

Year & Sem: E2S2	Course Code: EC2802	Lab Name: Micro Processors and Micro Controllers	No. of Credits: 2	L 0	T&PS 0	P 2
Experiment-I: 8086 Programming 1. Arithmetic operations a) Addition b) Subtraction c) Multiplication d) Division 2. a) String manipulation – Search a word b) String Manipulation – Find and replace a Word c) String Manipulation – Copy a string d) String Manipulation – Sorting Experiment-II: Interfacing with 8086 3. Interface 7 segment display with 8086 using 8255. 4. Interface 8279 Keyboard/Display IC with 8086. 5. Generate square wave and saw tooth waveforms by using 8086. 6. Interface ADC and DAC to 8086. 7. Interfacing and programming of stepper motor and DCMotor speed control using 8086. 8051 programming 8. Basic programs a) Code conversions b) 16 bit addition and subtraction c) 8 bit multiplication Interfacing with 8051 9. Interface 7- segment display card with 8051 using 8255 10. Interfacing 8279 Keyboard/Display IC with 8051 11. Interface ADC and DAC with 8051. 12. Serial Communication using Serial Peripheral Interface (SPI) with 8051. 13. Generate square wave and saw tooth waveforms by using 8051. 14. Interfacing and programming of stepper motor and DCMotor speed control using 8051 15. Traffic light controller interface with 8051 (Application) References/Text Books: 1. 2.						