

## LSINF1103

2016-2017

## Algorithmics

Teacher(s):	Dupont Pierre ;					
Language :	Français					
Place of the course	Louvain-la-Neuve					
Inline resources:	> http://moodleucl.uclouvain.be/course/view.php?id=9010					
Main themes :	Design and implementation of iterative or recursive algorithms: path, counting, sorting, searching in collections Computational complexity Basic data structures: arrays, stacks, queues, linked lists Recursive data structures: tree structures, binary search trees Invariants					
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:					
Evaluation methods :	A note of PARTICIPATION reflects the involvement of the student during the year to workouts, its work on Pythia (server with semi-automatic correction) and 2 mini-projects at the end of the first period.  In the first session, the participation grade takes account of 20% of the final grade + 80% for the final exam (closed book).  The participation mark can not be reassessed.  In the second session, it takes account of 10% and the final exam for 90% of the overall score.					

Teaching methods :	Magistral courses practical sessions 2 mini-projects at the end of the semester computing server (INGINious) to facilitate self-assessment by students of the solutions they propose to practical works					
Bibliography :	All documents (transparencies of courses, wording of pratical works, ,) are present on the Moodle course:  http://moodleucl.uclouvain.be/course/view.php?id=9010  There are no compulsory reference book but, in addition some books are recommended on iCampus.					
Other infos :	The following courses should be followed in the same year LSINF1101 basis of java language programming, basis in object-oriented programming LSINF1102 : apply these concpets in various situations					
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	-	Q.		
Minor in Computer Sciences	LINFO100I	5	-	•		
Master [120] in Linguistics	LING2M	5	-	•		
Additionnal module in Mathematics	LMATH100P	6	-	Q		