


5 credits

30.0 h

Q2

|                             |   |
|-----------------------------|---|
| Teacher(s)                  | Agrell Per Joakim ;De wolf Daniel ;   |
| Language :                  | English   |
| Place of the course         | Louvain-la-Neuve  |
| Main themes                 | The course gives an introduction the control and coordination problems involved in supply chain management and international logistics operations. Based on quantitative methods from operations research and industrial organization, the course treats the channel coordination problem from multiple angles: level of decision making, organizational focus and information access. The topics are illustrated with cases and computational examples.  |
| Aims                        | <p><b>Having regard to the LO of the programme X, this activity contributes to the development and acquisition of the following LO:</b></p> <p>1</p> <ul style="list-style-type: none"> <li>•2. Combine knowledge 2.1. Master a core knowledge.. 2.5. Articulate and apply the acquired knowledge ' 3. A scientific and pragmatic approach 3.1. Conduct an analytical reasoning ' 3.2. Collect, select and analyze information , ' 3.5.Produce implementable solutions' 6. Teamwork 6.1. Work in a team and integrate... 7.Apply management topics to its business 7.1. Integrate the 6 management topics .. in its activity, project' 7.2. Clearly define the aims of its activity ' 7.3. Disseminate rigorous management approach ' 8. Listening and Communication 8.2. Express a clear and structured message' 9. Enlargement of its own competencies 9.2. Quick and autonomous study'</li> </ul> <p>-----</p> <p><i>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".</i></p> |
| Evaluation methods          | Closed book written exam composed of problems to solve using the techniques studied in the course, appendix authorized.   |
| Teaching methods            | The course format is interactive, theoretical sessions, practical exercises intertwined with cases, and resolution of the formulated problems with a solveur, resolution of a case study in groups.   |
| Content                     | <p>Content Specific issues that will be discussed include: facility location, logistic network planning and design, routing, inventory management, supplier contracting, sourcing strategies, quality assurance, information technology, flexibility, globalization, and performance measurement.</p> <ol style="list-style-type: none"> <li>1. Definition of logistics, concept of supply chain.</li> <li>2. Transports: advantages and externalities of the different modes of transport of goods.</li> <li>3. Physical distribution: architecture of the distribution network, location of warehouses.</li> <li>4. Management of a transport network: formulation and solution.</li> <li>5. Inventory management: calender management and order point management.</li> <li>6. Production planning: MRPII method, load-capacity adjustment.</li> <li>7. Supply chain integration: strategic partnerships, supplier networks.</li> <li>8. Procurement: choice of suppliers.</li> </ol>   |
| Inline resources            | <a href="https://moodleucl.uclouvain.be/course/view.php?id=10916">https://moodleucl.uclouvain.be/course/view.php?id=10916</a>   |
| Bibliography                | <ul style="list-style-type: none"> <li>• Daniel DE WOLF, Logistique intégrée et approvisionnements (janvier 2019), Syllabus disponible sur Moodle.</li> <li>• BAGLIN G., O. BRUEL, et al. (2013), Management Industriel et Logistique, Economica..</li> <li>• HARRISON, A. and R. VAN HOEK (2014), Logistics Management and Strategy: Competing Through the Supply Chain, 5th Edition, Peason Education.</li> </ul>   |
| Other infos                 | <p>Lectures in French.</p> <p>This cours is the continuation of the production management and modeling course, LLSMG2003.</p>   |
| Faculty or entity in charge | CLSM  |

| <b>Programmes containing this learning unit (UE)</b> |                         |         |              |   |
|--|-------------------------|---------|--------------|---|
| Program title  | Acronym                 | Credits | Prerequisite | Aims  |
| Master [60] in Management                            | <a href="#">GEST2M1</a> | 5       |              |  |