DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING

NewsLetter

JANUARY – JUNE , 2025

SRKR ENGINEERING COLLEGE (Autonomous)
Recognised as Scientific and Industrial Research Organisation

This issue

Brings you awareness about department activities done by staff and students.

ABOUT THE INSTITUTE

Sagi Rama Krishnam Raju Engineering College, established in 1980, is a self-financed academic institution of coeducation striving to provide a high-quality technical education to engineering aspirants. Being one of the premier and well-established technical institutions in the country, it continues to render service to the nation and the world at large with its alumni holding highly prestigious positions and making a substantial contribution. It is an autonomous Institution (UGC Approved) and permanently Affiliated with Jawaharlal Nehru Technological University Kakinada (JNTUK). The college is replete with lush coconut trees spanning across a plot area of 30 acres at China Amiram, Bhimavaram, on the Bhimavaram-Vijayawada state highway and it is also well-connected to all other places by road and rail transport. Over the years, the college has established itself as a premier institution imparting technical education of a very high standard leading to the B. Tech. degrees in 11 branches of engineering, P.G degrees in 6 specializations, and 7 Ph. D. programs. S.R.K.R. Engineering College was established with a mission to develop the institution into a world-class Centre of excellence in the field of technical education that fosters research and essentials of employability and strives for pre-eminence amongst the premier institutions with high commitment to the socio-ecological well-being of the nation.

CRUX 2K25 Hardware Expo

The **CRUX 2K25** event, a national-level hardware project expo, was conducted by the **IETE student forum** in the Electronics and Communication Engineering (E.C.E) Department at Sagi Ramakrishnam Raju Engineering College (SRKR Engineering College). Held on **April 4th**, the event provided a platform for students to showcase their innovative and technical skills. The expo featured over **50 teams and 200 participants**, with projects displayed across five different venues and judged in three levels: Beginners, Intermediate, and Advanced. The event, which ran from 9:30 AM to 6:30 PM, was seamlessly organized under the guidance of **IETE faculty adviser Dr. T.V. Hyma Lakshmi** and **IETE coordinator Dr. K.N.V. Satyanarayana**. **The college's Principal, Dr. K.V. Murali Krishnam Raju, and the Director, Dr. M. Jagapathi Raju**, visited all the presentations, appreciating the students' technical skills. Prizes were awarded to the 1st and 2nd place winners in all three levels, with the distribution handled by the **HOD, Dr. N. Udaya Kumar,** and other key faculty and judges. The event was a testament to the collaborative spirit and technical prowess of the students and was considered a success due to the commendable efforts of the organizers.

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TRANCE-2K25 Technical Symposium

The Electronics and Communication Engineering (ECE) Department successfully organized a **National Level Technical Symposium, TRANCE-2k25**, on **February 15, 2025.** The event was designed to be a dynamic platform for students from various engineering disciplines to interact, exchange knowledge, and showcase their innovative ideas—the symposium aimed to foster collaboration, creativity, and technological advancements. **The event's Chief Guest was Sri. Raghuram Voleti, Associate Vice President at MosChip, Bangalore**, delivered a keynote speech on **"Career Opportunities in Semiconductors and AI".**The symposium featured six main events: Techathon, Rivalry, Art Spark, NexGen, Caliber Clash, and Eloquence. More than **250 students** from various colleges participated in the competitions. The theme of TRANCE-2k25 was **"Right to Vote"**, emphasizing the importance of electoral participation and democratic responsibility. Overall, the event was a resounding success, achieving its goal of fostering technical excellence and societal awareness.

Expert Guest Lectures

On February 6, 2025, the Department of Electronics and Communication Engineering at Sagi Ramakrishnam Raju Engineering College hosted an **expert talk on Geospatial AI by Prof. Y.N. Krishna Murthy** is an esteemed **Adjunct Professor at IIT Tirupati, a former Director of IIRS & NRSC, and a former Scientific Secretary at ISRO**. He shared his deep expertise on the integration of Geoinformatics, IoT, and AI, explaining its transformative potential in fields like climate monitoring, urban planning, agriculture, and defense. The talk was held at the I-Block venue for **B.Tech third-year students and faculty**. Prof. Murthy also highlighted the vast career opportunities that Geospatial AI offers for young engineers and researchers. The session was immensely enriching, providing valuable insights into emerging technologies and the skills needed to succeed in the evolving tech landscape. His visionary outlook and passion for innovation inspired everyone in attendance.

On March 1, 2025, the Department of Electronics and Communication Engineering at Sagi Ramakrishnam Raju Engineering College organized a **guest lecture** on **"Strategies for Success in ECE & VLSI Domains"** for the B.Tech ECE students. The lecture was delivered by **Mr. Dinesh Mallula**, **AMS Application Engineer at Siemens EDA**. Mr. Mallula shared his career journey, emphasizing the importance of continuous learning and adaptability in the electronics industry. He provided valuable insights into emerging trends, career opportunities, and the essential skills required in the **ECE and VLSI sectors**. Key topics covered included **ASIC/FPGA design fundamentals, semiconductor fabrication, and AI-driven chip design**. The interactive session also addressed student questions about higher education, certifications, and job prospects. The event, held in the **Skill Development Lab (T-109)**, was well-received by both students and faculty for its practical approach and industry relevance.
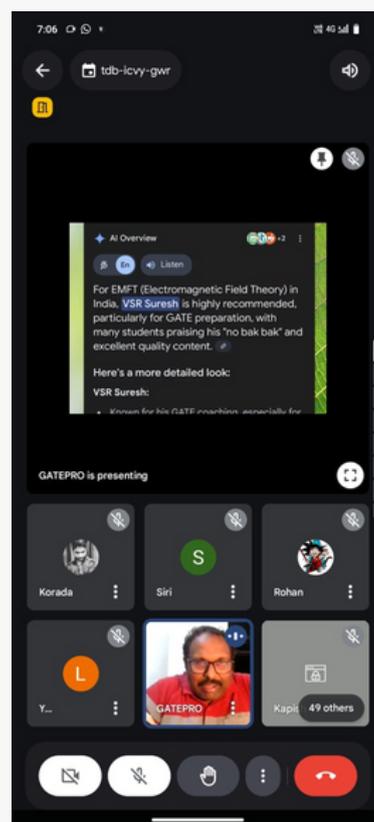
On March 27, 2025, a guest lecture on "GATE and career opportunities" was organized for students and faculty. The event was coordinated by Dr. K.N.V. Satyanarayana, an Assistant Professor in the Department of ECE.

The lecture's main objective was to offer guidance on GATE exam preparation, including strategies and motivational insights from an expert. A total of 80 participants attended the program. The guest speaker, Mr. Suresh VSR, is the Founder and Director of GATEPRO and has 24 years of teaching experience. He has worked with several well-known institutions, including Unacademy (2019–2022), Made Easy Delhi (2010–2019), and ACE Hyderabad (2009–2010). Mr. VSR holds a B.Tech in Electronics and Communication Engineering and an M.Tech in Computer Science. As a GATE trainer, he specializes in Electromagnetics, having delivered over 500 sessions and trained more than 400 students per batch across over 20 batches annually at Made Easy Delhi.

On April 15, 2025, the Department of Electronics and Communication Engineering (ECE) at S.R.K.R. Engineering College organized a guest lecture titled **"From Aspiration to Realization: A Civil Services Journey".** The event, held in the **Seminar Hall, featured Mrs. Mudda Suma, an alumna of the college** and **a current Assistant Commissioner of Police and Personal Security Officer (PSO) to the Vice President of India.** Mrs. Suma shared her inspiring career path, starting from her **B.Tech in ECE at SRKREC** to her various roles in both the private and public sectors, culminating in her selection for the prestigious **Civil Services in 2015**. She provided valuable insights into the **challenges** and **preparation strategies required for civil services,** emphasizing the importance of perseverance and self-discipline. The lecture was highly motivational for the **115 ECE students** who attended. An interactive **Q&A** session followed, where students were able to clarify their doubts and receive guidance on navigating the **UPSC journey**. The event concluded with a vote of thanks and a token of appreciation for the guest.
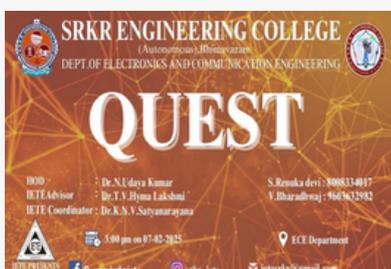

The PRE-QUEST and QUEST Events

The **PRE-QUEST** event was held on **February 5th** to prepare students for the main competition. The session provided knowledge on creating effective PowerPoint presentations following **IEEE standards**, including proper font size and slide ratios. It also included a demonstration of **effective presentation techniques**, covering body language, gestures, and maintaining a confident presence. Some students even had the opportunity to **practice their presentation skills and clarify their doubts**. According to student feedback, the session was both effective and valuable.

The **main event, QUEST**, took place on **February 7th** in two separate venues, T-402 and T-406. Its purpose was to allow students to share their knowledge in diverse fields and showcase their **presentation skills**. Judges scored each presentation based on creativity, presentation skills, time management, and communication skills. Prizes were awarded to the 1st and 2nd place winners in both venues. **The Head of the Department, Dr. N. Udaya Kumar**, and other faculty and judges played a key role in distributing the prizes. The event was considered a success due to the organizers' commendable efforts.

Creating Awareness on Gender-Inclusive Workplace

The **Women Empowerment Cell** of S.R.K.R. Engineering College, in collaboration with the **Department of Electronics and Communication Engineering (ECE)**, conducted a **"Just a Minute" (JAM) activity on March 19, 2025**. The event, held in Room No: **T-402**, focused on the topic The activity was organized by **Mrs. G. Prathima, an Assistant Professor in the ECE Department**. **Dr. G. Naga Raju, an Associate Professor of the ECE Department**, was the resource person for the event. A total of **62** B.Tech ECE students participated. The JAM session, a useful activity for learners, helped them improve fluency, accuracy, and time management skills. It also taught participants how to concisely express their ideas, a valuable skill for job interviews.

Elocution Competition

On **March 11, 2025**, the **Women Empowerment Cell** of S.R.K.R. Engineering College, in collaboration with the **Department of Electronics and Communication Engineering (ECE)**, organized an elocution competition. The event took place at **9:30 AM in Room T-302**.The competition's theme was **"Gender Equality and Mental Health"**. An elocution competition is a public speaking contest where participants deliver speeches to demonstrate their **communication skills** and ability to convey a message effectively. This event was coordinated by **Mrs. G. Prathima, an Assistant Professor in the ECE Department. Mrs. S. Swathi, also an Assistant Professor in the ECE Department**, was the resource person. A total of **54** third- and fourth-year B.Tech ECE students participated in the competition.

Community Engagement and Skill Enhancement

The ECE Department at Sagi Rama Krishnam Raju Engineering College, in collaboration with the **IETE Student Forum**, conducted an outreach program to provide practical exposure to young students. On **February 11, 2025**, students from **JLB High School's 9th and 10th grades visited the ECE department labs**. During the visit, they received an introduction to **ECE and its career prospects, toured labs such as the Circuit Design Lab and Microprocessor Lab, and watched live demonstrations of electronic circuits, microcontroller programming, and student projects**. The event aimed to bridge theoretical knowledge with hands-on experience, and it successfully sparked interest in engineering as a potential career for the school students.Following this, an **8-day internship program called "Foundations in Electronics" was held from April 11 to April 21, 2025, for eight 10th-grade girls from Shri JLBMPL Girl High School**. Coordinated by **Dr. K.N.V. Satyanarayana** , the internship provided the participants with opportunities to engage in various electronics-related projects and activities, offering a valuable learning and development experience.

Faculty Doctoral Achievements

Mrs. S. Swathi, an Assistant Professor in the ECE Department, earned her Ph.D. in Electronics and Communication Engineering from Nirwan University, Jaipur. Her thesis, titled **"DESIGN AND IMPLEMENTATION OF EFFICIENT ARITHMETIC LOGIC UNIT USING FINFET TECHNOLOGY,"** focused on **designing a high-performance, energy-efficient Arithmetic Logic Unit (ALU) using advanced FinFET and Graphene Nano-ribbon FET (GnrFET) technologies**. The research introduced several innovative modules, including the **Dynamic Path Auto-Configurable Joint Adder-Subtractor (DPAJAS)**, which significantly reduced total energy consumption and **improved delay by about 18%**. The final Nano-ALU achieved an **average 15% improvement in performance metrics** compared to traditional ALUs and is well-suited for applications in digital signal processing and high-performance computing.
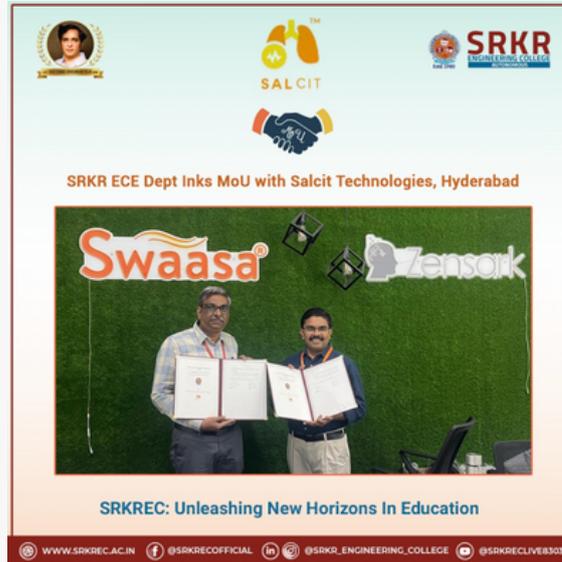

Mr. K. N. V. Satyanarayana, also an Assistant Professor in the ECE Department, received his Ph.D. in Electronics and Communication Engineering from **Annamalai University, Tamil Nadu**. His thesis, **"An Empirical analysis of Emotional behaviour through Machine Learning Algorithms,"** investigated the effects of meditation on undergraduate students' **mental maturity and cerebral burden**. The research found that meditation techniques promoting intense focus can lead to greater happiness and contentment. The study's proposed approaches for emotion classification demonstrated strong performance, with the **PCA-based ANN model achieving a high classification accuracy of 97.36%**. The findings highlight the importance of effective emotion management for a stable academic and interpersonal life.

Strategic MoUs for Collaboration

ECE Department Collaborates with SALCIT Technologies:

The Department of Electronics and Communication Engineering (ECE) at Sagi Ramakrishnam Raju Engineering College (SRKREC) signed a **Memorandum of Understanding (MoU) with SALCIT Technologies Pvt. Ltd. from Hyderabad on August 12, 2024**. The objective of the MoU is to **study and propose pre-processing techniques to address variations in audio (cough) signals recorded by different microphones**. The event was attended by **the Principal, Dr. K.V. Murali Krishnam Raju, the ECE HOD, Dr. N. Udaya Kumar; and the Director of SALCIT, Sri. S.V.N. Narayana Rao.** The collaboration aims to foster research and innovation in the field of audio signal processing.

SRKREC ECE Department Inks MoU with Vector India:

The Department of Electronics and Communication Engineering at Sagi Krishnam Raju Engineering College (SRKREC) signed a **Memorandum of Understanding (MoU) with Vector India Private Limited on February 26, 2025.** The purpose of this collaboration is to facilitate an **embedded systems training program** for interested and eligible SRKREC students at the Vector India training center. The **MoU aims to strengthen academic, industrial, and research interactions**, as well as to enhance the educational excellence and skill development of both students and faculty. The partnership is expected to improve the industry-academia interface, bridge the gap between academic learning and industry expectations, and lead to the development of innovative solutions with a global impact. This collaboration will also provide students and faculty with **enhanced exposure to international technology standards and industry-oriented skill development**.The signatories for the **MoU were Dr. K.V. Murali Krishnam Raju, Principal of SRKREC**, and **Dr. N. Udaya Kumar, Head of the ECE Department**, representing the college. From Vector India, the signatories were **Jala Mercy Malathi, Senior Manager, and Yarramalla Sunil Kumar, Senior Faculty**. The college will act as a facilitator, and student enrollment in the training program is voluntary.
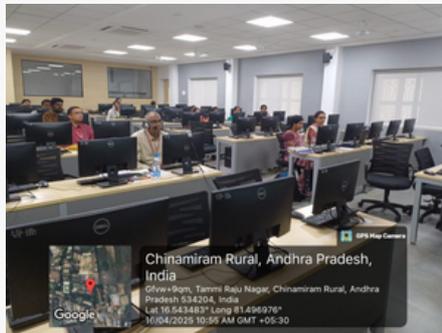
SRKREC ECE Department and Everly Technologies LLC:

The Department of Electronics and Communication Engineering (ECE) at Sagi Ramakrishnam Raju Engineering College (SRKREC) has entered into an international collaboration by signing a **Memorandum of Understanding (MoU) with Everly Technologies LLC, based in Dallas, Texas, USA**. The MoU was signed on **April 7, 2025, to enhance academic, industrial, and research collaborations in the field of ECE**. The partnership aims to enhance educational excellence and professional growth for students and faculty through shared initiatives and resources. The expected outcomes include an improved industry-academia interface, the development of innovative solutions with global impact, and bridging the gap between academic learning and industry expectations. Students and faculty will **benefit from enhanced exposure to international technology standards and industry-oriented skill development, and students will have opportunities to work on real-time projects with joint guidance for research and project work**.The signatories for the MoU were **Dr. K.V. Murali Krishnam Raju, Principal of SRKREC, and Dr. Sujan Kasani, Director of Everly Technologies LLC**

ECE Department Research Centre Online Inspection

On April 16, 2025, the **ECE Department's Research Centre** underwent an online inspection by a committee that included **Prof. M. Sailaja and Prof. N. Balaji**. The inspection was conducted to evaluate the center's research quality, infrastructure, and overall effectiveness. The primary objective was to ensure the center meets institutional and regulatory standards and to receive renewal for the **2025-26 and 2026-27 academic years**. The attendees for the inspection included the **ECE HOD, Dr. N. Udaya Kumar**, and other ECE faculty members.

Alumni & Industry Insights

Industry-Institute Interaction in Aviation and Technology:

Industry-Institute Interaction in Aviation and Technology On March 24, 2025, Dr. N. Udaya Kumar, Head of the ECE Department, visited the Air Traffic Control (ATC) at Begumpet Airport and **the ATC Complex & Radar Navigational System at Shamshabad Airport**. The visit, supported by **ECE alumnus Mr. Rambabu**, aimed to explore advancements in aviation communication systems, radar technology, and emerging innovations in AI and VLSI.During the visit, **Dr. Udaya Kumar** gained insights into the latest developments in **air traffic management, radar-based navigation, and real-time communication systems**. He also observed the real-time monitoring of aircraft and understood the role of automation and radar in ensuring safe aircraft movement. The visit also included discussions with industry professionals and alumni on **potential collaborations, including internship opportunities for students, organizing workshops, and collaborative research projects**. This interaction successfully strengthened industry-academia relations and opened avenues for future collaborations, aligning technical education with industry demands and enhancing practical learning for students.

Distinguished Alumni Visits to the ECE Department:

The Department of Electronics and Communication Engineering (ECE) at Sagi Ramakrishnam Raju Engineering College (SRKREC) had the honor of **welcoming several distinguished alumni**. These visits strengthened the industry-academia relationship and inspired current students. On **January 31, 2025**, three alumni from the **1991-1995 batch** visited, including **Ms. Pavani Parupudi, Senior Program Manager at HCL America; Ms. Uma Anitha Kottali, Head of Indirect Procurement at AMD, USA; and Ms. Anantha Cherukuri, Payroll Analyst in Australia**. They shared their career journeys and professional insights with students and faculty.The first batch of ECE, Civil, and Mechanical Engineering **alumni from 1980-1984** held a **40-year reunion**, celebrating **four decades** of **professional success**. They met with the Head of the ECE Department and presented a souvenir.Later, on **February 16, 2025, Mrs. K. Aparna (1998-2001 batch), who is an Associate Professor and Head of the ECE Department at JNTU Kanigiri**, visited to discuss her experiences in academic leadership.On **April 5, 2025, Mrs. Y. Satya (2016-2020 batch), currently a student at IIM Mumbai,** offered valuable guidance on pursuing higher education and interdisciplinary careers.Finally, **on April 7, 2025, Mr. Pranay Kashyap (2018-2022 batch), a Technical Analyst at Gainsight**, shared insights from the software industry, emphasizing the importance of technical skill development and adaptability. These visits have significantly enriched the academic environment and served as a great source of inspiration for students.
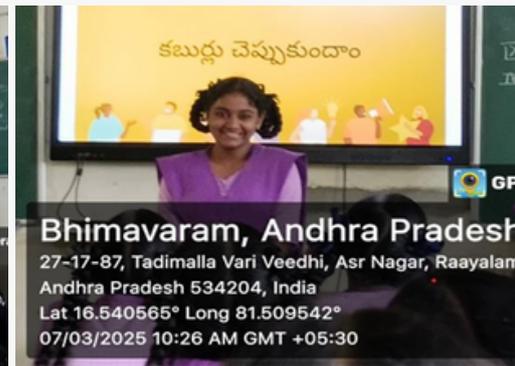
Course on CCNA: Introduction to Networks Course

The Department of Electronics and Communication Engineering (ECE) organized a **CCNA: Introduction to Networks course for its 3/4 B.Tech students**. The course was conducted through the **Cisco Netacad platform** and ran from **October 16, 2024, to March 9, 2025**. A total of **90** students were certified upon completion of the course. The coordinators for the program were **Dr. P. Krishna Kanth Varma** from the ECE Department and **Mr. K.D.V.P.K. Varma** from the CSE Department. After completing the course, students gained the ability to configure switches, routers, and end devices, create IPv4 and IPv6 addressing schemes, and troubleshoot network connectivity. The course also covered how physical and data link layer protocols support Ethernet, how the upper layers of the OSI model support network applications, and how to configure a small network with security best practices

The Bhartiya Bhasha Utsav: Celebrating Linguistic Diversity

The **Bhartiya Bhasha Utsav**, or **Indian Language Festival**, was held on **March 7, 2025**, at **Jhansi Lakshmi Bai Municipal Girls High School**. The event was organized by **NEP SAARTHIS and faculty members of SRKR College**, to celebrate India's linguistic diversity and foster an appreciation for mother tongues. Faculty coordinators Dr. **K.N.V. Satyanarayana and Sri Y.S.S. Sriramam, along with Dr. N. Uday Kumar, Head of the Department of Electronics and Communication**, actively guided the students throughout the event. The festival featured several interactive activities, **including Tongue Twisters, discussions on traditional proverbs called Samitalu, and a creative session on Telugu Memes**. Other activities included students enacting movie dialogues, a **one-minute Telugu speaking challenge**, and a session of traditional **Telugu riddles known as Podupu Kadalu**. The event successfully reinforced the importance of regional languages and instilled a sense of pride and curiosity about linguistic heritage among the students.

Faculty Development Program (FDP) on "Custom and Semi-Custom IC Design using Cadence Tools."
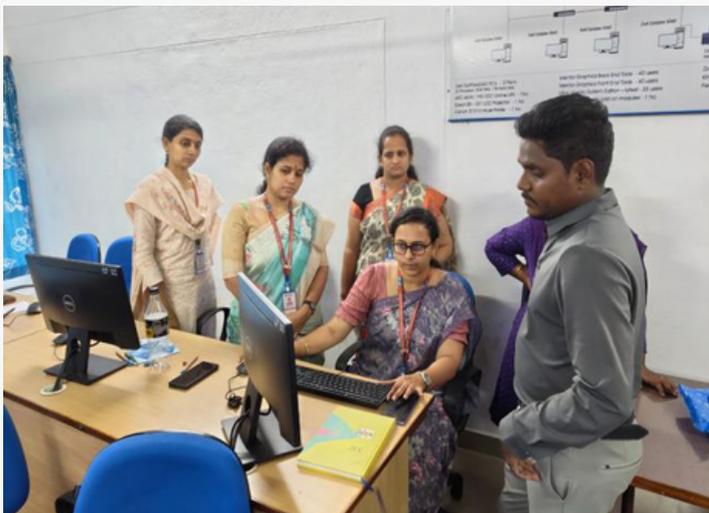
The Department of Electronics and Communication Engineering at SRKR Engineering College is hosting a five-day offline Faculty Development Program (FDP) from June 16th to 20th, 2025, on "Custom and Semi-Custom IC Design using Cadence Tools." Organized in collaboration with the Electronics & ICT Academy, NIT Warangal, and JNTU Kakinada, and sponsored by MeitY, Government of India, the program aims to provide fundamental knowledge and practical exposure to IC design flows using industry-standard Cadence EDA tools. A total of 40 faculty members and research scholars from various academic institutions are participating.

Program Highlights

- Day 1: Covered full custom IC design flow, schematic capture, testbench creation, functional simulation, layout design, and physical verification using Cadence tools.

- Day 2: Focused on FinFET library models, schematic capture, and layout design, with hands-on sessions led by Mr. Sudheer Kumar Katta from Entuple Technologies.

- Day 3: Explored semi-custom IC design flow, functional verification using INCISIVE, RTL synthesis, and implementation using INNOVUS, led by Mr. Pulivarthi Rajendra.

- Day 4: Covered static timing analysis, analog and mixed-signal design flow, and functional simulation using Spectre.

- Day 5: Discussed functional verification using Conformal LEC Tool, pre and post-synthesis analysis, and design for testability (DFT) using Modus tool.

Key Takeaways

The program provides hands-on experience with Cadence tools, enhancing participants' skills in custom and semi-custom IC design. The sessions were coordinated by esteemed faculty members, including Dr. N. Balaji, Dr. B. Leela Kumari, and Dr. N. Udaya Kumar, ensuring high-quality content and seamless execution.

i3-Institute Industry Interaction 2025 by MosChip

The Department of ECE faculty member Mr. Y. S. S. Sriramam, Assistant Professor, attended the "i3 – Institute Industry Interaction 2025" training program organized by MosChip Academy of Silicon Systems and Technologies Pvt. Ltd. (MAST), held from 2nd to 13th June 2025 in Hyderabad. The initiative aimed to bridge the gap between academia and industry by providing exposure to advanced VLSI design methodologies, EDA tools (Cadence), and industrial workflows. The two-week program included hands-on sessions on front-end and back-end design, digital and analog layout, verification strategies, RTL design, and DFT concepts. Eminent professionals such as Sri DVR Murthy, Sri M. Prasad, Sri Anand Shankar Moghe, Dr. V. Nagarajan, Sri Aravind, Mrs. Ramalakshmi, Mrs. Deepa Reddy, and Mrs. B. Sarala conducted interactive sessions covering topics from semiconductor design trends to SoC and ASIC physical design flows. Participants gained practical exposure through live demonstrations, lab sessions, and mini-projects, enhancing their understanding of semiconductor technologies, chip design, and verification processes. The program concluded with a valedictory session and certificate distribution, marking a successful collaboration between academia and industry in fostering faculty competence in VLSI and semiconductor design.

"If your actions inspire others to dream more, learn more, do more and become more, you are a leader." – John Quincy Adams

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This issue

Brings you awareness about department activities done by staff and students.

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TWO-WEEK ACITE QIP PG CERTIFICATION PROGRAM IN CYBERSECURITY

Dr. Krishna Kanth Varma enrolled in the AICTE QIP PG Certification Program in Cybersecurity and successfully completed the two-week offline training conducted at the IIIT Vadodara ICD Campus, Diu, Gujarat, from 23/06/2025 to 04/07/2025. The program saw participation from 38 candidates across the country and covered key modules including Security Fundamentals, Introduction to Cryptography, Problem Solving using Python, and Data Analytics for Cybersecurity with Probability and Statistics. The sessions were handled by IIIT Vadodara faculty, coordinated by Dr. Naveen Kumar, along with Dr. Gaurav Pareek and Dr. Bhupendar Kumar.

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Envision a diverse and stimulating academic research ambience for the student community and shaping them into competent professionals in the field of Electronics and Communication Engineering and to cater to the needs of society with a keen sense of environmental consciousness.

GUEST LECTURE ON CRITICAL THINKING AND PROBLEM SOLVING FOR ECE STUDENTS

The Department of ECE, in association with the SRKREC Alumni Association, organized a guest lecture on "Critical Thinking & Problem Solving" on 13-09-2025 at 10:30 A.M. in the ECE Seminar Hall. The session was delivered by Sri G. Krishna Chaitanya, Senior Manager, Salesforce, Hyderabad. The program began with opening remarks by Dr. N. Udaya Kumar, Head of the ECE Department, followed by the introduction of the resource person by Shanmukha, 2nd year ECE student.

Dr. G. Nagaraju, Associate Professor, ECE, served as the event coordinator. The speaker discussed the importance of critical thinking, problem-solving skills, CGPA, interview experiences, pathways for ECE students to enter the IT sector, and the growing impact of Machine Learning in industry. The session was interactive, with active student participation. A total of 109 students of II/IV B.Tech ECE attended the lecture, and the program concluded with a vote of thanks proposed by Shanmukha.

Never stop LEARNING,
Because life never stops TEACHING.

EMERGING TRENDS IN SMART ANTENNA SYSTEMS AND 6G TECHNOLOGIES

An IE Sponsored All India Workshop on "Design and Optimization Aspects of Smart Antenna Systems for 6G" was organized on 21st and 22nd August 2025 at S.R.K.R. Engineering College. The workshop was convened by Dr. P. Krishna Kanth Varma, Assistant Professor, Department of ECE. The sessions were handled by eminent resource persons Dr. Sudheer Kumar T, Associate Professor, Shri Vishnu Engineering College for Women, Bhimavaram; Dr. B. Sri Devi, Associate Professor, Vishnu Institute of Technology, Bhimavaram; Mr. Ch. Murali Krishna, Antenna Engineer, Dhruva Space Private Limited, Hyderabad; and Dr. R. Krishna Chaitanya, Associate Professor, S.R.K.R. Engineering College, Bhimavaram. The objective of the workshop was to provide an in-depth understanding of smart antenna design and optimization techniques for 6G networks, focusing on array synthesis, beam steering, adaptive coverage, energy-efficient communication, and advanced optimization algorithms such as PSO, Firefly, TLBO, and Quasi-Newton methods. The program also highlighted emerging technologies like terahertz communication, massive MIMO, and intelligent reconfigurable surfaces. A total of 110 participants (staff and students) actively took part in the workshop.

DEPARTMENT MISSION

- *To educate the students with the state of the art technologies in Electronics and Communication Engineering to meet the ever growing challenges of the industry.*
- *To nurture the spirit of innovation and creativity in the faculty and students in order for them to carry out research in collaboration with research organizations and industry*
- *To provide ethical and value based education that promotes activities pertaining to societal needs.*

GUEST LECTURE ON "TELECOM TECHNOLOGIES & ENTERPRISE SOLUTIONS" A STRATEGIC OVERVIEW

The Department of Electronics and Communication Engineering, in association with the SRKREC Alumni Association, organized a guest lecture on "Telecom Technologies & Enterprise Solutions: A Strategic Overview" on 20-09-2025 at 10:30 A.M. in the ECE Seminar Hall. The session was delivered by Sri Y. Sandeep, Manager, POWERGRID, Telangana. Dr. N. Udaya Kumar, Head of the ECE Department, gave the opening remarks, and the resource person was introduced by Meghana, 3rd year ECE student, while Dr. G. Nagaraju, Associate Professor, ECE, served as the event coordinator. The lecture covered topics such as telecommunications and OPGW, data center modules and their locations in India, popular telecom certifications, and career-building opportunities in PSUs. The session was interactive, with active student participation. A total of 126 students of III/IV B.Tech ECE attended the lecture, which concluded with a vote of thanks proposed by Meghana.

ABOUT OUR DEPARTMENT

The department of ECE was established in the year 1980 with an intake of 35 which was subsequently raised to 240 over a period of time. M. Tech course in Communication Systems was started in 2006. The department is presently offering 4-year B. Tech program in ECE, 2-year M. Tech in Communication Systems and Ph.D. program. The department has highly qualified, experienced and dedicated staff members. The department has dedicated technical and non-teaching staff members. The department has good infrastructure facilities. The department was accredited four times by National Board of Accreditation (NBA). The department has student chapters of professional bodies like IETE and college level ISTE, which conduct various student technical activities. Students of ECE participate in National level technical paper and hardware competitions being organized at various other colleges and some of them are awarded with prizes. They have been obtaining good scores in GRE, TOEFL and CAT. Students are placed in companies like TCS, Polaris, CTS, IBM, Infosys, Texas Instruments, BSNL, BEL, ISRO and DRDO. ECE department has been identified as research center by JNT University. The research center provides required facilities for carrying out research work for scholars. The department is associated with organizations like DRDO, NSTL, BEL, ISRO, BSNL, NRSA and RTTC. The department has MOUs with DS Reddy Consultancy, ETI Lab Pvt. Ltd., Salcit Technologies, Hyderabad and TCS for collaborative work and faculty improvement programs. Faculty published and presented about 512 research papers in technical journals and conferences.
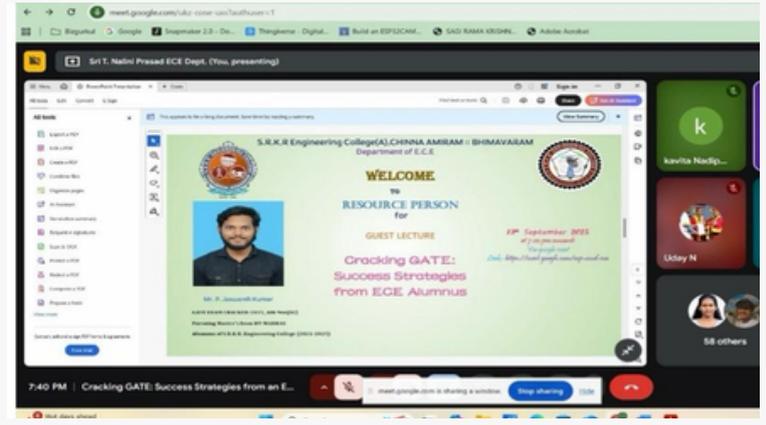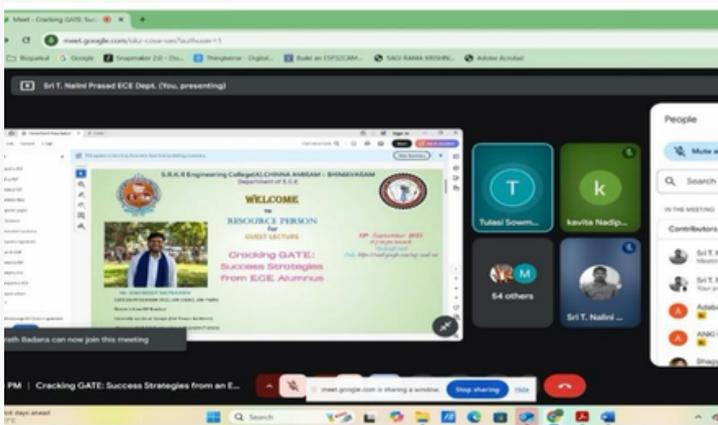
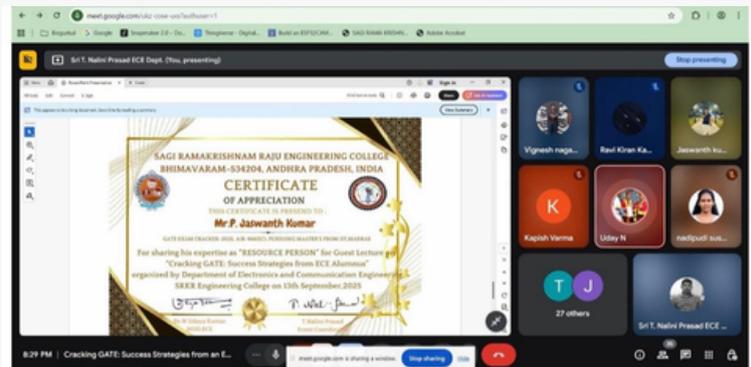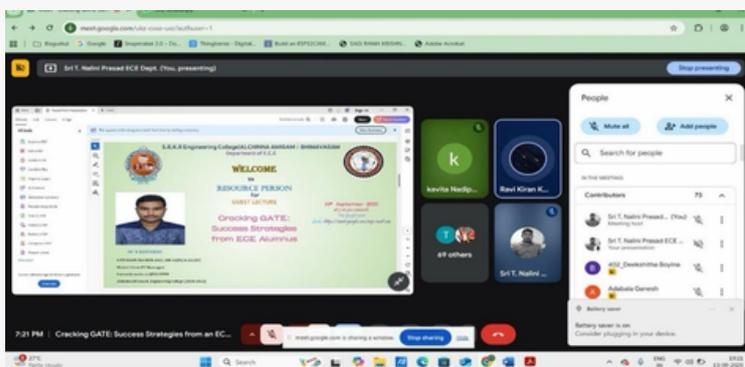# NATIONAL-LEVEL TRAINING ON DEEP LEARNING: ACITE QIP PG CERTIFICATION PROGRAM

sri B.Tapasvi, Assistant Professor, ECE has enrolled in the AICTE QIP PG Certification Program on Deep Learning: Fundamentals and Applications and successfully completed the initial two-week offline training conducted at SVNIT, Surat, Gujarat, from June 16, 2025, to July 27, 2025. The program witnessed participation from 49 candidates across the country and covered core modules including Linear Algebra, Probability, and Problem-Solving using Python. The training was coordinated by Dr. Kamal Captain, with support from Dr. Kishore Upla and Dr. Suman Deb.

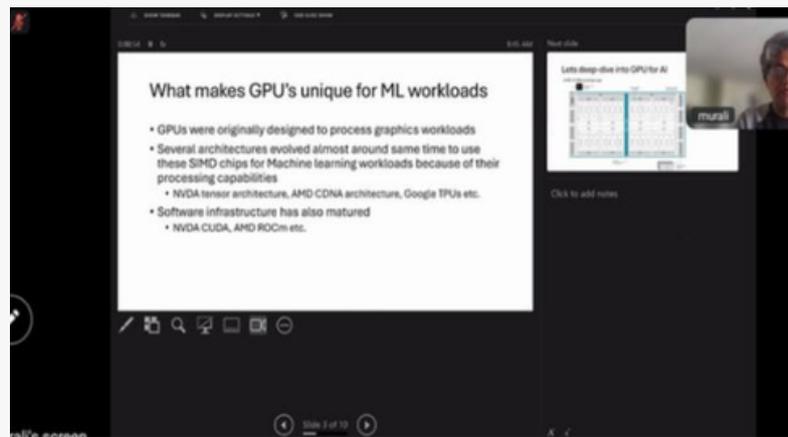# FROM SRKREC TO IIT & INDUSTRY: GATE SUCCESS STORIES

The Department of Electronics and Communication Engineering, S.R.K.R. Engineering College (Autonomous), Bhimavaram, organized an online guest lecture on "Cracking GATE: Success Strategies from an ECE Alumnus" on 13/09/2025 at 7:00 PM via the Google Meet platform. The session was delivered by Mr. Ankireddy Sai Praveen (GATE 2022, AIR 14 – EC, AIR 76 – IN, SoC Power Architect at Google, Bengaluru), Mr. K. Ravi Kiran (GATE 2023, AIR 52 – IN, AIR 221 – EC, working at Qualcomm, Bengaluru), and Mr. P. Jaswanth Kumar (GATE 2025, AIR 966 – EC, pursuing M.Tech at IIT Madras), all distinguished alumni of SRKREC. Dr. N. Udaya Kumar, Head of the ECE Department, delivered the opening remarks, and Sri T. Nalini Prasad, Assistant Professor, ECE, acted as the event coordinator. The speakers shared structured preparation strategies, study resources, the importance of mock tests, and personal experiences to motivate students, followed by an interactive Q&A session. The program witnessed participation from over 72 ECE students from second, third, and final years along with faculty members, and concluded with the presentation of appreciation certificates to the resource persons and a vote of thanks by Miss M. Padma Pravanya, 4th Year ECE student.

"VIRTUAL EXPERT TALK ON HARDWARE ADVANCEMENTS IN GPUS FOR AI & ML APPLICATIONS"

The Center of Excellence in VLSI Design and the Department of Electronics and Communication Engineering, SRKR Engineering College (Autonomous), Bhimavaram, in association with IETE–ISFC-65, organized a virtual expert talk on "Hardware Advancements in GPUs for AI & ML Applications" on 20th September 2025 at 7:00 PM (IST). The session was delivered by Dr. Murali Nethi, Principal Engineer, AMD, USA, who shared insights on GPU architectures for AI/ML workloads, recent advancements such as AMD MI-350, power, thermal and security challenges, and emerging opportunities in semiconductor R&D and hardware–software co-design. The program commenced with opening remarks by Dr. N. Udaya Kumar, Professor & HoD, ECE, followed by an interactive discussion. The lecture was made possible with the support of Dr. Sujan Kasani and Mr. Savan Suri. The event enhanced awareness of current GPU hardware trends, motivated students toward research and higher studies in VLSI and AI, and concluded with a vote of thanks and presentation of an e-memento and appreciation certificate to the speaker.
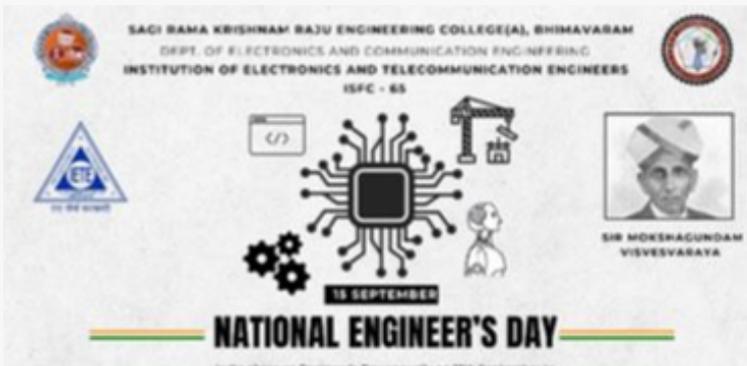

DURGA POOJA CELEBRATIONS – 2025

The Department of Electronics and Communication Engineering, SRKR Engineering College, Bhimavaram, organized Durga Pooja – 2025 with great devotion on 26th September 2025 at 9:00 AM at the ECE Department premises. Faculty members, staff, and students actively participated in the traditional rituals, prayers, and chanting of sacred hymns, creating a divine and spiritual atmosphere. The department was beautifully decorated, and devotees sought the blessings of Goddess Durga for strength, wisdom, prosperity, and overall well-being. After the pooja, prasadam was distributed, and staff and students from other departments also visited for darshan. The event fostered unity, cultural harmony, and positivity, and the department expressed gratitude to all who contributed to the successful conduct of the celebration.

ENGINEER'S DAY CELEBRATIONS – BIRTH ANNIVERSARY OF SIR MOKSHAGUNDAM VISVESVARAYA

The IETE Student Forum (ISFC–65) of the Department of Electronics and Communication Engineering organized the Engineer's Day Celebration on 15th September 2025 at T-407 to commemorate the birth anniversary of Bharat Ratna Sir Mokshagundam Visvesvaraya. The event was attended by Dr. N. Udaya Kumar, Professor & HoD, ECE, Dr. T. V. Hyma Lakshmi, IETE Faculty Advisor, Dr. K. N. V. Satyanarayana, IETE Faculty Coordinator, other ECE faculty members, and students. The program included student speeches highlighting the life and contributions of Sir M. Visvesvaraya, followed by addresses from the HoD, faculty coordinator, and faculty members, emphasizing the significance of Engineer's Day. The event concluded with a vote of thanks by a student representative, leaving participants inspired by the true spirit of engineering.

OUTREACH MEDICAL CAMP FOR ELDERLY PEOPLE

The Department of Electronics and Communication Engineering, SRKR Engineering College, Bhimavaram, conducted an outreach program (medical camp for elderly people) on 7th September 2025 at SVR Children's Hospital, Akividu, as part of its social responsibility initiatives. The program was coordinated by Mrs. K. L. Divya and Dr. V. Nagavalli, with support from local doctors Dr. K. Mahesh Varma (MBBS, DCH – Paediatrician) and Dr. Satyanarayana Varma (MD – General Medicine). A total of 15 final-year ECE student volunteers assisted in patient registration, medical check-ups, health screening, documentation, and patient guidance. The camp benefited 90 elderly people, who received free medical consultations, basic treatments, medicines, and health awareness on common issues such as hypertension, diabetes, and joint problems. The program strengthened community bonding and helped students develop empathy, teamwork, organizational skills, and a strong sense of social responsibility, highlighting the importance of community service alongside technical education

DOCTORAL RESEARCH ON SCALABLE FFT ARCHITECTURES IN VLSI SYSTEMS

Mr. A. V. S. Surya Varma, Assistant Professor, Department of Electronics and Communication Engineering, SRKREC, has been awarded the Doctor of Philosophy (Ph.D.) in Electronics and Communication Engineering by K L University, Vijayawada, under the supervision of Dr. Mannepalli Kasiprasad, Associate Professor, ECE, K L University, and Dr. Akurathi Gangadhar, Associate Professor & HoD, ECE, UCEN-JNTUK, Narasaraopeta, A.P. He completed his B.Tech from BVC Engineering College and M.Tech from Swarandhra College of Engineering, JNTU Kakinada. His Ph.D. thesis, titled "Development of Scalable FFT Architectures for Optimized Resource Utilization in High-Performance Systems," focuses on addressing the limitations of conventional VLSI-based FFT architectures related to area, delay, and power consumption.

The research proposes VLSI-optimized FFT methods, including an Iterative ICORDIC-based Multipath Butterfly Unit (MPIC-FFT), achieving improved speed, fault tolerance, area efficiency, and power optimization, thereby providing a balanced and high-performance solution for FFT computation in VLSI systems.

FOSTERING PERSONAL GROWTH AND TEAMWORK THROUGH EMPATHIC COMMUNICATION

The Department of Electronics and Communication Engineering organized an Expert Talk on "Power of Growth Mindset & Empathic Communication" on 08-10-2025 from 3:00 PM to 4:30 PM. The session was delivered by Dr. K. V. Subba Raju, Author, Motivational Trainer, Influencer, and Educationalist. The talk emphasized the importance of developing a positive attitude toward learning and personal growth, adopting a growth mindset to overcome challenges and learn from failures, and practicing empathic communication to strengthen teamwork and interpersonal relationships. A total of 88 students participated in the event, which inspired them to apply these values in their academic and professional lives to create a supportive, growth-oriented environment. The program was coordinated by Dr. B. Sanjay, Mrs. D. V. N. Bharathi, and Mr. N. V. Phani Sai Kumar, under the guidance of Dr. N. Udaya Kumar, HoD, ECE.

GUEST LECTURE ON "GATEWAY TO OPPORTUNITIES: HOW COMPETITIVE EXAMS SHAPE YOUR CAREER"

The Department of Electronics and Communication Engineering, in collaboration with the Women Empowerment Cell of S.R.K.R. Engineering College, organized a guest lecture on "Gateway to Opportunities: How Competitive Exams Shape Your Career" on 06-10-2025 at 3:30 PM in T-109 (Skill Development Lab). The session was delivered by Smt. Nandipati Premanvitha, Mandal Parishad Development Officer, Elamanchili, Palakol Constituency, and an alumna of SRKREC (2013–2017). Dr. N. Udaya Kumar, Head of the ECE Department, gave the opening remarks highlighting the theme of the program, while Mrs. Prathima Gamini, Assistant Professor, ECE, served as the event coordinator. The lecture motivated students to explore career opportunities through competitive examinations, emphasizing discipline, consistency, self-belief, self-assessment, perseverance, and avoidance of procrastination. A total of 40 II/IV B.Tech ECE students participated in the session, which concluded with a vote of thanks proposed by P. Sai Meghana, III/IV B.Tech ECE student.

YOUTH FESTIVAL – SCIENCE MELA EXHIBITION 2025

A team of III/IV B.Tech ECE students—Guthula Bhanu Prasad (Team Leader), Jalli Nishanth, Kaduluri Kundan Sai, Allu Eswar, Karri Indumathi, and Alapati Satya Durga—participated in the Youth Festival – Science Mela Exhibition 2025, held on 22 October 2025, under the esteemed mentorship of Dr. N. Udaya Kumar, Ph.D. Organized in collaboration with the Department of Youth Services (SETWEL), Government of Andhra Pradesh, the event aimed to promote scientific temper, innovation, and research-oriented thinking among students. The team presented a Disaster Response Drone (X-type Quadcopter) designed to address delays in disaster rescue operations by combining AI-based victim detection and precision supply delivery in a single autonomous platform. The system featured a 5 kg payload capacity, 45-minute endurance, 2 km operational range, Python-based human and object detection with GPS logging, and reliable performance validated through 200+ flight hours. The project demonstrated strong potential to transform disaster response by reducing rescue time, minimizing human risk, and enhancing real-time situational awareness, highlighting the role of AI-driven autonomous systems in humanitarian and disaster management applications.

ENCENDER-1

The IETE Student Forum (ISFC–65) organized "ENCENDER-1" on 09 October 2025 at 3:00 PM in the ECE Seminar Hall to ignite enthusiasm and inspire young talents. The program featured addresses by Dr. N. Udaya Kumar, HoD, ECE, Dr. T. V. Hyma Lakshmi, IETE Faculty Advisor, and Dr. K. N. V. Satyanarayana, IETE Faculty Coordinator, who highlighted the achievements of the ECE Department, objectives of IETE, and the benefits of student participation. Executive Body Members presented sessions on "ECE" and "IETE and Its Events", explaining departmental scope, career opportunities, and the role of IETE in students' academic and professional growth. The event included interactive activities such as fun rounds, a motivational talk by the IETE Treasurer, and feedback collection through a QR code. The program concluded with a vote of thanks by P. Sai Meghana and Ch. Bhanu Govardhan. The event witnessed enthusiastic participation from around 180 first-year students and received positive feedback, successfully achieving its objective of promoting awareness about IETE and inspiring young minds.
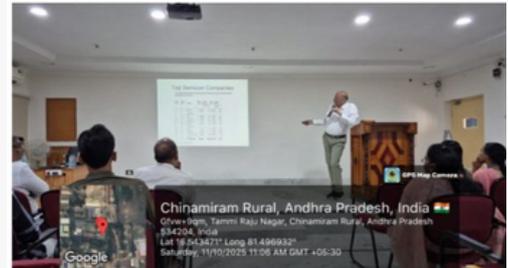
ENCENDER-2

The IETE Student Forum conducted "ENCENDER-2" on 10/10/2025 at 3:00 PM in the ECE Seminar Hall to ignite and motivate young talents. The program featured addresses by Dr. N. Udaya Kumar, HoD, ECE, Dr. T. V. Hyma Lakshmi, IETE Faculty Advisor, and Dr. K. N. V. Satyanarayana, IETE Faculty Coordinator, who highlighted the significance of the ECE Department, IETE activities, and their impact on students' future careers.

Executive Body Members delivered presentations on "ECE Software & Hardware" and "Career Paths After B.Tech in ECE", explaining departmental scope, industry trends, and skill development opportunities through IETE. The event also included interactive fun rounds, a motivational address by the IETE Treasurer, and feedback collection via a QR code. The session concluded with a vote of thanks by T. Mounika and M. Siva Sai Prakash, and witnessed enthusiastic participation from 98 first-year students, making the event a grand success.

GUEST LECTURE ON "CHALLENGES IN SEMICONDUCTOR PHYSICAL DESIGN AT LOWER TECHNOLOGY NANOMETER NODES"
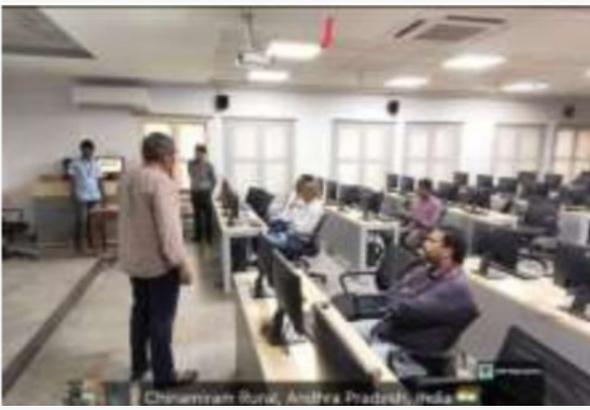

The Department of Electronics and Communication Engineering, in association with the SRKREC Alumni Association, organized a guest lecture on "Challenges in Semiconductor Physical Design at Lower Technology Nanometer Nodes" on 11-10-2025 at 10:30 A.M. in the ECE Seminar Hall. The session was delivered by Sri M. V. V. Satya Narayana, Senior Director, R&D Solutions Group, Synopsys, Bengaluru, Karnataka, India. Dr. N. Udaya Kumar, Head of the ECE Department, gave the opening remarks highlighting the theme, and the resource person was introduced by M. Spandana, 2nd year ECE student, while Dr. G. Nagaraju, Associate Professor, ECE, acted as the event coordinator. The lecture covered the origin and growth of VLSI technology, Moore's Law, evolution of technology nodes, early IC developments by Texas Instruments, leading semiconductor companies, and future research trends including post-silicon technologies such as carbon nanotube chips, along with industry experience in advanced wireless product development. The session was interactive, with participation from ECE faculty and 129 students of II/IV and III/IV B.Tech ECE, and concluded with a vote of thanks proposed by M. Spandana.
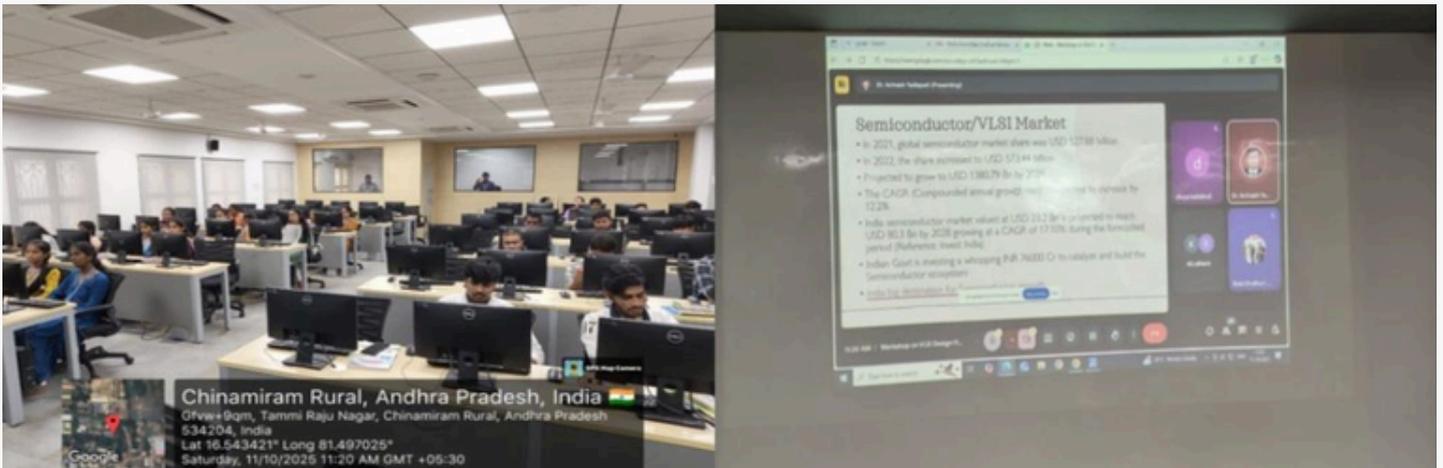
EXTERNAL ACADEMIC AUDIT OF THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (AY 2024–25)

An External Academic Audit was conducted in the Department of Electronics and Communication Engineering on 09-10-2025 for the Academic Year 2024–25. Dr. E. Venkata Krishna Rao, Professor, ECE, LBRCE (Autonomous) served as the External Member, while Dr. V. Chandra Sekhar, Dean (Academics) and Dr. S. Rajesh, Dean, IQAC acted as Internal Members. The audit was coordinated by Dr. N. Udaya Kumar, HoD, ECE, along with Department QI Coordinators Sri M. Praveen Kumar and Dr. M. Satish Kumar, who prepared the academic audit report. Faculty members actively participated by presenting relevant documents and evidence, and the audit committee provided constructive feedback and recommendations for continuous academic improvement.

"EXPLORING VLSI DESIGN FLOW AND INDUSTRY OPPORTUNITIES": A TWO-DAY WORKSHOP

The Department of Electronics and Communication Engineering, in association with the Center of Excellence in VLSI Design, S.R.K.R. Engineering College (Autonomous), Bhimavaram, organized a two-day workshop on "VLSI Design Flow and Opportunities" from 11th to 12th October 2025. The sessions were conducted by Dr. Avinash Yadlapati, Senior Engineering Manager, Altera Corporation (Intel), Malaysia, who provided comprehensive insights into the complete VLSI design flow, including specification, RTL design, synthesis, verification, physical design, testing, and validation. The workshop emphasized digital design fundamentals, HDL proficiency, EDA tool usage, emerging semiconductor trends, and career opportunities in the VLSI industry. Convened by Dr. N. Udaya Kumar, Professor & HoD, ECE, and coordinated by Dr. K. Bala Sindhuri and Mrs. K. L. Divya, the program enhanced participants' understanding of real-world chip design practices and inspired students to strengthen their skills in digital electronics and tool-based design. The event concluded with a vote of thanks by the faculty coordinators, acknowledging the speaker's valuable contribution and the active participation of students and faculty.
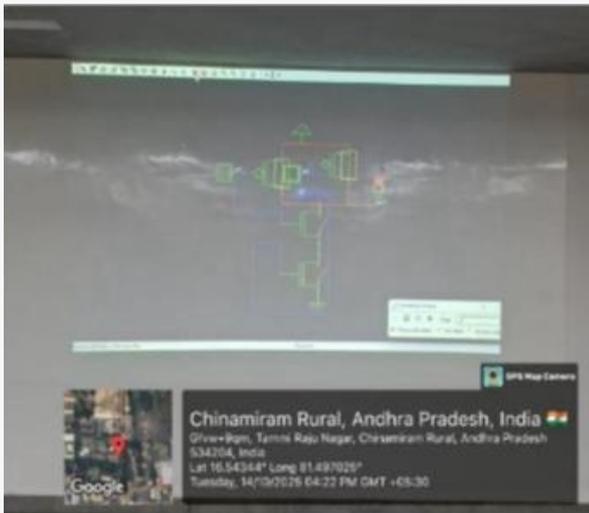
Life is like riding a bicycle. To keep your balance, you must keep moving   -   Albert Einstein

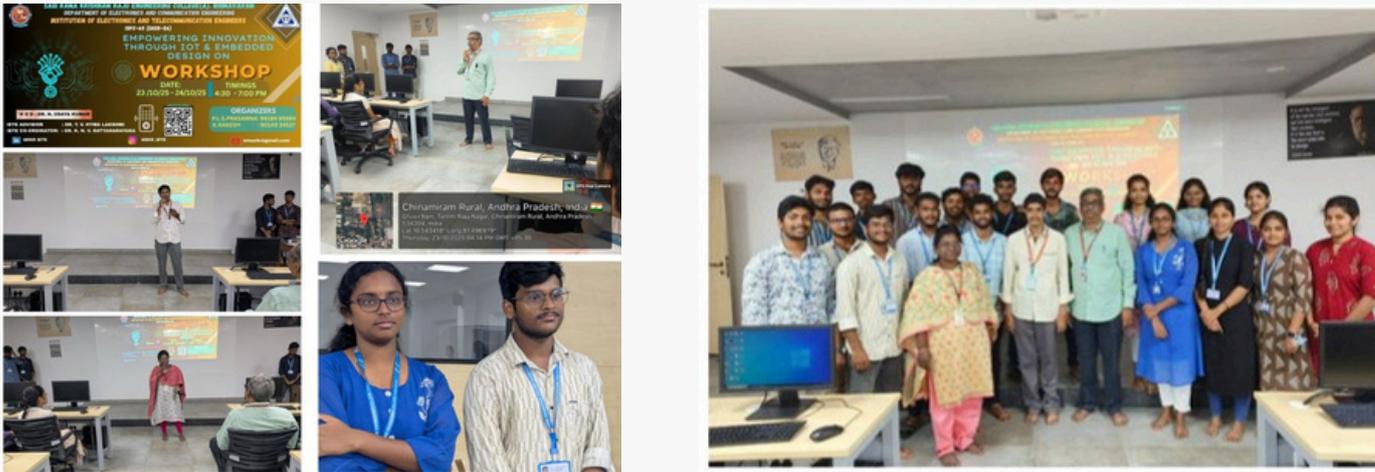# "EXPERT TALK ON CAREER OPPORTUNITIES IN THE VLSI DOMAIN"

The Center of Excellence in VLSI Design and the Department of Electronics and Communication Engineering, S.R.K.R. Engineering College (Autonomous), Bhimavaram, jointly organized an Expert Talk on "Career Opportunities in the VLSI Domain" on 13th October 2025 from 3:00 PM to 4:00 PM. The session was delivered by Mr. Tirumala Naga Subrahmanyam, Digital Design Engineer, Texas Instruments (TI), Bengaluru, and an alumnus of SRKREC. He highlighted career paths in VLSI such as front-end design, verification, and physical design, emphasizing the importance of digital design fundamentals, HDL programming, and EDA tools, while also sharing his professional journey and industry insights. The talk concluded with an interactive Q&A session, providing clarity on internships, tool proficiency, and emerging trends. The event was convened by Dr. N. Udaya Kumar, Professor & HoD, ECE, coordinated by Dr. K. Bala Sindhuri and Mrs. K. L. Divya, with student coordination by J. Nishanth and M. Thirumalesh, and ended with a vote of thanks appreciating the speaker's valuable contribution.

HANDS-ON TRAINING PROGRAM ON DSCH SOFTWARE

The Department of Electronics and Communication Engineering, in association with the Centre of Excellence in VLSI, S.R.K.R. Engineering College, Bhimavaram, organized a five-day value-added course titled "Overview of DSCH Software" from 13th to 17th October 2025. The program was coordinated by Dr. K. Bala Sindhuri and Sri Y. S. S. Sriramam, and the sessions were delivered by Dr. K. Bala Sindhuri, Associate Professor, ECE, who provided hands-on training on DSCH software used in the VLSI design workflow. Participants were introduced to the DSCH environment, schematic design, and simulation of digital circuits including CMOS inverter, half and full adders, subtractors, and selected sequential circuits, with emphasis on timing analysis and logic verification. The course strengthened students' understanding of digital design through tool-based learning, enhanced their readiness for advanced EDA tools, and contributed to skill development aligned with SDG 4 (Quality Education), SDG 8 (Decent Work and Economic Growth), and SDG 9 (Industry, Innovation, and Infrastructure), preparing them for careers in VLSI and semiconductor industries.

THREE-DAY WORKSHOP ON IOT AND EMBEDDED SYSTEMS: A HANDS-ON LEARNING EXPERIENCE FOR ECE STUDENTS

The IETE Student Forum (ISF) of the Department of Electronics and Communication Engineering organized a three-day workshop on "IoT and Embedded Systems" for II-year ECE students from 23rd to 25th October 2025 in the Skill Development Lab. The program was conducted in the presence of Dr. N. Udaya Kumar, HoD, ECE, Dr. T. V. Hyma Lakshmi, IETE Faculty Advisor, and Dr. K. N. V. Satyanarayana, IETE Faculty Coordinator, who motivated students to explore innovation through IETE activities. The workshop provided hands-on exposure to IoT and embedded systems using platforms such as Tinkercad, Arduino IDE, PlatformIO, ThingSpeak, Wokwi, ESP32, Arduino UNO, Ultrasonic Sensors, and Raspberry Pi. Students implemented projects like a Smart Water Bottle, LED simulations, sensor interfacing, and distance measurement, along with quizzes, interactive discussions, and feedback sessions. The workshop enhanced students' understanding of hardware–software integration, IoT platforms, and real-time applications, and concluded with a valedictory session appreciating the organizers P. L. S. Prasanna and K. Rakesh, while participants expressed positive feedback on the practical learning experience.

"LEADERSHIP AND CAREER TRANSFORMATION" - TRANSFORMING ENGINEERS INTO LEADERS: AN ONLINE GUEST LECTURE

The Department of Electronics and Communication Engineering, S.R.K.R. Engineering College (Autonomous), Bhimavaram, organized an online guest lecture on "Beyond Engineering: Transforming Technical Skills into Leadership Potential" on 24th October 2025 at 7:00 PM via the Google Meet platform. The session was delivered by distinguished ECE alumni Mr. Anil Kumar Kamodula (MBA, IIM Bangalore; Lead – AIML Practice, JP Morgan Chase & Co.), Mr. Viswanath Challa (MBA, IIM Indore; Management Consultant, EY), Miss Satya Yadavalli (MBA, IIM Mumbai; former TCS professional), and Mr. Pranay Kashyap (PGDM, GLIM Chennai; former Gainsight professional), belonging to the 2006, 2020, and 2022 batches. Dr. N. Udaya Kumar, HoD, ECE, delivered the opening remarks highlighting the importance of leadership and management skills for engineers. The speakers shared insights on transitioning from technical roles to leadership positions, emphasizing continuous learning, adaptability, communication skills, and diverse career pathways, followed by an interactive Q&A on MBA preparation and career building. The session was coordinated by Sri T. Nalini Prasad, Assistant Professor, with student coordinators Dheeraj Mutyala, L.V.N.S.S. Shanmukha, and D. Leela Bhuvana Valli (II/IV ECE), and witnessed participation from 45+ students and faculty members, concluding with a vote of thanks by Miss D. Leela Bhuvana Valli.

ENHANCING EMPLOYABILITY SKILLS THROUGH "CAMPUS TO CORPORATE PROGRAM" - CAREER GUIDANCE SESSION

The Department of Electronics and Communication Engineering, SRKR Engineering College, Bhimavaram, organized a Career Talk on "Campus to Corporate" for B.Tech ECE students on 3rd December 2025 at the Skill Development Lab under the EduSkills CareerTalk initiative. The session was delivered by Mr. Manash Kumar Bhattacharyya, Head HR (North & West), Asia BU – Keller, who shared valuable insights on transitioning from campus life to corporate culture, cracking placements, resume building, interview strategies, and the importance of technical skills, soft skills, adaptability, and professional mindset. He also introduced students to career opportunities through the EduSkills platform, highlighting industry-aligned courses, virtual internships, and certifications. The program was convened by Dr. S. S. Mohan Reddy, Professor & Head, ECE, and coordinated by Mrs. K. L. Divya and Mr. Y. S. S. Sriramam, Assistant Professors, ECE. The event witnessed enthusiastic participation from students and faculty and provided practical guidance to enhance career readiness and professional growth.

INAUGURATION OF CENTER OF EXCELLENCE IN EMBEDDED SYSTEMS IN ASSOCIATION WITH VECTOR INDIA

The Department of Electronics and Communication Engineering, SRKR Engineering College, in association with VECTOR INDIA, inaugurated the Center of Excellence (CoE) in Embedded Systems on 09-12-2025, with participation from 100 students and faculty members. The event was graced by Mr. Rudraraju Seetaramanjaneya Raju, CEO, VECTOR INDIA, Mr. G. Satish, Manager, and Mr. Y. Sunil Kumar, Academia Manager, and was coordinated by Sri N. Kishore Chandra Dev and Sri Nalini Prasad Tirumani. The objective of the program was to strengthen industry–institute collaboration and promote advanced research and innovation. During the event, Mr. G. Satish highlighted the role of the CoE in enhancing students' practical knowledge of microprocessors and microcontrollers through access to advanced hardware and software resources, and announced upcoming online training programs by VECTOR INDIA to develop industry-ready professionals. As part of the inauguration, the VECTOR INDIA team formally established the CoE Embedded Systems Laboratory by handing over hardware kits, interfacing components, and five personal computers to the Director, Principal, and Head of the ECE Department.

DISTINGUISHED PROFESSOR, ACADEMIC LEADER AS NEW HOD IN ECE

A highly experienced and dedicated Professor of Electronics and Communication Engineering with over 25 years of teaching, research, and academic leadership experience, currently serving as Professor & Head, ECE, S.R.K.R. Engineering College, Bhimavaram. Holds a Ph.D. in Electronics and Communication Engineering from Andhra University (2018) with specialization in Microstrip Antennas, along with an M.Tech from NIT Kurukshetra (2003) and B.Tech from Rajarajeswari Engineering College, Chennai (2000). Has authored more than 45 research papers in reputed national and international journals, with academic interests in communication systems, signal processing, and emerging wireless technologies. Possesses extensive expertise in curriculum design, mentoring undergraduate and postgraduate students, supervising research scholars, and departmental administration, having served as Assistant Professor (2000–2008), Associate Professor (2009–2022), Professor (2022–present), and Professor & Head (2025–present) at S.R.K.R. Engineering College. Strongly committed to academic excellence, research-driven teaching, industry collaboration, and fostering innovation through interdisciplinary engagement.

BIO-DATA

Dr. SATTI. S. MOHAN REDDY
Professor & Head
Department Of Electronics and Communication Engineering,
S R K R Engineering College, Chinaamiram, Bhimavaram – 534 202.
West Godavari District, Andhra Pradesh, INDIA
Mobile: +91 9849238118
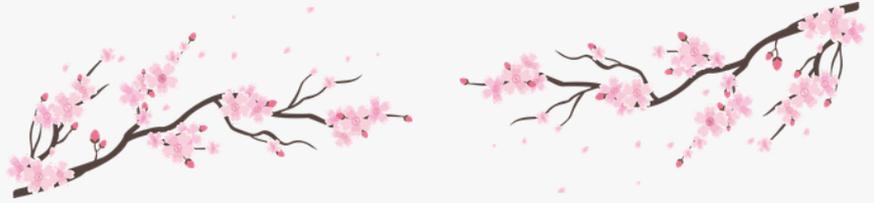e-mail : rahulmohan720@gmail.com, mohanreddysatti@srkrec.ac.in

Professional Summary

Exceptionally seasoned and dedicated Engineering Professor with a strong record in teaching, research and administration. Professor of Electronics and Communication Engineering with over 25 years of experience in teaching, research, and academic leadership. Ph.D. in Electronics and Communication Engineering from Andhra University and have authored more than 45 research papers in reputed, high-impact national and international journals. Academic interests include communication systems, signal processing, and emerging wireless technologies. Extensive experience in curriculum design, mentoring undergraduate and postgraduate students, supervising research scholars, and leading departmental initiatives. Committed to academic excellence, industry collaboration, and fostering innovation through research-driven teaching and interdisciplinary engagement.

Educational Qualifications :

Institution Studied	Degree	Year	Field of Specialization
Andhra University	Ph.D	March 2018	Microstrip Antennas
National Institute of Technology , Kurushetra	M.Tech	Jan, 2003	Electronics & Communication Engg.
RajarajeswariEngg. College , Chennai	B.Tech	April,2000	Electronics & Communication Engg.

Teaching Experience: 25 Years

University / College	Designation	From	To	Period
S.R.K.R.EngineeringCollege, Bhimavaram, A.P.	Professor & Head	25th October 2025	Till Date	--
S.R.K.R.EngineeringCollege, Bhimavaram, A.P.	Professor	1stJanuary 2022	Till Date	4 Years
S.R.K.R.EngineeringCollege, Bhimavaram, A.P.	Associate Professor	1stJanuary 2009	31st December 2022	13 years
S.R.K.R.EngineeringCollege, Bhimavaram, A.P.	Asst. Professor	1st November 2000	31st December 2008	8 years

INDUSTRY–ACADEMIA INITIATIVE: QNX ORIENTATION PROGRAM AND COE IN EMBEDDED & IOT

The Department of Electronics and Communication Engineering, SRKR Engineering College, successfully organized a Student Orientation Programme on the QNX Program along with the Inauguration of the Center of Excellence (CoE) in Embedded Systems and Internet of Things (IoT) on 16th December 2025 from 2:00 PM to 3:30 PM. The program was inaugurated by Mr. Srinivas Raju J, APAC CEO, Pi Square Technologies, in the presence of Dr. M. Jagapathi Raju, Director, Dr. K. V. Murali Krishnam Raju, Principal, and Dr. S. S. Mohan Reddy, HoD, ECE. The event aimed to create awareness about the QNX program, its significance in modern embedded systems, and the opportunities arising from industry collaboration. Mr. Srinivas Raju J delivered an insightful session on the QNX real-time operating system, covering its applications in automotive, industrial automation, IoT, safety-critical systems, training structure, certification benefits, and career prospects, followed by an interactive Q&A session. The Director and Principal emphasized the importance of the MoU and industry–academia collaboration in enhancing employability and industry readiness. The guest was felicitated by the HoD and faculty members, and the program concluded with a vote of thanks, marking the CoE as a major step toward fostering innovation, hands-on learning, and industry-oriented skill development among ECE students.