UCL Université catholique de Louvain

LSC1181

2015-2016

Computer tools and documentation research

3.0 credits	15.0 h + 30.0 h	2q

Teacher(s) :	Van Hove Marie-Anne ; Moens André (coordinator) ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	Part 1 - Physical world - The machine and its environment - Programs : languages, programming, etc. - Peripherals : terminals, disks, printers, etc. - Software layers : operating systems, usual functions, user services (commands) , program services, examples of services, files - Mono and multi-user environment - Application supports - Applications - Advanced techniques : artificial intelligence - Communications : distant access, computer networks, local networks, widespread networks. Part 2 - Logical organization of information - File system - Databases : structure and operation, examples of interest in natural sciences - Documentation databases Part 3 - Introduction to formal logic (true/false/and/or/combinations) - Application studies relative to exact sciences with the use of those software applications: App 1 :word processing App 2: worksheets and graphics App 3 : Simple file manipulation App 4 : Database App 5 : Documentation database App 6 : tools for oral presentations Part 4 - Practical work Hands on sessions in direct relation to other courses taught in the first year cover some of the following aspects : - information research: Comparison between study programs of various universities; retrieving specific information for other courses . - Calculations and graphics: analyze data with software - Lab reports: Using software to present properly a report on some requested topic
Aims :	The course aims to give the students knowledge and competences that will help them to evaluate the compatibilities and limits of computer systems, in relation to the needs of their studies and future profession Hands on sessions about the use of computer software linked to the courses followed in their first year of baccalaureat in sciences will lead to acquire the practical competences of using computer tools. *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".*
Other infos :	Evaluation of knowledge Evaluation of competences acquired, on the bases of work realized by students (reports)
Faculty or entity in charge:	SC

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Bachelor in Chemistry	CHIM1BA	3	-	
Bachelor in Geography : General	GEOG1BA	3	-	