

LAB SCHEDULE

Name of the dept.	:	ECE	Class :	III – I , ECE-A
Lab name	:	MPMC LAB	Year :	2014-15

LIST OF EXPERIMENTS

1. Introduction to MASM/TASM.
2. Arithmetic operation – Multi byte Addition and Subtraction, Multiplication and Division – Signed and unsigned Arithmetic operation, ASCII – arithmetic operation.
3. Logic operations – Shift and rotate – Converting packed BCD to unpacked BCD, BCD to ASCII conversion.
4. By using string operation and Instruction prefix: Move Block, Reverse string, Sorting, Inserting, Deleting, Length of the string, String comparison.
5. DOS/BIOS programming: Reading keyboard (Buffered with and without echo) – Display characters, Strings. II. 6.GCD
7. Factorial of number
8. Average of 10 numbers
9. Largest number in an array

Interfacing :

1. 8259 – Interrupt controller : Generate an interrupt using 8259 timer.
2. 8279 – Keyboard display : Write a small program to display a string of characters.
3. 8255 – PPI : Write ALP to generate sinusoidal wave using PPI.

Microcontroller 8051:

1. 16-bit Addition
2. 16-bit Subtraction
3. 16-bit Multiplication
4. 16-bit Division

Sl .N o	Date & Sessio n	Ex. 1	Ex. 2	Ex.3	Ex. 4	Ex. .5	Ex. 6	Ex. 7	Ex. 8	Ex. 9	Ex. 10	Ex. 11	Ex. 12	Ex. 13	Ex. 14	Ex. 15	Ex. 16
1	21/01/15	Demo															
2	23/01/15	Demo															
3	28/01/15	B1-B10	B1-B10														
4	30/01/15	B11-B20	B11-B20														
5	04/02/15			B1-B10	B1-B10												
6	08/02/15			B11-B20	B11-B20												
7	11/02/15					B1-B10	B1-B10										
8	13/02/15					B11-B20	B11-B20										
9	18/02/15							B1-B10	B1-B10								
10	20/02/15							B11-B20	B11-B20								
11	24/02/15									B1-B10	B1-B10						
12	04/03/15									B11-B20	B11-B20						
13	20/03/15											B1-B10	B1-B10				
14	18/03/15											B11-B20	B11-B20				
15	27/03/15													B1-B10	B1-B10		
16	25/03/15													B11-B20	B11-B20		
17	10/04/15															B1-B10	B1-B10
18	01/04/15															B11-B20	B11-B20
19	17/04/15	Repetition															
20	08/04/15	Repetition															
21	24/04/15	Repetition															

2	15/04/	Repetition
2	15	
2	01/05/	B1-B10 Internal exam
3	15	
2	22/04/	B11-B20 Internal exam
4	15	

Note: Session Indicates 3 (or) 4 Periods

B1 to B20 are batches and each batch contains 3 to 4 members