ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recognized by Govt of AP, Affiliated to JNTUK, Kakinada)

An ISO 9001 : 2008 Certified Institution

Govt Polytechnic Post, ITI Road, ALC Campus, Near Ramesh Hospital, Vijayawada-8

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSES :

UG : ELECTRICAL AND ELECTRONICS ENGINEERING   **:**   **60 (Intake)**

LABORATORIES : EEE

1. **ELECTRICAL CIRCUITS LAB**

2. **ELECTRICAL MACHINES LAB**

3. **POWER SYSTEMS LAB:**

4. **ELECTRICAL MEASURMENTS LAB**

5. **CONTROL SYSTEMS LAB**

6. **POWER ELECTRONICS LAB**

7. **MICROPROCESSOR LAB**

8. **ELECTRICAL SIMULATION LAB**

ELECTRICAL CIRCUITS LAB

This lab aims at familiarizing the students with the different theorems, laws, networks, circuits and to provide a clear concept with basic ideas related to electrical circuits RC, RL, LC, RLC. This lab also provides the platform for understanding the operation of DC and AC machines.

ELECTRICAL MACHINES LAB

This laboratory imparts the knowledge about characteristics and behaviour of DC and AC Machines

POWER SYSTEMS LAB:

This lab imparts knowledge about different types of relays, study of synchronous machines and transmission line simulator.

ELECTRICAL MEASURMENTS LAB

This lab aims at providing the basic concepts for measuring the different electrical parameters like resistance, capacitance, inductance, and unknown parameters to impart knowledge on the working of different types of measuring instruments.

CONTROL SYSTEMS LAB

This lab provides kits to study synchro transmitter receiver pair, P, PI, PID Controller, Lag, and Lead Compensator, PLC trainer kit etc.,

POWER ELECTRONICS LAB

This lab is used to study the characteristics of power switching devices, converters and speed control of electrical machines. This lab also provides the facility to study characteristics of different electronic circuits.

MICROPROCESSOR LAB

This lab provides kits for programming using instructions of the 8086 processor and 8051 microcontroller along with interfacing.

ELECTRICAL SIMULATION LAB

This lab provides different softwares like MATLAB, PS-PICE, PSCAD and Mi-power to analyze different applications.