



SINF1124 Programming project

[0h+60h exercises] 5 credits

This course is taught in the 2nd semester

Teacher(s): Marco Saerens

Language: French

Level: First cycle

Aims

- * To carry successfully through a computational project of reduced extent
- * To use correctly and efficiently one or more programming languages suitable to a given type of applications
- * To handle various tools that facilitate program design and development

Main themes

- * Realization (analysis, design, implementation, tests and documentation) of a technological application based on an object-oriented language (Java)
- * Use of program modeling tools
- * Use of tools helpful to develop programs : compiler, preprocessor, debugger, tools to handle files, test tools, ,

Content and teaching methods

- * Problem analysis
- * Design of implementation (for example UML class diagrams)
- * Java programming (+ libraries, for example SWING)
- * Documentation (preconditions, postconditions, invariants, alternatives, algorithms)
- * Tests (for example, JUnit)

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

- * Prerequisite
 - (1) LINF1150 Introduction à l'algorithmique et la programmation: 1ère partie B. LeCharlier
 - (2) LINF1251 Introduction à l'algorithmique et à la programmation : 2ème partie P. VanRoy
- * Reference
 - (1) Martin Fowler , "UML Distilled " , 0-201-32563-2
 - (2) David Flanagan , "Java in a Nutshell " , 0-596-00283-1 .
- * Evaluation
 - Based of a project performed individually.

Other credits in programs

FSA13BA	Troisième année de bachelier en sciences de l'ingénieur, orientation ingénieur civil	(5 credits)	
SINF11BA	Première année d'études de bachelier en sciences informatiques	(5 credits)	
SINF12BA	Deuxième année d'études de bachelier en sciences informatiques	(5 credits)	Mandatory
SINF13BA	Troisième année d'études de bachelier en sciences informatiques	(5 credits)	
SINF1PM	Année d'études préparatoires au master en sciences informatiques (60 et 120)	(5 credits)	