

Laboratory Name: Analog Integrated Circuits Laboratory
Laboratory In-Charge: Dr. Ezhil E. Nithila

Venue: 1422
Qualification: M.Tech., Ph.D.,

TECHNICAL MANPOWER

Laboratory Assistant: Mr. H. Vivek Kumar
Qualification: Diploma (EEE)

LABORATORY SPACE AND STUDENT ALLOCATION

Area of the Laboratory : 160 sq.m
No. of students per session : 30
Batch Size : 3 students / batch
Weekly Utilization Status : 28 hours / week

DESCRIPTION ABOUT THE LABORATORY

The Analog Integrated Circuits Laboratory is equipped with Oscilloscopes, Function Generators, Arbitrary Function Generators, and Regulated Power Supplies to facilitate the study of analog blocks such as amplifiers, oscillators and filters. It enables students to understand analog circuit behavior and provide practical exposure to real-world analog integrated circuit systems.

COST OF THE LABORATORY

Total cost major equipment : Rs. 11,97,747.00
Instruments : Rs. 1,37,214.00
Overall cost of the Laboratory : Rs. 13,34,961.00

OBJECTIVES

- To bridge the gap between theoretical knowledge and practical applications in analog circuits.
- To analyze circuit performance using instruments like Digital Storage Oscilloscope and Function Generator.
- To develop practical skills in designing and testing analog electronic circuits.

LIST OF MAJOR EQUIPMENT

S.No	Equipment Name	Quantity	Cost (Rs.)
1	Digital Storage Oscilloscope (DSO)	10	2,54,724
2	Cathode Ray Oscilloscope (CRO)	16	3,17,738
3	Dual Regulated Power Supply (DRPS)	53	2,92,940
4	Function Generator (FG)	42	2,48,565
5	Arbitrary Wave Function Generator (AWFG)	2	83,780
Total Cost			11,97,747



Digital Storage Oscilloscope



Dual Regulated Power Supply



Cathode Ray Oscilloscope



Arbitrary Wave Function Generator



Function Generator