

# **Gujarat Technological University**

organizes

**SHORT TERM TRAINING PROGRAMME**

**on EMBEDDED SYSTEM DESIGN**

**(25<sup>th</sup> – 29<sup>th</sup> June 2012)**

**in collaboration with**

**INSTRUMENTATION AND CONTROL ENGINEERING DEPARTMENT,  
VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE, CHANDKHEDA,  
AHMEDABAD**

**and EDUTECH LEARNING SOLUTIONS PVT. LTD.**

## **Preamble and Objective**

Embedded systems are involved in every facet of life. Embedded systems are used in simple domestic appliances to highly advance application in the area of industrial process control, satellite communication, automobiles etc.

This five days hands-on workshop will focus on the teaching methodologies and latest trends in Embedded Systems Design. The focus of the workshop would be to discuss the current technologies and their use and application in real world.

Since these new development and advancements are to be learned and applied by the students we would discuss the teaching and learning aids to be implemented during the academics.

This workshop covers the topics and hands on experiments in context of UG and PG courses in Instrumentation and Control Engineering, Biomedical Instrumentation, Electrical Engineering, Electronics and Communication Engineering, and Power Electronics Engineering.

It is also planned to explain IDP/UDP in context of embedded system design.

## **Course Content**

1. Introduction to embedded system
2. Introduction to various microcontroller family
3. PIC 18X Series microcontroller
4. ARM Microcontroller
5. Programming techniques

6. Embedded system design and development tools
7. Hands – on – session (Attempt will be made to cover the Laboratory experiments for Embedded Systems subject for 7<sup>th</sup> semester program)

**Note: Development software will be given free if participant brings his/her own laptop**

**Course Faculty:**

1. Dr. Chetan B. Bhatt, VGEC, Chandkheda
2. Dr. Rahul Dubey, DAIICT, Gandhinagar
3. Mr. Amar Saswihalli, Texas Instruments
4. Mr. Nitin Paranjape, Edutech Learning Solutions Pvt. Ltd., Baroda

**Who should attend?**

- Faculty members from the departments of Instrumentation and Control, Biomedical Instrumentation, Electronics and Communication, Electrical, and Power Electronics Engineering.

**Number of Seats**

Numbers of seats are limited to 50. Selection will be based on first come first serve basis.

**Fees:**

No fees for faculty members.

No TA – DA or accommodation will be provided to the participants.

**Date and Time:**

25<sup>th</sup> June to 29<sup>th</sup> June, 11 AM to 5 PM

**Venue:**

Room I – 206, I – Block,

Instrumentation and Control Engineering Department

Vishwakarma Government Engineering College, Chandkheda,

Ahmedabad.

**Contact for further information:**

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