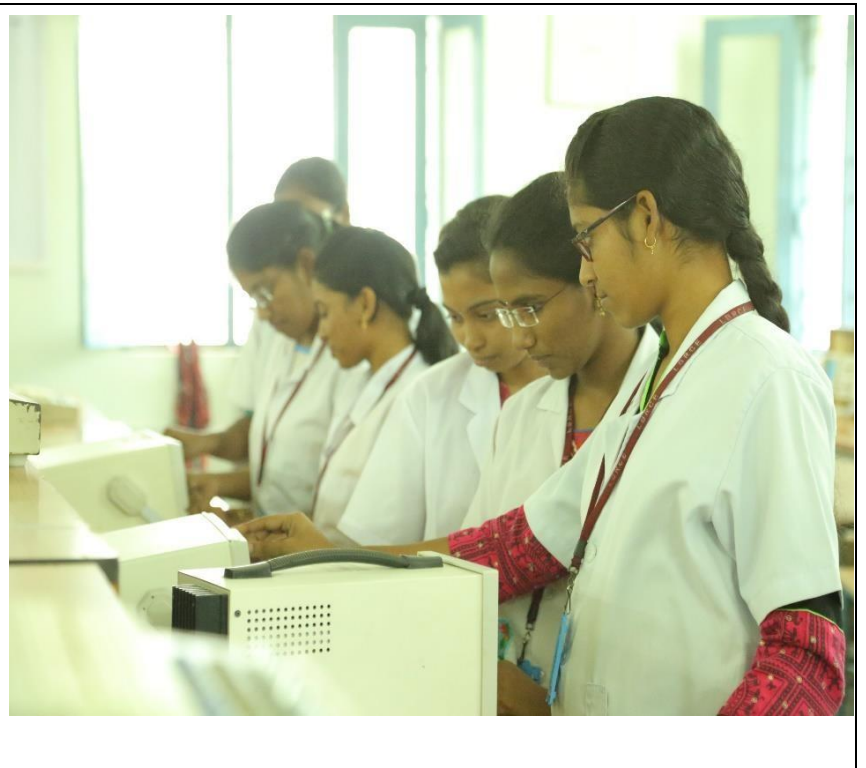


Analog Integrated Circuits Lab

This course 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.





Major Equipment:

S.No.	Name of the Equipment	Qty.	Cost in Rs.
1	Cathode Ray Oscilloscope (CRO)	15	225000
2	Function Generators (FG)	15	150000
3	Regulated Power Supply (RPS)	15	150000
4	Digital Trainer Kits	10	75600
5	DMM	20	6000
6	Trainer Kits	21	50000
7	Analog&Digital IC tester	01	56000
Total			7,37,000

List of Experiments (As per curriculum):

S.No.	Name of the Experiment
1.	Arithmetic circuits using Op-Amp.
2.	Integrator and differentiator using Op-Amp
3.	Function Generator Using Op-Amp
4.	Low Pass and High Pass Filters using Op-Amp
5.	Band Pass Filter using Op-Amp
6.	Band Stop Filter using Op-Amp
7.	. RC Phase shift Oscillator using Op-Amp
8.	Wien Bridge Oscillator using Op-Amp
9.	Monostable and AstableMultivibrators using IC 555
10.	Voltage Controlled Oscillator
11.	Phase Locked Loop
12.	Voltage Regulator Using IC 723
13.	Digital to Analog Converter using Op-Amp

List of Experiments (Beyond the Syllabus):

S.No.	Name of the Experiment
1	Pulse Width Modulation using IC555.
2	Schmitt Trigger using555.

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LabCo-Incharge : Dr.B.Y.V.N.R.Swamy, Assoc.Professor.
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