

Branch: BCA	Semester-III
Subject Code: 3201	Practical: 02 Credit: 02
Subject Title	MICROPROCESSORS LAB*

Modules	Sr. No.	Topic and Details	No of Lectures/Practicals Assigned	Marks Weight age %
UNIT-I	1	Program to find addition of two 8-bit numbers	1	2
	2	Program to find subtraction of two 8-bit numbers	1	2
	3	Program to find addition of two 16-bit numbers	1	2
	4	Program to find subtraction of two 16-bit numbers	1	2
UNIT-II	5	Program to find addition of two 16-bit BCD numbers	1	2
	6	Program to find subtraction of two 8-bit BCD numbers	1	2
	7	Program to find multiplication of two 8-bit numbers using successive addition method.	1	2
	8	Program to find multiplication of two 8-bit numbers using shift and add method.	1	2
	9	Program to divide 16-bit number by an 8-bit number	1	2
UNIT-III	10	Program to Transfer a block of N bytes from source to destination	1	2
	11	Program to find maximum number in the array	1	2
	12	Program to find minimum number in the array	1	2
	12	Program to sort the numbers in ascending order	1	2
	14	Program to sort the numbers in descending order	1	2
	15	Program to convert two BCD numbers to their HEX equivalent	1	2
UNIT-IV	16	Program to convert HEX number to BCD	1	2
	17	Write a sub routine for 8085 to generate delay of 100 ms	1	2
	18	Write a sub routine for 8085 to generate delay of 10 ms	2	4
	19	Write a program to generate Fibonacci series	2	4
	20	Study of Hardware Interrupts	2	4
	21	Study of Software Interrupts	2	4
Total			25	50

Text Books:

1. R.S. Gaonkar, "Microprocessor Architecture, programming and Applications with the 8085/8080A", Wiley Eastern Ltd. 2., 1995

References:

1. Peter Norton (Sixth Edition) "Inside the PC";, January 2005
2. Yu-Cheng Liu & Glen A. Gibson, "Microprocessor System-The 8086/8088 Family"
3. "The Intel Microprocessor : 8086/8088 , 80286, 80386, Pentium, Pentium Pro. Pentium-II & III" : Barry Brey (Fourth Edition)