



Institute of Business and Technology

Data Analytics using Python (Online)

Study details

Course type: Professional Diploma

Degree: Diploma in Data Analytics using Python

Study mode: Full time

Duration: 11 Week Month

Cost of study

Cost : 952 EUR

Reg. fee : N/A EUR

Scholarship :

Insurance : N/A EUR

Intake/s

Jun

Requirements

Entry Requirements

This course has been designed for beginner programmers, so no previous working knowledge of programming is required. However, to ensure sufficient digital literacy, students should be familiar with core applications, such as word processing and spreadsheets, at the ECDL level or equivalent.

Accommodation

Speciality

One evening per week

- Thursdays

Additional information

Course Overview

Students will use Jupyter Notebooks to get a hands-on study experience. They will be required to practice programming for themselves during lectures outside of the classroom. Students should commit to at least five hours of learning outside of class time each week. Due to the interactive nature of these classes, the number of students is limited.

What you will learn:

This data analytics with python course is perfect for those who may feel a little overwhelmed and want a simple, clear place to start their programming journey. It has been designed for those with little or no previous experience in the area who want to feel confident in their ability to write code. It's ideal for any learner with an interest in and the motivation to embark on a career in software development.

This course will allow you to go from a complete beginner to having a solid understanding of the Python programming language.

You'll begin by completing basic exercises that focus on the core concepts of programming. As you progress, you'll learn how to use variables to store, retrieve, and calculate information. You will then move on to conditional execution, iteration, and many other functions, lists, list processing, object custom types, and handling exceptions

Course Content

At the end of this course students will have:

- A fundamental understanding of programming and the different techniques and languages used for programming
- A firm base in procedural programming using Python
- A fundamental understanding of Python Object Orientated Programming
- Learn how to integrate AI into Python development by leveraging ChatGPT as a learning tool and an assistant when programming
- A sound knowledge of the major libraries used for data analysis, [NumPy, Pandas, Matplotlib, Seaborn]
- Practical knowledge of how to import, filter, manipulate, and save data to CSV files.
- Ability to use the relevant tools to output data in tabular and graphical format
- The ability to recognise the power of Jupyter Notebooks to carry out, report, and demonstrate sophisticated and complex data analysis.

What is a Professional Diploma?

An IBAT Professional Diploma is a focused, short-duration practical course that consolidates, upskills and/or reskills learners in a professional area. It is a stand-alone qualification that does not lead to an award on the National Framework of Qualifications (NFQ).