Microcontroller Lab

List of Equipments

1. ADAC for 8051
2. ADDA for 8051
3. Trafic light controller for 8051

4. Seven segment LED display Board for 8051
5. Stepper motor controller for 8051

6. PIC 18F 4520 trainer kit
7. MCS 8051 based embedded board
8. LCD, LED, Key Board, Seven segment display interfacing
9. ADC & DAC interfacing board
10. Stepper motor & DC motor interfacing board

List of Experiments

(8051 and PIC 18F 4520 Microcontroller)
1. 16 bit Arithmetic operations (addition, subtraction ,multiplication)
2. Logical operation
3. Code conversion
4. Generating square wave on port pins.
5. Generation of square wave using timer
6. Interfacing keyboard, 7 segments displays.
7. Interfacing LCD display
8. Serial Communication with PC.
9. Interfacing RTC
10. Interfacing DAC and its application
11.Temperature Controller
12.Speed control of DC Motor
13.Frequency measurement
14. Implementing PID controller
15.Stepper motor control.