COURSE TITLE   : EMBEDDED SYSTEM LAB
COURSE CODE   : 5049
COURSE CATEGORY   : A
PERIODS/WEEK   : 4
PERIODS/SEMESTER   :52/5
CREDITS   : 2

LIST OF EXPERIMENTS

On completion of the course, the student will be able:

1.0 To Familiarize with ATmega32 microcontroller kit.

2.0 To implement assembly language Programs using microcontroller kit.

      2.1   Time Delay.
      2.2   Code Conversion.
      2.3   Serial Communication.
      2.4   Timer programming.

3.0 To simulate Interface Programs in embedded C using AVR Studio.

      3.1   LED Interface(output).
      3.2   Switch Interface(input).
      3.3   4x 4 Matrix Keyboard interface.
      3.4   Relay interface.
      3.5   Seven segment LED display interface.
      3.6   Character based LCD interface.
      3.7   DC motor interface.
      3.8   Stepper motor interface.
      3.9   ADC Interfacing.
      3.10 DAC Interfacing.
      3.11 Temperature sensor.
      3.12 Waveform generation using Timer.