



PRESENTS

“Winter Internship Program”

Raspberry Pi’ Duration 7
Days

Kit Partner

ROBOMART.com

Corporate Office

Robosapiens Technologies Pvt. Ltd.
B 5, Block ‘C’, Sector-31,
Noida-201301

Email: info@robosapi.com/

Website: <https://www.robosapi.com>

Course Name : **Raspberry Pi**
Certification : By Robosapiens Technologies Pvt. Ltd.
Fee : 5900/- Only
LIVE Projects Covered : **MORE THAN 7 Projects** Covered in 7 Days

Detailed Course Content

1. Introduction to Raspberry Pi

- 1.1 Different Models of Raspberry Pi
- 1.2 Why Raspberry Pi.
- 1.3 Peripherals of Raspberry Pi.
- 1.4 Applications of Raspberry Pi.
- 1.5 Future of Micro Computing.

2. Preparing Your Raspberry Pi for First Use

- 2.1 Different Operating Systems for Raspberry pi.
- 2.2 Getting Started With NOOBS
- 2.3 Getting things ready for first use.
- 2.4 NOOBS OS inside out.
- 2.5 Booting for the First time.

3. Setting Up for a Perfect Pi Experience

- 3.1 Operation Procedures.
- 3.2 Do's and Don'ts
- 3.3 Updating Pi to Latest softwares.
- 3.4 Setting various Options and Personalizing.
- 3.5 First introduction to the LINUX terminal.
- 3.6 Introduction to the Open Source Software Library.

4. Introduction to LINUX Environment

- 4.1 The Linux Organization Structure.
- 4.2 LINUX Shell.
- 4.3 SHELL Scripting.

5. Getting Familiar with the GPIO Pins of your Pi

- 5.1 Pin numbering Formats
- 5.2 The Voltage hazard Information.
- 5.3 The LED Interfacing.
- 5.4 The First Button Interface with Raspberry Pi.
- 5.5 General information on other pins and their functionality.

6: Live Projects

6.1 LED Running Lights.

6.2 Buttons Interfacing.

6.3 Buzzer Interfacing.

6.4 UART interfacing.

6.5 TTL Level converter interfacing for Other Controller's Interface.

6.6 Problem Solving

6.7 Troubleshooting.

