



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

**Raspberry Pi IOT With 8 Projects
Designing**

MSME

MICRO, SMALL & MEDIUM ENTERPRISES

सूक्ष्म, लघु एवं मध्यम उद्यम

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Contact : 8828222688 / 8080097128
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Practical & Professional Training on Raspberry Pi IOT

Course Syllabus

Module 1

- 1.1 Program Raspberry Pi : a credit-card sized computer
- 1.2 Python programming for Raspberry Pi
- 1.3 Interacting and configuring the RPi OS
- 1.4 ARM 11 architecture
- 1.5 Porting of Linux Kernel and booting RPi

Module 2

- 2.1 Linux programming basics

Module 3

- 3.1 Programming the GPIO and interfacing peripherals With Raspberry Pi
- 3.2 Generating PWM signals through the Pi

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Module 4

4.1 Programming and work with UART protocol ,example Bluetooth

4.2 Remote Login methods: HyperTerminal, Ethernet

4.3. Embedded Webserver

Module 5

5.1 Work with I2C protocol

Module 6

6.1 Developing GUI with TKinter

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8 Projects Designing using Raspberry Pi IOT

1. Traffic Light System
2. Environmental Parameters Measurement
3. Voice Control Home Automation
4. BlueSys using Bluetooth
5. Wireless Mobile Smart System
6. PWM Based Variable System
7. Camera based Surveillance System
8. GUI Based Home Automation using TKinter

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