



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



Embedded Systems With 7 Projects Designing

**We Are India's one of the Leading Trainings &
Jobs Providing Organization**



Skill India Mission - 2017

कौशल भारत - कुशल भारत

***Government of India Registered & ISO
Certified Organization***



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

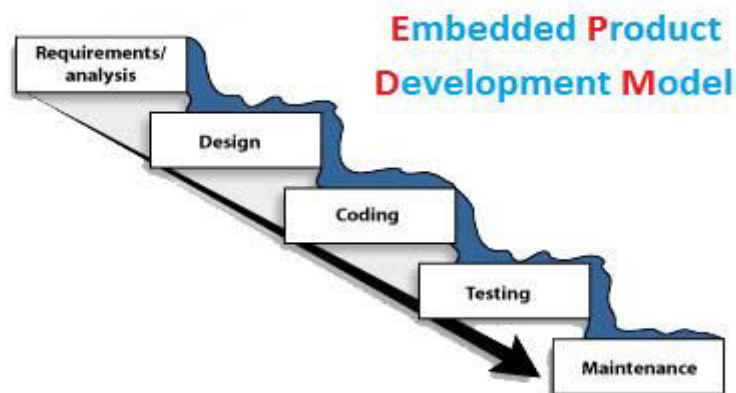
Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com





Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



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.



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



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 C Programming which is the important part of Embedded Product Development
4. To learn Programming of Internal Peripherals in Embedded C
5. To learn 8051 Architecture in detail
6. To learn Hardware Requirements for 8051
7. Learn wireless communication , wireless modules & their interfacing
8. To learn the designing of Real World Projects



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



Course Syllabus

Microcontroller 8051

Chapter 1

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

Chapter 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.

Chapter 3

- 3.1 Introduction of Embedded Software
- 3.2 Introduction of Embedded C Programming and programming concepts



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



3.3 Introduction of program burning / flashing software

Chapter 4

4.1 I/O interfacing concept

4.2 Led Blinking logic and delay generation routine

4.3 Design of Traffic Light Controller System

Chapter 5

5.1 Character LCD 16x2 interfacing logic and concept

5.2 Introduction of LCD command and data signals

5.3 LCD based programming

5.4 Practical project based on character LCD

Chapter 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



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



Chapter 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

Chapter 8

- 8.1 Introduction of interrupts in controller
- 8.2 Interrupt logic and concept
- 8.3 Interrupt routines / programming
- 8.4 Key interfacing using interrupts
- 8.5 Practical application based on interrupt



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



Wireless Communication

Chapter 1

- 1.1 Introduction of DTMF mobile technology
- 1.2 DTMF technology interfacing in real application
- 1.3 DTMF programming
- 1.4 Practical project design based on DTMF technology

Chapter 2

- 2.1 Introduction of RF Communication
- 2.2 RF technology interfacing in real application
- 2.3 RF module programming
- 2.4 Practical project design based on RF technology

Chapter 3

- 3.1 Introduction to RFID communication
- 3.2 RFID technology interfacing in real application
- 3.3 RFID module programming
- 3.4 Practical project design based on RFID technology



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



8051 with 7 Projects

1. Traffic Light System
2. Door Bell
3. Password Protecting System
4. Notice Board
5. PC Control Appliances
6. DTMF Based Universal System
7. RFID Protocol Based Security System



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 8080097128

www.embeddedtechnosolutions.com



Contact Us

Contact Number

- 9224301650 (Whats App)
- 022- 62390060

Email Id

info@embeddedtechnosolutions.com

embeddedtechnosolutions@gmail.com

Website

www.embeddedtechnosolutions.com

Our Other Ventures

www.onlineprojectexhibition.com

www.ijtp.com