

### Microprocessor Laboratory (EC-5002)

Course Code	EC-5002	Credits-4	L -0, T-0, P-4
Name of the Course	Microprocessor Laboratory		
Lectures to be Delivered	26 Hours of Lab work (2 Hrs each per week)		
Semester End Examination	Max. Marks: 50	Min. Pass Marks: 40	Maximum Time: 3hrs
Continuous Assessment	Lab work 30%, Lab Record 25%, Viva/ Hands on 25%, Attendance 20%)	Max. Marks: 50	Min. Pass Marks: 25

#### Instructions for paper setter/ Candidates

Laboratory examination will consist of two parts:

- (i) Performing a practical examination assigned by the examiner (25 marks)
- (ii) Viva-voce examination (25 marks)

Viva-voce examination will be related to the practicals performed / projects executed by the candidate related to the paper during the course of the semester.

This laboratory will be based on microprocessor 8085 + 8086 kits with following interfaces:

1. Key board & display
2. Analog to Digital conversion using DAC
3. Analog to Digital conversion using Dual slope ADC
4. Elevator simulator
5. Logic controller
6. Stepper motor
7. DC motor
8. General purpose PCB with connector
9. Crystal Oscillator
10. Modulator/Demodulator
11. Serial data communication
- 12.

A few experiments, which can be performed (to be detailed later on)

1. Hexadecimal addition
2. Count up/count down
3. Timing delay
4. Flash a message like 'UP'
5. Moving display
6. Display the code for the key pressed on the key-board
7. Display a digital clock with minutes and seconds
8. Interfacing motor, keyboard etc.

Note:- Record to be maintained in the laboratory record book for evaluation.