


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. 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	<p>This course covers the following topics:</p> <ol style="list-style-type: none"> 1. The strategic importance of supply chain management. 2. The bullwhip effect.

	<ol style="list-style-type: none">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		