



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

Government of India (MSME) &

ISO 9001 – 2015 Certified Organization

Winter Internship Program-2017

**5 Wireless Robots with
Robotics ARM Designing**

MSME

MICRO, SMALL & MEDIUM ENTERPRISES

सूक्ष्म, लघु एवं मध्यम उद्यम

OUR STRENGTH • हमारी शक्ति

Ministry of MSME, Govt. of India



Contact : 8828222688 / 8080097128
Email : embeddedtechnosolutions@gmail.com
Website : www.embeddedtechnosolutions.com
Our Branches : Thane, Nerul & Borivali / Dadar



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**We Guarantee you that, You Can able to Develop
Your Projects by Your Own After This Training
Program**

**Get the experience of learning with IIT Bombay & VJTI
Alumni with Internship Certificate**



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Practical & Professional Training on Wireless Robotics

Course Syllabus

Module 1

- 1.1 Introduction to Robotics & its Background
- 1.2 Scope in Robotics & Artificial Intelligence Domain
- 1.3 Robotics Mechanism & Modules
- 1.4 Introduction to Wireless Modules
- 1.5 Software & Compiler used in Robotics Designing
- 1.6 Programming Concepts

Module 2

- 2.1 Hardware architecture of Arduino
- 2.2 Arduino Controller I/O ports
- 2.3 Memories of controller

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2.4 Registers and Register bank of controller

2.5 Concept of Serial communication ,Interrupt etc.

Module 3

3.1 Introduction of Arduino IDE

3.2 Introduction of Embedded C Programming and programming concepts

3.3 Introduction of program burning / flashing

Module 4

4.1 Motor driver interfacing concept

4.2 Motor driver operational concepts

4.3 Motor driver based application / project designing

Module 5

5.1 Introduction to serial communication

5.2 Serial communication concept

5.3 Introduction of serial communication firmware and registers

5.4 Serial communication programming

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5.5 Practical application based on Serial communication

Module 6 : DTMF Robotics

6.1 Introduction of DTMF mobile technology

6.2 DTMF technology interfacing in real application

6.3 DTMF programming

6.4 Practical Robot design based on DTMF technology

Module 7 : Bluetooth Mobile Robotics

7.1 Introduction of Bluetooth Communication

7.2 Bluetooth technology interfacing in real application

7.3 Bluetooth module programming

7.4 Practical Robot design based on Bluetooth technology

Module 8 : RF Wireless Robot

8.1 Introduction to RF communication

8.2 RF technology interfacing in real application

8.3 RF module programming

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8.4 Practical project design based on RF technology

Module 9 : Voice Android Robotics

9.1 Introduction of Voice App Communication

9.2 Bluetooth technology interfacing in real application

9.3 Bluetooth module integration with Voice app programming

9.4 Practical Robot design based on Voice technology

Module 10 : Robotics ARM

10.1 Introduction of Robotics ARM

10.2 Robotics ARM Mechanism

10.3 Robotics ARM Programming

10.4 Practical Robotics ARM designing

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