

# CIRCUITRY

N E W S L E T T E R

ELECTRICAL & ELECTRONICS ENGINEERING



June - July 2022

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VOLUME  
NO. 3  
(Issue 3)

# CREATIVE DESK

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# CIRCUITRY CHRONICLES

NEWSLETTER

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### About the Department

The Department of Electrical and Electronics was established in the year 2008 with the aim of combining modern teaching methods with inter-disciplinary knowledge, human values and professional ethics. The department offers a unique blend of theory and practice. It provides a quality learning environment, in terms of state-of-the-art facilities, sharing and widening of knowledge through MoU with relevant industries and interacting with experts from academia and industry. The department is well equipped with state-of-the-art laboratories such as the Electrical Machines Lab, Electric Circuits Lab, Control Systems Lab, Measurement and Instrumentation Lab, Engineering Practices Lab, Power Electronics Lab, Power System Simulation Lab and Electric Drives and Control Lab. To improve practical and simulation skills, MATLAB Software with all tool boxes has been provided. Power World Simulator, MI Power, PSpice and MultiSim software programmes have been provided to improve the designing ability of the students.

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NEWSLETTER

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### VISION

- To create a thriving community where enduring student relationships flourish, fostering a culture of innovative idea development, socially responsible, and ethically driven engineers in the electrical industry.

### MISSION

- To nurture students, enabling them to effectively confront professional challenges and emerge as outstanding engineers and technocrats.
- To provide a holistic and comprehensive education that ensures total quality, encompassing broad exposure and value additions.
- To engage in research within the realm of Electrical and Electronics Engineering, addressing the needs of the industry, scientific community, and society at large.

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**Programme Name:** Inter Level Contest on “ELECTRONICA”

**Date:** 01-06-2022

**Coordinator:** Ms. A. Bhuvaneshwari, AP/EEE

**Class & No. of Participants:** II Year - IV Year & 60 students

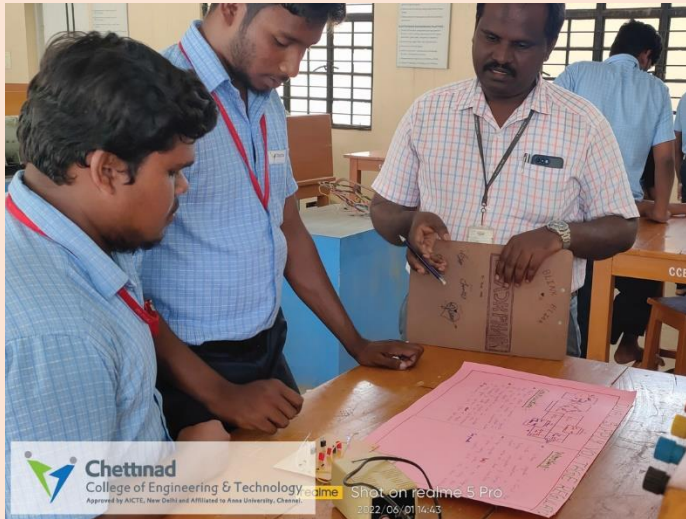
**Venue:** EEE Workshop Laboratory

**Description:**

The Department of Electrical and Electronics Engineering organised a contest “Electronica” on 1st June, 2022. A total of 60 students registered as two students per group. Finally, 21 groups were chosen to display their PCB Electronic Circuit in Ultiboard and then convert to PCB. Students presented their PCB designs, which featured Network Jammer, Dual RPS, and Battery Protection against Overcharging, to juries for evaluation. Our ChettinadTech internal faculty members, Dr. G. Sahaya Dennish Babu, AP/Physics, and Mr. S. T. P. Senthilkumar, AP/ECE, evaluated the PCB designs based on performance, working models, and output accuracy. Mr. B. Sathishkumar, our college Administrative officer honored the finest PCB design. The 1st prize was awarded to Mr. G. Bhuvanesh-II EEE, and Mr. P. Senthilmurugan -II EEE. The 2nd prize was awarded to Mr. G. Surendhar-III EEE, and Mr. V. Ponshankar-III EEE. The 3rd prize was awarded to Mr. H. Devendran-III EEE, and Mr. A. Arunkumar-III EEE. Mr. N. Vijayasarithi, HOD/EEE, thanked all the students who took part in the competition.

**Event Photos:**





Chettinad College of Engineering & Technology  
Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai  
Shot on realme 5 Pro  
2022\_06/01/16:43



Chettinad College of Engineering & Technology  
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2022\_06/01/15:43



Chettinad College of Engineering & Technology  
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2022\_06/01/15:45

**Programme Name:** 5 Days Energy Audit

**Date:** 12-07-2022 to 16-07-2022

**Convenor:** 1. Mr. P. Vijayasarithi, AP/EEE, 2. Mr. M. Vasanthprakash, AP/EEE

**Class & No. of Participants:** IV Year & 05 students

**Venue:** Government Hospital, Aravakurichi

**Description:**

On 12-07-2022 to 16-07-2022 (5 Days) Energy Audit at the Government hospital in Aravakurichi was successfully conducted by Mr. N. Vijayasarithi, Project Head, Mr. M. Vasanthprakash, Project Coordinator and Project members of final-year EEE Arunkumar A, Bharath S, Induma S, Indhumathi V, Kalpana S, Premalatha M and Shobana Reni D. The major goal of the energy audit is to gather and evaluate data, calculate the amount of energy consumption, and implement workable and accepted remedies. Evaluating energy consumption is the first step for engineers take when trying to reduce energy consumption. So, students measured the medical facility's electrical equipment power rating and estimated how much energy was used by each piece of equipment.

This result can help to show the energy consumption that could benefit from conservation or improved efficiency. As per the Specific Energy Consumption (SEC) consideration, Students calculated the Hospital's SEC and was taken as reference for comparison. The SEC was calculated to be 152 kWhr/day in the hospital. Energy Conservation Measures (ECM) with and without investment were recommended for potential energy savings for the hospital. Energy savings can be achieved by implementing the given proposals amounting to approximately Rs. 75,474.50 per annum. Finally, we submitted the energy audit report to the hospital administrators and received certificates for students and appreciation. Mr. N. Vijayasarithi, HoD/EEE, thanked all of the students who took part in the energy audit.

**Event Photos:**



**Programme Name:** Technical Training Session

**Date:** 28-07-2022

**Convenor:** 1. Mr. P. Pandi, AP/EEE, 2. Mr. S. Ragul, AP/EEE, 3. Ms. D. Pushpalatha, AP/EEE

**No. of Participants:** 26 students

**Venue:** EEE Machines Laboratory

**Description:**

The Department of Electrical and Electronics Engineering organized a Technical Training Session for Chettinad Vidya Mandir (CBSE) school students on 28-07-2022. The sessions were handled by Mr. P. Pandi, Sr.AP/EEE, Mr. S. Ragul, AP/EEE and Ms. D. Pushpalatha, Sr.AP /EEE of Chettinad College of Engineering & Technology on the topic of “Basics of Household Electrical Wiring & Components”. The students were given practical training to wiring connections of switches, Plug sockets, and Tube lights, and how to correctly wire them. Safe practices are covered in detail, including the use of circuit testers & earthing. As the outcome of the session, students will learn how to make small electrical projects and repairs around the home safely and competently. Totally 84 students attended this practical training session.

**Event Photos:**





INSTITUTION INNOVATION COUNCIL

## Chettinad Group

The Chettinad Group has over 90 years of experience facilitating a wide range of educational and service institutions successfully in Tamil Nadu. The group is currently responsible for 22 private and government-aided schools, Polytechnic Medical, Dentistry, Pharmaceutical, Engineering, Law and Architecture colleges.



## LIFE AT ChettinadTech



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