



**ANALOG AND DIGITAL CIRCUITS LABORATORY**

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

Technical supporting staff: Mrs. J. Premalatha



Snapshot of Analog and Digital Circuits 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 Box
- Decade Inductance Box
- Digital Ammeter, Voltmeter, Multimeter
- Decade Condenser Box
- Digital LCR Meter
- Fixed Power Supply
- Digital IC Trainer Kit
- Digital IC Tester

**Major Experiments:**

- Design of Half Wave and Full Wave Rectifiers,
- Design of Filters, Power supplies
- Design of Darlington Amplifier, Differential Amplifier
- Design of Class A and Class B Power Amplifier
- Design of Cascode/cascade Amplifier
- Determination of bandwidth of single stage and multistage amplifiers
- Spice Simulation of Common Emitter and Common Source amplifiers
- Design and implementation of code converters using logic gates

**Beyond the syllabus experiments:**

- Shift Register
- Fire Alarm using Thermistor

**Utilization of the laboratory:**

- Analog and Digital Circuits Laboratory for II year ECE / III sem