DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Name of the Lab   :MICROPROCESSORS &MICROCONTROLLERS LAB

OBJECTIVES:
- To introduce ALP concepts, Features and Coding methods.
- Write ALP for Arithmetic and Logic operations in 8086 and 8051.
- Differentiate Serial and Parallel Interface.
- Interface different I/O s with Microprocessors.
- Be familiar with MASM.
- To provide training on programming of microprocessors and microcontrollers and understand the interface requirements.
- To simulate various microprocessors and microcontrollers using KEIL or Equivalent simulator.

OUTCOMES:
Upon the completion of this course the students will be able to

- To write ALP programmes for fixed and floating point and Arithmetic operations.
- Interface different I/O s with processor.
- Generate waveforms using Microprocessors.
- Execute Programs in 8051.
- Explain the difference between simulator and Emulator.
- Ability to understand and apply computing platform and software for engineering problems.
- Ability to programming logics for code conversion.
- Ability to acquire knowledge on A/D and D/A.
- Ability to understand basics of serial communication.
- Ability to understand and impart knowledge in DC and AC motor interfacing.
- Ability to understand basics of software simulators.