

CHETTINAD COLLEGE OF ENGINEERING & TECHNOLOGY, KARUR

Department of Electrical & Electronics Engineering

Value-Added Course: Design and Implementation of 1.5KV ON/OFF grid for Solar Energy System

Date: 30-01-2025 to 01-02-2025

Class & No. of Participants: III Year & 40 Students

Venue: G Block Computer Lab & EEE Workshop Lab

Course Coordinators: 1. Dr. M. Senthilkumar, Prof./EEE, 2. Dr. P. Pounraj, ASP/EEE,
3. Ms. A. Bhuvaneshwari, AP/EEE, 4. Ms. P. Thenmozhi, AP/EEE

Description:

Our EEE Department successfully conducted a Value-Added Course for III Year EEE students titled “Design and Implementation of a 1.5 Kw On/Off-Grid Solar Energy System” from January 30 to February 1, 2025. This course enabled our students to develop knowledge in efficient energy conversion, power storage, and seamless integration with the grid or autonomous operation for a reliable power supply. They learned to design and implement a 1.5kW on-grid/off-grid solar energy system, optimizing power generation, storage, and integration with the grid or standalone operation using MATLAB. All students designed and simulated an on-grid solar-wind power system for a commercial building using MATLAB and implemented a 1.5kW Solar Energy System. A total of seven prototype models were developed by the students.

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Value-Added Course Photos:



