

(CS624) EMBEDDED SYSTEMS LAB

Objective of the course :

The Lab course will lay emphasis on learning Assembly Language Programming of 8051. Familiarization of Embedded software programming using KEIL IDE.

1. Write a program to perform Arithmetic operation
2. Write a program to perform Logical operation
3. Write a program to perform Control operation
4. Read inputs from switches using I/O interface
5. Program to make LEDs blink using I/O Interface
6. Program to write a program for serial communication
7. Write a program for encryption/ description
8. Develop necessary interfacing circuit to read data from a sensor and process using the 8051 board. The data has to be displayed on PC monitor
9. Sort RTOS (MCOS) on to 89CS1 board and verify
10. Simulate an elevator movement using RTOS on 89CS1 board
11. Familiarization of ARM programming model using ARM kit.

REFERENCE BOOK :

1. KVKKF Prasad: 'Embedded/real- TimeSystems', Dreamtech.Press.