Winter School on Embedded System Design Using Microcontrollers
(2nd Jan.’15 – 14th Jan. ’15)

Course Objective:
Embedded System industry is growing exponentially in India. For developing skilled engineers to meet industry requirements, the Centre for Development in Embedded Systems & VLSI Design conducts various training programs on Embedded Systems, VLSI, and DSP. These training programs bridge the gap between industry requirements and students skill set.

The present course is primarily targeted for the pre-final year students. It is designed to provide them with a strong understanding of the theoretical and practical concepts of “embedded system design using microcontrollers” which is essential to be “industry ready”.

Course Orientation:
The course has been well planned to accommodate lecture sessions in the first half of the day and laboratory sessions for the second half so that the attendees get a firm understanding of the subject.

Course Highlights:

1. Lecture sessions that help you learn about:
   (a) Basic and Advanced Features of 8051 Microcontroller
   (b) Interface different External Peripherals
   (c) Real Time Operating Systems(RTOS) and their use.

2. Extensive Hands On Sessions include:
   (a) Design of Basic Embedded Applications using Embedded C
   (b) Working with External Peripherals.
   (c) Working with RTOS.
   (d) Real Time Live Projects
   (e) Design and Implement your own Microcontroller Development Board.

Participants will get their own microcontroller development kits and source codes.

Registration:
The registration is based purely on first-come-first-serve basis. Participants have to register before 12th December.

Key Resource Persons:
Prof. Biplab Roy
Prof. Suman Halder
Prof. Pantha Saha
Prof. Samik Samanta

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