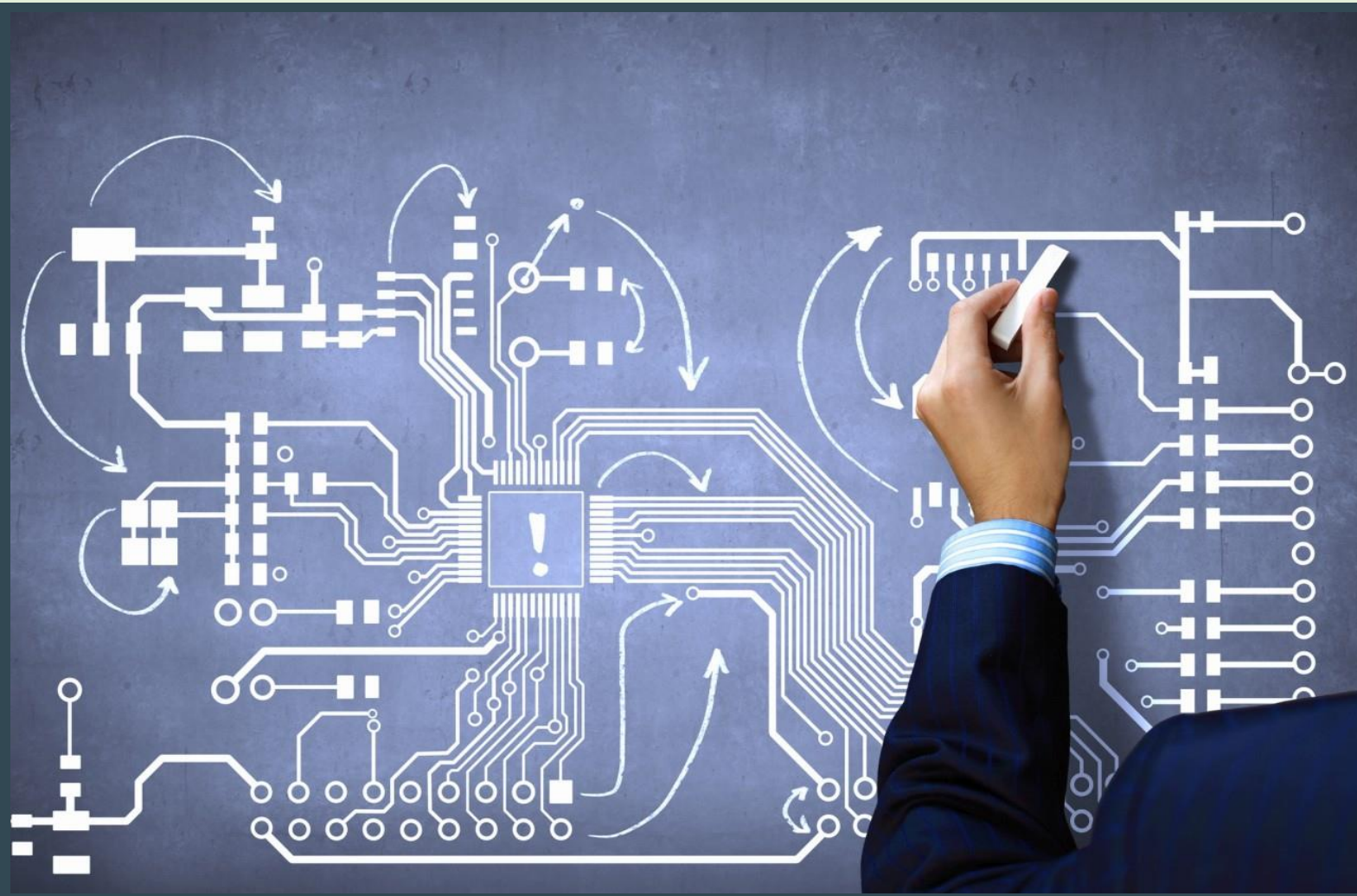


CIRCUITRY

N E W S L E T T E R

ELECTRICAL & ELECTRONICS ENGINEERING



October - December 2022

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Advisory Board



Editor-in-Chief



Board of Editors



Student Editors



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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.

VOLUME NO. 3
ISSUE 5
OCTOBER - DECEMBER 2022

CIRCUITRY CHRONICLES

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.

VOLUME NO. 3
ISSUE 5
OCTOBER - DECEMBER 2022

Programme Name: Industrial Training

Date: 08-10-2022 to 16-10-2022

Class & No. of Participants: III Year & 5 students

Venue: Chettinad Cement Corporation Limited, Karikkali Plant, Dindigul

Description:

Our 3rd EEE students are undergoing Industrial Training at Chettinad Cement Corporation Karikkali Plant, Dindigul from 08-10-2022 to 16-08-2022. This Industrial training includes the practical sessions related to handling electrical power in heavy equipment, controlling techniques used in cement manufacturing, Operation of electronic devices in cement factory, the movement of giant motors, arrangement of electrical disconnect switches, circuit breakers and safety electrical equipment in various section units and various controllers used to regulate power flow, temperature, pressure level, and many other industrial process variables.

Through this Industrial Training students could first-hand knowledge of the various electrical/electronic controllers and operation of modern heavy machinery at a large cement manufacturing plant. The skilled instructors from this factory guide the students every day. This Industrial Training helped prepare students to become technological professionals to electrical MNC's to meet the demands of technical experts.

Event Photos:



Programme Name: Alumni Guest Lecture

Date: 12-10-2022

Guest Speaker: Mr. D. Chandru, Automation Engineer, Saudi Arabia

Class & No. of Participants: II Year - IV Year & 78 students

Venue: C Block Seminar Hall

Description:

On 12-10-2022, The Department of Electrical and Electronics Engineering organised an alumni guest lecture on “Substation Automation System” for all ChettinadTech B.E-EEE students. Ms. S. Pavithra, 3rd year EEE, welcomed all the participants. Ms. R. Nikithalakshmi, 3rd year EEE introduced the chief guest to our participants. Mr. S. Ragul, AP/EEE honored the chief guest with a memento. In this alumni guest lecture, the chief guest Mr. D. Chandru, Automation Engineer in Saudi Arabia explained real-time monitoring and control software applications integrated with data acquisition and control hardware to operate the intuitive visualization and analyses through intelligent electronic devices (IED) to enhance control and automation capabilities within the substation, one-line diagram, geospatial view, and digital dashboards.

He referred to using ZENON software to run the substation in system configuration language as defined by IEC61850. Finally, he shared his work experience and discussed various opportunities in substation automation system (SAS) with our EEE students. Students actively participated in the questionnaire session and interacted with the chief guest. Ms. B. Menaga, 3rd year EEE, concluded the programme with a vote of thanks.

Event Photos:





Programme Name: Movie Time

Date: 19-10-2022

Movie Name: Rocketry: The Nambi Effect

Class & No. of Participants: II Year - IV Year & 63 students

Venue: G Block Seminar Hall

Description:

On 19-10-2022, the Department of Electrical and Electronics Engineering organized a screening of the film “Rocketry: The Nambi Effect”, for all EEE students. Our college is doing its part to provide our future generations with good, feel-good learning through movies. Movies have become everyone's favorite hobby; we made this arrangement to encourage our students to play their part in making and bringing smiles. “Rocketry: The Nambi Effect” is a 2022 Indian scientific biographical drama film, based on the life of Indian Space Research Organization scientist Nambi Narayanan, who was framed for being a spy and arrested in 1994. A biopic of ISRO scientist Nambi Narayanan, Rocketry is a formally conventional narration of the contributions of one of India's premier space scientists and the great personal cost that he is unfairly made to pay for the passion he had for his job and country. All the students internalized the good messages presented in the movie. This film encourages confidence, hard work, and goal-setting. Finally, Ms. S. Induma, Final-year EEE shared the movie reflection. She shared that “Rocketry: The Nambi Effect” is an emotional movie and how a country humiliates one of its finest citizens who has given everything for it. Ms. T. Priyadharshini, 3rd year EEE shared that, “it’s about the development of ISRO and reveals how the Indian scientist is struggling to launch and to invent a missile.

Event Photos:



Programme Name: One Day Industrial Visit

Date: 20-10-2022

Class & No. of Participants: III Year - IV Year & 49 students

Venue: Walwhan Renewable Energy Ltd, Veeriyampalayam, Karur.

Description:

On 20-10-2022, The Department of Electrical and Electronics Engineering organized a one-day industrial visit exclusively for all 3rd and final-year EEE students to Walwhan Renewable Energy Ltd in Veeriyampalayam, Karur under the guidance of Mr. P. Pandi, SAP/EEE, Ms. A. Bhuvaneshwari, SAP/EEE, Mr. M. Vasanthprakash, AP/EEE and Mr. S. Ragul, AP/EEE. The objective of the site visits is to explore and understand the real-time operation of a largest solar power plant. This solar power plant consists of around six thousand of solar panels distributed over a vast area of land 15 acres. The total power generated by this power plant is 50MW. The control room monitored the power output (DC to AC conversion) of 4MW * 13 units and the other control room monitored a power output of 110 kV (33kV to 110 kV Conversion). The participants will have a first-hand experience with the company that provides the production, collection, and distribution of electricity. Through this industrial visit, students are able to understand the concept of Solar energy, the working of photovoltaic cells, working of Solar panels, the conversion of DC to AC by using an Inverter unit, stepping up the voltage using a transformer unit, and the distribution of energy by a grid connection. Totally a batch of 49 students participated in this one-day industrial visit.

Event Photos:





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2022/10/20 11:03



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

2022/10/20 12:12

Programme Name: One-day Hands-on Training

Date: 29-10-2022

Course Instructor: Ms. A. Bhuvaneshwari, Sr. AP/EEE

Class & No. of Participants: II Year & 26 students

Venue: EEE Computer Laboratory

Description:

The Department of Electrical and Electronics Engineering conducted a One-day Hands-on Training on "Introduction to MATLAB and Automotive Electrical System Simulation and Control" for second year EEE students in G-Block Computer Lab on 29-10-2022, in order to enhance the knowledge of students on MATLAB/Simulink software. The sessions were conducted by our department internal faculty members Mrs. A. Bhuvaneshwari, Sr. AP/EEE & Mrs. D. Pushpalatha, Sr. AP/EEE, Chettinad college of Engineering and Technology, karur. This session was started by Mrs. A. Bhuvaneshwari, Sr. AP/EEE who explained in detail about the Mathematical Functions, Library, Files, Commands, Matrix operation and its Functions and Tool blocks.

The hands-on training was given on simple math functions like matrices, matrix multiplication of matrix, transpose etc., and design of controllers like P, PI and PID controllers to be used in an electrical automation system and students learnt about simulating the simple math functions, elements, switching devices used in various electrical circuits. And this training helped the students gain an insight on Automotive Electrical Systems and we hope that it will help in their future project works.

Event Photos:



Programme Name: Fresher's Day Celebrations

Batch: B15

Date: 14-11-2022

No. of Participants: 36 students

Venue: G Block Seminar Hall

Description:

On 14th November 2022, the Department of Electrical and Electronics Engineering organised Fresher's Party to welcome the new comers, Batch 15. The Fresher's Day Celebrations were conducted very enthusiastically by our second year EEE students under the guidance of Mr. P. Pandi, Sr. AP/EEE, Mr. M. Vasanthprakash, AP/EEE, Mr. S. Ragul, AP/EEE, Ms. A. Bhuvaneshwari, Sr. AP/EEE and Mr. N. Vijayasarathi, HOD/EEE.

Mr. P. Pandi, Sr. AP/EEE welcomed the Batch 15 students and EEE Department faculty members. The fresher's day was filled with excitement, joy, music, enthusiasm, laughter and happiness. It is the day where seniors and juniors finally bond and unite to celebrate being part of the college. Students were welcomed with great enthusiasm which was organized by our seniors. Freshers along with their seniors got chance to showcase their talent by Dancing, Singing, Drama. Later small games were organized to make the event more fun and challenging. The event was finally concluded with vote of thanks by Mr. S. Giri Prasath, second year EEE. Refreshments were served after the program.

Event Photos:



Programme Name: Movie Time

Date: 24-11-2022

Movie Name: HACHI: A Dog's Tale

Class & No. of Participants: I Year & 36 students

Venue: G Block Seminar Hall

Description:

On 24-11-2022, the Department of Electrical and Electronics Engineering organized a screening of the film “HACHI: A Dog's Tale”, for I year B.E-EEE students. Our college is doing its part to provide our future generations with good, feel-good learning through movies. As everyone has fond memories of their college days, when they spent time together, and movies have become everyone's favorite hobby, we made this arrangement to encourage our students to do our part in spreading joy. All the students internalized the good messages presented in the movie.

“HACHI: A Dog's Tale” is a 2009 American drama film, based on the real story. A spiritual reading of an immensely appealing drama about the extraordinary devotion of a dog for his beloved human companion. A professor finds an abandoned dog and takes him home. Over a period of time, he forms an unbreakable bond with the dog. Hachi's story is a beautiful testimony to loyalty, patience, and friendship. But it can also be seen from a spiritual perspective as a parable about the spiritual practice of yearning as a way we stay connected with the Divine. This film manages to keep the students confident, loyalty, patience, and friendship. Finally, Mr. K. Suren, I-EEE shared the movie reflection. He said "loyalty" which means "you should never forget anyone you have loved". Ms. V. RAMA, I-EEE shared the movie reflection. She shared that, “Like everyone, I love pet animals this movie about a dog’s love made the audience feel the same joy”.

Event Photos:



Programme Name: National Energy Conservation Day'2022

Date: 14-12-2022

Chief Guest: Mr. K. Kumar, Assistant Executive Engineer, TANGEDCO

Class & No. of Participants: I Year – IV Year & 72 students

Venue: C Block Seminar Hall

Description:

On December 14th, 2022, National Energy Conservation Day was organised by the Department of Electrical and Electronics Engineering. This programme aims to raise awareness among students about energy efficiency and national energy conservation. With the guidance of Mr. P. Pandi, SAP/EEE, Mr. S. Ragul, AP/EEE, Ms. D. Pushpalatha, SAP/EEE and Ms. P. Thenmozhi, AP/EEE the Department of Electrical and Electronics Engineering conducted an energy pictiography activity for 1st year students as well as a free-gen activity for 2nd year students to make them aware of energy conservation. Students displayed artwork and models of free energy projects for the special guest to view. The activity allowed the students to gain a deeper understanding of energy conservation at home and in college. The chief guest of this session was TANGEDCO's Assistant Executive Engineer, Mr. K. Kumar, who spoke about the importance of saving energy and the ways to conserve it. You can conserve energy by turning off the lights when you leave the room, unplugging appliances when not in use, and walking instead of driving. The chief guest presented certificates to the winners of the Energy Conservation Day 2022. A pledge-taking ceremony concluded the event. In this, the students took a pledge to use electricity sparingly.

Event Photos:







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