UCLouvain

linfo1341

2019

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	Q2

⚠ **This learning unit is not being organized during this academic year.**

Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	This course assumes that the student already acquired programming skills, algorithmic skills and mastery of the elementary data structures targeted by the LEPL1402 course. Successful completion of LEPL1503 is a plus *The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.*
Main themes	• Role, model and needs of representative distributed applications • Reference model of computer networks • Reliable Transport of Information: Mechanisms and Protocols • Network interconnection, addressing, routing and related problems • Local, metropolitan and long distance networks
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: • AA.1.1, AA.1.2 • AA2.5-7 • AA3.2 • AA4.1-4 Given the learning outcomes of the "Bachelor in Computer science" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: • S1.I7 • S2.2-4 • S4.3 • S5.2-5 • S6.2-3 Students who have successfully completed this course will be able to • Explain the communication needs of the different classes of distributed applications handling data or multimedia streams • Explain the distribution of functions that satisfy these needs in the different layers of the reference model • Explain the realization of these functions in Internet protocols • Choose solutions according to the needs of their application • Quantify the characteristic quantities involved in the networks Students will have developed methodological and operational skills. In particular, they have developed their ability to • Argue to highlight the positives and negatives of a solution and make suggestions for improvement; • Write a summary report containing the elements that we wish to highlight. - - - - *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".*
Faculty or entity in charge	INFO

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Computer Science	SINF1BA	5	LEPL1402	🔍
Minor in Computer Sciences	LINFO100I	5		🔍
Specialization track in Computer Science	LINFO100P	5		🔍