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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Laboratories List

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ENGINEERING PRACTICES LABORATORY

Train the students to learn and do Residential house wiring using switches, fuse, indicator, lamp and energy meter. Fluorescent lamp wiring. Stair case wiring.

Measurement of electrical quantities such as voltage, current, power & power factor in RLC circuit, single phase energy meter, resistance to earth of electrical equipment.





ENGINEERING PRACTICES LABORATORY





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

POWER ELECTRONICS AND DRIVES LABORATORY

Ability to practice and understand converter and inverter circuits and apply software for engineering problems. Learn about switching characteristics of various switches. To analyze about AC to DC converter circuits. knowledge on AC to AC converters.





PRINCI 11

POWER ELECTRONICS LABORATORY





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POWER ELECTRONICS LABORATORY





PRINC 21

POWER ELECTRONICS LABORATORY





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECTRICAL MACHINES LABORATORY

1. Ability to understand and analyze, both AC and DC Generator, Motor and Transformers.

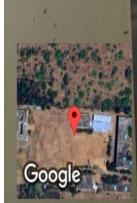
2. Ability to understand and analyze EMF and MMF methods, characteristics of V and Inverted V curves, importance of Synchronous machines, importance of Induction Machines and acquire knowledge on separation of losses.





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ELECTRICAL MACHINES LABORATORY



Amaravathi, Tamil Nadu, India 2Q56+P4R, Amaravathi, Tamil Nadu 630301, India Lat 10.00929° Long 78.760213° 26/07/23 12:42 PM GMT +05:30



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💽 GPS Map Camera

ELECTRICAL MACHINES LABORATORY





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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COMPUTER LABORATORY

To learn about power system planning and operational studies. Acquire knowledge on Formation of Bus Admittance and Impedance Matrices and Solution of Networks. Analyze the power flow using GS and NR method. Find Symmetric and Unsymmetrical fault. Understand the economic dispatch. Analyze the electromagnetic transients.





PRINCI Sri Raaja Raajan College of Engg. & Tech Amaravathipudur, Karaikudi - 630 301 Sivagangai Dist. Tamil Nadu

COMPUTER LABORATORY

💽 GPS Map Camera

Amaravathi, Tamil Nadu, India 2Q56+P4R, Amaravathi, Tamil Nadu 630301, India Lat 10.00918° Long 78.761094° 26/07/23 12:00 PM GMT +05:30



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CONTROL AND INSTRUMENTATION LABORATORY

Students learn about P, PI and PID controllers, Stability Analysis, Modeling of Systems, Machines, Sensors and Transducers, Design of Lag, Lead and Lag-Lead Compensators, Position Control Systems, Synchro-Transmitter-Receiver and Characteristics, Simulation of Control Systems by Mathematical development tools.

Bridge Networks -AC and DC Bridges, Dynamics of Sensors/Transducers (a) Temperature (b) pressure (c) Displacement (d) Optical (e) Strain (f) Flow 10 Power and Energy Measurement, Signal Conditioning (a) Instrumentation Amplifier (b) Analog – Digital and Digital –Analog converters (ADC and DACs) and Process Simulation





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