

CHETTINAD COLLEGE OF ENGINEERING & TECHNOLOGY, KARUR

Department of Electrical & Electronics Engineering

Value-Added Course: Power Supply Design: From Concept to Fabrication

Date: 24-01-2025; 27-01-2025 & 28-01-2025 (3 Days)

Class & No. of Participants: II Year & 35 Students

Venue: G Block Computer Lab & EEE Workshop Lab

Course Coordinators: 1. Dr. P. Pounraj, ASP/EEE, 2. Mr. S. Ragul, AP/EEE,
3. Mr. M. Vasanthprakash, AP/EEE,

Description:

The Value-Added Course on 'Power Supply Design: From Concept to Fabrication' was successfully conducted on January 24, 27, and 28, 2025, for second-year EEE students at Chettinad College of Engineering and Technology. The course provided an in-depth understanding of designing and fabricating regulated power supplies, equipping students with essential theoretical knowledge and practical skills. The sessions focused on fundamental electronics concepts, power supply analysis using MATLAB, hands-on training with circuit components, and step-by-step fabrication techniques. Students actively participated in designing and testing circuits, gaining real-time experience with diodes, capacitors, inductors, and voltage regulators.

The practical sessions were conducted in the EEE workshop lab and computer lab, ensuring an effective learning environment with adequate resources. Throughout the course, students engaged in various exercises that enhanced their problem-solving abilities, critical thinking, and creativity. They successfully completed hands-on projects, demonstrating their ability to design, analyze, and fabricate power supply circuits (5 volts & 12 volts). The course met its objectives effectively, with students appreciating the practical exposure and learning outcomes.

Value-Added Course Photos:

