UCLouvain

linfo2142

2022

Computer networks: configuration and management

5.00 credits	30.0 h + 30.0 h	Q1
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Teacher(s)	Bonaventure Olivier ;			
Language :	English > French-friendly			
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			
Learning outcomes	At the end of this learning unit, the student is able to: 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			
Evaluation methods	Oral exam (65%) Individual project (10%) Groupe project (20%) Peer-reviews (5%) The projects won't be able to repeated in the second session.			
Teaching methods	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://moodle.uclouvain.be/course/view.php?id=2046			
Bibliography	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	Learning outcomes		
Master [120] in Computer Science and Engineering	INFO2M	5		•		
Master [120] in Computer Science	SINF2M	5		•		