SANTHIRAM ENGINEERING COLLEGE
(AUTONOMOUS)
Nandyal - 518501, Nandyal Dist., Andhra Pradesh
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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SPECTRUM

Signals of Innovation, Waves of Excellence

ECE DEPARTMENT NEWSLETTER | VOL. 2 | ISSUE 4 | AY 2022-23 | APR-JUNE 2023

IGNITING IDEAS, EMPOWERING FUTURES.

Driving innovation in Electronics & Communication Engineering for a smarter, connected tomorrow.



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VOL. 2 | ISSUE 4 | AY 2022–23 | APR–JUNE 2023



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EDITORIAL BOARD

Chief Editor
Dr. Y. Mallikarjuna Rao

Student Coordinator
B. LASYAPRIYA

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Department of ECE

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
Santhiram Engineering College (Autonomous), Nandyal

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ABOUT THE COLLEGE



Santhiram Engineering College (SREC), Nandyal, sponsored by M/s Sri Shirdi Sai Educational Academy, was established in 2007 under the able guidance of Dr. M. Santhiramudu, Chairman, with the noble motto "Education for Peace and Progress." The institution is autonomous from the academic year 2023–24 and is accredited by NAAC with Grade A (3.2/4.0) and by NBA for its B.Tech. programmes in ECE and CSE. Approved by AICTE, New Delhi, recognised by UGC under Sections 2(f) and 12(B), and permanently affiliated to JNTUA, Ananthapuramu, SREC is also a recognised research centre and spot evaluation centre of JNTUA. Spread across a serene 10.5-acre green campus, the college offers digitally equipped classrooms, state-of-the-art laboratories, quality research, publications, patents, funded projects, excellent placement opportunities, and secure hostel facilities for both boys and girls. With 19 years of academic excellence, University Gold Medals, State Prathibha Awards, and a wide range of undergraduate, postgraduate, MBA, and MCA programmes, SREC continues to nurture competent, innovative, and socially responsible professionals.



VISION

To become a nucleus for pursuing technical education and pool industrial research and developmental activities with social-conscious and global standards.



MISSION

To provide Advanced Educational Programs and prepare students to achieve success and take leading roles in their chosen fields of specialization by arising a self-sustained University.

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ABOUT DEPARTMENT



Anticipating the growing importance of electronics and wireless communication in modern society, the Department of Electronics and Communication Engineering was established in 2007 with a vision to impart quality technical education and nurture innovation among young minds. The department began with an initial intake of 60 students, which was increased to 90 in 2008 and further to 120 in 2009, reflecting the rising demand for skilled electronics and communication engineers. To meet the expanding needs of the industry and academia, the department introduced a Master of Technology (M.Tech) program in VLSI System Design in 2011 with an intake of 18 students, recognizing the immense potential in the area of Very-Large-Scale Integration (VLSI) design. In tune with the advancements in embedded technology and its applications, a new postgraduate program. The department's B.Tech-ECE program has been accredited by the National Board of Accreditation (NBA) for a period of three years, from the academic year 2023–24 to 2025–26, in recognition of its robust academic framework, quality teaching, and outcome-based education.

VISION

Emerge as a centre for quality education in Electronics & Communication Engineering to create competent professionals

MISSION

1. Offer quality programs in Electronics & Communication Engineering aimed at fulfilling the needs of society and industry.
2. Impart skills and develop scientific temper to solve complex technological problems of current times.
3. Nurture ethics, talent, and entrepreneurship to inculcate professional development of students.

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PROGRAMME OUTCOMES (POs) & PSOs

1. **PO1: Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals, and ECE specialisation to solve complex engineering problems.
2. **PO2: Problem Analysis:** Identify, formulate, review research literature, and analyse complex engineering problems to reach appropriate conclusions.
3. **PO3: Design and Development of Solutions:** Design solutions for complex engineering problems and develop system components or processes that meet specified needs, considering public health, safety, culture, society, and the environment.
4. **PO4: Conduct Investigations:** Use research-based knowledge and methods, including experimentation, analysis, and interpretation of data, to obtain valid conclusions.
5. **PO5: Modern Tool Usage:** Create, select, and apply suitable techniques, resources, and modern engineering and IT tools for modelling, analysis, and solution of complex engineering problems.
6. **PO6: Engineer and Society:** Apply contextual knowledge to assess societal, health, safety, legal, and cultural issues related to professional engineering practice.
7. **PO7: Environment and Sustainability:** Understand the impact of engineering solutions in societal and environmental contexts and demonstrate awareness of sustainable development.
8. **PO8: Ethics:** Apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice.
9. **PO9: Individual and Team Work:** Function effectively as an individual and as a member or leader in diverse and multidisciplinary teams.
10. **PO10: Communication:** Communicate effectively with the engineering community and society through reports, documentation, presentations, and clear technical communication.
11. **PO11: Project Management and Finance:** Demonstrate knowledge of engineering and management principles and apply them in individual and team work to manage projects effectively.
12. **PO12: Life-Long Learning:** Recognise the need for and engage in independent and life-long learning to adapt to technological changes.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

- **PSO1:** Apply the principles of electronic devices, circuits, embedded systems, VLSI, and communication engineering to design, analyse, and implement electronic systems.
- **PSO2:** Design and develop solutions in analogue and digital communication, wireless networks, signal processing, and related applications using modern tools.
- **PSO3:** *Develop innovative, sustainable, and industry-oriented solutions through research, teamwork, ethical practice, and continuous learning in emerging areas of Electronics and Communication Engineering.*

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MESSAGES

CHAIRMAN'S MESSAGE



It gives me immense pleasure to present SPECTRUM, the newsletter of the Department of Electronics and Communication Engineering. It reflects the academic achievements, innovative activities, research contributions, and creative spirit of our students and faculty members.

I appreciate the efforts of the Department of ECE in nurturing competent professionals through quality education, innovation, and value-based learning. I extend my best wishes to the editorial team, faculty members, and students for the continued success of SPECTRUM.

Chairman

MANAGING DIRECTOR'S MESSAGE



I am delighted to share my message for SPECTRUM, the newsletter of the Department of Electronics and Communication Engineering. This publication is a proud reflection of the department's commitment to academic excellence, innovation, research, and student development.

I encourage students to make the best use of the opportunities provided by the institution, strengthen their technical knowledge, and develop the skills needed to serve society with responsibility and confidence. I convey my best wishes to the faculty, students, and editorial team.

Managing Director

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MESSAGES

PRINCIPAL'S MESSAGE



It gives me immense pleasure to present SPECTRUM, the newsletter of the Department of Electronics and Communication Engineering. The newsletter reflects the academic achievements, innovative activities, research contributions, and creative spirit of our students and faculty members. I encourage students to pursue knowledge with curiosity, discipline, integrity, and a commitment to excellence. I appreciate the Department of ECE for nurturing competent professionals through quality education, innovation, and value-based learning. My best wishes to the editorial team, faculty members, and students for the continued success of SPECTRUM.

Principal

HoD'S MESSAGE



I am delighted to share my message for SPECTRUM, the newsletter of the Department of Electronics and Communication Engineering. This publication reflects our department's commitment to academic excellence, innovation, research, and student development. We aim to provide a strong learning environment that enables students to build sound technical knowledge, problem-solving ability, professional ethics, and confidence. I encourage every student to participate actively in academic, research, and co-curricular activities. My best wishes to all faculty members, students, and the editorial team.

Head of Department

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PROGRAMS ORGANISED

1 Digital Circuits Simulation Using LOGISIM

27 March–3 April 2023

The Department of ECE conducted an add-on programme with Dr. Y. Mallikarjuna Rao, Dr. Shivnath and Mr. N. Srinivasa Rao as resource persons.

Completed in April; commenced in the previous quarter.

2 AWS Cloud Computing

17–21 April 2023

The Department of ECE organised a certificate programme with Dr. M. Surya Bhupal Rao, CVREC, Hyderabad, as the resource person.

3 Design and Verification of Digital Circuits Using VERILOG/VHDL

17–21 April 2023

Mr. S. Rambabu and Mr. S. Girish Babu of the Department of ECE conducted an industrial training programme.

FACULTY ACHIEVEMENTS

Dr. Y. Mallikarjuna Rao, Professor, received the **Best Paper Award** from Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, on 20 May 2023.

FACULTY DEVELOPMENT AND PARTICIPATION

1. **Mr. K. Vinod Kumar,** Assistant Professor
   Data Science and ChatGPT FDP | 15–19 May 2023
   Organised by KL University.

2. **Mr. K. Vinod Kumar,** Assistant Professor
   Data Science and its Engineering Applications FDP | 22–26 May 2023
   Organised by Hindusthan College of Engineering and Technology, Coimbatore.

COMPLETED IN APRIL • COMMENCED IN THE PREVIOUS QUARTER

3. **Mr. B. Alekya Himabindu,** Assistant Professor
   Blockchain Technology FDP | 27 March–2 April 2023
   Make Skilled, Hyderabad.

4. **Ms. N. Jyothsna,** Assistant Professor
   Embedded Systems Masterclass | 27 March–27 April 2023
   Pantech e-Learning Pvt. Ltd., Chennai.

5. **Mr. K. Vinod Kumar,** Assistant Professor
   NPTEL FDP: Internet of Things | 2 February–20 April 2023
   IIT Kharagpur.

6. **Mr. M. Mahesh Kumar,** Assistant Professor
   NPTEL FDP: Internet of Things | January–April 2023.

7. **Mr. S. Feroz Shah Ahmed,** Assistant Professor
   Certified in NPTEL FDP: Optical Wireless Communications for Beyond 5G Networks and IoT | January–April 2023.

8. **Mr. S. Munawwar,** Assistant Professor
   NPTEL FDP: Introduction to Machine Learning | January–April 2023.

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FACULTY DEVELOPMENT AND PARTICIPATION

Generating Research: Tools and Techniques

One-day Faculty Development Programme | 23 May 2023

Organised by IQAC and the Dean of Faculty Affairs, in association with IIC, Santhiram Engineering College, Nandyal.

Participants

9. **Dr. Y. Mallikarjuna Rao**
   Professor
10. **Ms. B. Alekya Himabindu**
    Assistant Professor
11. **Dr. G. Sowmya**
    Associate Professor
12. **Ms. V. Nagamani**
    Assistant Professor
13. **Ms. N. Jyothsna**
    Assistant Professor
14. **Mr. S. Girish Babu**
    Assistant Professor
15. **Mr. S. Rangaswamy**
    Assistant Professor
16. **Mr. K. Pedda Obulesu**
    Assistant Professor
17. **Mr. M. Mahesh Kumar**
    Assistant Professor
18. **Mr. S. Feroz Shah Ahmed**
    Assistant Professor
19. **Mr. K. Vinod Kumar**
    Assistant Professor
20. **Mr. N. Sreenivasa Rao**
    Assistant Professor

FACULTY PATENTS | MAY 2023

1. **Dr. M. V. Subramanyam**
   IoT Based Farm Protection From Animals and Human Theft Using ESP32 with Camera Module
   Published in May 2023.
2. **Dr. Sowmya Galli**
   Design and Implementation of Automatic Agricultural Robot-Agribot
   Released in May 2023.
3. **Mr. N. Sreenivasa Rao**
   Development of an LPG Monitoring and Automatic Cylinder Booking System Based on Wireless Sensor Network
   Submitted in May 2023.
4. **Mrs. V. Nagamani**
   IoT Based Smart Fish Farming Aquaculture Monitoring System
   Published in May 2023.

FACULTY PUBLICATIONS

1. **Dr. Y. Mallikarjuna Rao**
   Efficient Feature Extraction for Recognition of Human Emotions through Facial Expressions Using Image Processing Algorithms
   E3S Web of Conferences | ICMED–ICMPC 2023 | June 2023.
2. **Dr. Y. Mallikarjuna Rao**
   Improving the Accuracy in Lung Cancer Detection Using NN Classifier
   E3S Web of Conferences | ICMED–ICMPC 2023 | June 2023.
3. **Dr. Y. Mallikarjuna Rao**
   Performance analysis of 4-bit ternary adder and multiplier using CNTFET for high speed arithmetic circuits
   E3S Web of Conferences | ICMED–ICMPC 2023 | June 2023.
4. **Dr. Y. Mallikarjuna Rao**
   Performance analysis of Ternary Adder and Ternary Multiplier without using Encoders and Decoders
   E3S Web of Conferences | ICMED–ICMPC 2023 | June 2023.
5. **Dr. Y. Mallikarjuna Rao**
   Performance evaluation of SRAM design using different field effect transistors
   E3S Web of Conferences | ICMED–ICMPC 2023 | June 2023.
6. **Dr. Y. Mallikarjuna Rao**
   Adaptive leaf abnormality segmentation and improved plant disease classification by tuned long short-term memory with recurrent neural network
   Concurrency and Computation: Practice and Experience | Wiley | June 2023.
7. **Dr. Sowmya Gali**
   Automatic Image Captioning System Using A Deep Learning Approach
   Soft Computing | Vol. 27, Issue 16 | May 2023.
8. **Dr. Sowmya Gali**
   Capacity trust assessment for multi-hop routing in wireless sensor networks
   E3S Web of Conferences | ICMED–ICMPC 2023 | June 2023.
9. **Dr. Shivnath Choudari**
   A novel data driven technique to produce multisensory virtual responses for gas sensor array based electronic noses
   Journal of Electrical Engineering | Vol. 74, Issue 2 | May 2023.

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FACULTY PUBLICATIONS

10. Medical Image fusion based on Multi-scale Decomposition using hybrid deep learning network model

Mr. S. Munawwar

Soft Computing | Vol. 27, Issue 16 | ISSN 1432-7643 | May 2023.

11. Information Technology for cyber security

Dr. Sowmya Gali

Cosmas Scientific Publications | ISBN 978-81-963112-7-8 | May 2023.

STUDENT JOURNALS AND CONFERENCES

1. An IoT Based Smart Efuel Station Using ESP32

B. Surendra, K. Govardhan, A. Madhava Reddy, B. Mallikarjuna, P. Sayyed Basha, Dr. Y. Mallikarjuna Rao (Professor).

IJPREMS | Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

2. Smart home applications by using electricity dispatch

S. Ganesh Goud, K. Jaya Chandra, K. Azurhussain, S. Prasanna Kumar, Dr. S. N. Chaudhri (Associate Professor).

IJPREMS | Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

3. Design and Implementation of Automatic Agricultural Robot – Agrobot

K. Sai Raga Apekshitha, T. Tejasree, D. Divya, K. Naga Prabhavathi, S. Sumedha, Dr. G. Sowmya (Associate Professor).

IJRPR | Vol. 4, Issue 4 | ISSN 2582-7421 | April 2023.

4. Automatic Railway Gate Control System

S. Mahesh, B. Sai, B. Katam Madhukumar, G. K. Ashok, S. M. Musharaff, Mr. S. Rambabu (Assistant Professor).

IJPREMS | Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

5. Embedded IoT Car Parking And Billing System

J. Indrani, Y. Kasthuri, K. Jyothika, V. Priyanka, Mr. S. Munawwar (Assistant Professor).

IRJMETS | Vol. 5, Issue 4 | ISSN 2582-5208 | April 2023.

6. Development of IoT Based Air Pollution Monitoring System

C. Venkatasubbaiah, D. Fayaz, R. Lokesh Kumar, P. Manoj Kumar, Mr. N. Sreenivasa Rao (Assistant Professor).

IJRPR | Vol. 4, Issue 4 | ISSN 2582-7421 | April 2023.

7. IoT based Vehicle Tracking and RFID Access System

M. Vineela, S. Bhavani, B. Vyshnavi, V. Srilekha, Ms. V. Nagamani (Assistant Professor).

IRJMETS | Vol. 5, Issue 4 | ISSN 2582-5208 | April 2023.

8. Automatic Irrigation system using soil moisture sensor and temperature sensor

M. Tharunika, Y. Varalakshmi, P. Jyotshna, N. Nagavasundhara, N. Haritha, Ms. B. Alekya Himabindu (Assistant Professor).

IJSREM | Vol. 7, Issue 4 | ISSN 2582-3930 | April 2023.

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8. Automatic Irrigation system using soil moisture sensor and temperature sensor

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STUDENT JOURNALS AND CONFERENCES (CONTINUED)

9. Alcohol Based Engine Locking System Using IoT and GSM

A. Venkatasai, P. Sai Sandeep, K. Pavansai, S. Althaf, Mr. S. Girish Babu (Assistant Professor).

IJRPR | Vol. 4, Issue 4 | ISSN 2582-7421 | April 2023.

10. IoT Based Automatic Fire Detection and Precautionary System

S. Charandeep Reddy, K. Sai Prasad, B. Jagadeesh, Shaik Shahid, B. Riyaz Basha, Mr. M. Mahesh Kumar (Assistant Professor).

IJRPR | Vol. 4, Issue 4 | ISSN 2582-7421 | April 2023.

11. Tracking Sun Path And Voltage Monitoring System

B. Lasya Priya, B. Bhavani, K. Vyshnavi, K. Prathyusha, Ms. N. Jyothsna (Assistant Professor).

ISJEM | Vol. 2, Issue 4 | ISSN 2583-6129 | April 2023.

12. IoT Based Smart Security and Home and Messaging System

G. Sai Ganesh, A. Tejeswar Reddy, S. Bharath Reddy, S. Deepak Kumar, N. Sai Akhil, Mr. K. Pedda Obulesu (Assistant Professor).

IJPREMS | Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

13. IoT Based Waste Management System

M. Purushotham Reddy, B. Nagaseshaiah Setty, B. Sai Kumar, M. Subhahan, S. M. Mehathab, Mr. K. Vinod Kumar (Assistant Professor).

IJARST | Vol. 13, Issue 4 | ISSN 2457-0362 | April 2023.

14. IoT Based SCADA System For A BTS Site Monitoring System

Y. Tej Kumar, R. Venkatesh, A. Hari Krishna, V. Krushi, Mr. S. Ferozsha Ahammed (Assistant Professor).

IJPREMS | Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

15. IoT Based Vehicle Tracking Safety Monitoring System

M. Kiran Kalyan, D. Hussain Vali, P. Dinesh, Valmiki Mallikarjuna, K. Naga Manikanta, Mr. S. Rangaswamy (Assistant Professor).

IRJMETS | Vol. 5, Issue 4 | ISSN 2582-5208 | April 2023.

16. IoT Based Farm Protection From Animals And Human Theft Using ESP32 With Camera Module

S. Safiya Thasleem, Y. Sravani, K. Lakshmi Chaitanya, N. Swetha, K. Poojitha, Dr. M. V. Subramanyam (Professor).

IRJMETS | Vol. 5, Issue 4 | ISSN 2582-5208 | April 2023.

Journal Abbreviations:

IJRPR	—	International Journal of Research Publication and Reviews
ISJEM	—	International Scientific Journal of Engineering and Management
IJPREMS	—	International Journal of Progressive Research in Engineering Management and Science
IJARST	—	International Journal for Advanced Research in Science & Technology
IRJMETS	—	International Research Journal of Modernization in Engineering Technology and Science
IJSREM	—	International Journal of Scientific Research in Engineering and Management

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STUDENT JOURNALS AND CONFERENCES (CONTINUED)

17. Auto Railway Platform Control Using Sensors

P. Lokesh, U. Venkata Manohar, J. Madhan Mohan Reddy, Y. Venkata Akhil Kumar Reddy, P. Fayaz Khan, Dr. Y. Mallikarjuna Rao (Professor).

International Journal of Progressive Research in Engineering Management and Science (IJPREMS)
Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

18. Early Detection Of Flood Monitoring And Alerting System To Save Human Lives

C. Subodh Kumar, M. Lokesh, B. Saluvappa, S. Farook Basha, J. Mani Shankar Rao, Dr. S. N. Chaudhri (Associate Professor).

International Journal of Progressive Research in Engineering Management and Science (IJPREMS)
Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

19. IoT Based Real Time Health Monitoring System

V. Manasa, N. Geethalakshmi, B. Poojitha, B. Preethi Sai, Y. Tarakeswari, Dr. G. Sowmya (Associate Professor).

International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)
Vol. 5, Issue 4 | ISSN 2582-5208 | April 2023.

20. An Arduino Based Automated Vehicle Accident Detection

K. Mahesh, M. Dilip Kumar, K. Sai Kumar, E. Mahith, M. Chinna Sai Dastagiri Reddy, Mr. S. Rambabu (Assistant Professor).

International Journal of Progressive Research in Engineering Management and Science (IJPREMS)
Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

21. Implementation Of Smart Remote For Disabled People

S. Ruksana, P. Lakshmi Lavanya, M. Lakshmi Saraswathi, K. Jahnavi, R. Anjali, T. Nagamani (Assistant Professor).

International Journal of Progressive Research in Engineering Management and Science (IJPREMS)
Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.

22. Development of A LPG Monitoring And Automatic

B. Yashaswini, R. Rajitha, M. Gowthami, E. Dhakshayani, N. Vinnila Reddy, Mr. N. Sreenivas Rao (Assistant Professor).

International Journal of Progressive Research in Engineering Management and Science (IJPREMS)
Vol. 3, Issue 4 | ISSN 2583-1062 | April 2023.
Title retained as supplied; appears incomplete

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