

## SYNERGY SCHOOL OF ENGINEERING DEPARTMENT OF ELECTRICAL ENGINEERING

Discipline :COMP. SC.	Semester:-	Name of the teaching faculty:-PRAJNAPARAMITA KABI
Engineering		
Subject:-	No. of	No. of weeks:-15
Microprocessor	Days/week	
and	class	SESSION-2023-2024 SUMMER
microcontroller	Allotted:-5	
No. of week	No. of class	Topic to be Taught
	J <sub>q</sub>	Introduction class
	2 <sup>nd</sup>	Introduction to microprocessor and distinguish them
	3 <sup>rd</sup>	Concept of address bus
	4 <sup>th</sup>	Concept of control bus & system bus
Ia	5 <sup>th</sup>	General bus structure block diagram
	1st	General bus structure block diagram
	2 <sup>nd</sup>	Basic architechure
	3 <sup>rd</sup>	Basic architechture of 8085 mp
	4 <sup>th</sup>	Signal description
2 <sup>nd</sup>		
* *	5 <sup>th</sup>	Pin diagram of 8085 microprocessor
	2nd	Resistor organization
	3 <sup>rd</sup>	Distinguish between SPR and GPR
	4 <sup>th</sup>	Timing and control module
3 <sup>rd</sup>	5 <sup>th</sup>	Stack stack pointer stack top
	184	8085 interupts Masking of interupts
4th	2 <sup>nd</sup>	Addressing data one byte two byte and three byte instruction set
	3 <sup>rd</sup>	Addressing mode of instruction
	4 <sup>th</sup>	Instruction set data transfer
	5 <sup>th</sup>	
		Simple assembly language programming
5th	1 <sup>st</sup>	Simple assembly language programming
		Logic operation
	3 <sup>rd</sup> 4 <sup>rd</sup>	Counter and time delay
	5rd	Looping counting indexing Stack and subroutines programming
6th	la 3	Code conversion BCD arithmetic
	2 <sup>nd</sup>	16 bit data operation
	3 <sup>rd</sup>	Block transfer
	4 <sup>th</sup>	Compare between two numbers
	5 <sup>th</sup>	Array handling
7th	1 <sup>st</sup>	Memory i/p and o/p addressing
	2 <sup>nd</sup>	Define opcodecoperand
	3 <sup>rd</sup>	Define t state machine cycle instructuin cycle
	4 <sup>th</sup>	Discuss the concept of time diagram
	5 <sup>th</sup>	Draw timming diagram memory read memory write

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Sth		Discuss machine cycle
	200	Draw neat sketch of timming diagram for 8085 mp
	1111	Draw neat sketch of timming diagram for 8085 mp
	.110	Concept of interfacing
	5th	Define mapping data transfer
	1 **	Memory mapping
	2nd	Concept of memory interfacing
	344	Concept of addressing decoding for 1/o device
9th	-1 th	Programmable peripheral interfacing
	5 <sup>th</sup>	ADC and DAC with interfacing
	1 <sub>st</sub>	Seven segment display
10th	2 <sup>ml</sup>	Generate squre wave on all lines of 8255 mp
	344	Traffic light control system
	.1th	
	5th	Stepper motor control system using 8255
11th	-	Resistor organization of 8086 m,p
l tim	200	Architechture cof 8086 mp
		Signal description of 8086mp
	319	Bus operation
	4m	Memory organization
	5 <sup>th</sup>	Minimum mode and timming
12th	l <sub>at</sub>	Maximum mode and timming
	2 <sup>nd</sup>	Interrupts and interrupts service routines
	3.4	Non maskable interupts
	4 <sup>th</sup>	Instruction set of 8086 example
	5 <sup>th</sup>	Addressing mode
	la la	Assembly language programming
	2 <sup>nd</sup>	Distinguish between microprocessor and micro controller
	3 <sup>rd</sup>	8 bit and 16 bit micro controller
	4 <sup>th</sup>	SISC and RISC processor
13 <sup>th</sup>	5 <sup>th</sup>	
	Įs .	Architecture of 8051 microcontroller Architecture of 8051 microcontroller
	2 <sup>nd</sup>	Signal description
	3 <sup>rd</sup>	
		Memory organization
	4"	INTERFACING AND SUPPORT CHIPS
		f 8051 microcontroller
14 <sup>th</sup>	5 <sup>th</sup>	Addressing modes of 8051 microcontroller
	Ja	Simple assembly language programming
	2 <sup>nd</sup>	Simple assembly language programming
	3 <sup>rd</sup>	Interrupts timmer counter
	4 <sup>th</sup>	Serial communication
	5 <sup>th</sup>	Microcontroller interrupts
15th	6 <sup>th</sup>	Interfacing 8255
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Signature of the faculty

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