MASTER 1

MENTION ECONOMIE
PARCOURS EXPERTISE ECONOMIQUE

INTRODUCTION TO PYTHON / S1

TEACHER :

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OBJECTIVES OF TEACHING:

This 18-hour module provides an introduction to the Python programming language.

Python is a modern, powerful and very accessible programming language for non-specialists. Today, it is used in many fields, both in the academic research or in companies. It is a language that goes to the essential, minimizing technical constraints which makes it an ideal language to learn programming. It can help to solve a problem in a few lines of code. However, it can also be used for larger projects. It is free and open-source, and it can used under the main operating systems such as Windows, MacOS or Linux.

PREREQUISITES :

This course is for beginners and does not require any special computer skills. Students have to bring there own personal laptops (PC or Mac) for the lectures in order to do the tutorials. A personal computer is also needs to performed the final project.

PLAN / SUMMARY :

Lectures	Content
1/6 (+3 hrs)	- Why Python, first lines of code - Manipulate the variables - Tutorial 1 (exercises)
2/6 (+6 hrs)	- Use of functions, logical conditions - Create a simple game in Python - Tutorial 2
3/6 (+9 hrs)	- Loops, lists and dictionaries - Tutorial 3
4/6 (+12hrs)	- Access and manage files content - Tutorial 4
5/6 (+15 hrs)	- Concepts of object-oriented programming - Tutorial 5
6/6 (+18 hrs)	- Create graphical interfaces : use of TKinter - Tutorial 6