2q

Université catholique de Louvain

Project 4 (in Computer Science)

4.0 credits

LFSAB1509

2015-2016

22.5 h + 22.5 h

Teacher(s) :	Deville Yves ; Lainez Marc (compensates Deville Yves) ;				
Language :	Français				
Place of the course	Louvain-la-Neuve				
Inline resources:	> http://icampus.uclouvain.be/claroline/course/index.php?cid=lfsab1509				
Prerequisites :	The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.				
Main themes :	For example, depending of the precis topic of the project: mobile computing, programming using a object-oriented language, networking and communication, graphic interface, event-driven programming, client-server				
Aims :	Contribution of the course to the program objectives Regarding the learning outcomes of the program of Bachelor in Engineering, this course contributes to the development and the acquisition of the following learning outcomes: LO 1.1, 1.2 LO 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7 LO 3.1, 3.2 LO 4.1, 4.2, 4.3, 4.4, 4.5 Given the learning outcomes of the "Bachelor in Engineering" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: S.1.5 Sz.1.4 S				

Evaluation methods :	Students will be evaluated both orally in group and individually through a written examination (organised simultaneously for all Projects 4) on the basis of the above mentioned objectives. An evaluation grid is provided at the beginning of the course. Students present and defend their project in front of a jury composed of all teachers, completed by other tutors having contributed to the project supervision. The evaluation will focus on the software developed, its documentation, a project report and the oral presentation of the project including a demonstration of the software.
Teaching methods :	 The project will be done by group of students (4-5 students per group) Students will be encouraged to communicate in English on a technical theme, orally and/or in writing.
Content :	 The software to be defined and designed will be linked to mobile computing. It will be implemented on a Smartphone or an Android type tablet. The project will be opened. Each group will develop its own project and propose a schedule as well as intermediate steps. An Agile Programming approach (iterative and incremental development) may be considered. An open source approach will be followed, allowing a wide distribution of the software.
Other infos :	This course is part of the set of courses « Project 4 » of the programme of bachelor in engineering. Projects 4 share common transversal objectives, but exist under different versions oriented towards specific disciplinary objectives, corresponding to the majors/minors of the programme. Each student chooses either the project related to his/her major or to his/her minor (if available). Students should have acquired competences in the matters covered by the following courses: LSINF1252 computer systems, LSINF1225 design and implementation of a small-scale application, LSINF1121 algorithmics and data structures, LING11341 computer networks
Faculty or entity in charge:	INFO

Programmes / formations proposant cette unité d'enseignement (UE)							
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage			
Bachelor in Computer Science	SINF1BA	4	LSINF1225 and LMAT1111F and LMAT1111E and LSINF1140 and LSINF1101 and LSINF1102 and LSINF1103	٩			
Bachelor in Engineering	FSA1BA	4	-	٩			