

MT419 MICROPROCESSORS & MICROCONTROLLERS LAB

LIST OF EXPERIMENTS

A minimum of 10 experiments to be conducted from the following

1. Addition, Subtraction
2. Multi-byte addition
3. Multiplication of two numbers
4. Finding the maximum value in an array
5. Arranging the given data in Ascending order
6. BCD to Hex conversion
7. Hex to BCD conversion
8. Hex to ASCII
9. ASCII to Binary
10. Square Root of a given data
11. Greatest Common Divisor
12. Parity bit generation
13. Program using I/Os in port 1
14. Program using interrupt

II INTERFACING WITH APPLICATION BOARDS

Minimum 5 Experiments to be conducted

1. Digital I/O
2. Matrix keyboard
3. Seven segment displays
4. LCD Displays
5. Traffic light
6. 8 bit ADC and 8 bit DAC
7. Speed & position control of stepper motor
8. Sending data through serial port between controller kits
9. Printer Interfacing with Microcontroller kit.