ACOPY ignt Mechatron Robotics

Python & Raspberry Pi

Level 8 | 48 Hrs. | Age group: 12yrs. +

Description This course is an introduction to the Raspberry Pi platform. Students will learn how to set up the Raspberry Pi environment, get a Linux operating system running, and write and execute some basic Python code on the Raspberry Pi. You will also learn how to use Python-based IDE (integrated development environments) for the Raspberry Pi and how to trace and debug Python code on the device.

Skills you will Develop

- ▼ Creativity & Innovation
- Problem Solving
- Team Work
- Conceptual Skills
- Presentation & Communication Skills
- Additional Projects
- Perseverance
- ▼ Logical Thinking

What will you Learn?

- ▼ Hardware & Architecture of Raspberry Pi
- ▼ Temperature and humidity monitoring
- ▼ Learn GPIO pins and external peripherals
- ▼ Garbage level monitoring using IR sensor
- ▼ Control the peripherals with Python
- ▼ Introduction to protocols and broker
- ▼ Connection of Raspberry Pi with Sensors & Camera
- ▼ Communication through different brokers.

Eligibility

- ▼ Good knowledge of Electronics
- Basic knowledge of Python
- **Basics of Programming**

