

2016-2017

Cloud Computing

5.0 credits

LINGI2145

30.0 h + 15.0 h

h

1q

Teacher(s) :	Leroy Damien ;				
Language :	Anglais				
Place of the course	Louvain-la-Neuve				
Inline resources:	> https://moodleucl.uclouvain.be/course/view.php?id=9880				
Main themes :	 Architectural principles of cloud computing Scalability of cloud services (storage, computing,) Building blocks for cloud services Large scale computations in cloud environments Programming models for cloud services Providing scalable web services from the cloud				
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:				

Evaluation methods :	Final exam 55% Projects 35% Online quizzes 10% Some projects and quizzes may involve mandatory peer-review. For the second examination session, an alternate project will carried out, and more practical aspects will be asked in the exam: Final exam 70% Project 30%
Teaching methods :	 Short lectures Scientific readings Quizzes (about readings, labs and lectures) Practical lab sessions Projects Learning by peer-reviewing
Content :	This course focuses on the issues and programming models related to cloud computing environments and distributed data processing technologies: data partitioning, storage schemes, stream processing, and "mostly shared-nothing" parallel algorithms.
Other infos :	Background : LINGI1341 LSINF1121 Recommended background: Computer networks (LINGI1341) Have a good understanding of computational complexity (LSINF1121)
Faculty or entity in charge:	INFO

Programmes / formations proposant cette unité d'enseignement (UE)							
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage			
Master [120] in Computer Science	SINF2M	5	-	٩			
Master [120] in Computer Science and Engineering	INFO2M	5	-	ø			
Master [120] in Mathematical Engineering	MAP2M	5	-	٩			