



**V R Siddhartha School of Engineering
Siddhartha Academy of Higher Education
(An Institution Deemed to be University)
Department of ECE**



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NEWSLETTER EVENTS ORGANIZED IN THE DEPT

ECE DEPARTMENT, SIDDHARTHA ACADEMY OF HIGHER EDUCATION, VIJAYAWADA INSPIRED SCHOOL STUDENTS THROUGH DICE INNOVATION ACTIVITIES

DICE Activities for School Students

The ECE Department, Siddhartha Academy of Higher Education (Deemed to be University), Vijayawada, conducted a series of DICE activities for 50 students of APSWR G Gannavaram School, Veerapanenigudem Village, aimed at fostering entrepreneurial thinking, creativity and innovation.

Activity 1: Developing Entrepreneurial Skills – 26th September 2026

The session focused on developing entrepreneurial skills such as observation, problem identification, creativity, teamwork, communication and decision-making. Through Problem Hunt, Five Whys and Idea Canvas activities, students identified real-life problems and proposed innovative solutions through team presentations.

Activity 2: Field Visit and Idea Creation – 30th September 2026

The students visited the ECE Department, IDEA Lab, Technology Business Incubation Centre and Innovation Labs at Siddhartha Academy. They gained exposure to emerging technologies, student projects, prototyping and the start-up ecosystem. An interactive Idea Creation session enabled them to identify real-world problems, develop solutions and present their ideas.

The activities provided students with a progressive learning experience, from problem identification and entrepreneurial skill development to idea generation and innovation, laying a foundation for future prototype and project development under DICE.





A MOTIVATIONAL SESSION “UNBOX TRANSFORMATIONAL MOTIVATION WORKSHOP”

A motivational session titled “UNBOX Transformational Motivation Workshop” was organized by the Department of Electronics and Communication Engineering, VR Siddhartha School of Engineering on Wednesday, 23.09.26 for II B.Tech ECE students.

The session was delivered by Sri.Mushtaq Mohammed (Kabir), Growth Hacker and Transformational Coach, Bulletproof Career, Hyderabad as the resource person. The workshop was successfully conducted with 250 participants in attendance.



PROGRAMS ATTENDED BY FACULTY

Dr. V.Saritha, Dr. Ch.Raghavendra, Mrs B.Alekhyia and Mrs K. Sneha attended the IEEE MTT-S YP Rf & Microwave Industry Technical Conclave on 12/09/2026 at Lemon Tree, Vijayawada.



INDUSTRY VISIT BY FACULTY

VISIT 1

A technical visit to Bengaluru Space Expo (BSX) 2026 was undertaken on 8th and 9th September 2026 by Dr. P. Phani Kumar, Professor, ECE, and Dr. V. Saritha, Assistant Professor, ECE, Department of Electronics and Communication Engineering, V. R. Siddhartha School of Engineering, Siddhartha Academy of Higher Education, Vijayawada. Organized by the Confederation of Indian Industry (CII) in association with ISRO, IN-SPACe, and NSIL, the expo, themed “Harnessing Space for Global Progress: Innovation, Policy, and Growth,” provided valuable exposure to emerging developments in the aerospace and space technology ecosystem. The visit enabled the faculty to gain practical insights into satellite communication, launch vehicles, propulsion systems, CubeSats, payload technologies, remote sensing, additive manufacturing, and space sustainability, while connecting theoretical concepts with real-world industrial applications. The expo also highlighted the growing participation of private industries and start-ups in India’s space sector, along with opportunities for public-private collaboration and student internships. The technical interactions and demonstrations provided valuable inputs for curriculum enhancement, innovative student projects, faculty research, and industry-institute collaboration. Overall, the visit was highly informative, productive, and inspiring, encouraging greater engagement with emerging technologies in aerospace, RF, communications, and electronics and motivating the faculty and students to pursue innovative research and career opportunities in the rapidly evolving space sector.



VISIT 2

A technical and industry visit was undertaken on 8th, 9th, and 10th September 2026 by Dr. A. Vijaya Sankar, Associate Professor, and Mrs. Y. Sarada Devi, Assistant Professor, Department of Electronics and Communication Engineering, V. R. Siddhartha School of Engineering, Siddhartha Academy of Higher Education, Vijayawada, to KaleidEO Space Systems Pvt. Ltd., Phytec Embedded Pvt. Ltd.

Bengaluru Space Expo 2026, and Paras Defence and Space Technologies. The visit aimed to explore opportunities for industry–institute collaboration, student internships, technical training, and joint projects in emerging areas of electronics, embedded systems, space technology, image processing, and defence applications. The interaction with Mr. Vallabh, Managing Director, Phytec, resulted in obtaining an MoU for academic–industry collaboration, with the company expressing interest in conducting technical workshops and offering internship opportunities to students. At KaleidEO, interaction with Dr. Shailendra S. Srivastava, Director – Image Processing, provided valuable insights into space and Earth-observation technologies, with opportunities for student internships and future collaboration. Discussions with Paras Defence and Space Technologies focused on potential academic and project collaborations, while the Bengaluru Space Expo provided exposure to emerging space technologies and facilitated interactions with industry representatives and space-tech entrepreneurs. Overall, the visit was highly informative and productive, strengthening industry–institute linkages and creating potential avenues for student internships, industrial training, technical workshops, collaborative projects, and future research activities.



With the Team – the Paras



MoU with the
Phytec Embedded Pvt Ltd



Interaction with Dr Shailender
Director Image Processing – KaleidEO

VISIT 3

Dr. A. Vijaya Sankar, Associate Professor, and Mrs. Y. Sarada Devi, Assistant Professor, Department of ECE, interacted with EON Space Labs, Astra Microwave Products Limited and ACD Communications, Hyderabad, on 24th and 25th September 2026 to explore Industry–Institute collaboration, internships and placement opportunities. The interactions provided valuable insights into the organizations' technologies and opened avenues for student internships, placements and future collaborative activities.



VISIT 4

Dr. P. Phani Kumar, Professor, Department of ECE, along with Sri P. Someswara Rao, Training & Placement Officer, visited M/s Techstar Group, Hyderabad, on 24 September 2026. During the visit, they interacted with the Senior Vice President and Head-HR and discussed opportunities for strengthening Industry-Academia collaboration, particularly in student internships, placements, academic engagement, and potential collaborative activities. The team also interacted with the Associate Vice President (HR), TeamLease Digital Pvt. Ltd., Madhapur, to explore opportunities for student internships, training, industry exposure, and placements. The interactions were productive and provided valuable opportunities for strengthening institutional engagement with industry.



VISIT 5

Dr. A. Vijaya Sankar, Associate Professor, and Mrs. Y. Sarada Devi, Assistant Professor, Department of ECE, interacted with the Red Balloon Aerospace to discuss opportunities for student internships, collaborative projects, and future Industry-Institute engagement in emerging aerospace and space technology domains.



FACULTY ACHIEVEMENTS:

Mrs Bandi Alekhy Assistant Professor Dept of ECE has successfully defended her Ph.D. thesis on 30 September 2026, completing her doctoral degree in the field of Antennas in the Department of Electronics and Communication Engineering at SRM Institute of Science and Technology, Kattankulathur, Chennai, Tamil Nadu, under the guidance of Dr. Neelaveni Ammal Murugan, Associate Professor, Department of ECE. She has 16 years of teaching experience and has published more than 40 research papers in reputed indexed journals and international conferences. She also serves as a reviewer for several peer-reviewed journals, including Physica Scripta, Engineering Research Express, Journal of Optics, and Journal of Circuits, Systems, and Computers, as well as for indexed conferences. Her research interests include UWB technology, RF antennas, and MIMO wearable antennas.



Dr. P. Satyanarayana, Assistant Professor, Dept of ECE won the Best Paper Award at the 4th International Conference on Intelligent Cyber Physical System and Internet of Things (ICoICI-2026), organized by the Department of EEE at JCT College of Engineering and Technology, for the paper titled "AI-Assisted Secure Communication Framework for IoT enabled Software Defined Networks using Quantum-Inspired Cryptographic Algorithm".

Dr. P. Satyanarayana (Principal Investigator) and **Dr. G. Suryanarayana** (Co-Principal Investigator) from Siddhartha Academy of Higher Education were sanctioned a 6-month consultancy project titled "AI-Assisted IoT-Based Smart Dust Monitoring and Environmental Management System for Feldspar-Quartz-Mica Mines" worth ₹1,05,000 by Divya Sree Mines and Minerals.

Dr. T. Venkata Sainath Gupta, Dr G Suryanarayana, Dr K Shri Ramtej successfully completed the consultancy work titled “Development of a Vision- and MEMS Accelerometer-Based Wireless Bridge Vibration Monitoring Device” for ATLES Pvt. Ltd., with a consultancy value of ₹59,000. The developed product was successfully delivered to ATLES Pvt. Ltd. on 11 September 2026.

Dr. Turimerla Pratap, Senior Assistant Professor, Department of Electronics and Communication Engineering, Siddhartha Academy of Higher Education, has been conferred with the prestigious Award for Interdisciplinary Programme Leadership & Chapter Development by the IEEE Signal Processing Society (SPS) Hyderabad Chapter. The award was presented during the IEEE SPS Hyderabad Chapter Awards Function held on 10 September 2026, in recognition of his exceptional contributions, dedication, and impactful service to the IEEE Signal Processing Society Hyderabad Chapter. The recognition highlights Dr. Pratap's contributions towards promoting interdisciplinary programmes, academic activities, and professional engagement in signal processing, contributing to the growth and development of the IEEE SPS Hyderabad Chapter.



PUBLICATIONS

JOURNALS:

Sikhamani, T., Panda, D.K. & Raut, Pratikhya. Two-dimensional graphene and transition metal dichalcogenide field effect transistor biosensors for biomedical diagnostics and sensing applications. Discov Mater (2026). , Impact Factor 5.8 , Q1 Journal. <https://doi.org/10.1007/s43939-026-00956-1>

PUBLICATIONS WITH STUDENTS

CONFERENCES:

Dr. Pratikhya Raut presented a research paper titled “ Smart Wearable Fall Detection And Geo-Tagging Emergency Alert System Using ESP32 “ in IEEE International Conference on AI and Security for Industrial IOT Systems (AI-ASIIS 2026) 24-26 Sept 2026 at KL University.

CONFERENCES:

Thadikemalla Venkata Sainath Gupta, Vasavi Sanikommu, Suryanarayana Gunnam, Shri Ramtej Kondamuri, Asrith Potnuru, Ameya Anil Kesarkar, Raghav Mehra, and Partha Sarathi Nandy. "An Enhanced ISTA-Net+ Based Compressive Sensing Framework for SAR Image Reconstruction." In 2026 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS), vol. 1, pp. 1-4. IEEE, 2026.

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