**ECA14 – Embedded System**

**List of Experiments**

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| **S. No** | **Name of the Experiment** | **Remarks** |
| **1** | Study of Proteus micro Vision |  |
| **2** | Blinking of LED using 8051 Microcontroller (Proteus) |  |
| **3** | Generation of Square Wave using 8051 (Proteus) |  |
| **4** | Fade In Fade Out of LED using 8051 (Proteus) |  |
| **5** | Stepper Motor using 8051 (Proteus) |  |
| **6** | Interfacing of Relay using 8051 (Proteus) |  |
| **7** | LED Toggle using 8051 (Proteus) |  |
| **8** | 7 Segment Display using 8051 (Proteus) |  |
| **9** | LED Chaser using 8051 (Proteus) |  |
| **10** | Study of ARM Processor |  |
| **11** | Write and execute C program to blink LEDs using software delay routine in LPC2148 kit |  |
| **12** | Write and execute C program to read the switch and display in the LEDs using LPC2148 kit |  |
| **13** | Write and execute C program to display a number in seven segment LED in LPC2148 kit |  |
| **14** | Write and execute C program for serial transmission and reception using on-chip UART in LPC2148 kit. |  |
| **15** | Write and execute C program for accessing an internal ADC and display the binary output in LEDS in LPC2148 kit. |  |