UCLouvain

## lingi2142

2020

## Computer networks: configuration and management

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

5 credits	30.0 h + 30.0 h	Q1

Teacher(s)	Bonaventure Olivier;					
Language :	English					
Place of the course	Louvain-la-Neuve					
Main themes	network architectures and the role of virtual networks     quality of service     provision of multicast     network reliability     principles of network management					
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 • INFO2.2-4 • INFO5.2, INFO5.4-5 • INFO6.1, INFO6.3, INFO6.4  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.M1 • SINF2.2-4 • SINF5.2, SINF5.4-5 • SINF6.1, SINF6.3, SINF6.4  Students completing successfully this course will be able to • design, deploy and manage data networks • explain the threats against networks and the defense strategies • deploy mechanisms to ensure quality of service, security and reliability  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	Due to the COVID-19 crisis, the information in this section is particularly likely to change.  Oral exam (60%) Projects (35%) Peer-reviews (5%)  Organized by groups students, the project won't be able to repeated in the second session.					
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change.  • Inverted clasroom  • Network design and management project in small groups					
Content	BGP Traffic control in IP networks IP Mutlicast MultiProtocol Label Switching BGP/MPLS VPNs Evolution of the Internet architecture					
Inline resources	https://moodleucl.uclouvain.be/course/view.php?id=9209					

## Université catholique de Louvain - Computer networks: configuration and management - en-cours-2020-lingi2142

Ribliography	Slides available on moodle reference articles available on moodle		
Faculty or entity in charge	INFO		

Programmes containing this learning unit (UE)							
Program title	Acronym	Credits	Prerequisite	Aims			
Master [120] in Computer Science and Engineering	INFO2M	5		•			
Master [120] in Computer Science	SINF2M	5		•			