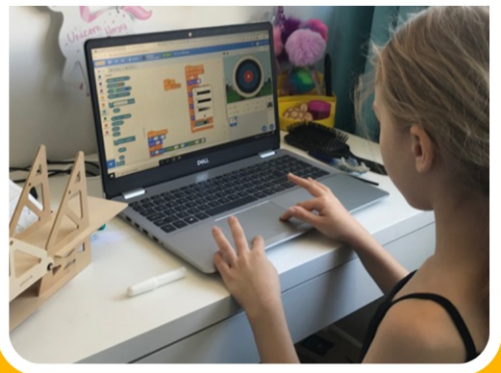
Raspberry Pi Course - Level Advance



Raspberry Pi is a delicate card computer. Course Raspberry Pi, very suitable for zero-based raspberry pi enthusiasts. Through this course, you can learn more about the linux operating system, as well as C, python and other language programming based on the debian system of Raspberry Pi. This course also provides you with some related sensors and modules applied to the Raspberry Pi.

Learning Outcome:

Course offers richer knowledge that allows you to learn about Raspberry Pi from scratch. The course includes the installation and usage of the Raspberry Pi related system, which also offers you the learning of Raspberry Pi collocated with some commonly used sensors and modules.

Requirement :

- Components : Raspberry Pi Starter Kit
- Required Laptop with internet connection
- No prior knowledge in programming or electronics

Setting up your Raspberry Pi

- Introduction
- What you will need
- Set up your SD card
- Connect your Raspberry Pi
- Start up your Raspberry Pi

Using your Raspberry Pi

- Introduction
- Raspberry Pi Desktop
- Keyboard and mouse settings
- Connecting to the internet
- Setting up the sound
- Installing software
- Updating your Raspberry Pi
- Accessing your files
- Using the terminal
- Configuring your Raspberry Pi

Projects : 1

- Hello World
- LED Blinking
- Breathing LED
- Traffic Light
- LED Chasing Effect
- Button-controlled LED

Projects : 2

- Passive Buzzer
- Active Buzzer
- Responder
- Flame Sensor
- Ball Tilt Sensor
- IR Remote Control

Projects : 3

- 1-digit LED Segment Display
- 74HC595
- 4-digit LED Segment Display
- LED Matrix Display
- 1602 LCD
- RGB LED

Projects : 4

- 9g Servo Control
- ULN2003 Stepper Motor
- Photoresistor
- LM35 Temp Sensor
- pcf8591
- PIR Motion Sensor

Projects : 5

- MQ-2 Analog Gas Sensor
- ADXL345 Acceleration Module
- Ultrasonic Sensor
- Joystick Module

Projects : 6

- 5V Relay
- DHT11 Temp and Humidity Sensor
- Soil Humidity Sensor
- DS3231 Clock Module