Algorithmique 2

Lecturer
Jean CARDINAL (Coordinator)

Course mnemonic
INFO-F203

ECTS credits
5 credits

Language(s) of instruction
French

Course period
Second term

Course content

This course covers first graph algorithms, studied from the data structures point of view. Several algorithms related to graphs are then studied. Other programming methods like dynamic programming and greedy algorithms are then covered.

Objectives (and/or specific learning outcomes)

Conceptualisation of algorithmic methods and structures. Optimisation of algorithms and data structures. Study of graphs in algorithmic.

Pre-requisits and co-requisits

Pre-requisites courses

INFO-F101 | Programmation | 10 crédits and INFO-F103 | Algorithmique 1 | 10 crédits

Course having this one as pre-requisit

INFO-F311 | Intelligence artificielle | 5 crédits

Course having this one as co-requisit

INFO-F310 | Algorithmique et recherche opérationnelle | 5 crédits

Teaching method and learning activities

Course, exercises and individual projects.

References, bibliography and recommended reading

> Sedgewick R., Algorithms in c++. Addison et Wesley. – Cormen, T., C. Leiserson et R. Rivest. Introduction à l'algorithmique : cours et exercices corrigés. Seconde édition. Dunod.

Other information

Contact(s)

Bernard Fortz Campus de la Plaine Bâtiment NO Local 2.N3.203

Evaluation method(s)

Other

Evaluation method(s) (additional information)

Written exam with open questions.

Programmes

Programmes proposing this course at the faculty of Sciences

BA-INFO | Bachelor in Computer science | unit 2 and BA-MATH | Bachelor in Mathematics | unit 3