CIRCUITRY CHRONICLES

NEWSLETTER

ELECTRICAL & ELECTRONICS ENGINEERING

JANUARY - MARCH 2022

CONTACT US

CHETTINAD COLLEGE OF ENGINEERING & TECHNOLOGY

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VOLUME NO. 1

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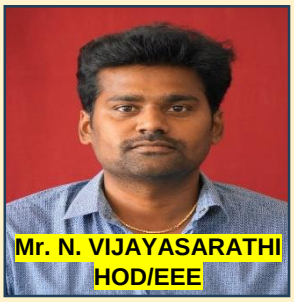
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NEWSLETTER

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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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.

Programme Name: PCB Design and Implementations of Electronic Circuits Using NI Multisim

Date: 24-02-2022 to 28-02-2022 (5 Days)

Course Instructor: 1. Mr. P. Pandi, AP/EEE, 2. Mr. M. Vasanthprakash, AP/EEE, 3. Mr. S. Ragul, AP/EEE

Class & No. of Participants: II Year & 29 students

Venue: G Block EEE Computer Lab

Description:

The Department of Electrical and Electronics Engineering organized a Value Added Course on "NI Multisim" for 2nd Year EEE students from 24th February 2022 to 28th February 2022. The sessions were handled by the internal faculty members of EEE Department Mr. P. Pandi, AP/EEE, Mr. M. Vasanthprakash, AP/EEE and Mr. S. Ragul, AP/EEE on the topic of PCB Design and Implementations of Electronic Circuits using Multisim. The students were given hands on training to design Dual Power Supply Voltage Regulators (5 Volts and 12Volts), Bridge Rectifier and Continuity Tester Printed Circuit Boards and Simulate experiments using NI Multisim Simulation and NI Ultiboard Software. Totally 29 students attended this course.

Event Photos:


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College of Engineering & Technology
NI MULTISIM
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College of Engineering & Technology


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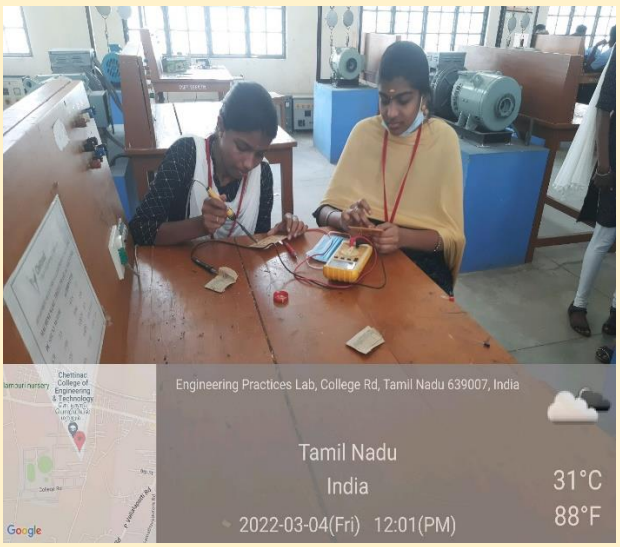
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Programme Name: Power Converters for Renewable Energy Systems

Date: 23-02-2022 to 28-02-2022 (5 Days)

Course Instructor: 1. Ms. A. Bhuvaneswari, AP/EEE, 2. Ms. D. Pushpalatha, AP/EEE,

3. Ms. P. Thenmozhi, AP/EEE, AP/EEE

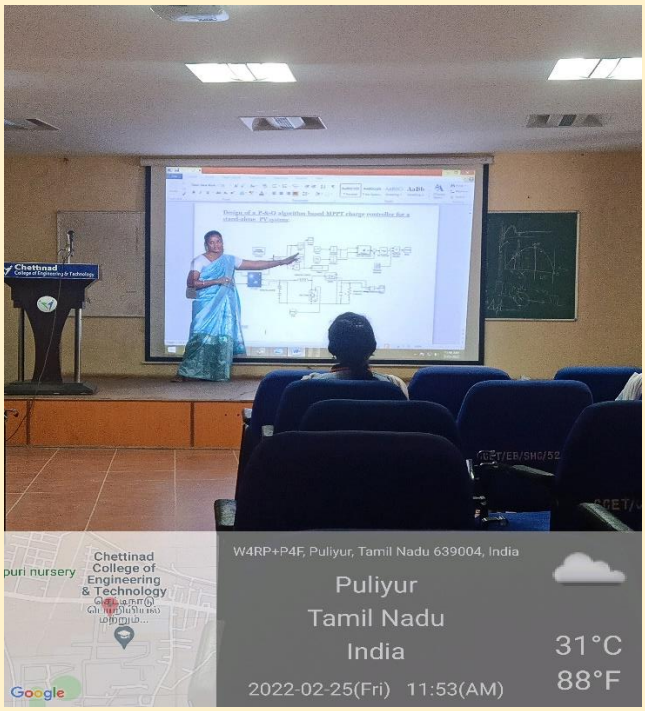
Class & No. of Participants: IV Year & 19 students

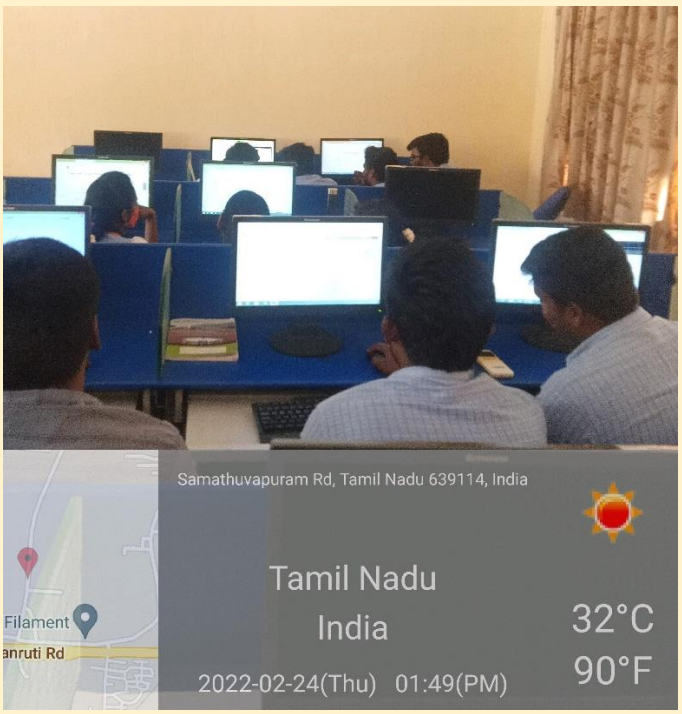
Venue: G Block EEE Computer Lab & RES Laboratory

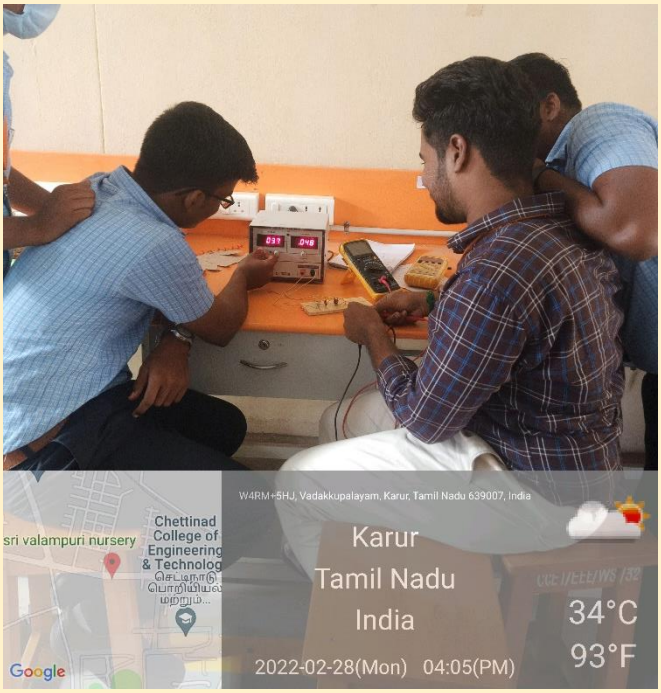
Description:

The Department of Electrical and Electronics Engineering conducted a 5-days Value Added Course on "Power Converters for Renewable Energy Systems" exclusively for IV-Year EEE students from 23rd February to 28th February, 2022. The Sessions were handled by Ms. A. Bhuvaneswari, AP/EEE, Ms. D. Pushpalatha, AP/EEE and Ms. P. Thenmozhi, AP/EEE. During this course, Students designed a layout model by using MATLAB Simulink software to test the performance of various Power Electronics Converters such as Buck, Boost, and Buck-Boost Converters with Maximum Power Point Tracking systems for Solar Charge Controllers. For the "Automatic Power control of Solar Powered Street Light" students developed a charge controller using Power Electronics switches (MOSFET) to manage the battery charging and also design an LDR circuit to automatically turn on and off. The Students were given hands on training to design Power Converters for a variety of Renewable Energy Systems. Totally 19 students attended this course.

Event Photos:



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Programme Name: Hands-on Training in LABVIEW

Date: 24-02-2022 to 02-03-2022 (6 Days)

Course Instructor: 1. Mr. G. Nagaraj, Vi Solutions, Bangalore

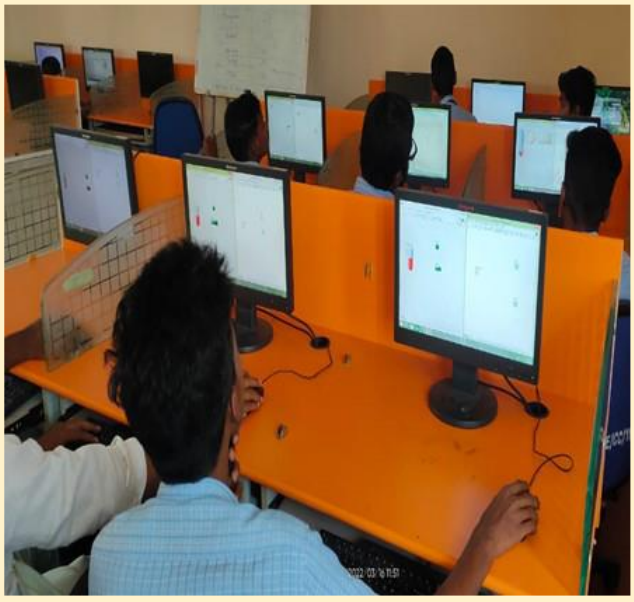
Class & No. of Participants: III Year & 28 students

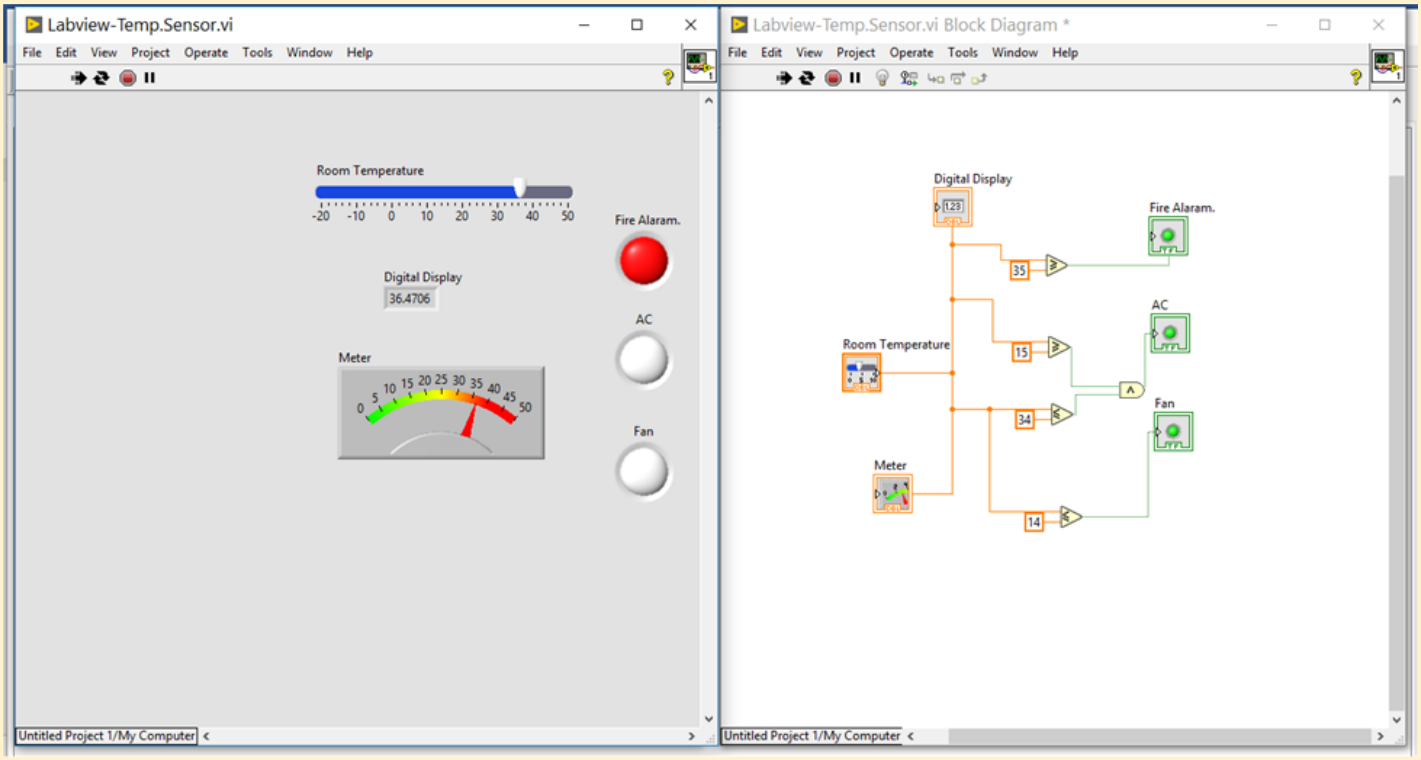
Venue: ECE DSP Laboratory

Description:

To enhance practical knowledge and software skills among Electrical and Electronics Engineering students, a Hands-on Training Programme on LABVIEW was conducted from 28th February to 2nd March 2022. The session was exclusively designed for third-year EEE students, with 28 students actively participating in the training. The training was delivered by Mr. G. Nagaraj, a seasoned professional from Vi Solutions, Bangalore, who brought valuable industrial insights and practical applications into the session. During the three-day program, students were introduced to the fundamentals of LABVIEW, graphical programming, and its applications in real-time data acquisition, instrumentation, and control systems. This hands-on approach provided the participants with experiential learning, enabling them to develop and test virtual instruments using LABVIEW software. The program played a crucial role in bridging the gap between academic learning and industrial applications, thereby preparing students for future technical roles in automation and embedded system design.

Event Photos:

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RATING

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