Lesson Plan							
Name o	of the Institute :	CVRP					
Department :		ETC					
Semester/Division/Branch:		4th/ETC					
Subject Name with code :		Th3 MICROPROCESSOR & MICROCONTROLLER					
Total No. of Class (Required):		75					
Faculty	Name :	SUCHISMITA SATPATHY Date:25/01/2023					
Class No.	Brief D	escription of the Topic/Chapter to be taught	Remarks				
1	Discuss Microprocessor & its Applications.						
2	Distinguish between microprocessor & microcomputer.						
3	Discuss Evolution of microprocessor.						
4	Doubt Clearing class fo	or Chapter-1					
5	Basic arcitecture of 8-b	oit microprocessor.					
6	Describe address bus,	data bus, control bus & System Bus					
7	State & Explain general Bus structure						
8	Describe pin structure	of 8085 Microprocessor.					
9	Describe internal Archi	tecture of 8085 Microprocessor with a Block Diagram.					
10	Describe internal Archi	tecture of 8085 Microprocessor with a Block Diagram.					
11	Describe three state re	gisters & Concept of Multiplexing.					
12	Study the data transfer using tri-state registers						
13	Define registers of 808	5 & Distinguish between SPR & GPR					
14	State & explain stack p	ointer, stack & stack top.					
15	State & explain stack pointer, stack & stack top.						
16	Doubt Clearing class for Chapter-2						
17	Doubt Clearing class for Chapter-2						
18	adress instructions with						
19	Explain need for addre adress instructions with	ssing data & Differentiate between 1-adress,2-adress & 3- examples.					
20	(E) (A) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	es with suitable examples.					
21	Explain different types of Stack& I/O	of Instructions.(Data Transfer, Arithmetic, Logical, Branching,					
22	Simple Programs of 808	5 Instructions.					

2	Explain the basic assembler directives.	
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	Program based on Logic Operations (AND,OR,Complement1's&2's) & Masking of bits.	
27	Program based on Logic Operations (AND,OR,Complement1's&2's) & Masking of bits.	-
28	Counters & Time delay (Single Register, Register Pair, More than Two Register)	
29	Counters & Time delay (Single Register, Register Pair, More than Two Register)	
30	Looping, Counting & Indexing (Call/JMP etc).	
31	Stack & Subroutines.Code conversion, BCD Arithmetic & 16Bit data Operation, Block Transfer.	
32	Stack & Subscribes	
	Stack & Subroutines.Code conversion, BCD Arithmetic & 16Bit data Operation, Block Transfer.	
33	Compare between two numbers, Array Handling (Largest number & smallest number in the array)	
34	number in the array) Compare between two numbers Assaults array	
35	Compare between two numbers, Array Handling (Largest number & smallest number in the array)	
	Doubt Clearing class for Chapter-4	
36	Doubt Clearing class for Chapter-4	
37	Define T-State, Fetch cycle, Machine Cycle, Instruction cycle & discuss the concept of timing diagram.	
38	Define T-State, Fetch cycle, Machine Cycle, Instruction cycle & discuss the concept of timing diagram.	
39	Differentiate between instruction cycle, machine cycle & T-state.	
40	Draw timing diagram for memory read, memory write, I/O read, I/O write machine cycle.	
41	Draw timing diagram for memory read, memory write, I/O read, I/O write machine cycle.	
42	Draw a neat sketch for the timing diagram for 8085 instruction (MOV, DCR, MVI, LDA, DCX).	
43	Draw a neat sketch for the timing diagram for 8085 instruction (MOV, DCR, MVI, LDA, DCX).	
44	Doubt Clearing class for Chapter-5	
45	Doubt Clearing class for Chapter-5	
46	Define interfacing. Describe the pin diagram of 8255 chip and explain function of each pin	
17	Define interfacing. Describe the pin diagram of 8255 chip and explain function of each pin	
18	Describe internal architecture of 8255. (PPI),Define Mapping & Distinguish between Memory mapping & I/O Mapping.	
9 1	Describe internal architecture of 8255, (PPI) Define Manning & Distinguish	
^	etween Memory mapping & I/O Mapping. Explain Memory interfacing with RAM & EPROM to Microprocessor	
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52	Explain Functional Block Diagram 8257 DMA controller.		
53	Explain Functional Block Diagram 8259 Programming Interrupt Controller. Explain the functional Block Diagram 8251 (USART)		
54	Explain Functional Block Diagram 8259 Programming Interrupt Controller.Explain the functional Block Diagram 8251(USART)		
55	Describe ADC & DAC with Interfacing.		
56	Design Interface a traffic light control system using 8255.		
57	Design Interface a traffic light control system using 8255.		
58	Write interfacing programme for stepper motor control.		
59	Doubt Clearing class for Chapter-6		
60	Doubt Clearing class for Chapter-6		
61	Explain the block diagram of a Microprocessor based system.		
62	Explain the internal architecture of 8086-Programming model.		
63	Explain pin details of 8086 / 8088.		
64	Explain the basic 8086 system timing diagram		
65	Explain the Instruction format-Memory addressing machine.		
66	Explain minimum and maximum mode of 8086 operation.		
67	Explain addressing modes of 8086.		
68	Discuss instruction set-Data transfer-Arithmetic and logical, Branching-loop control.		
69	Discuss instruction set-Data transfer-Arithmetic and logical, Branching-loop control.		
70	Write simple program using 8086 instructions		
71	Write simple program using 8086 instructions		
72	Doubt Clearing class for Chapter-6		
73	Doubt Clearing class for Chapter-6		
74	Previous Year Semester Question discussion		
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