was started in the year 2009. It is a full- fledged academic department for emerging ECE engineers. B.Tech. (ECE) program was duly approved by the AICTE and affiliated to JNTU, Hyderabad. An intake of 60 was sanctioned initially and then it is raised to 180 from the year 2019. PG Program (M.Tech.) with specialization in “Embedded Systems &VLSI” is approved by AICTE for the academic year 2013-14 with an approved intake of 18. For the academic year 2024-25, there are 11 students enrolled in the booming M.Tech Program successfully.

There are 33 Faculty members in the department which includes 8 doctorates from various reputed institutions, and 12 faculty members pursuing their Ph.D. The department is equipped with 8 spacious and well-developed laboratories. Seminars, Workshops and Technical Symposia are regularly conducted in the department to keep faculty and students updated with latest developments in various fields. The department is committed to provide opportunity to embark on a rewarding and exciting learning journey in preparation for a future career.

The Electronics & Communication Engineering (ECE) Department has built a reputation for excellence in teaching and service. Electronic engineers are changing the world to a comfortable global home. The information and technology revolution has been built on the advances of Electronics.

ECE is making exhilarating progress in areas ranging from microelectronics, mobile communications to VLSI Design Automation. The students are inspired by the expertise and knowledge of our faculty, integrating practical with challenging and interesting course-work

The software's and major Equipment that are available in the department are:

- Cadence EDA Tool
- MATLAB-2014b and Tool Boxes (Simulink, Image Processing, Communication, Signal Processing and Digital Signal Processing System)
- Spectrum Analyzer and Signal Generator
- OFDM trainer kit
- Digital Signal Processors Kits (TMS320C6713)
- MPMC COTEX M3 Kit
- Advanced RISC Machine Processor Kits (LPC2148)
- Xilinx SPARTAN 3E FPGA Boards
- Artix-7 FPGA kit, Zynq-7000 SoC kit
- Xilinx Vivado tool

2.DEPARTMENT EVENTS

2.1 ELITE GATHERING

2.1.1 II ECE B.TECH

“New Year, New Goals: Building Habits of Success”

Event Overview

The Elite Gathering, conducted on 06th January 2026 at NNRG Auditorium, was an inspiring academic event organized by the Department of Electronics & Communication Engineering. The session focused on empowering students to begin the New Year with clear goals, disciplined habits, and a success-oriented mindset.

Concept & Experience

The gathering emphasized that success is not a one-time achievement, but the result of consistent habits and disciplined actions. Students reflected on past experiences and aligned their future goals with structured planning and accountability.

Key Highlights

- Student-led public speaking sessions
- Focus on goal setting and time management
- Importance of small, consistent habits
- Encouragement of peer motivation and support

Outcome & Impact

Students developed clear and actionable goals, strengthened discipline and accountability, improved public speaking skills, and fostered a growth-oriented mindset.

Key Takeaway

“From setting intentions to shaping actions, disciplined habits become the bridge between our goals and lasting success.”

Conclusion

The Elite Gathering was a meaningful initiative that inspired students to transform their ambitions into consistent actions, making it a perfect start to the New Year with motivation, clarity, and purpose.

This is just a glimpse — the real story, insights, and impact are waiting for you. Click here to read more:

https://nnrg.edu.in/PDF/events/ECE/2025_26_EG_20260106.pdf

2.1.2 II ECE B.TECH

- Date: 20th January 2026
- Venue: Auditorium (3rd Floor), NNRG
- Participants: II Year B.Tech (ECE)

■ About the Event

The Department of Electronics & Communication Engineering organized an inspiring Elite Gathering program with the theme “Arise, Awake: Youth as Leaders of Change”. The event focused on developing leadership, self-awareness, and responsibility among students

. ■ Event Highlights

• Inspiring speeches by student speakers • Focus on leadership, innovation, and ethics • Interactive discussions and idea exchange • Platform for confidence building

■ Key Takeaways

• Strong self-awareness and leadership mindset • Understanding youth as change-makers • Development of innovative thinking • Motivation for real-world impact

■ Impact & Outcome

The program created a lasting impact by instilling confidence, leadership qualities, and social responsibility among students, encouraging them to contribute meaningfully to society

. ■ Inspiring Thought

“From awakening inner purpose to leading meaningful change, conscious youth transform vision into action and action into lasting impact.”

You don't want to miss this — click here to continue:

https://nnrg.edu.in/PDF/events/ECE/2025_26_EG_20260120.pdf

2.1.2 II B.TECH ECE

Purpose of Gathering:

The Department of Electronics & Communication Engineering at Nalla Narasimha Reddy Education Society's Group of Institutions, Hyderabad, in collaboration with the college management and H&S Department, organized a one-day Elite Gathering program for B.Tech II Year, II-Semester students on 20th January 2026. The program was conducted under the theme “**Arise, Awake: Youth as Leaders of Change.**”

The main objective of the gathering was to motivate students to recognize their potential and take leadership roles in society. Through inspiring talks and discussions, the program emphasized self-awareness, leadership values, and active participation in social and technological development. Students were encouraged to transform their knowledge into meaningful action and contribute positively to society.

The event also highlighted the important role of youth in driving innovation and positive change in the modern world. Overall, the gathering inspired students to develop confidence, responsibility, and leadership qualities needed for future success.

List of Speakers:

S. No.	Roll No.	Name of the Speaker
1	247Z1A0444	DARIPELLI JOSHNAVI
2	247Z1A0466	GEDDAVALASA SAIKUMAR
3	247Z1A0426	BOLLEPALLY SATYA NARAYANA RAJU
4	247Z1A0414	BANDIRALA JAVANA
5	247Z1A04G5	SHYAMALA NIHARIKA
6	247Z1A04I7	VITTA SANDEEP REDDY
7	247Z1A04F3	REGOTIP RASANNA KUMAR
8	247Z1A0477	KANDIKANTI HARSHA VARDHAN GOUD



The Elite Gathering was graced by speakers along with the HoD and faculty members.

Outcomes:

1. Graduates developed a stronger sense of self-awareness and leadership responsibility, motivating them to take initiative and actively contribute to societal and professional development.
2. Participants gained clarity on their role as change-makers, fostering innovative thinking, ethical values, and a commitment to use their skills for positive social impact.

“From awakening inner purpose to leading meaningful change, conscious youth transform vision into action and action into lasting impact.”



247Z1A04G5-S.NIHARIKA



247Z1A0477-K.HARSHAVARDHAN
GOUD



247Z1A0414-B.JAVANA



247Z1A04F3-R.PRASANNA KUMAR



247Z1A0444-D.JOSHNAVI



247Z1A0417-V.SANDEEPREDDY



247Z1A0466-G.SAI KUMAR



247Z1A0426-B.SATYANARAYANA
RAJU

2.2 CLUB AWARENESS PROGRAM

Topic: Embedded Systems & IoT

Speaker: Mr. K. Rambabu, Assistant Professor

Summary:

Embedded Systems and IoT play a crucial role in connecting the digital and physical worlds, making them highly interesting for students. This field focuses on designing smart systems using microcontrollers, sensors, and software to perform specific tasks, such as in smart homes, healthcare devices, and industrial automation. Learning Embedded & IoT helps students gain hands-on experience with real-time systems, programming, and hardware–software integration, preparing them for innovation-driven careers in automation, robotics, and smart technologies.



2.2.2 VLSI

Topic: VLSI

Speaker: Mrs. V.V. Nandini, Assistant Professor

Summary:

VLSI is a core area of electronics that focuses on designing and integrating millions of transistors onto a single chip, forming the backbone of modern devices such as smartphones, computers, and AI processors. Studying VLSI helps students understand how hardware systems are designed at the chip level, combining concepts from digital electronics, semiconductor physics, and computer architecture. It also opens strong career opportunities in chip design, fabrication, and semiconductor industries, making it a highly relevant and future-oriented field.



2.2.3 COMMUNICATIONS AND NETWORKING

Topic: Communications & Networking

Speaker: Mr. A. Aravind, Assistant Professor

Summary:

Communication and Networking is an essential subject for students as it explains how information is transmitted reliably over wired and wireless media. It covers key concepts such as modulation, data transmission, protocols, and network architectures that enable technologies like mobile communication, the internet, and satellite systems. From a student's perspective, this field builds strong analytical and problem-solving skills and provides a foundation for careers in telecommunications, networking, and emerging areas like 5G and cloud networking.



2.2.4 SIGNAL & IMAGE PROCESSING

Topic: Signal & Image Processing

Speaker: Mr. Abraham Thomas, Assistant Professor

Summary:

Signal and Image Processing is an important area that deals with analysing, modifying, and interpreting signals and images for practical applications. From a student's point of view, it helps in understanding how audio, speech, medical images, and videos are processed to improve quality and extract useful information. This subject combines mathematics, algorithms, and programming, and it forms the foundation for advanced fields such as machine learning, computer vision, medical imaging, and multimedia systems, offering wide research and career prospects.



2.3 NECODERS CLUB

2.3.1 ONE WEEK SDP-NEXT-GEN CODING:PYTHON FOR FUTURE ENGINEERS

The Embedded Systems & IoT club under the Research Group **NECodErs, Dept. of ECE**, conducted a 5-day SDP on “**Next-Gen Coding: Python for Future Engineers**” for II B.Tech students from 05th to 09th January 2026. The program introduced students to modern programming concepts using Python, chosen for its simplicity and wide applications in areas like AI, IoT, and data science.

Students learned basic to intermediate topics such as variables, data types, loops, functions, data structures, file handling, and OOP concepts through interactive sessions and hands-on practice. The program helped improve their logical thinking, problem-solving skills, and readiness for academic and career opportunities.

Dr.Sk.Fairooz, Dr.P.Ashok Kumar, Mrs. K. Hemalatha & Mr. B.Saidulu worked as Faculty Coordinators for this SDP.

NALLA NARASIMHA REDDY
Education Society's Group of Institutions-Integrated Campus
(Approved by AICTE & PCI, New Delhi & Affiliated to JNTUHV, Accredited by NAAC with A+ Grade)
Chowdariguda (V), Korremula 'X' Road, Ghatkesar (M), Medchal-Malkajgiri (D), Hyderabad - 500088, Telangana.
(UGC AUTONOMOUS INSTITUTION)

Department of Electronics & Communication Engineering
NECodErs Club
In association with IIC, ISTE & IETE Student forum (ISF)
Organizes
One Week
Skill Development Programme
on
“Next-Gen Coding: Python for Future Engineers”
05th January 2026 to 09th January 2026

Chief Patron Shri Nalla Narasimha Reddy Chairman	Patron Dr. C.V. Krishna Reddy Director	Co-Patron Mr. Nalla Prashanth Reddy Vice-Chairman	Co-Patron Dr. G. Janardhana Raju Dean - SoE	Convener Dr. B. Ravi HoD - ECE	Co-Conveners Dr. A. Gopal Mr. Koushtubh K	Coordinators Team NECodErs Dr. Sk. Fairooz Mrs. K. Hemalatha Mr. B. Saidulu
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Venue: ECE Seminar Hall

Python Programming (05-01-2026 to 09-01-2026)

The Student Development Programme (SDP) on Python Programming was conducted from 05th January 2026 to 09th January 2026. The training aimed to equip students with essential Python coding skills required for placement preparation. The sessions covered fundamental concepts such as variables, data types, operators, conditional statements, loops, functions, arrays, strings, file handling, Lists, Tuples, Sets, Dictionaries, Python modules and Packages. Practical demonstrations were given, and students actively participated in coding exercises to strengthen their problem-solving skills.

Inaugural Session by HoD : Dr. Ravi Bolimera

The SDP was inaugurated by HoD, ECE at the ECE seminar hall from 9:45 am to 11:00am. The session saw active participation from ECE department, with a total of 57 attendees:

· ECE Department: Sec A:15 Sec B:18 Sec C:24



Day-1 (05.01.2026) – Session 1

An awareness session by **Dr. Mohan Pakalapati** highlighted the importance of C programming fundamentals and the responsible use of ChatGPT in academics. He explained core concepts like variables, data types, and program structure, and encouraged regular coding practice to improve logical and problem-solving skills. The session was informative and motivated students to build strong fundamentals and use AI tools effectively.



Day-1(05.01.2026) Session 2: Introduction to Python, Data Types, Variables, Expressions:

In the afternoon session, **Dr.Sk.Fairooz** handled the session on "Introduction to Python", students will learn the basic concepts of python like variables, data types and expressions and their implementation in programming. Followed by practical sessions.

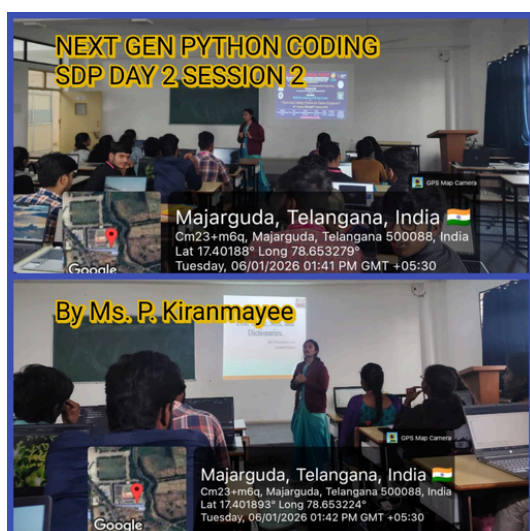


Day-2(06.01.2026) Session 1: Parameters and arguments, Functions, Arrays:



The morning session was conducted by **Mr. A. Aravind**, who delivered an informative lecture on the topics Parameters and Arguments, Functions, and Arrays in programming. He began the session by explaining the concept of functions, highlighting how functions help in organizing programs into smaller, reusable blocks of code. He described how functions improve code readability, reduce repetition, and make programs easier to maintain.

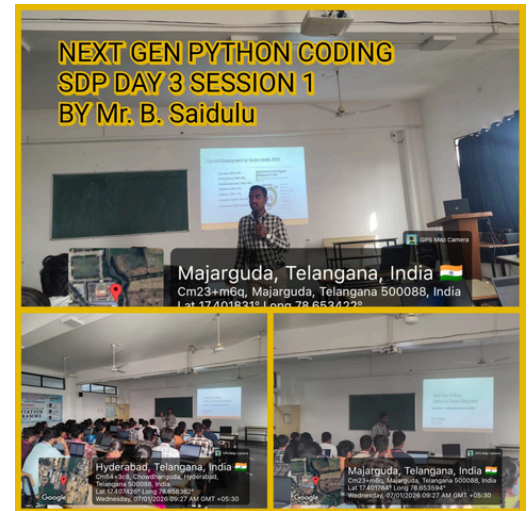
Day-2(06.01.2026) Session 2: Lists, Tuples, Dictionaries, Sets, Exceptions



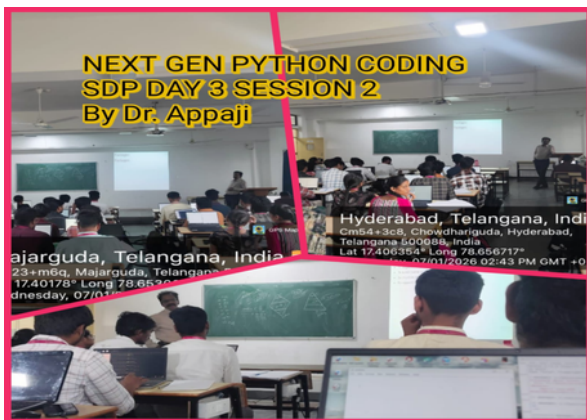
The second day afternoon session of the program featured an informative session conducted by **Mrs. P. Kiranmayee** on important Python programming concepts including Lists, Tuples, Dictionaries, Sets, and Exception Handling. Overall, the session was interactive and insightful, enabling participants to strengthen their understanding of Python data structures and error handling techniques.

Day-3(07-01-2026)Session 1: Control flow, Loops, Conditionals, Iterations:

The third session of the day was conducted by **Mr. B. Saidhulu**, who delivered an engaging lecture on the fundamental programming concepts of Control Flow, Loops, Conditionals, and Iterations in Python, where students learned how the order of execution of statements in a program can be controlled using different programming structures, explained how control flow helps in making programs more logical and efficient. Finally, the concept of Iterations was explained, highlighting how loops repeatedly execute a block of code until a specified condition is met. Practical examples and demonstrations helped students understand how iteration works in real programming scenarios.



Day-3(07-01-2026)Session 2: Modules, Packages

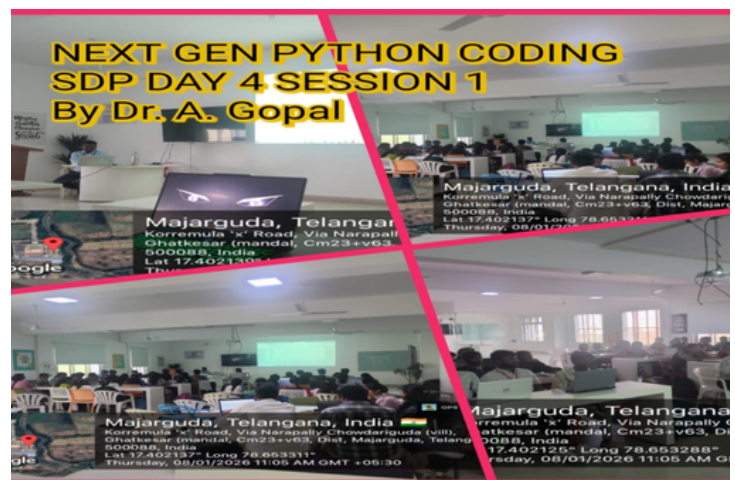


The session on Modules and Packages was conducted by **Dr. Appaji**. The session aimed to help students understand how large programs can be organized into smaller and manageable components in Python. He explained the concept of modules, describing them as separate files that contain Python code such as functions, variables, and classes. He demonstrated how modules can be imported into programs using the import statement, which allows programmers to reuse code and avoid repetition.

Day-4(08-01-2026) Session 1: NumPy, Files, Pandas

The session on NumPy, Files, and Pandas was conducted by **Dr. A. Gopal**. The session focused on introducing students to important Python libraries and concepts used in data handling and analysis, explaining that it is a powerful Python library used for numerical computing and working with arrays. He demonstrated how NumPy arrays allow faster mathematical operations and efficient handling of large datasets.

The session then covered File Handling in Python, where students learned how to create, read, write, and append data in files using different file modes. Practical examples were shown to explain how files are used to store and manage data in real-world applications.



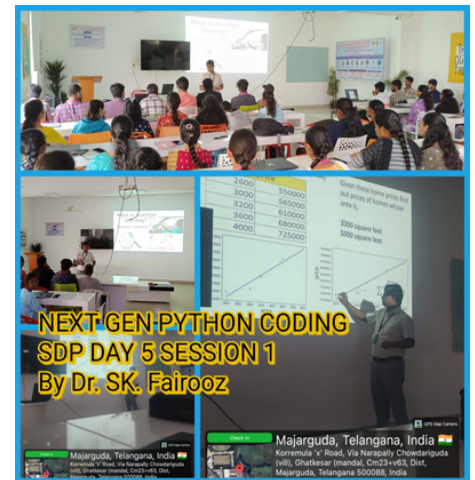
Day-4(08-01-2026) Session 2: Real time Projects



The session on Real-Time Projects was conducted by **Dr.Sk. Fairouz** and **Mr. B. Saidhulu**. The session aimed to introduce students to the importance of applying programming knowledge to solve real-world problems. During the session, the speakers explained how programming concepts learned in class can be implemented in real-time projects. They discussed various project ideas related to software development, data analysis, and problem-solving applications, encouraging students to think creatively and develop practical solutions.

Day-5(09-01-2026) Session 1: Real time Projects

Examples of simple project models were discussed to help students understand how theoretical concepts can be converted into practical applications. The session motivated students to actively participate in project development and enhance their technical and analytical skills.



Day-5(09-01-2026) Session 2: Assessment Test



On the final day of the program, an assessment test was conducted to evaluate the understanding and learning outcomes of the participants. The test covered the various topics discussed throughout the sessions, including Python programming concepts, control flow, functions, arrays, modules, packages, and data handling libraries.

Conclusion

The five-day Skill Development Program on Python Programming was a valuable learning experience. Students learned Python fundamentals like syntax, data types, control structures, and functions through hands-on practice. The program improved their coding skills, logical thinking, and problem-solving abilities, helping them build a strong foundation for academic projects and future careers.

2.4 GATE AWARENESS PROGRAM-ACE INSTITUTE

Mode: Offline

Date: 28th Jan 2026

Resource Person: Mr. V R D M Kaushik Agastyaraj, Mr. Shiva Sai

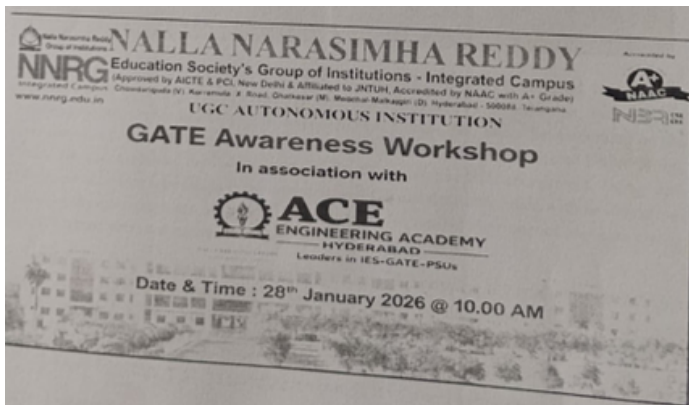
Time: 10:00 AM onwards

Organized by: Nalla Narasimha Reddy Education Society's Group of Institutions (NNRSGI)

In Association with: ACE Engineering Academy, Hyderabad

The Nalla Narasimha Reddy Educational Society's Group of Institutions conducted a GATE Awareness Workshop on 28th January 2026 in partnership with ACE Engineering Academy, Hyderabad. The workshop was arranged in ECE seminar hall at 10:00 AM and attended by GATE aspirants of the ECE department.

The session began with an introductory address by **Dr. Ravi Bolimera**, Head of the Department of ECE, who emphasized the importance of the Graduate Aptitude Test in Engineering (GATE) for higher education and career opportunities, and highlighted the objective of organizing the workshop. Following this, Dr. Sravan Kumar and Mr. P. K. Kulkarni, GATE Coordinators from the ECE department, formally introduced the resource persons and invited them to share their expertise with the students. This set a strong foundation for an engaging and informative session.



The Resource person Mr V R D M Kaushik Agastyaraj from ACE Engineering Academy, Hyderabad delivered the lecture, providing a comprehensive overview of the GATE examination. Another resource person Mr. Shiva Sai provided the information about opportunities for ECE engineers in government based public sector companies. Both speakers explained enrollment process guidelines for GATE and PSU how to access internships in these companies. The gate faculty mentors played crucial role, and a Q&A session facilitates the resolution of participants.

Mr. V.R.D.M. Kaushik Agastyaraj delivered a detailed session on the GATE exam, covering its structure, syllabus, and preparation strategies. Mr. Shiva Sai explained career opportunities in PSUs and the role of GATE scores in recruitment and internships. The session ended with an interactive Q&A, helping students clarify doubts. Overall, the workshop was informative and beneficial, guiding students on GATE preparation and career prospects.

2.5 INDUSTRY VISIT

2.5.1 NFC (NUCLEAR FUEL COMPLEX)

Overview of Program :

An industrial visit was organized by **Nalla Narasimha Reddy Group of Institutions (NNRG)** for the students of the **Department of Electronics and Communication Engineering (ECE)** to **Nuclear Fuel Complex (NFC), Hyderabad**. The visit was arranged to provide students with practical exposure to industrial processes and advanced technologies used in nuclear fuel production and related engineering applications.

The visit was accompanied by **2 faculty members from the ECE department**. A total of 47 students participated in the visit, including **14 students from 3rd year ECE** and **33 students from 2nd year ECE**. The visit provided an opportunity for students to observe real-time industrial operations and understand the role of electronics and communication systems in large-scale industries.

Purpose of the Program:

The main objectives of the industrial visit were:

- To provide students with exposure to **real industrial environments**.
- To understand the **manufacturing and technological processes** used in Nuclear Fuel Complex.
- To bridge the gap between **theoretical knowledge and practical applications**.
- To create awareness about **career opportunities in government research and industrial organizations**.
- To understand the role of **electronics, instrumentation, automation, and control systems** used in industrial sectors.

Program Highlights:

- Introduction to **Nuclear Fuel Complex and its role in India's nuclear energy program**.
- Explanation of various **manufacturing and processing units** used for nuclear fuel production.
- Demonstration of **advanced machinery, control systems**, and safety mechanisms used in the industry.
- Interaction with **industry professionals and technical staff**, who explained the working principles and applications of engineering technologies.
- Awareness about **industrial safety standards and quality control procedures** followed in the plant.



Outcome of the Visit:

The industrial visit helped students gain valuable practical knowledge about industrial operations and nuclear fuel technology. Students developed a better understanding of how electronics and communication engineering concepts are applied in real industrial environments.

The visit also motivated students to explore career opportunities in research organizations, government industries, and advanced technology sectors. Overall, the visit was highly informative and beneficial for academic learning and professional development.

2.5.2 ICOMM TELE LIMITED

VISIT PARTICULARS

<u>Date organized</u>	<u>Venue / Organization</u>	<u>Attendees</u>
07 February, 2026 (Saturday)	ICOMM Tele Limited, Nagaram and Cherlapally, Hyderabad-500051	B.Tech.(ECE)- III year, I-Sem A, B, & C Sections and CSE allied branch students

Purpose of Visit:

The Department of Electronics & Communication Engineering of Nalla Narasimha Reddy Education Society's Group of Institution, Hyderabad with the support of college management and department staff had organized an Industrial Visit program (1-day program) for B.Tech. (ECE) students of III Year, I-Sem A,B & C section and III-CSE allied on 07th February, 2026 (Saturday) to ICOMM Tele Limited company located at Nagaram and Cherlapally, Hyderabad.



This visit was carried out as a part of their partial fulfillment mentioned in the university curriculum. The college management had provided 2 college buses for safe & convenient travel of 12(ECE) and 100(CSE and allied) students and 4 faculty members to the ICOMM. The ECE faculty member Mr.K.Srinivas, Assistant Professor and 3 faculty members of CSE had accompanied for the trip.

The Speakers who were Senior employee working at ICOMM highlighted various aspects of on sustainability, reliability, and innovation in telecommunications, power, transportation, defence and urban development. ICOMM Tele Limited is committed to delivering critical infrastructure solutions across multiple sectors, enhancing the quality of life for communities around the world & other applications still resides in the hands of central government.



3. INSTITUTIONAL EVENTS

3.1 IIIC EVENT-THE FUTURE OF SEMICONDUCTOR INDUSTRY IN INDIA

The poster is for an event organized by the Industry Institute Interaction Cell (IIIC) of Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG). The event is an Industry Expert Talk on "THE FUTURE OF SEMICONDUCTOR INDUSTRY IN INDIA" featuring Ms. Pragati Thakur, Senior HR Manager at Cadence, Hyderabad. The event is scheduled for 03rd January 2026 at 11:00 AM in the Conference Hall, Ground Floor. The poster includes logos for NNRG, UGC Autonomous Institution, and NBA.

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Industry Institute Interaction Cell (IIIC)
Organizes
Industry Expert Talk
on
THE FUTURE OF SEMICONDUCTOR INDUSTRY IN INDIA

Ms. Pragati Thakur
Senior HR Manager,
Cadence, Hyderabad

Date: 03rd January 2026 Time: 11:00 AM Venue: Conference Hall, Ground Floor

Program Flexi

Overview of Program:

The Industry Institute Interaction Cell (IIIC) of Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG), Hyderabad, organized an Industry Expert Talk on "The Future of Semiconductor Industry in India" on 03rd January 2026 at 11:00 AM in the Conference Hall, Ground Floor, NNRG Campus. The session was delivered by Ms. Pragati Thakur, Senior HR Manager, Cadence, Hyderabad.

Purpose of Program:

The program was mainly aimed to provide students with industry exposure, trends and technologies currently running and to create awareness about the semiconductor ecosystem in India, and guide them on career opportunities, skill requirements, and future trends in the semiconductor sector.

Program Highlights:

Ms. Pragati Thakur is a Senior HR Manager at Cadence, Hyderabad, with extensive experience in talent acquisition and workforce development in the semiconductor domain. Her insights helped students understand industry expectations and career pathways.

A total of 95 students from B.Tech ECE III and IV Year had attended the program. The session covered global and Indian semiconductor trends, government initiatives, emerging job roles, required technical skills, and career planning strategies. Real-time industry examples were shared.

The IIIC team led by Dr. G.Janardhan Raju, Dean, SoE & Convener, IIIC and Head of ECE department Dr.B.Ravi, along with Dr. B.Hariprasad, Professor, ECE, Mr.Prashanth Kulkarni, Assoc. Prof., ECE, Mr.Koustubh Kulkarni, Asst.Prof, ECE & Mr.K.Srinivas, Asst.Prof, ECE were also the part of program, accompanied by nearly 95 students from B.Tech ECE IV year.

What they do?

Ideabytes company provides efficient IoT Hardware/Software, Embedded Hardware/Software and other AI related services to almost all businesses, pharma, defence organizations as part of digital transformation.



Participants listening to key insights



Team with the session's active participants

Outcome of Program:

A total of 95 students had attended the program. Students actively participated by raising queries, seeking suggestions, and engaging in discussions to gain deeper insights into the semiconductor industry. Students gained clarity on semiconductor career opportunities, industry expectations, and skill development paths. The program strengthened industry–institute interaction. The Industry Expert Talk was informative and impactful, contributing to enhanced student awareness and motivation towards semiconductor-related careers.

3.2 IIIC EVENT-IOT TRENDS & OPPORTUNITIES

The poster is for an event titled "IOT TRENDS & OPPORTUNITIES". It is organized by the Industry Institute Interaction Cell (IIIC) and the Department of ECE at Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG), which is a UGC Autonomous Institution. The event is an expert talk by Mr. Praful Shah, Managing Director and CRO of EFACTOR, Hyderabad. The event is scheduled for 31st January 2026 at 12:00 PM in the ECE Seminar Hall, II Floor. The poster includes logos for NNRG, AACSB, and NBA.

NALLA NARASIMHA REDDY
Education Society's Group of Institutions—Integrated Campus
UGC AUTONOMOUS INSTITUTION
www.nnrg.edu.in

Industry Institute Interaction Cell (IIIC) & Department of ECE

Organizes
Expert Talk
on
"IOT TRENDS & OPPORTUNITIES"

Mr. Praful Shah
Managing Director and CRO,
EFACTOR, Hyderabad.

Date: 31st January 2026 Venue: ECE Seminar Hall, II Floor Time: 12:00 PM

Overview of Program:

The Industry Institute Interaction Cell (IIIC) and Department of ECE of Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG), Hyderabad had jointly organized an Industry Expert Talk on "IOT TRENDS & OPPORTUNITIES" for B.Tech ECE II & III Year students on 31st January 2026 (Saturday) at 12 PM in the Conference Hall, Ground Floor.

Purpose of Program:

The program was mainly aimed to provide students with industry exposure, trends and technologies currently running and to create awareness about the semiconductor ecosystem in India, and guide them on career opportunities, skill requirements, and future trends in the semiconductor sector.

Program Highlights:

The session was delivered by Mr. Praful Shah, Managing Director and CRO, EFACTOR, Hyderabad. The event witnessed enthusiastic participation from ECE students and faculty members. The session was conducted as part of the institute's initiative to strengthen industry-academia collaboration and expose students to emerging technological advancements.

Key insights of the program were:

- Explanation of the evolution of IoT from basic sensor networks to AI-integrated ecosystems.
- Discussion on real-world IoT applications in Smart Cities, Healthcare, Industrial Automation, Agriculture, and Logistics.
- Insights into Industry 4.0 and digital transformation trends.
- Guidance on essential skills such as Embedded Systems, Networking, Cloud Computing, Data Analytics, and Cybersecurity.
- Interactive Q&A session addressing internships, certifications, and project development opportunities.

The seminar hall was occupied with active participation from selective and interested students of the ECE department from II and III year. Students attentively followed the presentation and actively engaged in discussions. The interactive session encouraged students to explore IoT-based projects and innovative solutions.



Outcome of Program:

A total of 75 students had attended the program. Students actively participated and express their understanding by raising queries, seeking suggestions, and engaging in discussions to gain deeper insights into the IoT and Embedded Systems industry. The Industry Expert Talk was informative and attracted many key insights on sensors, actuators and IoT system related career perspective.

3.3 IBM Skill Build in collaboration with Magic Bus Indian Foundation

- Duration: 10th – 12th February 2026
- Venue: ECE Seminar Hall
- Participants: 140 (II & III Year ECE Students)

■ About the Workshop

A dynamic three-day workshop conducted by IBM Skill Build in collaboration with Magic Bus India Foundation, aimed at empowering students with cutting-edge knowledge in Artificial Intelligence, Machine Learning, and Deep Learning.

■ Key Highlights

Day 1 – Foundation & Awareness

- Introduction to AI, ML, and Deep Learning
- Real-world applications and industry relevance
- Sparked curiosity in emerging technologies

Day 2 – Technical Deep Dive

- Understanding ML algorithms and models
- Data processing techniques
- Hands-on conceptual learning

Day 3 – Practical Exposure

- Real-time industry applications
- Career opportunities in AI & Data Science
- Improved confidence and readiness

■ Learning Outcomes

- Strong foundation in AI, ML & Deep Learning
- Enhanced analytical and problem-solving skills
- Exposure to industry trends and career paths
- Increased motivation towards research and innovation

■ Conclusion

The workshop was a highly enriching and impactful experience, equipping students with both theoretical knowledge and practical insights, preparing them for future technologies and industry demands

Click here to explore the full story behind this achievement:

https://nnrg.edu.in/PDF/events/ECE/SDP2_Report.pdf

3.3 TECH SAMPRATHI 2026

TECH FEST – 2K26 Technical Treasure Hunt – Event Glimpse

Event Overview

The Technical Treasure Hunt, conducted during Tech Samprathi – 2K26 (26th–27th February 2026), was an engaging technical event designed to blend learning, logic, and adventure. It provided students with a platform to apply their knowledge in a dynamic and interactive way.

Concept & Experience

Participants solved technical questions, coding problems, and logical puzzles to unlock clues. Each clue led them to a new location, making the event a thrilling mix of brainstorming and exploration.

Event Highlights

- Multi-level treasure hunt with increasing complexity
- Integration of technical and analytical questions
- Real-time problem-solving under pressure
- Strong emphasis on teamwork and coordination

Outcome & Impact

The event enhanced technical knowledge application, logical thinking, teamwork, communication skills, and decision-making ability.

Conclusion

The event was a grand success, creating a perfect balance between education and excitement, and leaving participants with a memorable learning experience.

Dive deeper into the insights — click here to read more:
https://nnrg.edu.in/PDF/events/ECE/TECH_FEST_2k26.pdf

4. FACULTY ACHIEVEMENTS

4.1 R & I ACHIEVEMENTS (JAN-FEB)

S. No.	Journals			Conferences		Patents		Books/Book Chapters	Total
	SCI-E/SCI	ESCI/WOS/SCOPUS	Others	IEEE	Scopus	Published	Granted		
1.	0	0	0	0	3	7	1	1	12

Conferences:

1. **Lavanya Nalla; Sravan K. Vittapu;** Ravichand Sankuru; Aleti Vinay Kumar; Ayla Sanjana; Baddam Ramnivas Reddy“Deep learning based identifying of human moments with 3D-dataset.” In 2025 5th International Conference on Engineering and Advancement in Technology-2024,AIP Conference Proceedings January (pp.1-6). **Scopus (Published) doi:https://doi.org/10.1063/5.0298424**
2. **Lavanya Nalla Corresponding Author; Sravan K. Vittapu;** Ravichand Sankuru; Aleti Vinay Kumar; Ayla Sanjana; Baddam Ramnivas Reddy“Validation and performance of V2V system congestion control using can protocol” In 5th International Conference on Engineering and Advancement in Technology-2024, AIP Conference Proceedings January (pp.1-5).**Scopus (Published) doi:https://doi.org/10.1063/5.0298427**
3. K. Soni Sharmila, P. Joel Josephson, Kante Satyanarayana, **Potaparthini Kiranmayee,** Gabbeta Ramesh, K. Ramesh Chandra “Enhanced Bone Image Segmentation Using Adamax Optimizer: Implementation and Evaluation”First EAI International Conference, ICATECS 2024, Springer Nature Switzerland January (pp.242-250)**Scopus (Published) doi:https://doi.org/10.1007/978-3-031-94280-8_19**

Patents:

1. Mr. Omkar Adhikari Dr. Chenchu Sreedhar Kakarla, Mr. Ramu Vookanti, Mrs Yamuna Bee Jafarullah **Dr. Shaik Fairooz,** Mrs. Subbu Lakshmi, Dr. Nirmala Viswanathan. Dr. Gottipalla Ashok Kumar. “AI Enabled Device for Detection of Neurological Disorder”. (UK, Patent No. 6471076, The Patent Office Journal No. 5833) (**Granted**).
2. **Dr. Ravi Bolimera Dr. P Ashok Kumar Ms. M H Sushma Mercilin Ms. Anuradha Kotakadi** B V Sai Krishna Naik Bairollu Hemanth Kumar Elukapally Ravi Teja Adepu Srinath Kavali Manish Kumar Yadav Anuguthala Mahender “AUTOMATIC TEMPERATURE CONTROL THROUGH MOBILE”(India, Patent No. 202541129498 A ,The Patent Office Journal No. 01/2026) (**Published**).

3. Mrs.P.Prema Mohammad Anwarul Siddique Dr. Ratna Raju Mukiri Dr Shanmuga Rajathi D Dr. Pravin Gopalrao Sarpate Swathi Lenka **Soumya Gudepu** K Ashok Kumar Reethu V J A Jevin Mrs.S.Kayathri P Joel Josephson “DEEP LEARNING–BASED IMAGE PROCESSING FRAMEWORK FOR AUTOMATED EARLY DETECTION OF BREAST CANCER”(India, Patent No. 202541128190 A ,The Patent Office Journal No. 01/2026) (**Published**).
4. **Dr. Ravi Bolimera Dr. Nitesh Gaikwad Mr. N. Raju Ms. Lavanya Nalla Mr. K. Mallikharjun Mr. D. Rafi Mr. G. Vamshidhar Reddy Ms. L. Shivani Mr. G. Sai Surya Mr. G. Sravan Kumar** “RASPERRY PI BASED SMART READER USING MACHINE LEARNING FOR MULTIPLE LANGUGAGES”(India, Patent No. 202541129818 A ,The Patent Office Journal No. 01/2026) (**Published**).
5. **Dr. Ravi Bolimera Mr. Boddupally Saidulu Mr. Kambhampati Rambabu Mr. Kandukuri Srinivas Kandadi** Sai NihithaDharavath Praveen Kambam Akshitha Banothu Nithin Katam Sriram Reddy Dharavath Gyan Singh “IOT BASED SMART ELECTRICITY ENERGY METER USING ESP32 WITH BLYNK APPLICATION”(India, Patent No. 202541120135 A ,The Patent Office Journal No. 01/2026) (**Published**).
6. **Dr.Ravi Bolimera Dr. Nitesh Gaikwad Mr. Nalla Suresh Mr. Boddupally Saidulu** Mohammad Afreen Kothakonda Akshaya Narri Rathish Namireddy Mouni Nallabothu Gopichandu Koyyada Vamshi Kiran “HUMAN FOLLOWING ROBOT USING ARDUINO”(India, Patent No. 202541129817 A ,The Patent Office Journal No. 01/2026) (**Published**).
7. **Mrs. Kasharaboina Thrisandhya Mr. Ramesh Kolloju Mrs. Anuradha Kotakadi Mr. Alampally Aravind** Uday Kumar Bollam Gannu Saivardhan Reddy Jaipal Reddy Lotla Sowmya Chepuri Arasani Machendar Gunakanth Gadipally“DESIGN AND ANALYSIS OF 8*8 WALLACE TREE MULTIPLIER USING COMPRESSORS”(India, Patent No. 202641002981 A,The Patent Office Journal No. 05/2026) (**Published**).
8. Mr.Sankara Rao Allada Mrs.K Ramya Mrs.M S Sathya Dr. Javaid Ahmad Sheikh Mr L Saravanan Mr D Suresh Mrs G Lingeswari **Mrs M H Sushma Mercilin** “Synchronization Techniques for Distributed Communication Systems”(India, Patent No. 202641004045 A ,The Patent Office Journal No. 05/2026) (**Published**).

Books/ BookChapters:

1. A. Alfred Kirubaraj, **S Rekha**, G Shine Let, Navin M. George, C Benin Pratap “Offset-Microstrip fed Dual Meander Line Antenna for Human Body Applications” Cambridge Scholars, February (pp.197-214).

4.2 FACULTY DEVELOPMENT PROGRAMS

Academic Year: 2025-26	Semester: II	Date: 04/ 03/2026
JAN 2026- FEB 2026 Achievements–Faculty Participation		

S. No	Publications	<= 2 Days	2 to 5 Days	> 5 Days	Total
1.	FDP	-	-	4	04

Faculty Development Programs:

S.NO	NAME OF THE FACULTY	TITLE	PLACE/ORGANIZATION	DATE(S)
1	Mrs. V. NEELAVATHI	ARTIFICIAL INTELLIGENCE IN HEALTHCARE: INTELLIGENT SYSTEMS AND APPLICATIONS FOR MEDICAL NEEDS	SREENIDHI INSTITUTE OF SCIENCES AND TECHNOLOGY (AICTE ATAL)	05-01-2026 TO 10-01-2026
2	Mrs. LAVANYA NALLA	ENERGY-EFFICIENT LLM MODEL DEPLOYMENT ON EDGE AND CLOUD	ROYAL COLLEGE OF ENGINEERING & TECHNOLOGY (AICTE ATAL)	19-01-02026 TO 24-01-2026
3	Mrs. DEEVI BINDU TUSHARA	QUANTUM COMMUNICATION: RECENT PROGRESS AND FUTURE RESEARCH DIRECTIONS	NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI (AICTE ATAL)	19-01-02026 TO 24-01-2026
4	Mrs. G. T. SANDHYA	RECENT TRENDS IN SEMICONDUCTOR TECHNOLOGY AND ROLE OF AI IN CHIP DESIGN AND FABRICATION	VVP ENGINEERING COLLEGE, RAJKOT (AICTE ATAL)	19-01-02026 TO 24-01-2026

6. TRAINING & PLACEMENT

6.1 VLSI JOB OPPORTUNITIES - CAREER AWARENESS PROGRAM

Resource Person:

Mr. Nagarjuna Gattu Technical Director, Vikarna Technologies

Participants:

IV Year ECE Students – 54 Students

Time: 11:00 AM to 12:00 PM

Venue: S-22

Faculty Attended:

Dr. Ravi Bolimera, HoD – ECE

Dr. B. Hariprasad Naik, Associate Professor

Ms.N.Lavanya ,Asst.prof



Objective of the Session:

The objective of the session was to create awareness among IV year ECE students about career opportunities in the VLSI domain and to provide insights into industry expectations and required skill sets.

Description of the Session:

The Department of Electronics and Communication Engineering organized a VLSI Job opportunities Awareness Session for IV year students. Mr. Nagarjuna Gattu delivered an informative lecture covering the overview of the VLSI industry, various job roles, essential technical skills, and career pathways in the semiconductor domain. The session was interactive, and students actively participated by raising queries related to skill development, internships, and placement opportunities in VLSI companies.

Outcome of the Session:

- Students gained awareness about VLSI career opportunities
- Understanding of industry-relevant skills was enhanced
- Students were motivated to plan their career roadmap effectively

Conclusion:

The session was highly beneficial and informative. The Department expresses sincere gratitude to the resource person for sharing valuable industry insights and motivating students toward VLSI careers.

7. EDITORIAL COLUMN

7.1 FACULTY EDITORIAL COLUMN

CLOUD COMPUTING: AN OVERVIEW AND ITS IMPACT ON MODERN COMPUTING

-By
Mrs. V.V.Nandini
Assistant professor
ECE Department

INTRODUCTION

Cloud computing has emerged as one of the most significant advancements in information technology over the past decade. It has transformed how individuals and organizations store data, develop applications, and deliver services. By providing on-demand access to shared computing resources over the internet, cloud computing eliminates the need for heavy investment in physical infrastructure and enables scalable, flexible, and cost-effective IT solutions.

What is Cloud Computing?

Cloud computing refers to the delivery of computing services—such as servers, storage, databases, networking, software, and analytics—over the internet (“the cloud”). According to the National Institute of Standards and Technology (NIST), cloud computing is characterized by on-demand self-service, broad network access, resource pooling, rapid elasticity, and measured service.

Service Models of Cloud Computing

Cloud services are commonly classified into three main models:

1. **Infrastructure as a Service (IaaS):** Provides virtualized computing resources such as virtual machines, storage, and networks. Users manage operating systems and applications while the provider manages the physical infrastructure. Example: Amazon EC2, Google Compute Engine.
2. **Platform as a Service (PaaS):** Provides virtualized computing resources such as virtual machines, storage, and networks. Users manage operating systems and applications while the provider manages the physical infrastructure. Example: Amazon EC2, Google Compute Engine.
3. **Software as a Service (SaaS):** Delivers complete applications over the internet that users can access through a web browser. Example: Google Docs, Microsoft Office 365.

Deployment Models

Cloud computing can be deployed in different ways depending on organizational needs:

- Public Cloud: Services offered over the public internet by third-party providers.
- Private Cloud: Cloud infrastructure dedicated to a single organization.
- Hybrid Cloud: Combination of public and private clouds.
- Community Cloud: Shared by organizations with similar requirements.

Advantages of Cloud Computing

Cloud computing offers several benefits:

- Scalability: Resources can be scaled up or down as needed.

- **Cost Efficiency:** Reduces capital expenditure and operational costs.
- **High Availability:** Cloud systems are designed for reliability and fault tolerance.
- **Accessibility:** Services can be accessed from anywhere with an internet connection.
- **Rapid Deployment:** Applications can be deployed quickly and efficiently.

Challenges and Security Concerns

- Despite its benefits, cloud computing also presents challenges such as data security, privacy concerns, vendor lock-in, and dependency on internet connectivity. Organizations must implement proper security controls and understand the shared responsibility model to mitigate risks.

Applications of Cloud Computing

Cloud computing is widely used in:

- Web and mobile application development
- Big data analytics
- Artificial intelligence and machine learning
- Internet of Things (IoT)
- Online education and e-governance

Conclusion

Cloud computing has become a cornerstone of modern computing, enabling innovation, efficiency, and global collaboration. As technologies such as artificial intelligence, edge computing, and serverless architectures evolve, cloud computing will continue to play a crucial role in shaping the future of digital infrastructure.

7.2 STUDENT EDITORIAL COLUMN

The Role of Technology in Modern Education

-By
N.SaiRam
III-ECE-B
(237Z1A04C2)

Introduction – Technology in Education

Technology has become an important part of modern education. It has changed the way students learn and teachers share knowledge. With the help of computers, smartphones, the internet, and digital learning platforms, students can easily access information and educational resources anytime and anywhere. Technology makes learning more interactive, interesting, and efficient. It also helps students develop important digital skills needed for their future careers. As education continues to evolve, technology plays a key role in improving the quality of learning and expanding opportunities for students.

Technology has become an essential part of modern education, transforming the way students learn and teachers teach. Digital tools such as online learning platforms, virtual classrooms, and educational apps have made learning more interactive and accessible. Students can now access a vast amount of information from anywhere, which helps them understand concepts more clearly and efficiently.

Technology also encourages self-learning and creativity among students. Tools like simulation software, coding platforms, and online tutorials allow learners to explore subjects beyond traditional textbooks. In addition, communication between teachers and students has improved through online discussions, emails, and learning management systems.

However, while technology offers many advantages, it should be used wisely. Excessive use of gadgets and social media can distract students from their studies. Therefore, maintaining a balance between technology use and focused learning is important.

Conclusion :

In conclusion, technology plays a vital role in improving the quality of education. It makes learning more accessible, interactive, and efficient for students. With proper use, technology can enhance knowledge, creativity, and problem-solving skills. However, it is important for students to use technology responsibly and avoid distractions. When used wisely, technology can greatly support academic success and prepare students for the future.

8. ALMA CORNER

8.1 ALMA CONNECT

The Department of Electronics & Communication Engineering, School of Engineering, Nalla Narasimha Reddy Education Society's Group of Institutions, organized an Alumni Interaction Program titled "Alma Connect" on 4th March 2026 at the ECE seminar hall.

Speaker: Mr. Shivaprasad Sevarthi (217Z5A0421)

Title of the Program: Alma Connect – Senior–Junior Interaction

Date: 04.03.2026

Time: 12:00 Noon

Venue: ECE Seminar Hall

Resource Person:

Mr. Shivaprasad Sevarthi (217Z5A0421)

(2021–2025 Batch Alumni)

Physical Design Trainee

Sandlogic Technologies Pvt Ltd

Target Audience: ECE Students (III Year)

Objectives of the Program:

- To strengthen alumni–student interaction
- To provide guidance on career opportunities in the semiconductor and VLSI industry
- To motivate students towards skill development and industry readiness



Brief Description of the Program:

The Department of Electronics & Communication Engineering organized “Alma Connect – Senior–Junior Interaction” on 04th March 2026 as part of alumni engagement and student development initiatives. The session was delivered by Mr. Shivaprasad Sevarthi, an alumnus of the department and currently working as a Physical Design Trainee at Sandlogic Technologies Pvt Ltd. During the session, he shared his academic journey, preparation strategies, and experiences in entering the semiconductor industry.

He explained the importance of VLSI design, physical design concepts. The session was interactive with students asking questions related to career paths, internships, interview preparation, and skill development, certifications, and continuous learning.

Conclusion:

The Alma Connect – Senior–Junior Interaction program was successfully conducted and proved to be highly informative and motivating for students. The department looks forward to organizing more such alumni interaction sessions in the future.

8.2 ALMA REFLECTION

I am Pravalika Ananthula(197Z1A0401). a Master's graduate in Business and Management with proven expertise in leadership, strategic planning, business analysis, and project management. My experience combines technical proficiency and managerial acumen, enabling me to deliver innovative solutions and drive measurable business outcomes.



At Wipro, I successfully managed cross-functional teams, resolved client issues, and improved operational efficiency by leveraging advanced skills in SQL, MS Office, and Power BI. I optimized reporting processes, enhanced data visualization, and ensured on-time project delivery, contributing to improved client satisfaction and team productivity.

As Vice President of the White Volunteer Foundation, I demonstrated leadership by developing and implementing strategic initiatives, managing diverse teams, and fostering collaboration. This role strengthened my skills in stakeholder engagement, resource allocation, and execution of impactful projects aligned with organizational goals.