

Computing



ECTS



Hourly volume
56h

Introducing

Description

Programme (detailed contents):

- 1- breakdown in sub programs
- 2- constraint and non constraint arrays
- 3- recursive algorithms: principle, examples
- 4- pointers and linked lists

Objectives

At the end of this module, the student will have understood and will be able to explain (main concepts):

- functional breakdown: procedure choice, setting of procedures
- differences between several data structures: arrays, records, pointers and linked lists
- recursive algorithms
- array exploring, sorting and merging

The student will be able to:

- analyze an advanced problem
- breakdown it into subprograms
- choose adapted data structures
- specify (recursive) algorithms
- implement algorithms in ADA language
- specify and realize test cases.

Necessary prerequisites

L1 algorithm lecture.

Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)

 Toulouse