

Traduction des Langages



Component

École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

> **Code:** N7EN08B

Presentation

Objectives

The student must master the different stages of language translation: lexical analysis, syntactic analysis and semantic analysis.

In the particular case of compilation, he must know four phases of semantic analysis: resolution of identifiers using a symbol table, typing, memory placement of variables and code generation. The student will realize a compiler that will take in input language a sub-part of C, which will produce code for an abstract stack machine. The compiler itself will be written in OCaml.