

DEPARTMENT OF ECE

NEWSLETTER

JAN, FEB 2023

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Professor & HOD



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STUDENT MEMBERS:

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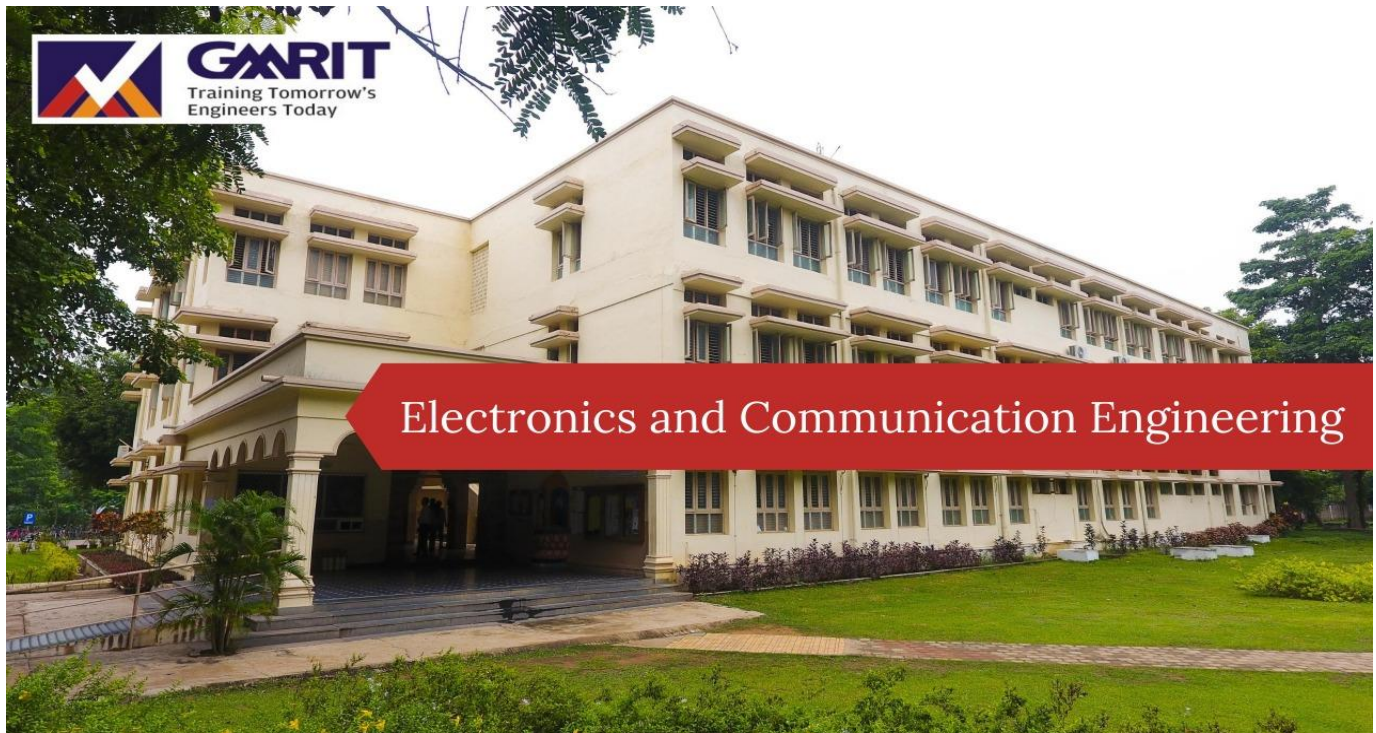
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1. ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

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

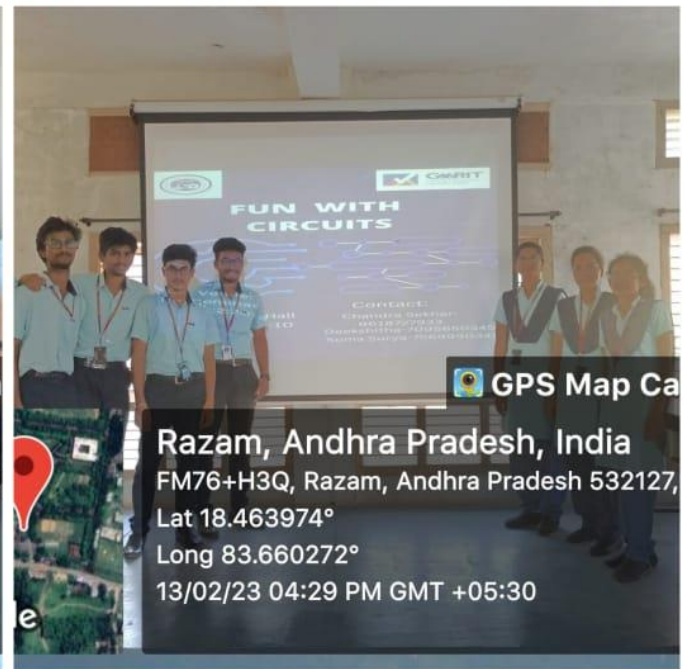
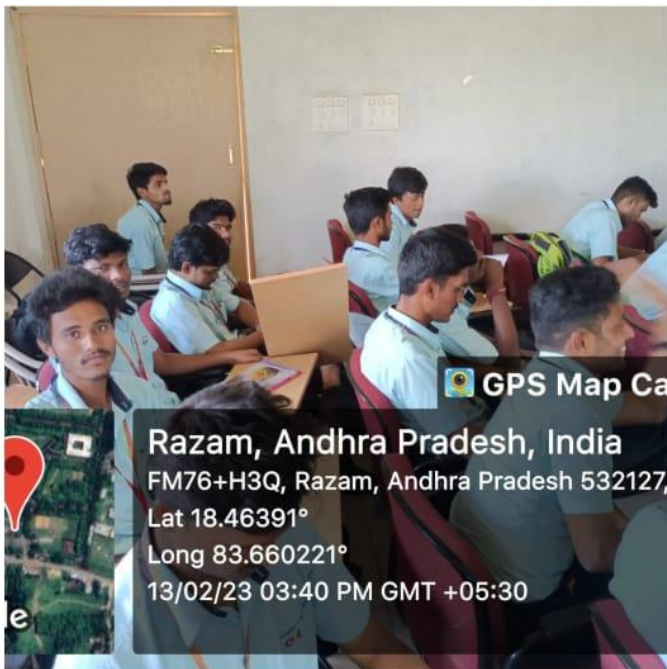
1.7. MAJOR COURSES

- ❖ 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

2.STUDENT ACTIVITIES

PROFESSIONAL CHAPTER ACTIVITIES: ISTE Events



The ISTE coordinators will host the "**FUN WITH CIRCUITS**", on February 13. Students from the second and third years of ECE take part actively. Achievement certificates were given to both winners and runners-up.

IETE Events



In the month of February - 2023 we conducted the event **TECHNICAL QUIZ** which encourages the students to Think, Analyse and Express their views about the existing and advanced technology.

IE(I) Events:



The “**Battle with Brains**” event was conducted on January 21st. This event is to enhance the cognitive skills of the student.

The IE(I) conducted “**Movie Trivial**” was conducted on February 6th. The “**Resume Writing**” event was conducted on February 27th. This event is to enhance the cognitive skills of the student.



STUDENT ACHIEVEMENTS:

Third year students got first prize in Project Design Contest at GVP college of Engineering, Vishakhapatnam on 25th February”2023.

3. FACULTY PUBLICATIONS & ACHIEVEMENTS

1. Dr. Ravi Kumar Palla, Chonika Molli et al.. published a Journal, entitled “Global Journal of Engineering and Technology Advances” on 21/12/2022, Volume No 13, Issue No.3, Page Nos. 66-71, Publisher: GJETA, ISSN No. 2582-5003 Indexing Google scholar.
2. Dr. A. Siva Sangari presented a paper entitle “A Review on Infectious and Cardiovascular Diseases using Deep Learning Technique” in ICCCI 2023 at Sree Shakthi Institute of Technology , Coimbatore on 1/25/2023.

4. SEMINARS AND WORKSHOPS ATTENDED

1. Dr. T.V.S. DIWAKAR attended a online course ”5G for Everyone” Coursera Portal, QUALCOMM WIRELESS ACADEMY, Completion on 1/3/2023 (8 Weeks).
2. Dr. B. Anil Kumar attended a FDP “ Current Trends in Artificial Intelligence and Engineering Applications in The Area of Machine Learning and Deep Learning” on 2/6/2023 to 2/10/2023 (5 days) at JNTUGV, Vizianagaram.
3. Dr. P. Ravi Kumar attended a FDP“ Current Trends in Artificial Intelligence and Engineering Applications in The Area of Machine Learning and Deep Learning” on 2/6/2023 to 2/10/2023 (5 days) at JNTUGV, Vizianagaram.
4. Smt. P. Revathi attended a FDP “ Current Trends in Artificial Intelligence and Engineering Applications in The Area of Machine Learning and Deep Learning” on 2/6/2023 to 2/10/2023 (5 days) at JNTUGV, Vizianagaram.