UCLouvain

linfo1252

2021

Informatic Systems

5.00 credits 30.0 h + 30.0 h Q1	5.00 credits	30.0 h + 30.0 h	Q1
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Teacher(s)	Riviere Etienne ;					
Language :	French					
Place of the course	Louvain-la-Neuve					
Prerequisites	This course assumes that the student already masters the programming skills in C language targeted by LEPL1503 and the algorithmic notions covered by the LEPL1402. 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	Levels of abstraction in computer systems Processor architectures Machine language, assembly language and C language Roles and functions of operating systems Using the features of an operating system in applications Processes and threads: concepts, problems and solutions Multi-processor systems					
Learning outcomes	At the end of this learning unit, the student is able to :					
	Given the learning outcomes of the "Bachelor in Engineering" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes:					
	• AA1.1, AA1.2 • AA2.4-7 • AA4.1, AA4.4					
	Given the learning outcomes of the "Bachelor in Computer Science" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes:					
	• \$1.14 1 • \$2.2-4 • \$5.2, \$5.5					
	Students who have successfully completed this course will be able to					
	 explain which functions are fulfilled by the different levels of the hierarchy ranging from the physical machine to the level on which the applications are based explain the main architectures of operating systems and processors, as well as the main devices and techniques used to realize them use and effectively implement the various services and functions offered by processors and operating systems 					
Evaluation methods	January:					
Evaluation methods	 - participation in mandatory activities (10%) - continuous evaluation, mini projects (30%) - exam (60%) September: - participation in mandatory activities maintained from January session, cannot be redone (10%) - personal exercises and project (30%) - exam (60%) Formative activities may become certificative and cover a part to all of the weight of the exam if the circumstances 					
	impose it. The professor may ask for an additional oral exam to the exam, including but not limited to the following circumstances: technical issues, suspicion of irregularities.					
Teaching methods	- lectures; - online exercises and self-training using the Inginious platform; - exercices and work sessions with tutors. Some of these activities may be organized online.					

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Content	The course presents the organization and the use of computer systems, and the principles and implementation of operating systems.
Inline resources	A link to the online syllabus is available on the Moodle page of the course.
Faculty or entity in charge	INFO

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Learning outcomes		
Bachelor in Computer Science	SINF1BA	5	LEPL1402 AND LEPL1503	٩		
Specialization track in Computer Science	FILINFO	5		•		
Master [120] in Data Science : Statistic	DATS2M	5		•		