UCLouvain

lingi2142

2019

Computer networks: configuration and management

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

5 credits 30.0 h + 30.0 h Q1	5 credits	s 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: 1 • 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 (40%) 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. Lectures 4-5 projects by groups to the design and configuration of networks • sessions in computer rooms with the teaching assistants at the beginning of the projects (to get used with the main commands) • sessions of feedback at the end of the projects					
Content	BGP Traffic control in IP networks IP Mutlicast MultiProtocol Label Switching BGP/MPLS VPNs Evolution of the Internet architecture					

Université catholique de Louvain - Computer networks: configuration and management - en-cours-2019-lingi2142

Inline resources	https://moodleucl.uclouvain.be/course/view.php?id=9209					
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	SINF2M	5		•		
Master [120] in Computer Science and Engineering	INFO2M	5		©		