UCLouvain		Ilsms2		Interna	tional Supply Chain Management
	5.00 crédits		30.0 h	Q2	

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Enseignants	Agrell Per Joakim ;Chevalier Philippe ;					
Langue d'enseignement	Anglais					
Lieu du cours	Louvain-la-Neuve					
Préalables	This course is reserved for students with a bachelor's degree in business engineering or students with equivalen quantitative method skills.					
Thèmes abordés	This advanced course describes the logistics systems, their managerial objectives and the current trends in the development of advanced decision support systems. In particular, emphasis is put on modeling and solving logistic problems using state-of-the-art approaches. The transportation, distribution and warehousing functions will be studied indetails through lectures and case studies.					
Acquis	A la fin de cette unité d'enseignement, l'étudiant est capable de :					
d'apprentissage	During their programme, students of the LSM Master's in management and Master's in Business engineering will have developed the following capabilities' KNOWLEDGE AND REASONING					
	Master highly specific knowledge in one or two areas of management: advanced and current research-based knowledge and methods.					
	A SCIENTIFIC AND SYSTEMATIC APPROACH					
	 Consider problems using a systemic and holistic approach: recognize the different aspects of the situation and their interactions in a dynamic process. 					
	WORK EFFECTIVELY IN AN INTERNATIONAL AND MULTICULTURAL ENVIRONMENT					
	 Understand the inner workings of an organization: develop a global approach and integrate the internal logic used within the organization. Position and understand the functioning of an organization, in its local and international socio-economic dimensions and identify the associated strategic issues and operational decisions. 					
	TEAMWORK AND LEADERSHIP					
	 Work in a team :Join in and collaborate with team members. Be open and take into consideration the different points of view and ways of thinking, manage differences and conflicts constructively, accept diversity. 					
Modes d'évaluation	Continuous evaluation					
des acquis des	Date: Announced on Moodle					
étudiants	Type of evaluation: Group work (I&II) Comments: 40% of final grade					
	Evaluation week					
	Oral: No Written: No Unavailability or comments: No					
	Examination session					
	 Oral: No Written: 2 hours (open book and notes), 60% of grade Unavailability or comments: Continuous evaluation activities will not be organized for the September session this part of the evaluation for the grade in September will be based on the activities of the semester. 					
Méthodes	The class is mainly analytical and based on modern readings in the area. The sessions are devoted to theoretica discussions of selected aspects and debriefs of cases and assignments. Participants work on two group cases					
d'enseignement	to be submitted and presented orally.					
Contenu	Introduction to International supply chain systems, economic, time and fiscal criteria					

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	2. Models and methods - Network Optimisation models and methods, - Mixed Integer Programming and decomposition methods, - Heuristic optimisation methods.
	3. Design of Logistics Network
	4. Maritime international freight
	5. Risk and uncertainty modelling
	6. Spatial modelling
Ressources en ligne	Moodle webpage
Bibliographie	Stadtler H., C. Kilger (Eds), Supply chain management and advanced planning : concepts, models, software and case studies , 2d edition, Springer, 2002
	Y. Pochet, L.A.Wolsey: Production Planning by Mixed Integer Programming, Springer, 2006 Introduction to Logistics Systems Planning & Control, Ghiani, Laporte, Musmanne, Wiley 2004.
	No book protected by copyright. READING FILE compulsory and available on line Supports available on line are on Moodle.
Autres infos	Evaluation: - Case solutions including class presentations, - Written exam (open book) with open questions and exercises. References: - Stadtler H., C. Kilger (Eds), Supply chain management and advanced planning: concepts, models, software and case studies, 2d edition, Springer, 2002 Y. Pochet, L.A.Wolsey: Production Planning by Mixed Integer Programming, Springer, 2006 Introduction to Logistics Systems Planning & Control, Ghiani, Laporte, Musmanne, Wiley 2004. Additional and more specialized references will be provided during the class Internationalisation: 1 international content (does the course tackle international issues related to the course content?) 1 international case study Corporate features: 1 case study 1 corporate guest Skills: 1 presentation skills 1 writing skills 1 team work 1 problem solving 1 decision making 1 critical thinking Techniques and tools for teaching and learning: 1 IT tools 1 modelling 1 quantitative methods 1 mathematics
Faculté ou entité en	CLSM
charge:	

Programmes / formations proposant cette unité d'enseignement (UE)								
Intitulé du programme	Sigle	Crédits	Prérequis	Acquis d'apprentissage				
Master [120] : ingénieur de gestion	INGM2M	5		•				
Master [120] : ingénieur de gestion	INGE2M	5		•				