

COURSE TITLE : **MICROPROCESSOR LAB**
COURSE CODE : **5138**
COURSE CATEGORY : **A**
PERIODS/WEEK : **4**
PERIODS/SEMESTER : **52**
CREDITS : **2**

General Outcomes :

Sl.	G.O	Student will be able
1	1	To understand the Programming environment of 8086
2	1	To understand The Instruction set and Programming Concepts of x86 Processor- Data transfer Instructions- Branch instructions- Arithmetic instructions
3	1	To understand The Instruction set and Programming Concepts of x86 Processor- Shift and Rotate Instructions- String Instructions
4	1	To understand The Instruction set and Programming Concepts of x86 Processor- Procedures, Macros and Number Format Conversions

Specific Outcomes:

Module I

- 1.0 To understand the Programming environment of 8086
- 1.1 Explore the Assembler, its different directives, and its different system interrupts

Module II

- 2.0 To understand The Instruction set and Programming Concepts of x86 Processor
- 2.1 Write small programs to implement the instructions and their usage in programs (Data transfer Instructions- Branch instructions- Arithmetic instructions)

Module III

- 3.1 To understand The Instruction set and Programming Concepts of x86 Processor
- 3.1 Write small programs to implement the instructions and their usage in programs (Shift and Rotate Instructions- String Instructions)

Module IV

- 4.1 To understand The Instruction set and Programming Concepts of x86 Processor
- 4.1 Rewrite the programs done above to implement the ideas of Procedures, Macros and Number Format Conversions

Hardware Requirement : 8086 Trainer Kit

Software Requirement: Assembler