Course Contents

UNIT-I 6L

Introduction to Microprocessors

Evolution of Microprocessors, history of computers, Timing and control, Memory devices: Semiconductor memory organization, Category of memory.

UNIT-II 8L

8-bit Microprocessors (8085)

Architecture, Instruction Set, Addressing modes, Assembly Language Programming.

UNIT-III 12L

16-bit Microprocessors (8086)

Architecture, Physical address, segmentation, memory organization, Bus cycle, Instruction Set, Addressing modes, difference between 8085 & 8086, Assembler Directives, Assembly Language Programming of 8086

UNIT-IV 12L

Peripheral Interfacing

Introduction, Types of transmission, 8257 (DMA), 8255 (PPI), Serial Data transfer (8251), Keyboard-display controller (8279), Programmable Priority Controller (8259), 8253, ADC, Application of peripheral devices

UNIT-V 10L

Advanced Microprocessors

Introduction to 80186, 80286, 80386, 80486, Pentium microprocessors, introduction To Microcontroller (8051)

Total 48 Lecture Hours

