


5.00 credits

30.0 h + 10.0 h

Q2

Teacher(s)	Creemers Stefan ;
Language :	French
Place of the course	Mons
Prerequisites	Basic knowledge of mathematics, statistics and probability.
Main themes	<p>In this course, we cover the following topics:</p> <ol style="list-style-type: none"> 1. The strategic importance of supply chain management. 2. The bullwhip effect. 3. Inventory management. 4. Forecasting. 5. Supply chain management. 6. Theory of constraints. 7. Material requirements planning.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>Given the « competencies referential » linked to the LSM Bachelor in Management and Business Engineering, this course mainly develops the following competencies:</p> <ul style="list-style-type: none"> • 2. Mastering a knowledge base <ul style="list-style-type: none"> • 2.4. Activate and apply knowledge to a problem. • 3. Apply a scientific approach <ul style="list-style-type: none"> • 3.1 Use clear, structured analytical reasoning to describe and analyze a concrete problem. • 3.4. Synthesize essential elements in order to make a diagnosis and draw conclusions. • 3.5. Identify implementable solutions and priorities. • 9. Development <ul style="list-style-type: none"> • 9.1. Manage work autonomously. <p>1 <u>At the end of the class, the student will be able to:</u></p> <ul style="list-style-type: none"> • Analyze and improve operational and supply chain processes. <ul style="list-style-type: none"> Understand and manage the bullwhip effect. Understand and apply forecasting techniques. Understand and apply the fundamentals of inventory management. Understand and apply constrained production. Understand and apply materials planning systems. <p><i>Students also learn to work with Microsoft Excel to:</i></p> <ul style="list-style-type: none"> • Manage inventory. • Make forecasts. • Solve production-related optimization problems.
Evaluation methods	Written exam of exercises applying the concepts and methods seen in the course. The exam is a closed-book exam (except for the form, which will be provided at the exam).
Teaching methods	<p>This course uses a mix of:</p> <ul style="list-style-type: none"> • Lectures. • Competitive business games. • Case studies. • Software training. <p>A hands-on, fun approach is adopted to maximize student involvement. Consequently, it is important that students attend face-to-face classes. For some sessions, students are required to bring their own laptops.</p>
Content	This course covers the following topics:

	<ol style="list-style-type: none">1. The strategic importance of supply chain management.2. The bullwhip effect.3. Inventory management.4. Forecasting.5. Supply chain management.6. Theory of constraints.7. Material requirements planning. <p>A full table of contents is available on the website (https://cromso.com/UCL/Production/).</p>
Bibliography	<ul style="list-style-type: none">• Références bibliographiques recommandées, lectures conseillées <p>Supply Chain Management: Strategy, Planning, and Operation. S. Chopra. Published by Pearson.</p>
Faculty or entity in charge	CLSM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor : Business Engineering	INGM1BA	5		
Bachelor in Management	GESM1BA	5		