Génie du Logiciel et des Systèmes

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

In brief

> **Code:** N7EN11A

Presentation

Objectives

Study of the main software engineering principles. Understand and implement design patterns and model driven engineering.

Description

The first part presents main principles of Model-Driven Engineering (MDE): metamodelling (EMF), static semantics (OCL), textual (Xtext) or graphical (Sirius) concrete syntaxes, model to text transformations (Acceleo), model to model transformations (EMF/Java and ATL). A running example is used to illustrate all these concepts and tools.

The second part deals with design patterns, reflection, annotations and test.