

DEPARTMENT OF ECE NEWSLETTER

SEP-OCT 2025

Faculty Members:

Dr. V. Jagan Naveen
Professor & HOD



Dr. B. Anil Kumar
Assistant Professor



Mrs. S. Shanmathi
Assistant Professor



Student Members:

Sura Aswini
22341A04H1
ECE-C



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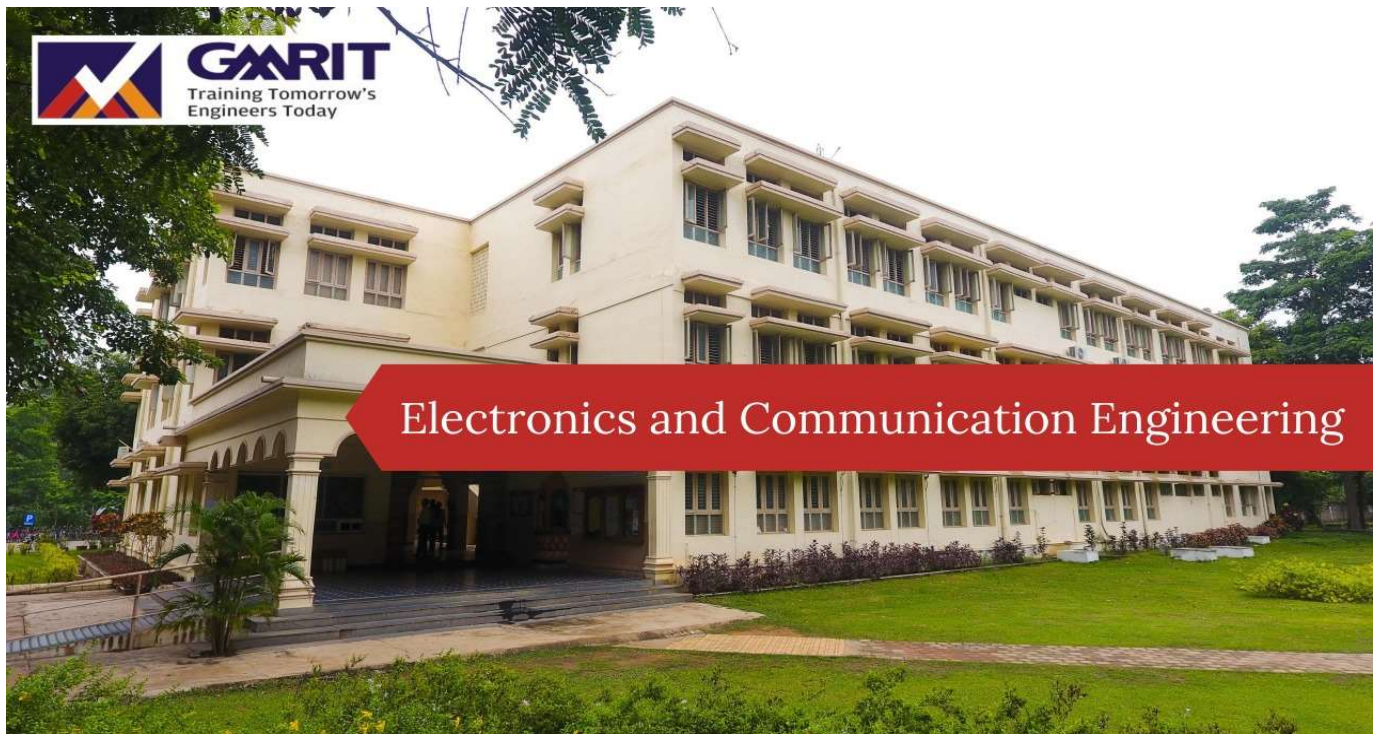
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1.1. OVERVIEW

Electronics & Communication Engineering Department provides students with a solid scientific/technical background and research capabilities in the design, development and manufacture of electronic devices and systems used in a wide spectrum of applications. The applications spans from household appliances to sophisticated satellite communication, from electronic ignition to neural networks and signal processing chips. The Department integrates academic discipline with project-based engineering applications, classroom learning and theory with real world experiences. Annual intake of this Department is 180 students.



1.2. VISION

To be a nationally preferred department of learning for students and teachers alike, with dual commitment to research and serving students in an atmosphere of innovation and critical thinking.

1.3. MISSION

To provide high-quality education in Electronics & Communication Engineering to prepare the graduates for a rewarding career in Electronics & Communication Engineering and related industries, in tune with evolving needs of the industry.

To prepare the students to become thinking professionals and good citizens who would apply their knowledge critically and innovatively to solve professional and social problems.

1.4. PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S)

1. Embrace technical and professional skills with the spirit of learning, critical thinking while acquiring the fundamentals in science and technology. (PEO1)
2. Contemplate real life problems, design and develop novel products that are technically viable, economically feasible and socially acceptable. (PEO2)
3. Encompass ethical values, exhibit soft skills in management & teamwork acquiring leadership qualities. (PEO3)

1.5. PROGRAMME OUTCOMES (PO'S)

At the end of the Programme, a graduate will be able to

- PO 1. Apply the knowledge of basic sciences and fundamental engineering concepts in solving engineering problems.
- PO 2. Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.
- PO 3. Propose an appropriate solution for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.
- PO 4. Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions.
- PO 5. Select/develop and apply appropriate techniques and IT tools for the design & analysis of the systems.
- PO 6. Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.
- PO 7. Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development.
- PO 8. Demonstrate Knowledge of professional and ethical practices.
- PO 9. Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary situations.

- PO 10. Communicate effectively among engineering community, being able to comprehend and write effectively reports, presentation and give / receive clear instructions.
- PO 11. Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary environment.
- PO 12. Recognize the need for, and have the ability to engage in independent and lifelong learning.
- PSO 1. Apply the knowledge of technological evolutions, model / characterize devices and design the integrated circuits to build analog and digital systems. (Program Specific)
- PSO 2. Understand and apply the fundamentals of communication and signal processing to develop systems wrapped with industry standard protocols and standards. (Program Specific)

1.6. FACILITIES & INFRASTRUCTURE

- ❖ Analog & Digital Communication Lab
- ❖ Integrated Circuit & Pulse Digital Circuits Lab
- ❖ Electronic Device Circuits Lab
- ❖ Microwave & Optical Communication Lab
- ❖ Microprocessor & Micro Controller Lab
- ❖ ECAD Lab
- ❖ Basic Electronics Lab
- ❖ Digital Signal Processing Lab
- ❖ Drone Lab

1.7. MAJOR COURSES

- ❖ Digital Signal Processing
- ❖ Radar Engineering
- ❖ Computer Organisation
- ❖ Electronic Devices and Circuits
- ❖ Analog and Digital Circuits

- ❖ Microwaves
- ❖ VLSI
- ❖ Satellite Communication
- ❖ Cellular Mobile Communication
- ❖ Optical Communication
- ❖ Management Science
- ❖ Pulse & Digital Circuits and Integrated Circuits
- ❖ Electromagnetic Waves
- ❖ Antennas
- ❖ Microprocessors
- ❖ Digital Image Processing
- ❖ Embedded Systems Design and IoT
- ❖ RTL coding Techniques
- ❖ ASIC verification using system Verilog
- ❖ Electronics for Agriculture

PROFESSIONAL SOCIETY ACTIVITIES

ISTE EVENTS:

1. The Indian Society for Technical Education (ISTE) organized "Funtronix: Volume-2" on September 12, featuring two engaging rounds. The first round is to draw the circuits with given components. The second round is decoding the missing digits of the phone number using Hamming code and circuits, assessing technical and problem-solving skills. This unique mix of academics highlighted the creativity, strategy, and intellectual strength and the teamwork of the participants.

Number of participants: 60

Conducted by Student coordinators:

S. Parimala (24341A04D0)

R. Sudheer (24341A04F2)

R. Gnaneshwar (24341A04F6)



2. The Indian Society for Technical Education (ISTE) and Institution of Electronics and Telecommunication Engineers (IETE) Student Chapters of the ECE Department jointly organized a collaborative event "Memory Marathon" on 18th September 2025, with two rounds: a picture memory challenge testing their focus and memory skills and a topic bidding round with double points highlighting their knowledge and decision-making abilities. The event saw enthusiastic participation, encouraging learning, fun, and healthy competition, and concluded successfully with winners being appreciated.

Number of participants: 39

Faculty coordinator: DR. G. Nookaraju

Conducted by Student coordinators:

G. Prakash (24341A0446)

S. Santoshi (24341A04H7)

P. Kavya (24341A04E0)

R. Gnaneshwar (24341A04F6)



3. FACULTY PUBLICATIONS & ACHIEVEMENTS

SEMINARS & WORKSHOPS

- Dr. J.V. Suman [et...al.] attend a Conference on “Integrated Approaches for Agricultural Landscape Monitoring and Plant Disease Management”, ASIANCON 2024 Date of :24-08-2024, PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, Pune. Published on 21.01.25.
- Dr. Jami Venkata Suman, Subhashini Kodur, G.M.Anitha Priyadarshini attend a Conference on “Design and Optimization of FinFET based Analog and Mixed Signal Circuits”, ASIANCON 2024 Date of :24-08-2024, PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, Pune. Published on 21.01.25.
- Dr. Jami Venkata Suman [et...al] attend a Conference on “Integrated Approaches for Agricultural Landscape Monitoring and Plant Disease Management”, ASIANCON 2024 Date of :24-08-2024, PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, Pune. Published on 21.01.25.
- Dr. B. Anil Kumar, attend a workshop on “AICTE QIP PG PROGRAM in AIML” from 01-07-2024 to 31-01-2025 for 180 days organized by IIT Lucknow.
- Dr. B. Anil Kumar, Conducting Five Day Skill Development Workshop in association with TiHAN Foundation–IIT, Hyderabad Titled “Navigating with UAVs: Technology” and Trends 27th to 31st January 2025. Organized by Department of Electronics & Communication Engineering, GMRIT.

PAPER PUBLICATIONS

- Dr. Yogesh Misra [et.al] Paper entitled on “A CNN-Driven Image Analysis Approach For Accurate Detection of Plant Leaf Diseases”, International Journal of Engineering, Science and Information Technology date of publication :01-09-2025, Voume:5, Issue No:4, Page No: 235-243 , Publisher Malikussaleh University, Indonesia, ISSN No: 2775-2674 Inexing: Scopus. Impact factor:0.18.
- Dr. A. Siva Sangari Paper entitled on “Iot powered smart cradle for infant care and vaccination monitoring system ”, Journal of Archives for Technical Sciences date of publication :12-09-2025, Voume:33, Issue No:2, Page No 65-72 , Publisher Tehnički institut Bijeljina, ISSN No1840-4855 Inexing: ESCI, Impact factor 0.2.
- Dr. Yogesh Misra [et.al] entitled on Paper “A new offloading technique to maximize multi-user performance in edge computing using blockchain technology in the internet of things”,

International Journal of Applied Mathematics (IJAM)date of publication : 01-10-2025, Voume:38, Issue No:4, Page No: 855-867, Publisher (IJAM), ISSN No: 314-8060 Inexing: Scopus. Impact factor:0.3.

- Vinay Varma, TVS Divakar entitled on Paper “Improving User Experience for the Visually Impaired in Online Forms”, International Journal of IJRPR, Date of Publication 15-10-2025, Volume No:6, Issue Number:10, Page Number:1526-1534, Publisher IJRPR, ISSN number:2582-7421.

CONFERENCES

- Dr. K. Srilakshmi titled on Paper “Secure VLSI System Design Through Verilog-Based Simulation and RTL Realization of SPECK Algorithm for Enhanced Cryptographic Reliability”, International Conference on Advancements in Smart Computing and Information Security, date of 11-09-2025, Organized by Marwadi University, Rajkot 360 003. Gujarat, India.

OTHERS

- Dr. P. Ravi kumar [et al.] have a book titled on “Microwave Devices and Circuits for Advanced Wireless Communication”, Publisher CRC PRESS(TAYLOR & FRANSIS GROUP) Date of Publication: 22-08-2024.
- Dr.R.Kranthi, Convener, Department of ECE, GMRIT, Rajam organized a Faculty Development Program (FDP) on collaboration with NIT Warangal on “Futuristic Tools, Techniques and Application for Signal, Image & Communication Systems "dated from 22th to 26th September 2025.
- Dr. Ravi Shankar Saxena attended a FDP online course on “Python for Data Science” NPTEL Portal, IIT MADRAS, duration in 4weeks date of completion 10-10-2025.
- 2. Dr. T.V.S. Divakar attended FDP on online course on” Digital Fundamentals” portal in L&T EDUTECH, duration 1week, Date of Completion 08-10-2025.
- 3 Dr. B. Vasudeva attended FDP titled on “Futuristic Tools, Techniques and Application for Signal, Image & Communication Systems” duration Five days Starting from 22-09-2025 to 26-09-2025. Organization GMRIT.
- 4. Dr. T. Anil Kumar attended FDP titled on "Futuristic Tools, Techniques and Application for Signal, Image & Communication Systems” duration Five days Starting from 22-09-2025 to 26-09-2025. Organization GMRIT.
- 5. Dr. R. Kranthi attended FDP titled on “Futuristic Tools, Techniques and Application for Signal, Image & Communication Systems” duration Five days Starting from 22-09-2025 to 26-09-2025. Organization GMRIT.
- 6. Dr. B. Vasudeva attended FDP titled on “Futuristic Tools, Techniques and Application for Signal, Image & Communication Systems” duration Five days Starting from 22-09-2025 to 26-09-2025. Organization GMRIT.