



# SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN

(Autonomous)

Department of Electronics & Communication Engineering

Vishnupur, Bhimavaram - 534202

IC APPLICATIONS Laboratory

**Laboratory-In-Charge:** Mr. V.Srinivasa Rao

**Laboratory-Technician:** Mr. P.Chiranjeevi Varma

**Objective:**

To educate students with the knowledge of designing various circuits using Op-Amp and verify the applications of op amp, Design different timing circuits using IC 555 timer, applications of PLL in industry for control systems. In this Lab students are doing mini projects and main projects using different ICs and discrete components. The students are improving their designing skills to implement different projects. With the help of these projects students are in a position to face interviews for core companies such as John Deere, HCL, and Siliconus etc.



Lab Equipment:

S.NO	ITEM DESCRIPTION	QTY
1	RPS 0-30V VARIABLE	13
2	FUNCTION GENERATORS (1 - 1M hz)	2
3	FIXED POWER SUPPLIES	11
4	Digital Ic Tester	1
5	DIGITAL IC TRAINER KITS	11
6	4.5 DIGIT MULTIMETER	3
7	SCIENTIFIC CRO (30 Mhz)	3
8	SCIENTECH CRO (20 MHz)	14
9	FUNCTION GENERATORS (1 - 1M hz)	8
10	FUNCTION GENERATORS (1 - 1M hz)	5
11	Analog IC Tester	1
12	LINEAR WAVE SHAPING	2
13	BI-STABLE MULTIVIBRATOR	1
14	ADDER,SUBTRACTOR & COMPARATOR KIT	2
15	INTEGRATOR & DIFFERENTIATOR KIT	2
16	FIRST ORDER (LPF,HPF) FILTER	2
17	PHASE SHIFT & WEIN BRIDGE OSC KITS	2
18	Bpf, Band Reject & Nokch Filter	3
19	ASTABLE & MONSTABLE MULTIVIBRATORS	2
20	SCHMITT TRIGGER	2
21	PLL APPLICATIONS	2
22	VCO APPLICATIONS	2
23	VOLTAGE REGULATOR(USING 723)	2
24	3 TERMINAL VOLTAGE REGULATOR	2
25	4 BIT DATA USING OP-AMP	2
26	DIGITAL MULTIMETER	2
27	10 MHz Function Generator	2