Lesson Plan				
Name o	of the Institute :	CVRP		
Depart	ment:	ETC		
Semester/Division/Branch:		4th/ETC		
Subject Name with code :		Th3 MICROPROCESSOR & MICROCONTROLLER		
Total No	o. of Class (Required):	75		
Faculty	Name :	SUCHISMITA SATPATHY		
Class No.	Brief C	Description of the Topic/Chapter to be taught	Remarks	
1	Discuss Microprocesso	or & its Applications.		
2	Distinguish between n	nicroprocessor & microcomputer.		
3	Discuss Evolution of microprocessor.			
4	Doubt Clearing class fo	or Chapter-1	- 	
5	Basic arcitecture of 8-bit microprocessor.			
6	Describe address bus, data bus, control bus & System Bus			
7	State & Explain genera	l Bus structure		
8	Describe pin structure	of 8085 Microprocessor.		
9	Describe internal Archi	itecture of 8085 Microprocessor with a Block Diagram.	\$ 1	
10	Describe internal Archi	tecture of 8085 Microprocessor with a Block Diagram.		
11	Describe three state re	gisters & Concept of Multiplexing.	A	
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 p	ointer, stack & stack top.		
16	Doubt Clearing class fo	r Chapter-2		
17	Doubt Clearing class fo	r Chapter-2		
18	Explain need for addre	essing data & Differentiate between 1-adress,2-adress & 3-		
19		ssing data & Differentiate between 1-adress,2-adress & 3-		
20		es with suitable examples.		
21	Explain different types of Stack& I/O	of Instructions.(Data Transfer, Arithmetic, Logical, Branching,		
22	Simple Programs of 808	35 Instructions.		

23	Explain the basic accembler directives	on the Section Section 1
24	Doubt Clearing class for Chapter 3	
25	Doubt Clearing class for Chapter 3	The second second
26	Program based on Logic Operations (AND,OR,Complement I's&2's) & Masking of bits	
27	Program based on Logic Operations (AND,OR,Complement L's&2's) & Masking of bits.	
28	Counters & Time delay (Single Register, Register Pals, More than Two Register)	
70	Counters & Time delay (Single Register, Register Pair, More than Two Register)	
30	Looping, Counting & Indexing (Call/IMP etc).	Control Contro
51	Stack & Subroutines Code conversion, BCD Arithmetic & 168it data Operation, Block Transfer.	
32	Stack & Subroutines Code conversion, BCD Arithmetic & 168it data Operation, Block Transfer.	nach an 19 an Aire an
33	Compare between two numbers, Array Handling (Largest number & smallest number in the array)	age to the Late of the Control of the American
14	Compare between two numbers, Array Handling (Largest number & smallest number in the array)	restanti (hibina) amai shaqish
15	Doubt Clearing class for Chapter-4	The sales of the sales of the
16	Doubt Clearing class for Chapter-4	
7	Define T-State, Fetch cycle, Machine Cycle, Instruction cycle & discuss the concept of timing diagram.	
8	Define T-State, Fetch cycle, Machine Cycle, Instruction cycle & discuss the concept of timing diagram.	ethinisellin er förbörhelen av ree
9	Differentiate between instruction cycle, machine cycle & T-state.	
0	Draw timing diagram for memory read, memory write, I/O read, I/O write machine cycle.	
1	Draw timing diagram for memory read, memory write, I/O read, I/O write machine cycle.	
	Draw a neat sketch for the timing diagram for 8085 instruction (MOV, DCR, MVI, LDA, DCX).	
3	Draw a neat sketch for the timing diagram for 8085 instruction (MOV, DCR, MVI, LDA, DCX).	
4	Doubt Clearing class for Chapter-5	A THE PERSONNEL
	Doubt Clearing class for Chapter-5	***
	Define interfacing Describe the pin diagram of 8255 chip and explain function of each pin	
7	Define interfacing Describe the pin diagram of 8255 chip and explain function of each pin	
	Describe internal architecture of 8255. (PPI) Define Mapping & Distinguish	and the second
	Describe internal architecture of 8255. (PPI) Define Mapping & Distinguish	
1 1	etween Memory mapping & VO Mapping Explain Memory interfacing with RAM & EPROM to Microprocessor	E-ADA TONINA SANGALIA
	xplain Functional Block Diagram 8257 DMA controller	***************************************

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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	n ,	
65	Explain the Instruction format-Memory addressing machine.	1. 1	
66	Explain minimum and maximum mode of 8086 operation.	2.	
67	Explain addressing modes of 8086.		
68	Discuss instruction set-Data transfer-Arithmetic and logical, Branching-100p		
69	Discuss instruction set-Data transfer-Arithmetic and logical, Branching-loop control.		
70	Write simple program using 8086 instructions	and the second second	
71	Write simple program using 8086 instructions	<u> </u>	
72	Doubt Clearing class for Chapter-6		
73	Doubt Clearing class for Chapter-6		
74	Previous Year Semester Question discussion		
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