UCLouvain

linfo1252

2023

Informatic Systems

5.00 credits	30.0 h + 30.0 h	Q1

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: • S1.I4 • S2.2-4 • S5.2, S5.5 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				

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