


5.00 crédits	30.0 h	Q1
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Enseignants	Agrell Per Joakim ;
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 equivalent quantitative method skills.
Thèmes abordés	The course provides an indepth treatment of the relationships between independent firms in a supply chain through the analysis of their behavior, contractual frame, product, process and market choices. The first part of the course aims at understanding and modelling the strategic behavior between firms using the tools of LSM2031 and game theory in order to understand how to design the features and parameters of supply chain information. The second part looks at supplier relationsships from a strategic perspective, interfacing with procurement, production planning and product innovation, to understand the scope and limits of the previously defined tools in contexts such as e.g. armslength, partnerships and supplier pools. Strategic sourcing is a collaborative and systematic approach to reduce external spending, while improving quality, internal processes and total cost of ownership or usage.
Acquis d'apprentissage	<p><b>A la fin de cette unité d'enseignement, l'étudiant est capable de :</b></p> <p><b>During their programme, students of the LSM Master's in management and Master's in Business engineering will have developed the following capabilities'</b></p> <p><b>KNOWLEDGE AND REASONING</b></p> <ul style="list-style-type: none"> <li>• Master highly specific knowledge in one or two areas of management : advanced and current research-based knowledge and methods.</li> </ul> <p><b>A SCIENTIFIC AND SYSTEMATIC APPROACH</b></p> <ul style="list-style-type: none"> <li>• Perceptively synthesize the essential elements of a situation, demontsrating a certain conceptual distance, to diagnose and identify pertinent conclusions.</li> </ul> <p><b>WORK EFFECTIVELY IN AN INTERNATIONAL AND MULTICULTURAL ENVIRONMENT</b></p> <ul style="list-style-type: none"> <li>• 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.</li> </ul> <p><b>TEAMWORK AND LEADERSHIP</b></p> <ul style="list-style-type: none"> <li>• 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.</li> </ul>
Modes d'évaluation des acquis des étudiants	<p><b>Continuous evaluation</b></p> <ul style="list-style-type: none"> <li>• Date: <i>will be announced on Moodle</i></li> <li>• Type of evaluation: <i>Group work (I &amp; II)</i></li> <li>• Comments: <i>No</i></li> </ul> <p><b>Evaluation week</b></p> <ul style="list-style-type: none"> <li>• Oral: <i>No</i></li> <li>• Written: <i>No</i></li> <li>• Unavailability or comments: <i>No</i></li> </ul> <p><b>Examination session</b></p> <ul style="list-style-type: none"> <li>• Oral: <i>No</i></li> <li>• Written: <i>Yes (3hours)</i></li> <li>• Unavailability or comments: <i>Case grade valid also in retake session.</i></li> </ul>

Méthodes d'enseignement	The class is mainly analytical and based on modern readings in the area. The sessions are devoted to theoretical discussions of selected aspects and debriefs of cases and assignments. Applied examples for the concepts using real firms, newspaper clips and numerical illustrations are provided at the lectures. At some occasions, interactive games are used to illustrate the intuition or complexity of certain models. Inbetween lectures, participants work on the reading assignments and the course cases.
Contenu	The purpose of the course is to provide analytical skills in supply chain coordination techniques. The base models will be primarily the standard newsboy model for inventory management and simple two-period investment-production models for the strategic game models. Some topics that will be studied: # Mechanisms for coordination (Information, Relational, Contractual) # Quantity Discounts # Buy-back contracts # Revenue Sharing # Price Protection and Quantity Flexibility # Game-theoretical models in supply chain coordination # Hold-up problems (investment, inventory) # Investment incentives for product and process innovation
Ressources en ligne	Moodle webpage
Bibliographie	All required teaching material and supplementary texts available on Moodle.
Autres infos	Prerequisites (ideally in terms of competencies) LSM2030 LSM2031 LSM2032
Faculté ou entité en charge:	CLSM

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