

Master Économie Programmation pour les big data

Responsable	Descriptions	Informations
	Code : BECCV12A	Composante : Faculté d'Économie et de Gestion
	Nature :	Nombre de crédits :
	Domaines : Droit, Économie, Gestion	

LANGUE(S) D'ENSEIGNEMENT

Anglais

CONTENU

This course is aimed at teaching the basics of computer programming, with emphasis on its use in Big Data. Students will first become familiar with database management. They will then learn the basics of programming with the computer language Python.

Course outline:

1. Database Management (relational model, relational algebra, SQL language, ...)
2. Introduction to Python
3. Creating Functions
4. Introduction to Numpy
5. Data manipulation with Pandas
6. Visualization
7. Parallel programming

COMPÉTENCES À ACQUÉRIR

- Being able to create a database and query it to extract information
- Knowing how to load data into Python, manipulate it and format it
- Being able to understand and use functions from Python libraries
- Acquire knowledge on distributed computing

MODALITÉS D'ORGANISATION

- Sessions alternating theoretical presentations and applications.
- The applications will be carried out on computers.

BIBLIOGRAPHIE, LECTURES RECOMMANDÉES

- Rockoff, L. (2016). The language of SQL. Addison-Wesley Professional.
- VanderPlas, J. (2016). A Whirlwind Tour of Python. O'Reilly Media, Inc.
- Lutz, M. (2013). Learning Python: Powerful Object-Oriented Programming. O'Reilly Media, Inc.
- <https://www.python.org/>

VOLUME HORAIRE

- Volume total: 24 heures
- Cours magistraux: 24 heures

CODES APOGÉE

- BECC14A [ELP]

M3C

Aucune donnée M3C trouvée

POUR PLUS D'INFORMATIONS

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