

Langages de programmation 1

Lecturer

Christophe PETIT (Coordinator)

Course mnemonic

INFO-F105

ECTS credits

5 credits

Language(s) of instruction

French

Course period

Second term

Campus

Plaine

Course content

Concept of programming language and compilation/interpretation

Statements (high and low level), expressions and programming style

Type systems and fundamental types

Declarations, scope and conversions

Compound types (POD)

Functions and modules (parameters passing, stack frame)

Abstract data types (encapsulation) - Construction, copy...

Codifications and standards

Objectives (and/or specific learning outcomes)

General concepts

Applications to various languages (particularly C++ and Python)

Understanding of translation process from program source to binary code.

Learning of C/C++ (procedural aspects, without Object Oriented design).

Pre-requisites and co-requisites

Courses having this one as pre-requisit

INFO-F202 | Langages de programmation 2 | 5 crédits and INFO-F209 | Projets d'informatique 2 | 10 crédits

Teaching method and learning activities

Lectures, exercices and programs.

Contribution to the teaching profile

Fundamental knowledge of programming, languages and computer architecture; introduction to assembly language.

Correct usage of these concepts for writing programs and choosing the more efficient programming construction.

Critical presentation of projects and results.

References, bibliography and recommended reading

Hyperlinks and downloadable documents on UV.

Course notes

Université virtuelle

Other information

Place(s) of teaching

Plaine

Contact(s)

Christophe Petit - Computer Science Dept - Campus Plaine - CP212 - Building N/O, Room 2.N8.115. Email: firstname dot lastname at ulb dot be

Evaluation method(s)

written examination and Project

Determination of the mark (including the weighting of partial marks)

Higher mark among

> 1/3 project + 2/3 exam

> 100% exam

Project marks will count towards both June and September evaluation sessions

Main language(s) of evaluation

French

Programmes

Programmes proposing this course at the faculty
of Sciences

BA-INFO | Bachelor in Computer science | unit 1

