## 08.607    MICROPROCESSOR LAB      0 - 0 - 4

1. Study of 8086 trainer kit by executing simple programs such as code conversion, decimal arithmetic and bit manipulation
2. Study of Assembler and Debugging commands
3. Programming with 8086 – Addition of 32 bit numbers, matrix multiplication, factorial, LCM, GCD, Fibonacci, String manipulation, search, find and replace, copy operations, sorting.
   (PC Required)
5. Interfacing 8086 with the following and conduct experiments:
     - 8255, 8279, 8259, and 8253/54.
     - Stepper Motor
     - ADC and DAC.
6. Parallel Communication between two Microprocessor Kits using Mode 1 and Mode 2 of  8255.
7. Interfacing Microprocessor kit with PC using RS 232

---

**Internal Continuous Assessment** *(Maximum Marks-50)*

*20 Marks* -  Tests (minimum 1)
*20 Marks* -  Up-to-date lab work, problem solving capability, keeping track of rough record and fair record, term projects, hardware exercises, etc.
*10 Marks* -  Regularity in the class

---

**University Examination Pattern** *(Maximum marks – 100)*

**Marks should be awarded as follows:**

20 Marks -  Algorithm/Design.
25 Marks -  Viva voce
30 marks -   Implementing the work/Conducting the experiment.
25 Marks -  Output/Results and inference.

**General instructions:**
-    Evaluation is a serious process that is to be conducted under the equal responsibility of both the internal and external examiners.
-    The number of candidates evaluated per day should not exceed 20