



CIRCUITS AND SIMULATION INTEGRATED LABORATORY

Laboratory In-charge : Mr. S. Syed Husain AP/ECE

Technical supporting staff: Mrs. J. Premalatha



Snapshot of Circuits and Simulation Integrated Laboratory

Area of the laboratory: 97.61 Sq.m



Major equipment:

- Cathode Ray Oscilloscope
- Function Generator
- Single Regulated Power Supply
- Dual Regulated Power Supply
- Decade Resistance, Condenser and Inductance Box
- Digital LCR Meter
- Digital Ammeter, Voltmeter, Multimeter and Orcade Software

List of Experiments:

- Calculation of Frequency response, Input and output impedance for Series and Shunt feedback amplifiers
- Design and analysis of RC Phase shift oscillator and Wien Bridge Oscillator
- Design and analysis of Hartley Oscillator and Colpitts Oscillator
- Design and analysis of Single Tuned Amplifier
- Design and analysis of RC Integrator and Differentiator circuits
- Design and analysis of Clippers and Clampers
- Design and analysis of Free Running Blocking Oscillators
- Simulation of Tuned Collector, Twin-T, Double and Stagger tuned Oscillator
- Simulation of Bi stable Multivibrator, and Monostable Multivibrator with emitter timing and base timing
- Simulation of Schmitt Trigger circuit with Predictable hysteresis
- Simulation of Voltage and Current Time base circuits

Beyond the syllabus experiments:

- Free Running Blocking Oscillator
- Voltage and Current time Base circuit

Utilization of the laboratory:

- Circuits And Simulation Integrated Laboratory for ECE II year/IV sem