



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

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www.embeddedtechnosolutions.com



Embedded Systems with Wireless Comm.

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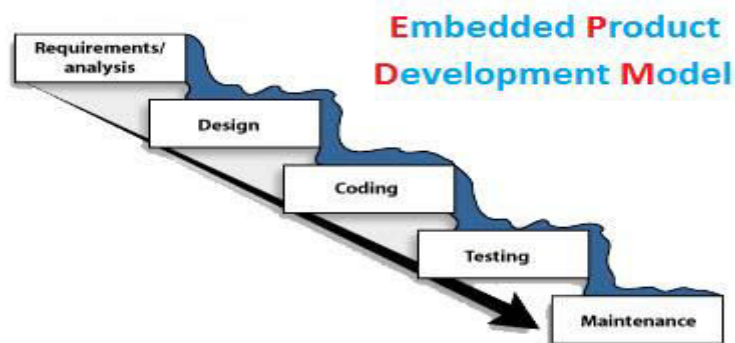
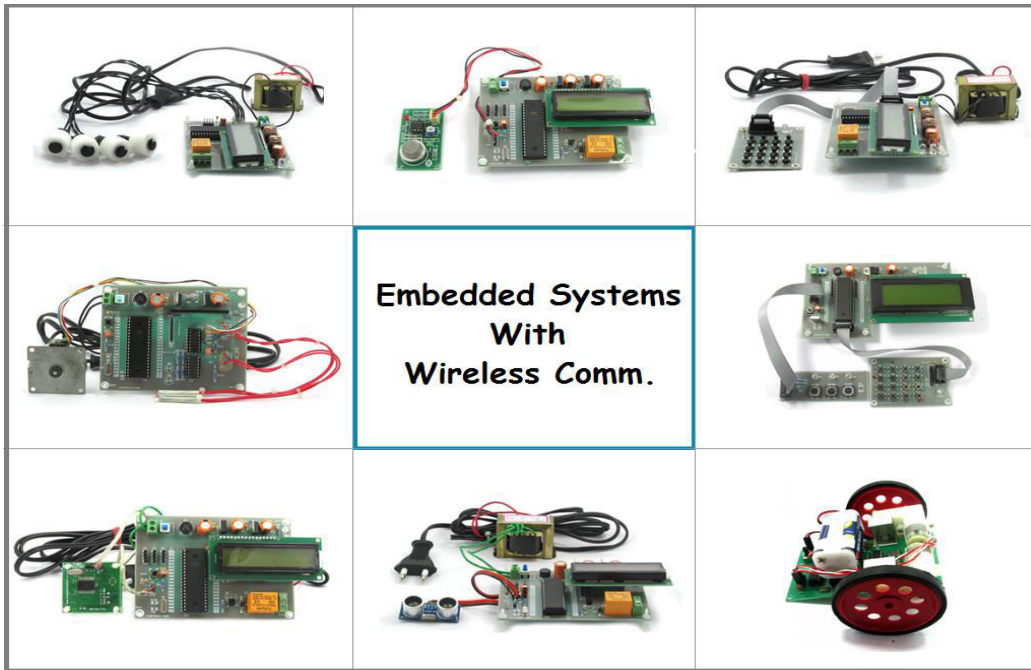
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Embedded Technosolutions is a Professional Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical, based on industrial standard.



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Course Objectives

1. To provide professional and industrial standard training which will help the students to get job in the core industries
2. To learn practical orientation of actual industrial product design
3. To learn Embedded Systems which is the important part of Embedded Product Development
4. To learn Wireless Communications & Interfacings
5. To learn Programming of Internal Peripherals in Embedded C
6. To learn Hardware Requirements for Embedded Developments
7. Learn wireless communication , wireless modules & Applications Designing
8. To learn the designing of Real World Projects



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Course Syllabus

Module 1

- 1.1 Introduction to Embedded Systems
- 1.2 Scope in Embedded Systems

Module 2

- 2.1 Introduction to microcontroller 8051 series
- 2.2 Hardware architecture of controller
- 2.3 Controller I/O ports
- 2.4 Memories of controller
- 2.5 Registers and Register bank of controller
- 2.6 Concept of Serial communication ,Interrupt etc.



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Module 3

- 3.1 Introduction of Embedded Software
- 3.2 Introduction of Embedded C Programming and programming concepts
- 3.3 Introduction of program burning / flashing software

Module 4

- 4.1 I/O interfacing concept
- 4.2 Led Blinking logic and delay generation routine
- 4.3 Design of Traffic Light Controller System

Module 5

- 5.1 Character LCD 16x2 interfacing logic and concept
- 5.2 Introduction of LCD command and data signals
- 5.3 LCD based programming



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5.4 Practical project based on character LCD

Module 6

6.1 Matrix keypad interfacing logic and concept

6.2 Introduction of key pad interfacing using polling method

6.3 Matrix keypad programming

6.4 Practical project based on matrix keypad

Module 7

7.1 Introduction to serial communication

7.2 Serial communication concept

7.3 Introduction of serial communication firmware and registers

7.4 Serial communication programming

7.5 Practical application based on Serial communication



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Module 8

8.1 Introduction of interrupts in controller

8.2 Interrupt logic and concept

8.3 Interrupt routines / programming

8.4 Key interfacing using interrupt

8.5 Practical application based on interrupt

Module 9

9.1 Introduction of Relay

9.2 Relay interfacing and comparison of relay with other switching devices

9.3 Relay programming

9.4 Practical application based on relay



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Module 10

- 10.1 Introduction of DTMF mobile technology
- 10.2 DTMF technology interfacing in real application
- 10.3 DTMF programming
- 10.4 Practical project design based on DTMF technology

Module 11

- 11.1 Introduction of RF Communication
- 11.2 RF technology interfacing in real application
- 11.3 RF module programming
- 11.4 Practical project design based on RF technology

Module 12

Project Designing



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Contact Us

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