Lesson Plan

Name of the Faculty	:	Ms. Sucheta
Discipline	:	Computer Engg.
Semester	:	4th
Subject	:	MPD
Lesson plan duration	:	06 March 2023 to 23 june2023

Week	The		Practical		
	Lecture Day	Topic (including assignment / test)	Practical Day	Торіс	
	1st	Introduction to Micro- Processor, historicalback ground of MP & its evoluation	1 st	Introduction to Microprocessor, how Microprocessor works and its features.	
1 st	2nd	Org. of Micro Computer & its variousBlocks			
	3rd	Microprocessor and function of its variousblocks			
	1st Various application of MP & its impa onsociety	Various application of MP & its impact onsociety	2 nd	Familiarization of different Keys of 8085 microprocessor kit and its memory map	
2 nd	2nd	Introduction to system bus, bus org. of 8085			
	3rd	Block diagram of 8085 & its blocks/IstAssignment			
3 rd	1st	Functions of various blocks of 8085	3 rd	Steps to enter, modify data/program and to	
	2nd	Pin Layout of 8085		execute a program on 8085 kit	
	3rd	Details of various pins and related signals of 8085			
	1st	Various multiplexed pins of 8085	∆th	Writing and execution of	
⊿th	2nd	Demultiplexing of address]	ALP for addition and	

	3rd	Data bus ,Generation of RD/WR control		sub station of two 8 bit
		Signals, Steps to execute a stored		numbers
		programme		
	1st	Various level of programming: M/C level	5 th	Writing and execution of
		programming, assembly level prog, high		ALP for multiplication
		level programming instruction): 1- byte		and division of two 8 bit
5 th		instuction, 2- byte inst, 3-byte instruction,		numbers
	2nd	Introduction to Instruction Cycle,		
		Instruction cycle, M/C cycle, T-state		
	3rd	Fetch & execution cycle: various steps to		
		fetch & execute an instruction		
	1st	Timing diagram for opcode fetch	6 th	Writing and execution of
		operation , memory read operation		ALP for arranging 10
6 th	2nd	Timing diagram for memory write		numbers in ascending
Ū		operation		/descending order
	3rd	Timing diagram for I/O Read, I/O Write		
		operation, Memory read & memory write		
		operation of		
		processor		
	1st	Introduction to machine & assembly	7 th	Writing and execution of
		language	_	ALP for 0 to 9 BCD
	2nd	M/C & assembly languages, M/C code &		counters(up/down
7 th		mnemonics codes	_	counter according to
	3rd	Instruction format: opcode, operend, 1-		choice stored in
		byte inst, 2- byte inst, 3-byte instruction,		memory)
		Introduction to Addressing Modes/2 nd		
		Assignment		
	1st	Addressing modes: identification of	8 th	Interfacing exercise on
		instruction(to which addressing mode		8255 like LED display
8 th		they belong)		control
	2nd	Introduction to instruction set&		
		introduction to various Groups		
	3rd			
		Data transfer group of Instr		
	1st	Arithmetic group of inst.	9 th	Interfacing exercise on
	2nd	Logic group, stack group of instr.		8253 Programmable
Qth	3rd	I/O & memory control group of	7	interval timer
		instruction, Programming		
		exercise of AssemblyLanguage		

10 th	1st	Introduction to storing elements, Memories	10 th	Interfacing exercise on 8253 Programmable interval timer
	2nd	Concept of various signals/pins of memory Devices	-	
	3rd	Basic concept of memory mapping & its techniques	-	
	1st	Partitioning of total memory space, Introduction to Address Decoding	11 th	Interfacing exercise on 8279 programmable
11 th	2nd	Address decoding, need of Decoder		KB/display interface like
-	3rd	Address decoding by using NAND gate decoder & 2 : 4 line decoder		to display the hexcode of key pressed on display
	1st	Address decoding by using 3 : 8 line decoder & PROM Decoder	12 th	
12 th 2	2nd	Peripheral mapped I/O & Memory mapped I/O Scheme	-	Revision
	3rd	Difference between Peripheral mapped I/O & Memory mapped I/O Scheme, Interfacing of memory mapped I/O devices		
	1st	Introduction to Interrupts: Maskable& non- maskable interrupt, Edge triggered &		Interfacing exercise on
13 th	2nd	Various H/W interrupt, S/W Interrupt,	13 th	KB/display interface like to display the hexcode of key pressed on display
	3rd	Servicing interrupts, extending interrupt		
	1st	Programmed I/O operation, overview of data transfer Schemes	14 th	
14 th	2nd	Sync. Data transfer , Asyn data transfer (hand-shaking schemes)		Revision
	3rd	Interrupt driven data transfer schemes, Introduction to DMA/3 rd Assignment		
15 th	1st	DMA data transfer schemes, serial I/P data, serial O/P data	a Eth	Use of 8085 emulator for hardware testing
	2nd	Introduction to peripheral devices, 8255 PPI	15	
	3rd	8253 pit controller, basics of direct memory access		
	1st	DMA operation & 8257 DMA controller	16 th	Revision
16 th				

2n	nd	8237 DMA controller and its operation	
3rc	ď	Introduction to 8279 programmable KB	
		controller& its pin layout, 8251	
		Communication Interface Adapter	