



Raspberry Pi enables you to explore coding in a fun and practical way. You will develop problem-solving and critical thinking skills whilst learning important new programming skills e.g. Linux shell commands, the Python programming language, creating algorithms, testing programmes for mistakes.

No prior knowledge of coding is required. However, if you are already familiar with Raspberry Pi, you will have the chance to further your skills with help from our specialist staff. The Python language is great for both beginners and advanced programmers. It is versatile and rapidly growing in popularity. Most students work in pairs, maximising opportunities for collaboration, analytical thinking and problem-solving.



In one week students will learn:

- how to use Raspberry Pi
- the basics of Linux operating system
- about electricity and electrical components
- the basics of the Python programming language

In two weeks students will also learn:

- to build a robotic arm
- how to use advanced control structures in Python
- how to use external libraries in Python to control the USB port
- how to control the robotic arm using Python via the USB port