

Learn Coding

ale66

Table of contents

1 Elevator pitch	2
2 On module completion you will be able to:	2
3 instructor	3

Module administration



1 Elevator pitch

- introduce coding and Python
 - focus on simple ways to develop software autonomously
 - We will learn programming with Python!
-

- If time allows: basic Data Science methods
 - Data types and data structures
 - Conditional and loops
 - User input output
 - Text files
 - Functions
 - Data cleaning
 - Basic stats
 - Relational databases and their Structured query language (SQL)
-

2 On module completion you will be able to:

- Write Python programs
 - start personal projects
 - Understand the basics of algorithms and coding
 - Use different data sources
 - Visualize data
 - use the SQL language to query relational databases; set up and run simple databases
-

- hands-on Python
- basic structures, iterations & functions
- List, Dictionaries, Sets and Tuples
- Numerical functions: Numpy
- Data visualisation: Matplotlib
- Data ingestion, tables and time series: Pandas

- Intro to SQL: Structured Query Language
 - Creating simple SQL databases
 - writing SQL queries to extract data
 - embed SQL in Python
 - Developing a Case Study with Python
-

- Class style
 - **Laptops on, smartphones off**
 - **Lectures and labs mix up seamlessly**
 - **use the Teams channel for quick questions**
-

3 instructor

- Dr Alessandro Proveti
- PhD on AI for simplifying programming languages
- Research on understanding user data in “Social web” platforms.
- Started the [Birkbeck Institute for Data Analytics](#)

office: virtual (MS Teams) mostly

email: a.proveti@bbk.ac.uk



-
- TA: Dr Alberto Matuozzo
 -
 - PhD in Machine Learning for Finance at Birkbeck, UK
 -
 - Research on mixed AI systems in Finance

office: virtual (MS Teams) mostly

email: amauto01@student.bbk.ac.uk



- Guest lecturer: Dr Federico Pilati
- PhD in Computational Social sciences at IULM, IT
- Post-doc at Université de Genève, CH
- Research on the emergence of online communities within digital platforms (e.g. Wikipedia, Twitter, TikTok, Twitch)

office: virtual (MS Teams) mostly

email: federico.pilati2@unibo.it

