



# NEWSLETTER

## EVENTS ORGANIZED IN THE DEPT

### PCB DESIGN USING ALTIUM DESIGNER

The Department of Electronics and Communication Engineering, Velagapudi Ramakrishna Siddhartha School of Engineering, Siddhartha Academy of Higher Education (Deemed to be University) Kanuru, Vijayawada organized training program on "PCB Design using Altium Designer" for II-year B.Tech, IV-semester Electronics and Communication Engineering students during 20 January 2026 to 23 January 2026, between 4:30 PM and 6:30 PM each day.

Resource person: Mr. G. Hema Kumar, ECE Department, VRSSE, Vijayawada



### RESEARCH CONCLAVE 2026 – TECHEMBEDD HACKATHON REPORT

TechEmbedd Hackathon 2026 was a 24-hour national-level innovation event held from 23–24 January 2026. It aimed to promote problem-solving, innovation, and interdisciplinary collaboration by addressing real-world challenges through technology-based solutions.

The hackathon focused on four themes: AgriTech, MedTech, Robotics, and Open Innovation. A total of 73 teams from Andhra Pradesh, Telangana, and Tamil Nadu registered. After abstract evaluation, 36 teams were shortlisted, and 29 teams completed final registration.

The event saw participation from 108 students (50 female and 58 male). Teams worked on two technical tasks and were evaluated by an expert jury based on innovation, implementation, impact, and presentation.

### **FDPS ATTENDED BY FACULTY**

- Dr S.Suryanarayana Prof, ECE dept., attended Faculty Development Program on “Quantum Communication” during 5<sup>th</sup> to 31<sup>st</sup> January 2026 organized by E&ICT, MNIT, Jaipur & APSICHE.

### **STUDENT ACHIEVEMENTS:**

Chodavarapu Baby Kundana (248W5A0401), a III Year student, participated in the Viksit Bharat Young Leaders Dialogue (VBYLD) 2026, held at Bharat Mandapam, New Delhi, from 8th to 12th January 2026, as part of the National Youth Festival.

She earned this prestigious opportunity through a rigorous multi-stage selection process that commenced with a nationwide quiz competition involving over 50 lakh participants. She further excelled in the subsequent online essay writing round, state-level PPT presentation on “Atmanirbhar Bharat – Make in India, Make for the World,” and a personal interview conducted at Acharya Nagarjuna University. She was finally selected to represent Andhra Pradesh at the national level, bringing pride and recognition to the institution.



III-year students Sk.Ahmad Ali (238W1A0459) and Dharnasi Surya Teja (248W5A0402) won 2nd prize in The Hindu FIC College Quiz 2026 conducted on 31.01.26, by IPE a premier business school in collaboration with Future India Club and The Hindu Club In which 350 teams participated from 25 colleges across Andhra Pradesh.





Himasri Yarrapothu (RollNo: 24EU05197), a 2nd-year B.Tech ECE student, participated in the online hackathon Vecna's Clock: The Startup Survival, organized by the Entrepreneurship Cell at NIT Agartala. She successfully qualified through the first two rounds and advanced to the third round. In the final stage, clinched 2nd position among 68 participants.

This accomplishment demonstrates her skills in innovation and problem-solving during the startup survival event.

### **PUBLICATIONS WITH STUDENTS.....**

- K. V. Chinni, R. S. Karanam, N. Nagidi and V. S. G. Thadikemalla, "Accelerometer & Camera-Based Wireless Structural Health Monitoring System for Bridges," 2025 IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT), Gwalior, India, 2025, pp. 1-6, doi: 10.1109/INSPECT67393.2025.11350891
- Lakshmi Anushka Vemula, Rahul Varma Repuri, Bindu Priya Naragani, Dr. A. Jhansi Rani; "Prediction of Performance Metrics for Rectangular and Circular Microstrip Patch Antennas Using Supervised Machine Learning", presented at Research Conclave 2026, organized by the Research & Development Cell, Siddhartha Academy of Higher Education (Deemed to be University), Vijayawada, Andhra Pradesh, India, held during 23–24 January 2026, and submitted for publication in Springer Lecture Notes in Computer Science (LNCS). The paper was selected for the Best Paper Award at Research Conclave 2026.
- G Sai Karthik, G Siva Parvathi, G Likitha Sri, Dr. A. Jhansi Rani; "Design of a Slot-Engineered Compact Wideband Self-Isolated Multiple Input Multiple Output Antenna for 5G Millimeter-Wave Applications", presented at Research Conclave 2026, organized by the Research & Development Cell, Siddhartha Academy of Higher Education (Deemed to be University), Vijayawada, Andhra Pradesh, India, held during 23–24 January 2026, and submitted for publication in Springer Lecture Notes in Computer Science (LNCS). (238W1A04L1, 238W1A04L7, 248W5A04L3)

- B. S. Spandana, J. Keerthana, R. Tangudu and K. S. Ramtej, "Explainable AI for Obstructive Sleep Apnea Detection Using ECG-Derived Spectrogram and Interpretable Deep Learning," 2025 Second International Conference on Networks and Soft Computing (ICNSoC), Vadlamudi, India, 2025, pp. 37-42, doi: 10.1109/ICNSoC66817.2025.00020.

### **JOURNALS:**

- Chiranjit Ghosh, "Highly sensitive and tunable intensity-modulated chirped FBG sensor with extended measurement range," IEEE Sensors Journal.
- Sharma, Shobha, Ashok Choudhury, Venkata Sainath Gupta Thadikemalla, Archana Rastogi, Tapan Gandhi, and Shiv K. Sarin. "A simple laboratory-based machine learning model accurately predicts advanced Liver Fibrosis in MASLD patients." Journal of Clinical and Experimental Hepatology.

### **CONFERENCES:**

- C. Ghosh, A. Pooja, S. S. Basha and K. R. Kumar, "Highly Sensitive Transmission-Mode Fiber Bragg Grating Interrogation Technique Based on Wavelength-to-Power Mapping," 2025 13th International Conference on Intelligent Embedded, MicroElectronics, Communication and Optical Networks (IEMECON), Jaipur, India, 2025, pp. 1-6.

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