

SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN

(Autonomous)

Department of Electronics & Communication Engineering

Vishnupur, Bhimavaram - 534202

MICROPROCESSOR AND MICROCONTROLLERS LAB

Laboratory-In-charge : Mr. M. V. Ganeswara Rao

Laboratory-Technician : Mr. P. Narasimha Rao

OBJECTIVE:

This lab gives the exposure on 8086 microprocessors and 8051 microcontroller to the students. In this lab, the students are trained to write the programs using various instructions of 8086 microprocessors and 8051 microcontroller using TASM .and Kiel IDE respectively. This lab is also useful for the students, to introduce the interfacing of various input and output devices like display, rotating motors to 8086 microprocessors and 8051 microcontroller.



LAB EQUIPMENT:

S.No.	Item Description	Qty
1	8086 Micro Processor Kits	11
2	8051 Micro Controller Kits	10
3	RTC (Real Time Clock)	2
4	Traffic Light Controller	2
5	Elevator Simulator	2
6	ADC & DAC Card (2)	3
7	Stepper Motor Controller (2)	2
8	Interrupt Base Controller	2
9	SPDT, LED & Key Board Interface	2
10	Key Board & Display Interface	2
11	Micro Processor Based Temp. Controller Kits	1
12	16 Channel ADC Card	1
13	Digital Multimeter	2
14	Dual Trace Oscilloscope (30 MHz)	3
15	RTC Card (Compatible With 8086,8051)	1
16	8279 Display &Keyboard	1
17	8255 Study Card	1
18	8251 ,8253 Interfacing Card	2
19	PC Based High Speed Data Acquisition Card (8bit/16 Bit)	1
20	Display Interfacing Board	1
21	Printer Port (Enhanced Parallel Port Card)	2
22	Computer: Intel Pentium Duo Core E2140 Processor, 15" TFT Monitor	36
23	KEIL PK51-ED25-LC (C51 Professional Developer's Kit 25)	1
24	Single chip MCU Trainer based on 89C51ED2 with USB	18
25	Dual DAC Interface	2
26	4 * 4 Matrix Hex Keypad interface	2
27	Stepper Motor interface	2
28	Logic Controller interface	2
29	Adriano Kits 1.6.3 (Development Boards)	6
30	UPS-10KVA with 16 Nos Batteries	1