

Lesson Teaching Plan

Subject : Microprocessor and Assembly Language Programming **Branch :** MCA

Semester : 1st

Faculty Name : Sasmita Acharya

Module	Topic	No. of classes
1	1. Number Systems with their inter-conversions	1
	2. 8085 microprocessor architecture and block diagram	2
	3. Pin diagram of 8085 and 8085 signal description	1
	4. Data formats and instruction formats of 8085 with examples	1
	5. Addressing modes of 8085 with examples	1
	6. Study of instruction set of 8085 with examples	3
	7. Assembly language programs with examples	5
	8. Instruction cycle, machine cycle and timing diagrams	2
	9. Interrupts of 8085 and Interrupt Service Routine (ISR)	1
2	1. Memory classification, Memory models	2
	2. Memory interfacing, address decoding	1
	3. An 8085-based minimum system microcomputer	1
	4. Address space partitioning – memory-mapped I/O and I/O-mapped I/O schemes with examples	1
	5. Absolute versus partial address decoding with examples	1
3	1. Data transfer schemes – programmed and DMA data transfer techniques	1
	2. Overview of 8212 and 8255 PPI	2
	3. Study of 8257 DMA Controller	1
	4. Study of 8259A Programmable Interrupt Controller (PIC)	2
	5. Data Acquisition systems – A/D and D/A converters	3
	6. Interfacing of data acquisition system to 8085 microprocessor through 8255 (PPI)	1
	7. Analog signal conditioning circuits with examples	1
4	1. 8086 microprocessor architecture and block diagram	1
	2. Register Organization of 8086	1
	3. Addressing modes of 8086 with examples	1
	4. Definition of a microcontroller, Difference between a microprocessor and a microcontroller	1
	5. 8051 microcontroller architecture	1
	6. Overview of 8051 microcontroller family	1
Total no. of classes :		40