LINGI2241

2016-2017

Architecture and performance of computer systems

6.0 credits	30.0 h + 30.0 h	1q

Teacher(s) :	Sadre Ramin ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Main themes :	-- Organization of operating systems -- Management of devices by the operating system -- Management of storage devices by the operating system -- Filesystems -- Virtualization -- Evaluation and improvement of performance of computer systems
Aims :	Given the learning outcomes of the "Master in Computer Science and Engineering" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: -- INFO1.1-3 -- INFO2.4-5 -- INFO5.2-5 -- INFO6.1, INFO6.3 Given the learning outcomes of the "Master [120] in Computer Science" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: -- SINF1.1-3 -- SINF2.4-5 -- SINF5.2-5 -- SINF6.1, SINF6.3 Given the learning outcomes of the "Master [60] in Computer Science" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: -- 1SINF1.M1 1SINF1.M2 -- 1SINF2.4-5 -- 1SINF5.2-5 -- 1SINF6.1, 1SINF6.3 Students completing this course successfully will be able to -- compare different implementations for operating systems and highlight the advantages and disadvantages of these achievements -- explain the interactions between the operating system and the hardware (storage, network, virtualization) -- evaluate the performance of a computer system -- identify factors that limit the performance of a computer system *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".*

Evaluation methods :	The evaluation is composed of two parts : -- Final exam for 50% of the final mark. -- A short written report based on the practical work done during the course group for 50% of the final mark. The report will be evaluated only once and can not be represented in the second session.
Other infos :	Background : -- basic computer architecture and operating systems concepts (LSINF1252) -- computer networks organisation and protocols LINGI1341
Faculty or entity in charge:	INFO

Programmes / formations proposant cette unité d'enseignement (UE)

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [60] in Computer Science	SINF2M1	6	-	🔍
Master [120] in Computer Science and Engineering	INFO2M	6	-	🔍
Master [120] in Computer Science	SINF2M	6	-	🔍