Université catholique de Louvain - Project 1 in Computer Science: Applications and Introduction to IoT - en-cours-2025-Isinc1001

UCLouvainIsinc1001Project 1 in Computer Science:2025Applications and Introduction to IoT

The version you're consulting is not final. This course description may change. The final version will be published on 1st June.

30.0 h + 30.0 h

6.00 credits

Q1

This learning unit is not open to incoming exchange students!

Language :	French				
Place of the course	Charleroi				
Prerequisites	These projects assume the parallel acquisition of basic notions in programming as targeted by the course LSINC1101.				
Main themes	 This teaching unit revolves around programming projects. The objectives are: to apply the notions seen in parallel in the course LINFO1101 Introduction to programming; to model simple situations using computer systems; explore various applications of computing, including the use of information from sensors; to confront professional constraints: group work, meeting deadlines, sense of responsibility; to acquire transversal skills taking notes, writing reports, oral presentation of results. 				
Learning outcomes	 At the end of this learning unit, the student is able to : With regard to the AA reference system of the "Bachelor in Computer Science" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: \$1.12 \$2.1, \$2.2, \$2.4 \$4.1, \$4.2, \$4.3 \$5.2, \$5.3, \$5.4, \$5.5, \$5.6 Students who successfully complete this course will be able to: • analyze a concrete situational problem requiring the development of a computer application and perceive the role that this application will have to play; • design the computer application corresponding to the needs identified by making use of structured programming and justify the design choices; • implement a computer application by making good use of the elements of the Python language; \$1.12 \$1.2 \$2.1 \$1.2 \$2.1 \$2.2 \$2.4 \$2.4 \$2.4 \$2.4 \$2.5 \$2.5 \$2.6 \$2.7 \$2.7 \$2.8 \$2.9 \$2.9 \$2.9 \$2.1 \$2.1 \$2.2 \$2.3 \$2.4 \$2.5 \$2.5 \$2.6 \$2.6<				

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	 present with a multimedia support the solution developed in order to convince him of the success of the project. 		
Evaluation methods	 Group work, continuous assessment. For the January session, grading will use the following scale: Project 1: 3 points ; Project 2: 7 points ; Project 3: 10 points. Project 1 is considered for the grade only if it raises the weighted average (otherwise it is ignored). For the June and September sessions, grading will use the following scale: Projects 1 and 2 cannot be redone. They only count, together, if counting both increases the grade. Otherwise, none of the two projects counts. A new project 3 must be represented individually (10 points if projects 1 and 2 increase the grade, 20 points otherwise). The use of generative AI is not authorized for this course. 		
Teaching methods	Project-based teaching		
Content	The course consists in three projects involving problem-solving using computer systems and applications. Each project is realized by a group and develops know-how in analysis, work planning, and computer software implementation. Projects last for 2 to 6 weeks each.		
Inline resources	https://moodle.uclouvain.be/course/view.php?id=4896		
Faculty or entity in charge	SINC		

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Learning outcomes		
Bachelor in Computer Science	SINC1BA	5		٩		