linfo1252
2018

5 credits	30.0 h + 30.0 h	Q1

⚠ **This learning unit is not being organized during this academic year.**

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

Aims	1 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
	
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	The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".

Faculty or entity in charge	INFO

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Computer Science	SINF1BA	5	LEPL1402 AND LEPL1503	🔍
Bachelor in Engineering	FSA1BA	5	LEPL1503	🔍