

5.0 credits	30.0 h + 30.0 h	2q
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Teacher(s) :	Lobelle Marc ;
Language :	Français
Place of the course	Louvain-la-Neuve
Prerequisites :	functions of the different levels from the physical layer to the application layer, main computer system architectures (eg SINF1252)
Main themes :	<ul style="list-style-type: none"> -- Architecture and implementation of operating systems -- Memory hierarchy, memory management -- Input/output devices and their interaction with the OS -- Security, fault tolerance -- Programming a computer that does not contain an OS
Aims :	Students completing successfully this course will be able to <ul style="list-style-type: none"> -- compare different implementations of operating systems and highlight the advantages and disadvantages of these implementations -- explain what are the main problems to be solved by an operating system and present the various solutions with their advantages and disadvantages -- describe the interactions between hardware and software <i>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".</i>
Content :	See "Main themes"
Bibliography :	<ul style="list-style-type: none"> -- Andrew S Tanenbaum, Albert S Woodhull, Operating Systems Design and Implementation, 3/E, Prentice Hall, 2006 -- David A. Patterson and John L. Hennessy, Computer Organization and Design
Other infos :	
Cycle and year of study :	<ul style="list-style-type: none"> > Bachelor in Engineering > Bachelor in Computer Science > Preparatory year for Master in Computer science > Bachelor in Engineering : Architecture > Bachelor in Economics and Management > Bachelor in Mathematics
Faculty or entity in charge:	INFO