

DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY

DEPARTMENT OF ECE

MICROPROCESSOR AND MICROCONTROLLER LAB



DESCRIPTION OF THE LAB

The Microprocessor and Microcontroller lab enables students to carry out assembly language programming, for microprocessors (8085 & 8086) and microcontroller (8051). Various experiments are also performed using the hardware such as Serial and Parallel interfacing, Stepper Motor, ADC/DAC interfaces. Students use the MACRO Assembler simulator (MASM) to execute Assembly language programming on a PC.

MAJOR EQUIPMENTS

Hardware

- 8086 Microprocessor Trainer kit
- Interfacing Units-8255 Interfacing card
- 8279 Interfacing card
- 8251 Interfacing card
- ADC Interfacing card
- DAC Interfacing card
- Stepper motor interfacing card
- Printer interface board
- Printer interface board
- Digital clock and stop watch interface board
- 8253 Interfacing card
- 8253 Interfacing card and Traffic light control interface board
- 8051 Microcontroller Trainer Kits
- 8086 Assembler/MASM
- 8051 Cross Assemble

Software

- MASM