EC263	MICROPROCESSOR & MICROCONTROLLER LAB	L	T	P	C	Int	Ext
		-	-	2	1	30	70

COURSE OBJECTIVES:

1. To learn assembly language programs based on Data Transfer, Arithmetic , Branch ,Logical and Call Instructions for 8086 Microprocessor.
2. To learn assembly language programs to interface DAC, stepper motor and Keyboard with 8086 Microprocessor.
3. To learn Assembly Language Programs using Arithmetic , Logical and Data Transfer Instructions for 8051 Microcontroller.
4. To learn Assembly Language Programs for 8051 Microcontroller timer applications.

COURSE OUTCOMES:

After the successful completion of the course,students are able to

1. develop Assembly Language Programs using Data Transfer, Arithmetic , Branch ,Logical and Call Instructions for 8086 Microprocessor.
2. develop Assembly Language Programs for 8086 Microprocessor to interface DAC, Stepper motor and Keyboard .
3. develop Assembly Language Programs using Arithmetic , Logical and Data Transfer Instructions for 8051 Microcontroller.
4. develop Assembly Language Program to generate time delay using 8051 Microcontroller.

EXPERIMENTS:

Experiments Based on ALP (8086)

1. Programs on Data Transfer Instructions.
2. Programs on Arithmetic and Logical Instructions.
3. Programs on Branch Instructions.
4. Programs on Subroutines.
5. Sorting of an Array.
6. Programs on Interrupts (Software and Hardware).

Experiments Based on Interfacing with 8086 and Experiments Based on Microcontroller (8051)

7. DAC Interface-Waveform generations.
8. Stepper Motor Control.
9. Keyboard Interface / LCD Interface.
10. Data Transfer between two PCs using RS.232 C Serial Port
11. Programs on Data Transfer Instructions using 8051 Microcontroller.
12. Programs on Arithmetic and Logical Instructions using 8051 Microcontroller.
13. Applications with Microcontroller 8051.

Note:**

A minimum of 10(Ten) experiments, choosing 5 (Five) from each part, have to be Performed and recorded by the candidate to attain eligibility for University Practical Examination.