

UE Programming project (Compiler design)



Level
Baccalaureate
+4



ECTS
3 credits



Component
UFR IM2AG
(informatique,
mathématiques
et
mathématiques
appliquées)



Semester
Automne

- > **Teaching language(s):** English
- > **Teaching type:** Personal and professional project
- > **Open to exchange students:** No
- > **Code d'export Apogée:** GBX7MO09

Presentation

Description

The aim of this project is to develop a simple compiler. That is, a translator from a source language to a target language. The source language is a typed functional language, inspired by ML (eg. OCaml), with other features such as message-passing concurrent processes. The target language is Java. The implementation language is free, but Java is encouraged as some building blocks are provided to the student (notably a parser). The project consists in a few independent steps including a parser, code analysis (typechecking), translation to a generic intermediary language, and target code generation.

Period : Semester 7

Useful info

Contacts

Program director
Gwenael Delaval

Place

> Grenoble

Campus

> Grenoble - University campus