KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN Session (2022-2023)

Discipline: Computer Science	Semester: 4th,	Name of the Faculty:
and Engineering	Summer/2023	Pampa Nandi
		Asst. Prof.
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Subject: MICROPROCESSOR	No. of Days/week: 05	Start Date: 13/02/2023
AND MICROCONTROLLER		End Date: 23/05/2023
TH.3		

Week	Class Day	Theory Topic	
1st	1st	Discussion of microprocessor and its application	
	2nd	Distinguish between microprocessor and microcomputer	
	3rd	Discussion of Architecture of processor and Bus system in processor	
	4th	Pin configuration of Intel 8085 microprocessor	
	5th	Architecture of Intel 8085 processor	
2nd	1st	Revising the taught portions	
	2nd	Doubt clearance	
	3rd	Pin configuration of Intel 8085 microprocessor	
	4th	Architecture of Intel 8085 processor	
	5th	Architecture of Intel 8085 processor	
3rd	1st	Registers of Intel 8085. Distinguish between SPR and GPR	
	2nd	Stack, stack pointer and stack top	
	3rd	Addressing modes in Intel 8085	
	4th	Addressing modes in Intel 8085	
	5th	Architecture of Intel 8085	
4th	1st	Types of instruction	
	2nd	Types of instruction	
	3rd	Simple programming examples	
	4th	Basic assembler Directives	

	5th	Programming on logic operations	
5th	1st	Programming on logic operations	
	2nd	Programming on Delay	
	3rd	Programming on Delay	
	4th	Programming on looping, counting, Indexing (JMP and CALL)	
	5th	Compare between two numbers, Arrray Handling, code conversion	
6th	1st	T-state, Fetch cycle, Machine cycle and Instruction cycle	
	2nd	T-state, Fetch cycle, Machine cycle and Instruction cycle	
	3rd	Differentiate between Instruction cycle, machine cycle and T state	
	4th	Timing diagram of MOV,DCR,MVI,LDA,DCX	
	5th	Timing diagram of MOV,DCR,MVI,LDA,DCX	
7th	1st	Timing diagram of MOV,DCR,MVI,LDA,DCX	
	2nd	Timing diagram of MOV,DCR,MVI,LDA,DCX	
	3rd	Revision of Timing diagram	
		Doubt clearance	
	4th	Pin configuration of Intel 8255 and discussion of interfacing	
	5th	Pin configuration of Intel 8255 and discussion of interfacing	
8th	1st	Memory mapping and IO mapping	
	2nd	Memory interfacing with RAM and EPROM	
	3rd	8257 DMA controller	
	4th	Traffic light controlling, stepper motor control	
	5th	Traffic light controlling, stepper motor control	
9th	1st	ADC and DAC interfacing	
	2nd	Internal architecture of Intel 8086, maximum and minimum mode	
	3rd	Internal architecture of Intel 8086, maximum and minimum mode	
	4th	Assignment	
	5th	Checking of assignment	
10th	1st	Class test	
	2nd	Internal ready revision	
	3rd	Pin details of 8086	
	4th	Pin details of 8086	
	5th	Pin details of 8086	
11th	1st	Addressing modes of 8086	
	2nd	Instruction set of 8086	

	3rd	Instruction set of 8086	
	4th	Simple programming	
	5th	Simple programming	
12th	1st	Addressing modes of Intel 8086	
	2nd	Distinguish between Microprocessor & Microcontroller	
	3rd	8 bits & 16-bit microcontroller	
	4th	CISC & RISC processor	
	5th	Architecture of 8051 Microcontroller	
13th	1st	Signal Description of 8051 Microcontrollers	
	2nd	Signal Description of 8051 Microcontrollers	
	3rd	Memory Organisation-RAM structure, SFR	
	4th	Registers, timers, interrupts of 8051 Microcontrollers	
	5th	Registers, timers, interrupts of 8051 Microcontrollers	
14th	1st	Addressing modes of 8051	
	2nd	Simple 8051 Assembly Language Programming Arithmetic & Logic Instructions, JUMP, LOOP, CALL Instructions, I/O Port Programming	
	3rd	Interrupts, Timer & Counters, Serial Communication	
	4th	Microcontroller interrupts and interfacing with 8255	
	5th	Microcontroller interrupts and interfacing with 8255	
15th	1st	Final revision, previous year questions discussion.	
	2nd	Final revision, previous year questions discussion.	
	3rd	Practice test	
	4th	Practice test	
	5th	Practice Test	