



**S.V. COLLEGE OF ENGINEERING TIRUPATI**

# **COMMUNIQUE**

**VOLUME- 25**

**--- News Letter---**

**July-Dec- 2024**



## **Department of Electronics and Communication Engineering**



**Email: [hod\\_ece@svce.edu.in](mailto:hod_ece@svce.edu.in) | Website: [svce.edu.in](http://svce.edu.in)**

# **Electronics and Communication Engineering**

## **Vision and Mission of the Department**

### **Vision**

- To be a focal centre for academic excellence in competing global standards and dynamics in the field of Electronics and Communication Engineering with research and services focusing on effective communication skills, entrepreneurial, ethical and social concern.

### **Mission**

- To impart quality technical education in Electronics and Communication Engineering with well established infrastructure, state- of- the art laboratories, core instructions and cognizant faculty.
- To prepare the young and dynamic Electronics and Communication Engineers professionally deft and intellectually adept with knowledge, behavior and information competency.
- To enable the learners for Changing Trends in the field of Electronics and Communication Engineering with a focus on career guidance, placements and higher education by Industry-Institute relationship.

## **PROGRAM EDUCATIONAL OBJECTIVES**

**PEO1-** Graduates should be cognizant in basic science, fundamental engineering stream along with core related domains in ECE and Allied fields.

**PEO2-** Graduates should understand issues related to design, problem solving, and intellectually adept with knowledge, behavior and information competency.

**PEO3-** Graduates should demonstrate their technical, communication, research, aptitudes along with leadership skills in professional environment to empower employability, higher education and entrepreneurs successfully through industry-institute interaction.

**PEO4-** Graduates should be motivated with high ethical, human values and team work towards development of the society.

## **About Dept. of ECE**

- Electronics and communication engineering has emerged as the major driving force behind the present day Information Technology revolution acting as a bridge between different disciplines of engineering and technology.
- It has penetrated into other prominent sectors such as health care, instrumentation, agriculture, automation, signal processing, remote sensing etc.,
- The recent developments such as IoT and Artificial Intelligence and the mercurial advancements in the field of communications, such as 5G, highlight the need for talented graduates who can assist their organizations in working with and manufacturing new technologies.

# Principal's Message



I have great pleasure in conveying my best wishes to the Dept. of ECE for releasing the newsletter **"COMMUNIQUE"** which brings the students and teachers of various disciplines on a common platform to share and display their ideas and creative talents, I wish all the students who have involved in bringing out the newsletter for their greater success and career ahead.

**Dr. N.SUDHAKAR REDDY, ME, Ph.D, FIE, MISTE.**  
**PRINCIPAL**

## HOD's Message



The Department of Electronics and Communication Engineering has been providing Excellent Opportunities for the students to explore & exhibit their academic , Co-curricular & Extra-curricular activities.

This newsletter is an attempt to highlight the achievement of the department, in spite of the space constrain we have showcased the best and look forward to have more in the future on a quarterly editions. I wish good luck to the entire team of editors and look forward for your kind patronage to our newsletter **"COMMUNIQUE"**.

**Dr.D SRINIVASULU REDDY, M.Tech, Ph.D**

**HOD ECE, SVCE Tirupati.**

## CONFERENCES / SEMINARS/FDPS

- Department of ECE in association with DSIR organized a national conference on “Chip design and IoT Applications “on 30-31 August 2024. Dr.Harikrishnan ,CEO, Nano chip solutions, Bengaluru being the chief guest and Dr. Cyril Prasanna Raj as Guest of Honor during inaugural session.60 papers were presented during conference and keynote addresses were arranged with domain experts.
- Department of ECE in association with DST-SERB organized a National seminar on “Emerging Technologies in VLSI Chip Design: Neuromorphic Computing and Quantum Computing” Resource Persons are Dr. Cyril Prasanna Raj, Professor in ECE, Cambridge Institute of Technology, Bangalore. Dr. B. Chandrababu Naik, Assistant Professor, NIT, Trichy. Dr. Vikramkumar Pudi, Assistant Professor, IIT, Tirupati. Mr. Arjun Nag, Design Verification, Engineer, TCS, Hyderabad.
- Department of ECE in association with IEEE Comsoc and SPS chapter organized guest talkon “Why Choose IEEE Society” on 19th & 20th August 2024. Resource Person being Mr. Gourav Pathak, Program Facilitator Unity LLP Mangalore.
- Dr. S. Salma, Assistant Professor, Department of ECE got approval to organize a special session titled “Advancements in AI, IIOT and Automation for sustainable power And Electrical Systems” in 2025 IEEE 1st International conference on Smart and sustainable developments in Electrical engineering (SSDEE-2025) to be held during 28th Feb -2nd March 2025 at IIT(ISM), Dhanbad, India.



- Dr. V Madhurima, Associate Professor and Dr. C Raju, Professor ECE Department received grant in aid of Rs 1,00,000/- to organize a seminar on “AI driven VLSI Design and signal Processing” under “assistance to professional bodies & seminar /symposia Scheme” on 04-09-2024 & 05-09-2024.
- Dr. T Sudhakar Reddy, Assistant Professor got acceptance for publication of paper entitled “Root Free annihilating filter method for sparse signal reconstruction” in SCI Journal Circuits Systems and Signal Processing(CSSP) with manuscript ID-CSSP-D-24-00573R1 on 06-09-2024.
- Dr. K Upendra Raju, Associate Professor published a paper entitled “An Improved performance of reversible data hiding in encrypted images using decision tree algorithm” in SCI Journal Engineering applications of Artificial intelligence vol. 137.
- A Two Day Seminar on “AI-Driven VLSI Design and Signal Processing” sponsored by DST-SERB is being organized by department of ECE on 04-10-2024 & 05-10-2024.
- Dr. K Upendra Raju, Professor in ECE Dept published a paper on “An improved performance of reversible data hiding in encrypted images and using decision tree algorithm” in Engineering applications of Artificial Intelligence-Elsevier Journal in Dec 2024.
- Dr. K Upendra Raju, Professor in ECE Dept published a paper on “A writer adaptation approach to online signature verification through feature clustering and classifier selection” in IEEE transactions in Dec 2024.

- Department of ECE in association with R & D organized an a guest talk on “Research and Development Proposal-Insights” for the faculty of various departments on 23-07-2024. The resource person being Dr. Muruganantham, Professor in EEE, M. A. M College of Engineering & Technology, Tirucunapalli-621105.



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## **CO-CURRICULAR ACTIVITIES**

- 1st Graduation day for 2024 passed out batch has been conducted in SVCE campus in grand manner. Over 500 students received Graduation awards and 7 students received Gold medals for their outstanding performance in academics from Honourable Vice Chancellor of JNTUA Prof. H Sudarsana Rao, Anantapur. Chief guest being Prof. Budda Chandrasekhar Chief coordinating officer ,AICTE, Ministry of Education, New Delhi. AICTE and Dr. M Venkateswar Rao, Principal Kalikiri JNTU Nominee.
- 1st Year orientation session has been organized by department of ECE on 09-08-2024. The chief guest for the session is Dr. Sri Adhibathla Sredevi, Professor VIT Vellore.
- Mr. Vedla Poorna Chandra, 2017 batch passed out alumni presented a seminar on “Expectations of engineers for a developing society” on 21-08-2024 for I ECE students.
- Ms. Deepthi, Alumni of SV colleges has been invited to have an interacting session and guest talk on “Future of Software engineering in recession scenario” on 24-08-2024.
- Department of ECE in association with IETE/PACE conducted technical events like painting, essay writing, JAM, etc., on the occasion of NATIONAL SPACE DAY on 23-08-2024.
- Department of ECE in association with IETE/PACE conducted Inauguration session of technical associations on 21-09-2024.

## CO-CURRICULAR ACTIVITIES

- Department of ECE in association with ISRO-SHAR Centre organized World Space Week 2024 on 07-08-2024 & 08-08-2024. Various competitions were organized as part of it Like Elocution, Proto type modelling, Quiz. ISRO authorities presented Videos and Rocket Models on this occasion and students are enlightened with space technologies by expert lectures.
- A Guest Lecture is being organized by Department of ECE for II ECE on Digital Circuit Design by Dr. K.Ravindranth, Research Consultant, Hyper Zebras, Bangalore on 04-10-2024.
- An Industrial visit to ISRO-SHAR is organized for II and III ECE students and faculty on 10-10-2024.
- III ECE students went for industrial visit to SHAR Centre on 19-11-2024.
- III ECE students went for industrial visit to NARL, Gadanki on 22-11-2024.





## TRAINING PROGRAMS/WORKSHOPS

- The Department of ECE has organized an expert training session on “Awareness on how to Crack jobs in various sectors through GATE” on 23-08-2024. Mr. Trinath ACE Academy provided insights of how to prepare the students for the GATE Examination and Opportunities in public and private sectors.



## AWARDS & RECOGNITIONS

- Dr. S Salma, Assistant Professor, Department of ECE got approval to organize a special session titled “Transforming sustainable Energy through AI, IIOT and industrial connectivity in IEEE 1st International conference on Smart and sustainable developments in Electrical engineering (SSDEE-2025) to be held during 28th Feb-2nd March 2025 at IIT(ISM),Dhanbad, India.

- Dr. K Upendra Raju Associate Professor got appreciation for acting as a Reviewer for IEEE international conference CVMI ,IIIT ,Jhalwa U.P.
- Mr. M Srikar of III ECE, got IEEE SPS society best student volunteer award on the occasion of IEEE international Conclave-2024 held at Hyderabad.
- IEEE-SPS society connected with ECE department got Emerging chapter Award during IEEE international Conclave-2024 held at Hyderabad.



## **COMMUNITY ORIENTED ACTIVITIES**

- NSS Unit organized Mega blood donation camp in association with YOUNGISTHAN-Youth for Society, Tirupati on 25-10-2024. ECE students are also actively participated in this program.
- SVCE in association with Students Affairs Committee organized a cultural event by name Aaydha Pooja and Dandiya Event for staff and students as a part of DIVALI celebrations in the campus on 26-10-2024.

## OTHER ACTIVITIES

- All the faculty of ECE Department submitted Papers to Springer conference-AICCT 2024, MTEC, Palamaner, Chittoor Dist in July 2024.
- All the faculty of ECE Department submitted Papers to National conference on Chip design and IOT applications NCVCDIA-2024 Sponsored by DSIR, New Delhi.
- All the faculty of ECE Department participated in Teachers Day celebrations on 05-09-2024.
- Fresher's Day being organized for 2024-28 ECE Branch batch on 21-09-2024. I and II Year students participated in Cultural events.
- Faculty of ECE Department attended 3 day an FDP on "Design Thinking and Innovation" organized by department of CSM SVCE during 26-28 Dec 2004.







SV Colleges group was founded in 1981, based on the firm belief that education especially higher education provides a critical pathway to leadership development, economic progress, and social and political equality. Since its inception, the group has upheld a rigorous commitment to the curriculum and the programs that it offers. SV Colleges is a community where care, support and mutual respect flourishes. Our students are our first priority. We welcome you to join us and become yet another SV Colleges' success story. We empower our students to achieve professional and personal success by providing comprehensive educational experience, fostering critical thinking and encouraging lifelong learning. We are committed and dedicated to pursue excellence in our student's career by providing best in class education, training and skills necessary to become the future leaders. We train our students with the interpersonal and communication skills needed to thrive in the world beyond campus.