



<b>COURSE TITLE</b>	<b>: EMBEDDED SYSTEMS LAB</b>
<b>COURSE CODE</b>	<b>: 5049</b>
<b>COURSE CATEGORY</b>	<b>: A</b>
<b>PERIODS/WEEK</b>	<b>: 4</b>
<b>PERIODS/SEMESTER</b>	<b>: 52</b>
<b>CREDITS</b>	<b>: 2</b>

### LIST OF EXPERIMENTS

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

#### **1.0 To Familiarization of kit (AtMega32)**

#### **2.0 To implement assembly language Programs using 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