

# GCSE Computer Science: Python Programming 2019



## Presented by Sarah Shakibi

Sarah has many years of experience as Head of ICT and Computing. Currently, she teaches the CIE iGCSE, AQA and IB in Computer Science. Sarah's passion is for computational and algorithmic thinking, and how to 'wake up' this talent in children.

**£299 + VAT**

Make sure you ask about additional delegate discounts

- ✓ **Meet GCSE programming requirements, irrespective of your examination board**
- ✓ **Deliver programming modules confidently**
- ✓ **Enhance pupil understanding of the theory of programming**
  - Searching
  - Sorting algorithms

**Hands-on  
practical  
course**

### Programming toolkit for Python: coursework component

Maximise pupil success in coding and coursework  
Identify and use variables, operators, inputs, outputs and assignments  
Understand Sequence, Selection, Iteration  
Explore the suitable uses for FOR and WHILE loops  
Use different types of data:

- Boolean
- string
- integer
- real

Basic string manipulations  
Basic file handling operations:

- Open
- Read
- Append
- Write
- Close

Define and use arrays in solving problems  
Understand and use functions/procedures to create structured code

### Successful and robust code-testing techniques: theory component

Standard searching algorithms:

- Binary search
- Linear search

Standard sorting algorithms:

- Bubble sort
- Merge sort
- Insertion sort

Counts and rogue values  
Constructs in OOP

*"Sarah was very knowledgeable and was able to get over her points in a clear concise way. Very professional."*

**Sharon Stimson, Kings School**

*"[the course] was very interesting, delivered with clarity and tailored to our needs. Sarah was very engaging."*

**Previous course delegate**

## Book Now

 [osiriseducational.co.uk](http://osiriseducational.co.uk)

 **0808 160 5 160 / 01790 753 987**

 **Call 01790 755 783 to run this course in your school**

### Delegates receive

- ✓ Online post-course support
- ✓ Delegate file including extra materials
- ✓ CPD certificate
- ✓ Quality training facilities

