SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act, 1956)
Kanuru, Vijayawada - 520 007, AP. www.vrsiddhartha.ac.in

91 866 2582333
866 2582334
866 2584930

PRAGNA

ECE DEPARTMENT

TECHNICAL EVENTS

Name of the Event	**Circuit Surge**
Objective	Circuit Surge is a thrilling competition where participants race against time to debug and fix faulty electronic circuits. Each team or individual is given a circuit with intentional faults—wrong connections, damaged components, or design flaws. The goal is to identify and correct these errors quickly, testing their electronics knowledge and troubleshooting skills. The team that restores the most circuits correctly within the time limit wins!
Eligibility	Open to students, hobbyists, and enthusiasts with basic circuit knowledge. Ideal for those in engineering, physics, or computer science. No professional experience required, but familiarity with circuit design, debugging, and tools like soldering irons and multimeters is beneficial.
Team Size	2-3 Members
Rules & regulations	• **Team Composition:** Solo or teams of 2-3 participants. • **Time Limit:** 15-30 minutes, based on circuit complexity. • **Faulty Circuits:** Pre-designed errors in wiring, components, or design; tools and materials provided. • **Task:** Identify and fix all faults, including rewiring, component swaps, and recalibration. • **No External Help:** Participants must troubleshoot independently. • **Tools & Materials:** Basic toolkits, multimeters, and circuit diagrams with errors provided. • **Winning Criteria:** Most correct fixes within the time limit or the fastest accurate completion
Faculty co-ordinators & contact details	Mr. G. Hema Kumar, Dr. T Venkata Sainath Gupta, Smt. M Bindu Priya
Student co-ordinators & contact details	K. Sai Sarvani-9494127159, Rahul david-9908605609

Name of the event	**Electro IQ**
Objective	ElectroIQ is a dynamic quiz competition for ECE students, testing their knowledge in electronics, electrical systems, communication technologies, and emerging innovations. Covering topics like circuit design, semiconductors, digital electronics, microprocessors, IoT, and more, the event challenges participants to think critically and apply their expertise. ElectroIQ aims to identify the sharpest minds in the ever-evolving field of electronics and communication.
Eligibility	Pen to all students currently enrolled in *electronics and communication engineering* or related fields (e.g., electrical engineering, computer engineering).
Team size	Individually or a team of 2-3 members
Rules & regulations	• **Team Composition:** Solo or teams of 2-3 members. • **Rounds:** Multiple rounds featuring MCQs, true/false, and short-answer questions, including theoretical and practical problem-solving. • **Time Limit:** 30-60 seconds per question. The highest correct answers within the time limit determine the winner. • **Scoring:** Points awarded for correct answers; optional negative marking for incorrect ones. No points for unanswered questions. • **No External Help:** No use of phones, internet, or external resources. • **Judging:** The highest score wins; in case of a tie, a tiebreaker round will decide the winner.
Faculty co-ordinators & contact details	Dr. N.S. Murthy, Dr. KBS Sri Nagini, Dr. N Krishna Chaitanya
Student co-ordinators & contact details	Indhu-9963227150, Shannu-7702864920

Name of the event	**Project Arena**
Objective	Project Arena is a hands-on competition for ECE students to showcase their technical skills and creativity through innovative projects. Participants design solutions to real-world problems using technologies like IoT, robotics, communication systems, and circuit design. Projects are judged on creativity, functionality, feasibility, and presentation, providing a platform to demonstrate engineering excellence.
Eligibility	Open to all students currently enrolled in *electronics and communication engineering* or related fields (e.g., electrical engineering, electronics and instrumentation engineering).
Team size	2-4 members
Rules & regulations	• **Team Composition:** Solo or teams of 2-4 members. • **Project Submission:** Teams submit a brief proposal (optional) and present a working prototype with documentation. • **Categories:** Projects can focus on IoT, robotics, communication systems, embedded systems, signal processing, renewable energy, etc. • **Time Limit:** 10-15 minutes for presentation, followed by a judge-led Q&A. • **Judging Criteria:** - **Innovation:** Unique and creative ideas. - **Functionality:** Project must work as intended. - **Feasibility:** Practical and realistic implementation. - **Presentation:** Clear explanation and execution. - **Documentation:** Well-organized reports with diagrams and code (if applicable). • **No External Help:** Work must be original, with minimal outside assistance. • **Materials Provided:** Basic prototyping tools; participants should bring their own components. • **Disqualification:** Plagiarism or failure to meet submission guidelines results in disqualification.
Faculty co-ordinators & contact details	Dr. K Kumar Naik, Mr. A. Srinivas Chowdary, Dr. B. L. Sirisha
Student co-ordinators & contact details	G. Naga Lakshmi-94937 29958, Harini-9966077775

Name of the event	**Byte-a-Minute**
Objective	Byte-a-Minute is a fast-paced public speaking competition for ECE students, where participants must deliver a technical speech on electronics, communication, and innovation within one minute. The event tests quick thinking, technical knowledge, and clear communication under pressure.
Eligibility	Open to all ECE students or anyone interested in electronics, communication, and technology.
Team size	Individual
Rules & regulations	• **Solo Participation:** Each participant competes individually. • **Topic Selection:** Random ECE-related topics (IoT, AI, 5G, etc.) are given on the spot, with 30 seconds to prepare. • **Speaking Time:** Exactly 1 minute, with no pauses, hesitation, or deviation. • **Speaking Guidelines:** Avoid hesitation, repetition, or straying from the topic—penalties apply. • **Disqualification:** Excessive repetition or going off-topic. • **Final Round:** In case of a tie, a new topic decides the winner.
Faculty co-ordinators & contact details	Dr. A. Vijay Sankar, Dr. P. Sarah Suhasini, Dr. G. Surya Narayana
Student co-ordinators & contact details	Vedanandana-7661937383, Sucharitha-7799660962