LINEAR INTEGRATED CIRCUITS LABORATORY

Laboratory Incharge: Mrs. J. RoselinSuganthi AP/ECE

Technical supporting staff: Mrs. M. Brindha

Snapshot of Linear Integrated Circuits Laboratory

Area of the laboratory: 87.71 Sq.m

Major equipment:

- IC Tester
- Dual Regulated Power Supply
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- Dual Oscilloscope (CRO)
- DDS Function Generator
- Analog System Design Kit(ASLK-Pro)

List of Experiments:

- Design and testing of Inverting, Non inverting and Differential amplifiers
- Design and testing of Integrator, differentiator and Instrument amplifiers
- Design and testing of Active low pass, High pass and band pass filters
- Design and testing of Astable & Monostable multivibrators and Schmitt Trigger Phase shift and Wien bridge oscillators using op amp
- Design and testing of Astable and Mono stable multivibrators using NE555 Timer
- Design and testing of PLL characteristics and its use as Frequency Multiplier
- Design and testing of DC power supply using LM317 and LM723
- Study of SMPS
- Simulation of various amplifiers, D/A, A/D converters, Analog Multiplier, CMOS Inverter, NAND and NOR

Beyond the syllabus experiments:

- Pulse width modulation using IC 555
- Adder and Subtractor using IC 741

Utilization of the laboratory:

- Linear Integrated Circuits Laboratory for ECE II year/IV sem