



Winter school on Embedded System Design

12th Dec – 18th Dec 2012

Embedded System finds its application in various electronic equipments such as medical equipments, consumer electronics, communication systems, avionics, industrial process plants, robotics and the like. This course is intended to teach the participants various design techniques involved in practice to develop Embedded System. It provides a detailed knowledge about hardware platforms including general purpose processors, software platforms, operating systems, memory and interfacing devices.

The course is designed primarily for beginners who are interested in pursuing their carrier in the field of Embedded System and its application in industry and academics. Students and Faculties of Electronics, Electrical and Computer Science & Engineering would find this course extremely useful.

COURSE CONTENTS

- Introduction to Embedded System
- Design and Development of Embedded Systems
- Embedded Processors & Controllers
- Interfacing of Peripherals
- Control Systems, Memory
- Real Time Operating System (RTOS)
- Hardware Software Co-Design
- ICTechnology
- DSP/FPGA based Embedded System
- System On Programmable Chip
- Trends in the Embedded Industry

TOOLS TO BE USED

- KEIL (8051),
- Code Warrior(HCS12),
- Code Composer Studio(DSP 6713),
- Altera Quartus II & SOPC Builder

NOTE: Knowledge of Basic and Digital Electronics is a pre-requisite.

REGISTRATION AND FEE PARTICULAR

Students	5000/-
Others	7000/-

Payment should be done in DD in favor of "Continuing Education, NIT Rourkela" payable at SBI, NIT Campus Branch. (Code: 2109).

Selection notification shall be intimated by E-mail.

Accommodation will be provided in Students' hostel or Visitors' hostel of NIT, Rourkela as per availability. For hostel & Visitor Hostel room rent will be charged as per actual

IMPORTANT DATES

Last date of receipt: (Completed application form with Draft)	20/11/2012	30/11/2012
Selection letters to be mailed:	25/11/2012	30/11/2012
Course Commences on:	12/12/2012	

CORRESPONDENCE

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