

Pulse and Switching Circuits Lab & Analog Integrated Circuits Lab



Objective:

The Pulse and Switching Circuits lab is specially designed and developed for the students to observe the characteristics of various electronic circuits that use linear and non-linear components. This lab is well provided with equipment like Cathode Ray Oscilloscopes (CRO), Digital Oscilloscopes, Function Generators, IC Tester and digital multi-meters. This lab gives practical observation and response of electronic circuits that uses different devices. This gives a good foundation to students to get exposure on the functional characteristics and response of electronic devices. At the end of the lab course the student will be able to handle any electronic circuit and apply its application in designing digital circuits.

The Analog Integrated Circuits lab provides the practical knowledge on Op-Amp applications like arithmetic circuits, filters and oscillators also provides knowledge on IC555 timer and IC723. At the end of the course, students will be able to Build the basic applications of op-amp, VCO and PLL, Design filters, Oscillators and DAC using IC 741 Op-Amp, Implement Multivibrators and Voltage Regulators using ICs.

Area of the Lab: 132.2 sqm

Details of the Equipment:

S.No	Name of the Equipment	Quantity
1	Cathode Ray Oscilloscope (CRO)	15
2	Function Generators (FG)	15
3	Regulated Power Supply (RPS)	15
4	Digital Trainer Kits	10
5	DMM	20
6	Trainer Kits	21
7	Analog & Digital IC tester	01

Lab Cost:

S.No	Academic Year	Expenditure during this Year	Total Expenditure
1	2020-21	Rs. 45,343/-	Rs. 9,08,925/-
2	2019-20	Rs. 2,771/-	Rs. 8,63,582/-
3	2018-19	Rs. 2,29,045/-	Rs. 8,60,811/-
4	2017-18	Rs. 76,841/-	Rs. 6,31,766/-
5	2016-17	Rs. 1,06,303/-	Rs. 5,54,925/-
6	2015-16	Rs. 4,48,622/-	Rs. 4,48,622/-

Lab Incharge:

Dr. Y. V. N. R. Swamy, Assoc. Professor, Dept. of ECE

Supporting Staff:

1. Mr.P.N.S.Vittal, Foreman, Dept. of ECE
2. Ms. N. Rajeswari, Lab Technician, Dept. of ECE

PHOTOS:

