

Computer Sciences

ECTS : 3

Volume horaire : 27

Description du contenu de l'enseignement :

Planning:

- weeks 1 to 6: 1h30 of class + 1h30 of labs in a computer room
- weeks 7 to 12: podcasts + 1h30 of labs in a computer room

Content:

- basic concepts of algorithms in Python: variable, affectation, use of the print() and output() functions
- Conditional instructions and Boolean expressions
- Repetitive instructions (loops)
- Modular programming: functions and libraries in Python
- Sequential data structures in Python: strings and lists
- Reading and writing to text files

Compétence à acquérir :

This class is an introduction to algorithms and programming.

The students develop sound skills in Python programming language, which is now a reference language in many technical domains.

This class lets students design and code Python programs to extract and handle data.

Mode de contrôle des connaissances :

Mid-term exam, final exam and quizzes