Word Count: 943

Video, Introduction to the course

Hi There, Welcome to the course “Introduction to Raspberry Pi 4”. My name is Naveen PS. I am part of the instructor team at Makerdemy, and I will be your instructor for this course. I am an Electronics and Communication Engineer by education, and I am passionate about teaching technology. I have experience in teaching technologies in an online setting to more than 3000 students.

Section 1, Getting Started with the Raspberry Pi 4

In this section, we will cover the following

* Introduction to the course
* Getting acquainted with the credit card-sized computer
* Part 1: In-depth insights into the hardware features of the Raspberry Pi 4 Model B
* Part 2: In-depth insights into the hardware features of the Raspberry Pi 4 Model B
* Essential Accessories & Setting up the Hardware

Introduction to the course

In this video, we will cover the following

* Target Audience
* Course Prerequisites
* Learning Outcomes and
* The Course RoadMap

So, who is the target audience?

* A hobbyist who wants to learn to work with the latest Raspberry Pi
* A teacher who wants to get a head start into the world of Physical computing for guiding his or her students
* A total beginner, who wants to do projects to solve problems using the Raspberry Pi

Let us now look at the course pre-requisites

* Good Logical Thinking
* Basic Understanding of Electronics

Now you might be asking, what will I learn by the end of the course?

By the end of the course,

* You will have deep knowledge about the hardware features of the Raspberry Pi 4 and its applications
* You will be confident in setting up the hardware and software for the Raspberry Pi 4 and troubleshooting
* You will have a basic understanding of Linux and Python Programming
* You will have learned the basics of physical computation, and would be able to interface a wide variety of sensors and actuators like LED, Button, Light Sensor, Motion Sensor, Motors, Ultrasonic Sensors, and much more.
* You will be confident in working with UART, I2C and SPI Protocols on the Raspberry Pi 4
* You will be able to control GPIO pins wirelessly using Bluetooth and be able to build basic IoT projects using the Cayenne Platform

Let us now look at the course roadmap

* We will first get started with the Raspberry Pi 4
* Next, we will setup the software for the Raspberry Pi 4
* Later, we will learn Linux Fundamentals
* Next, will learn basic python programming
* Then, we will learn Physical Computing with Raspberry Pi 4
* And finally, we will implement wireless communication in the Raspberry Pi 4

So, what components should you buy to finish this course?

You may go through the components list given in the resources to get a section by section breakdown and the links to buy them.

During the course, if you need any help in understanding or implementing concepts, please follow these best practices to make the learning process more interactive and fluid.

* Research the concept or implementation yourself using online resources.
* If your query is still not solved, then you may do a Quick Search in the Q&A section of the course.
* If your query hasn’t been answered in the Q & A section already, please submit a new question there.
* Your query must include relevant details like Error messages, Screenshots, and description. Your questions are my top priority, and I will do my best to get back to you at the earliest.

Throughout the course, I have provided a curated collection of resources. These resources include links to complete codes, documents for in-depth learning, blogs, videos, and more. Make sure that you go through the resources in every section.

All the codes and libraries are saved in a GitHub repository. They are organized section-wise for ease of access to you, the learner. I will now show you how to collect all the codes on to your computer. First, click the repository link given in the resources. Now click on the “Clone or download button”. After that, select “Download Zip”. After downloading, extract the file to get access to all the codes and libraries.

So, why are you waiting?! Come, join me in this course. I am looking forward to being your instructor and to guide you to start working with the Raspberry Pi 4 Model B

Summary

In this video, we have covered

· Overview of the course

· Then the Target Audience and the course prerequisites

· Learning Outcomes, the Course Roadmap

· And Some Best Practices for a great learning experience

In the next video, we will get acquainted with the credit card-sized computer known as the Raspberry Pi 4 Model B.

**Promo**

Introduction to Raspberry Pi 4

Hi there, Welcome to the course “Introduction to Raspberry Pi 4”. My name is Naveen PS. I am part of the instructor team at MAKERDEMY. This is a beginner level course, and no prior knowledge of programming or electronics is required to start off.

In this course, you will get deep insights into the hardware features of the Raspberry Pi 4. You will learn to configure properly and set up the software and also learn to do proper troubleshooting. You will become competent with Linux & Python programming. You will learn to work with a number of actuators & sensors. You will also learn wireless communication using Bluetooth and implement IoT project using the Cayenne Platform.

If you are a hobbyist, a teacher, or a beginner who wants to get introduced to the world of physical computing using the Raspberry Pi 4, this course is for you.

So, why are you waiting?! Come, join me in this course. I am looking forward to being your instructor and to show you around the magical raspberry pi 4.