

5.0 credits	30.0 h	2q
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Teacher(s) :	Chevalier Philippe ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Main themes :	This course presents the key underlying principles that drive operations efficiency in a factory, in services or in a supply chain. These principles can be used to gain valuable insight for complex real-life problems.
Aims :	<p>Ability to model operations management decisions Understand the influence of variability and uncertainty for operations management Analyze and solve real life operations management problems.</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>
Content :	<p>The class mixes interactive seminars on the topics with case studies to provide students with a feeling for the relevance and context of the subject matter.</p> <p>Content ANALYZING AND UNDERSTANDING THE EFFECT OF VARIABILITY FOR OPERATIONS MANAGEMENT Variability basics Push and Pull production systems Total quality</p> <p>MANAGING OPERATIONS IN A PLANT Pull models Shop floor controls and scheduling</p> <p>MANAGING OPERATIONS FOR SERVICES Queueing models Non-stationary systems</p> <p>MANAGING OPERATIONS IN A SUPPLY CHAIN Managing inventory Managing capacity Managing time</p> <p>Methods : In-class activities 1 Lectures 1 Interactive seminar 1 Exercices/PT 1 Problem based learning 1 role playing/simulation</p> <p>At home activities : 1 Exercices to prepare the lecture 1 Paper work</p>

<p>Other infos :</p>	<p>Other information</p> <p>Prerequisites (ideally in terms of competencies) Introduction to operations management, production management and operations research.</p> <p>Evaluation : Case solutions, class participation and an oral exam</p> <p>Support Hopp, W. and Spearman M. Factory Physics: Foundations of manufacturing management, McGraw-Hill, 2000.</p> <p>References : Provided during the class</p> <p>Internationalisation : 1 international content (does the course tackle international issues related to the course content ?) 1 international guests 1 international case study</p> <p>Corporate features : 1 case study 1 company visit</p> <p>Skills : 1 team work 1 problem solving 1 decision making 1 project management 1 critical thinking</p> <p>Techniques and tools for teaching and learning : 1 modelling 1 simulation 1 quantitative methods 1 mathematics</p>
<p>Cycle and year of study :</p>	<p>> Master [120] in Business Engineering > Master [120] in Business engineering</p>
<p>Faculty or entity in charge:</p>	<p>CLSM</p>