

Introduction to Python

2 day training course



Course contents

This course will cover the following topics. Those marked with (*) will be covered if time allows.

Basic coding

- Python variables
- Testing conditions
- Printing and f-strings

Visual Studio Code

- Installing extension
- Configuring settings
- Useful short-cuts

Running and debugging

- The code runner extension
- Stepping through code
- Setting breakpoints

Ranges and loops

- WHILE loops
- Breaking out of loops
- Ranges of numbers

Working with modules

- Installing modules using PIP
- System modules (OS and SYS)
- Maths functions (MATH)

Sequences

- Tuples versus lists
- Iterating over sequences
- Slicing sequences
- Joining and splitting

Manipulating lists

- Adding/removing items
- Sorting lists
- Shallow and deep copies

Files and folders

- Reading and writing
- Using WITH
- Looping over lines
- Looping over folders using GLOB

Error handling (*)

- The try clause
- Handling exceptions

Working with data types (*)

- Manipulating strings
- Numbers and Booleans
- The DATETIME module