SSN College of Engineering

Kalavakkam - 603110

Department of Computer science & Engineering

EC6504 MICROPROCESSORS AND MICROCONTROLLERS

Name of StaffMr. K. R. Sarath ChandranClass:II Yr CSEDesignationAssistant ProfessorSemesterIV B

S.No	Unit No.	Торіс	No. of Hours	
			Proposed	Actual
		UNIT I - THE 8086 MICROPROCESSOR		
1	-	Introduction to 8086	1	
2		Microprocessor architecture	1	
3		Addressing Modes	1	
4		Assembler directives	2	
5	I	Assembly language programming	1	
6	1	Modular Programming	1	
7		Linking & Relocation	1	
8		Procedures – Macro & Stack	1	
9		Interrupts and interrupt service routines.	1	
10		Byte String Manipulation	1	
		UNIT II - 8086 SYSTEM BUS STRUCTURE	_	
1		8086 Signals	1	
2		System bus timing	2	
3		System design using 8086	1	
4] II	IO Programming	1	
5	11	Introduction to Multi programming	1	
6		Coprocessor Configuration	1	
7		Closely & Loosely Coupled Configuration	1	
8		Introduction to advanced processors	1	
		UNIT III - I/O INTERFACING		
1	_	Memory Interfacing and I/O interfacing	1	
2		Parallel communication interface	1	
3		Serial communication interface	1	
4		Timer	1	
5	- - - -	Keyboard /display controller	1	
6		Interrupt controller	1	
		DMA controller	1	
7		Programming and applications – Examples	3	

UNIT IV - MICROCONTROLLER						
1	IV	Architecture of 8051	1			
2		Special Function Register (SFR)	2			
3		I/O Pins Ports and Circuits	1			
4		Instruction Set	2			
5		Addressing Modes	1			
6		Assembly language programming	1			
UNIT V - INTERFACING MICROCONTROLLERS						
1	V	Programming 8051 Timers	1			
2		Serial Port Programming & Interrupts	2			
3		Interfacing Keyboard , LCD, ADC, DAC&Sensor	2			
4		External Memory Interface	1			
5		Stepper Motor & Waveform generator	1			
		Total	45			

Prepared by K. R. Sarath Chandran Approved by HOD/CSE