



Faculté des sciences appliquées

FSA

INGI2141 Réseaux informatiques : Transfert d'information

[30h+30h exercices] 5 credits

This course is taught in the 2nd semester

Teacher(s): Olivier Bonaventure (coord.), Marc Lobelle, Peter Van Roy
Language: french
Level: 2nd cycle course

Aims

- To understand and explain the main requirements of distributed and multimedia applications
- To understand and explain the functions used to fulfill those requirements in the different layers of the networking reference model
- To understand and explain how those functions are implemented in the Internet protocols
- To select the appropriate solution based on the application's requirements

Main themes

- Role, model and requirements of distributed applications
- Reference model used in computer networks
- Reliable transport of information in data networks : mechanisms and protocols
- Interconnection of networks, addressing, routing : mechanisms and protocols
- Local Area, Metropolitan and Wide Area Networks

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

- Prerequisite
 - (1) Programming with a high-level language
 - (2) Basic knowledge of hardware and operating systems (LINF1252, INGI2113/INGI2114)
- Reference

J. Kurose, K. Ross, Computer Networking : a top-down approach featuring the Internet, Addison-Wesley, 2002
- Remarque: see also <http://www.icampus.ucl.ac.be/INGI2141>

Other credits in programs

ECGE3DS/IG	Diplôme d'études spécialisées en économie et gestion (informatique de gestion - Master in Information Systems)	(5 credits)	
INFO21	Première année du programme conduisant au grade d'ingénieur civil informaticien	(5 credits)	Mandatory
INFO22	Deuxième année du programme conduisant au grade d'ingénieur civil informaticien	(5 credits)	
LINF21	Première licence en informatique	(5 credits)	
LINF21/GN	Première licence en informatique (informatique générale)	(5 credits)	Mandatory
LINF21/GS	Première licence en informatique (informatique de gestion)	(5 credits)	Mandatory