MGEST2242

2012-2013

Modélisation des flux

5.0 credits	30.0 h	1q

Teacher(s) :	Jourquin Bart ; Cornelis Eric (compensates Jourquin Bart) ;
Language :	Français
Place of the course	Mons
Main themes :	Internal flow modelling: flow management ' The flow management issues and challenges. ' The internal logistics: Handling, storage, shipping and transportation. ' Integration of logistics activities. ' Business mapping and cartography. ' Agility and standardisation of processes. External flow modelling: network models ' Four-stage modelling. -- Generation -- Distribution -- Modal choice -- Allocation ' Dynamic and multi-agent models. ' Strategic models: the European network for freight transport. The emphasis is on the methodological aspects of modelling and simulation. The course is illustrated by concrete examples. Students will be expected to carry out a practical exercise using the techniques covered in the course.
Aims :	On completion of this course, students will be able to understand the basic principles governing internal flow modelling (products and services within the company) and external flow modelling (transport of people and goods), both at a tactical and strategic level. *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 :	Written examination and individual work
Teaching methods :	' Lectures ' Case analysis ' Students' personal work
Bibliography :	' ORTÚZAR J., WILLUMSEN L. (2001), Modelling Transport, 3rd ed., Wiley. ' STEVENSON W., BENEDETTI C. (2001), La gestion des operations : produits et services, 2nd ed. Chenelière. ' HARRISON A., VAN HOEK R. (2004), Logistics Management and Strategy, 2nd ed., Prentice-Hall.
Cycle and year of study :	> Master [60] in Management > Master 120 of arts in Business engineering > Master [120] in Management > Master 120 in Management > Master [120] in Business Engineering
Faculty or entity in charge:	BLSM