Université catholique de Louvain

Electronic bases of computer science

6.0 credits

LSINF1140

2015-2016

30.0 h + 30.0 h

) h

2q

Teacher(s) :	Legat Jean-Didier ;				
Language :	Français				
Place of the course	Louvain-la-Neuve				
Inline resources:	> http://moodleucl.uclouvain.be/course/view.php?id=4333				
Main themes :	 Fundamental laws of electricity electrostatics, magnetism Electrical circuits (Sources, Kirchhoff laws,) Simulation of electrical circuits using appropriate software (eg Spice) MOS transistor Logic gates and their implementation in MOS (combinational circuits and sequential circuits based) memory points (SRAM, DRAM, Flash)				
Aims :	Given the learning outcomes of the "Bachelor in Engineering" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: S1.G4 S2.2, S2.4 Students completing this course successfully will be able to explain the basic laws of electricity and electrical circuits solve simple electrical circuits using wisely the fundamental laws simulate simple circuits using a software and interpret the results characterize simple electrical circuits by explaining their operation explain the operation of the MOS transistor as a logic switch describe, from the combination of MOS transistors, the opering and implementation of basic logic gates and the main memory points 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 methods of assessment are defined on the course website on Moodle.				
Other infos :	This course assume you get basic knowledge in physics and mathematics from secondary school.				
Faculty or entity in charge:	INFO				

Programmes / formations proposant cette unité d'enseignement (UE)						
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage		
Bachelor in Computer Science	SINF1BA	6	-	٩		