

LSINF1212

2013-2014

Computer science deepening project

5.0 credits	7.5 h + 45.0 h	2q
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Teacher(s) :	Saerens Marco ; Gonzalez Montesinos Sebastian Andres (compensates Saerens Marco) ;
Language :	Français
Place of the course	Louvain-la-Neuve
Inline resources:	> http://icampus.uclouvain.be/claroline/course/index.php?cid=SINF2125
Prerequisites :	p { margin-bottom: 0.08in; } Basics of object-oriented programming (LSINF1101 or equivalent), algorithmics (LSINF1103 or equivalent) and information systems (LSINF1211 or equivalent)
Main themes :	The main course themes will be specification of user requirements, design of user interfaces, data structures and persistence, and software quality control.
Aims:	p { margin-bottom: 0.08in; } The students who will succeed this course will be able to undertake the construction of a non-trivial information system, following elementary software engineering practices. More specifically, the students will develop their capacity to

Evaluation methods :	p { margin-bottom: 0.08in; } The evaluation of the project will be based on the quality of
	analysis and design of the system (30%), including conformance to specified user requirements, software architecture, data structures and persistence, and the user interface;
	system implementation (30%), including maintainability (readability, documentation, tests) and efficiency;
	the final project report (10%). The project will be drawn to a close through an oral defence as follows:
	a first part demonstrating the functionality of the system (10%),
	a second part presenting the technical internals of the system (10%), and
	a round of questions and answers (10%). The students defending in second session will have to add functionality extensions that are commensurate with the additional time they will have with respect to the first session. The evaluation criteria will remain unchanged.
Teaching methods :	p { margin-bottom: 0.08in; } The groups will be assisted in managing their organisation and progress towards the project's objectives. The project will be based on concepts given in parallel and in previous courses. New concepts will be introduced in plenary sessions. The progress of the project will be monitored through practical sessions, in which the students will be able to ask their questions and show the issues they have encountered so far.
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Content:	p { margin-bottom: 0.08in; } The students will work in small groups to design, develop, demonstrate and present their system. A number of methodologies and tools will be introduced according the project needs, in particular: Development methods driven by user requirements. User interface building tools. Data persistence tools. Source code management tools.
Bibliography:	p { margin-bottom: 0.08in; }
Cycle and year of study:	≥ Master [120] in Linguistics > Bachelor in Computer Science
Faculty or entity in charge:	INFO