

e-Wizard

Departmental News Letter

Vol-I

2020-2021

Issue-I



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



St. Johns college of Engineering & Technology

Approved By AICTE, New Delhi, Recognized by UGC under 2(f) & 12(B),
An ISO 9001:2015 Certified Institution and Affiliated to JNTUA, Antapuramu.

Yerrakota, Yemmiganur-518360, Kurnool Dt., AP

About the Department:

ECE is the engineering course to learn about electronics and communications. Its implementation is wide spread, and it is almost found in all streams. Sporty presents this course backed up with stellar teaching performance and high end labs.

The beauty of electronics is it is used everywhere. From electronic goods manufacturer to hospitals, it is implemented in many devices. So, the future for this stream is highly positive.

The microprocessors, mother boards, picture tubes, LED, LCD, etc. are various electronic items, and you know about the impact they have created on billions of people and world's economy. You can be a part of this huge niche by getting into ECE at the engineering level.

Apart from the electronics, you also have communications in this engineering. It is important in industries like telecommunications, posts & telegraph, defense, etc. The communications department is very crucial for important aspects, like country protection, etc.

The Department of ECE was established in 2001 with an intake of 60 students in the UG program.

The ECE department offers Undergraduate programs. Electronics & Communication Engineering is one of the rapidly advancing fields in technological development arena with emerging ideas. The department aims at training students advanced cutting edge technologies and imparts values so that they are equipped to deal successfully any challenges in life, by exploring and creating new avenues. Students are taught to recognize their potential & use it for their best advantage. Our students are performing well in academics and they are encouraged in R&D activities and publishing papers in journals. They are participating in symposiums and seminars in various colleges and universities. They won the prizes in these events.

Department Vision:

To impart Technical education to the rural students and making them employable in the respective domain

Department Mission:

- 1. Up gradation of laboratories with state of the art equipment as the right tools of pedagogy for better lesson delivery
- 2. Providing bridge classes for average and slow learners.
- 3. Arranging interactive sessions with industries and thereby enhance the practical knowledge and technical skills of the student.

Program Outcomes(POs):

- 1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
- 4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Program Specific Outcomes(PSOs):

1. Should be able to understand the concepts of Electronics & Communication engineering and their applications in the field of semiconductor technology, consumer electronics, embedded system, communication/ networking and other relevant areas.
2. Should have an ability to apply technical knowledge and usage of modern hardware and software tools related to Electronics & Communication engineering for solving real world problems.

Program Educational Objectives (PEOs):

1. Graduates will be able to stimulate continuing education with their existing knowledge in the field of Electronics and Communication Engineering.
2. Prepare graduates to practice their profession with ethics, integrity, and social responsibility in a global context.
3. Participate in lifelong learning activities to continue their professional development.

Faculty Development Programs:

- Dr H Devanna has participated in One Week Faculty Development Program on Online Teaching Etiquette and Best Practices from 10-05-2020 to 15-05-2020, Organized by Santhiram Engineering College, Nandyal in collaboration with Talentio Solutions India Pvt. Ltd., Hyderabad.
- Mr C Bhargav has participated in One Week Faculty Development Program on Online Teaching Etiquette and Best Practices from 10-05-2020 to 15-05-2020, Organized by Santhiram Engineering College, Nandyal in collaboration with Talentio Solutions India Pvt. Ltd., Hyderabad.
- Mr T Chakrapani, has participated in one week Faculty Development Program on Recent Trends in Electronics Industry (RTEI 2020) held during 18.05.2020 to 23.05.2020 Organized by Department of ECE Annamacharya Institute of Technology and Science, Rajampet.
- Mr CHENNAIAH has participated in One Week Faculty Development Program on Online Teaching Etiquette and Best Practices from 10-05-2020 to 15-05-2020, Organized by Santhiram Engineering College, Nandyal in collaboration with Talentio Solutions India Pvt. Ltd., Hyderabad.

Faculty Publications:

- Mr B Venkatesh and Ms M Swathi’ Fully Reconfigurable Waveguide Bragg Gratings For Programmable Photonic Signal Processing”, Positif Journal, Vol 21, Issue 6, 2021.

Events:

- Expert Mr S Baba Fakruddin , Hyderabad has given lecture on Digital Signal Processing which helps students to gain knowledge in this domain.
- Students have participated in various extra and cocurricular activities with in the college and outside the college also.

Editorial Members	
Chairman:	Sri A V Ramana Reddy
Secretary:	Sri A V Parvath Reddy
Director:	Sri K Ramapulla Reddy & Smt K Anasuya
Principal:	Dr V Veeranna
HOD:	Dr K Sudhakar
Faculty Editors:	Mr T Chakrapani, Associate Professor Ms P Rama Thulasi, Assistant Professor
Student Editors:	Ms K Sai Pranavi, Mr D Ahmed Aswaq Ms K Lavanya Mr K Sai Balaji



About the College

St. Johns College of Engineering Technology, the pride of Yemmiganur town, was established in the year 2001. Seven kilometers away from the Yemmiganur town, the college campus nestles amidst lush and luxuriant greenery in a sprawling 27 acres land. The College has spacious, well ventilated, well equipped, and well furnished Laboratories, Workshops, Class Rooms, Drawing Halls, Hostels and a well stocked Central Library in addition to departmental libraries.

The college is affiliated to JNTUA, Anantapur and it is approved by AICTE, New Delhi and the Government of Andhra Pradesh. Beginning with a modest intake of 180 students in 4 branches in 2001, the college has grown in size and infrastructure to admit 540 students in 6 branches of B.Tech. Responding to the demand for Post Graduate courses in engineering, Management and Computer Applications, the college has started M.Tech Courses in 9 Specializations, and offer MBA course.

College Vision:

1. To be a preferred technical institution by the first generation learners from rural background.
2. The institute in turn will holistically elevate the students into technically strong and ethically sound individuals thereby moulding characters and career.
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Engage all the stake holders and utilize the infrastructure to develop technically sound employable human resources to translate our vision into a reality.

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Faculty Development Programs:

- Mr Chennaiah has participated in One Week virtual Faculty Development Program on “Emerging Techniques in biomedical Instrumentation-EBIT-2021” from 28.06.2021 to 03.07.2021, Organized K L University Vijayawada.
- Mr. U RAJESH from St.Johns College of Engineering & Technology, Yemmiganur has attended AICTE Sponsored Six Days Online Short Term Training Programme-I on “COGNITIVE RADIO-WIRELESS SENSOR NETWORKS: APPLICATIONS, CHALLENGES AND RESEARCH TRENDS” organized by Department of Electronics and Communication Engineering, Vivekanandha College of Engineering for Women (Autonomous) from 27.4.2021 to 02.05.2021.
- Mr Syed Ahmed Basha has successfully participated in one week international virtual FDP on “Emerging Trends in Biomedical Instrumentation –ETBI-2021” from 28 June 2021 to 3 July 2021 at KL University.

Faculty Publications:

- Dr H Devanna and Mr Mahaboob Basha” Double Slot Antenna For Microwave Thermal Ablation To Treat Bone Tumors: Modeling And Experimental Evaluation”, ResMilitaris, vol.11, 1 ISSN: 2265-6294 Spring (2021)

Events:

- Experts Mr Arun Kumar and S Mahaboob Basha has given lectures on Optical fibers and its applications and VLSI Technology which helps students to become strengthen their skills in these domain.
- Students have participated in various extra and cocurricular activities with in the college and outside the college also.

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