Chettinad College of Engineering & Technology
Approved by AICTE-New Delhi and Affiliated to Anna University-Chennai.

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Editorial Board

The Department of Electronics and Communication Engineering was established in the year 2007.The department has an intake of 60 students in B.E. course. The department possesses the most advanced equipment in its laboratories. It also provides opportunities to grow and excel in the technical world by conducting regular workshops and programs in various fields. The department is highly active in research work in the fields of broadband communications, VLSI Design, image processing etc. The students are provided adequate training in the field of signal processing, image processing and digital communication. Students are highly motivated to attend in-plant training in some of the most prestigious organizations during their time with the institution.

Vision of the Department:

1. To provide the quality education in the field of Electronics and Communication Engineering which caters the needs of the society in line with the technological revolution.

Mission of the Department:

1. To upgrade the technical knowledge of the students continuously by providing industrial exposure and innovative projects.
2. To establish a creative learning environment for the students by active learning of the techniques in the electronics and communication engineering field.
3. To nurture career improvement by facilitating skill development and training in the recent technologies.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: To provide the students with a strong foundation in the required sciences in order to pursue studies in Electronics and Communication Engineering.

PEO2: To gain adequate knowledge to become good professional in electronic and communication engineering associated industries, higher education and research.

PEO3: To develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves.

PEO4: To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.

PEO5: To inculcate in the students a professional and ethical attitude and an ability to visualize the engineering issues in a broader social context.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Design, develop and analyze electronic systems through application of relevant electronics, mathematics and engineering principles

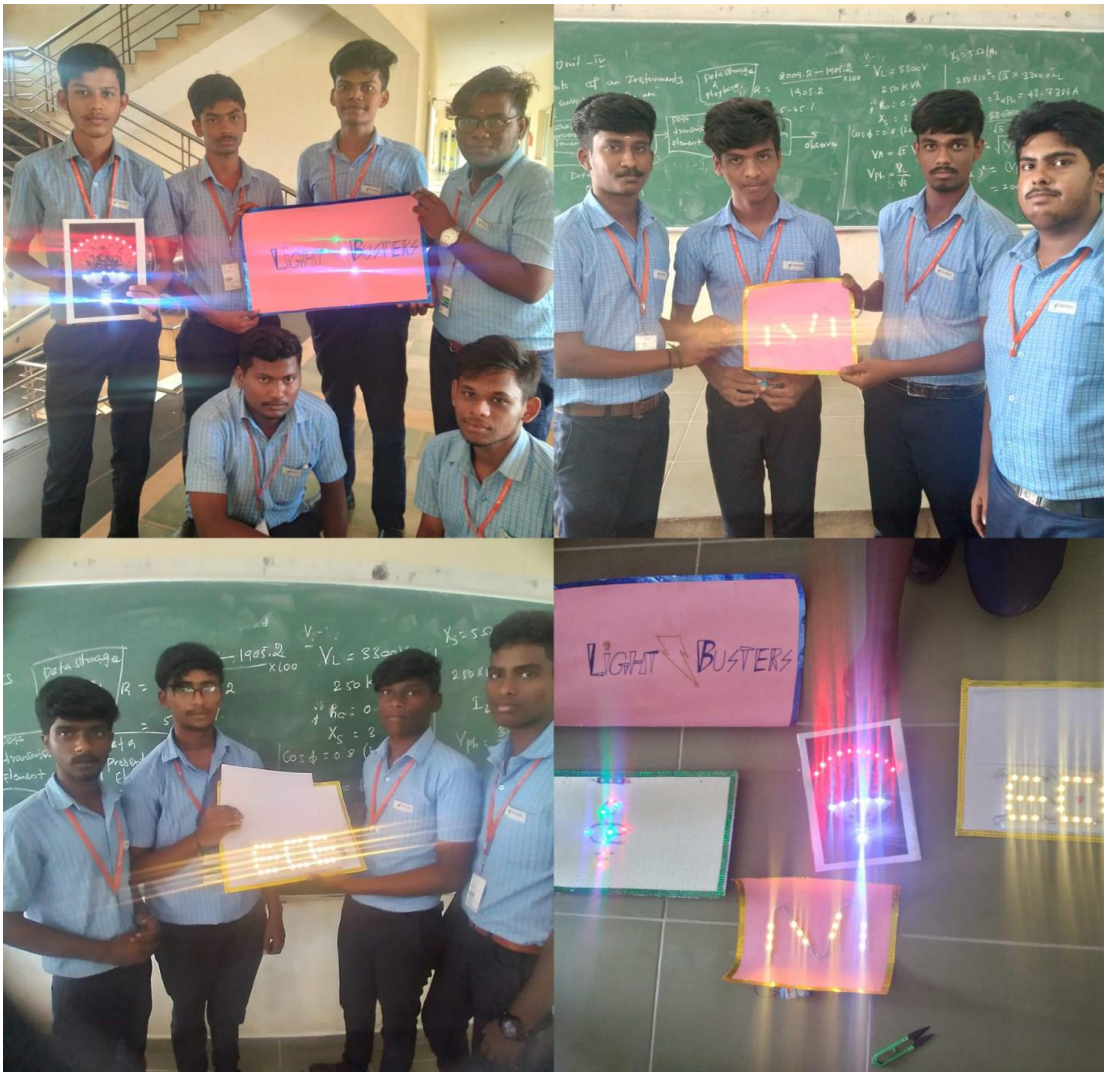
PSO2: Design, develop and analyze communication systems through application of fundamentals from communication principles, signal processing, and RF System Design & Electromagnetism.

PSO3: Adapt to emerging electronics and communication technologies and develop innovative solutions for existing and newer problems.

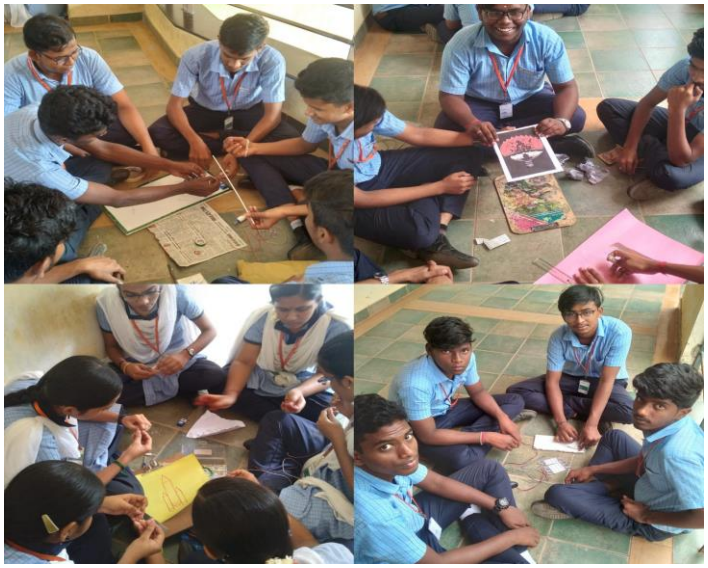
DEPARTMENT ACTIVITIES

TECHNICAL ACTIVITY

A technical activity titled "Making of Name Boards Using LEDs" was organized for first-year students on July 13, 2023. This activity enhanced their knowledge and understanding of LEDs, their properties, and their applications in various fields. The hands-on session provided valuable insights into LED-based designs, fostering creativity and technical skills among the students.



I - Year students showcasing their LED display

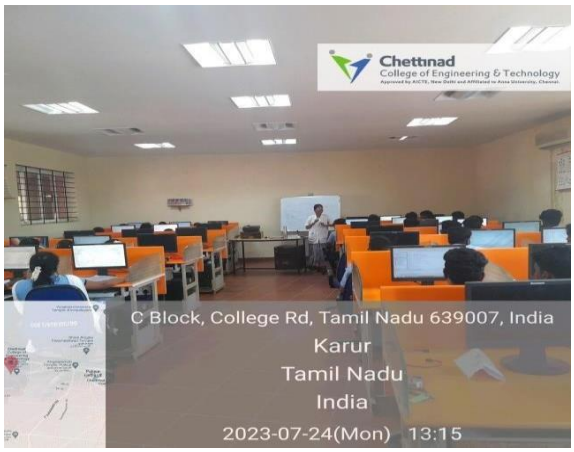


Talent wins' games, but teamwork and intelligence wins' championships -Michael Jordan

VALUE ADDED COURSE

The ECE Department successfully conducted a Three-Day Value-Added Course on "VLSI Design" from July 24, 2023, to July 26, 2023. The primary objective of this course was to provide students with a strong foundation in VHDL coding and various modeling techniques, including structural, behavioral, dataflow, and schematic-based VLSI design using Xilinx.

Students gained hands-on experience by designing digital circuits, such as logic gates, combinational circuits (Multiplexer, Demultiplexer, Encoder, Decoder), and sequential circuits (various Flip-Flop designs). Additionally, they explored CMOS logic design using Microwind tools.All third-year ECE students actively participated in the sessions, and by the end of the course, they had developed a deeper understanding of VLSI design concepts and circuit simulations.



QULAITY CIRCLE TIME

The ECE Department conducted Quality Circle Time sessions on "Impacts of Yoga" on July 25, 2023, and "Global Warming" on July 11, 2023. These sessions provided students with valuable insights into the benefits of yoga for well-being and the urgent need for environmental awareness to combat global warming.

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