



Rajarajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi,
Approved by AICTE, UGC &GoK, Accredited by ISO 9001-2015 Certified Institution)
Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST



Department of Robotics and Automation

Faculty Skill Enhancement Activity

NAME OF THE DEPARTMENT: Department of Robotics and Automation

1. Type of Event : Webinar on Circuit Design & Simulation of Electro-Technical System
2. Date of the programme : Thursday, 23rd January 2025
3. Faculty member attended : Dr.M.Karthikeyan,
Dy. CoE and Professor
Department of Robotics and Automation
Rajarajeswari College of Engineering
Bengaluru 560074

4. Gained the knowledge on

- **Deep Knowledge of Electro-Technical Systems:** Gain a solid understanding of electro-technical systems, including power distribution, electrical circuits, and key components such as resistors, capacitors, transformers, and switches.
- **Circuit Design Skills:** Learn how to design electrical circuits for various electro-technical systems, focusing on correct component selection, power flow, and safety measures to ensure efficient and reliable designs.
- **Simulation Techniques for Validation:** Develop skills in simulating electro-technical circuits using software tools (like MATLAB, PSpice, or AutoCAD Electrical), enabling you to test designs virtually and predict their real-world behavior before implementation.
- **Troubleshooting and Optimization:** Learn how to diagnose problems in electrical circuits and optimize designs to enhance performance, efficiency, and safety in electro-technical systems.
- **Understanding Practical Applications:** Understand how electro-technical systems are applied in real-world scenarios, such as in renewable energy setups, industrial automation, and electrical engineering projects, and how to adapt your designs for different industry needs.

Report prepared by Dr.M.Karthikeyan, Dy. CoE and Professor, R&A

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CERTIFICATE

PROUDLY PRESENTED TO

Dr Karthikeyan M

Circuit Design & Simulation of Electro-technical System

Jan 23, 2025

Date of Completion

Automation Studio™ Webinar

Organizer

