

5.0 credits	30.0 h
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Teacher(s) :	Chevalier Philippe ; Keymolen Guy ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	This course is both a basic course in operations management and in management science. Its scope consists of studying how operations management problems could be solved using mathematical models and techniques provided by operations research.
Aims :	<p>At the end of the class, students should be able</p> <ul style="list-style-type: none"> <li>o to specify the reference framework and the elements playing a part in the decision making process in the field of operations and production management ;</li> <li>to analyze these elements, in particular using mathematical models and techniques (without neglecting human factors), in order to help in the decision-making process.</li> </ul> <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 course starts with an introduction to the basics of operations management and production of goods and services. Next, two topics are studied : the design of a production system and the mid to short-term planning of operations. The quantitative tools are introduced progressively with their relevance</p> <p>Methods</p> <p>Lecture and exercises (cases and problems).</p> <p>In-class activities</p> <ul style="list-style-type: none"> <li>0 Lectures</li> <li>0 Interactive seminar</li> <li>0 Micro-teaching (partly presented by students)</li> <li>0 Exercices/PT</li> <li>0 Problem based learning</li> <li>0 Project based learning</li> <li>0 role playing/simulation</li> <li>0 other</li> </ul> <p>At home activities</p> <ul style="list-style-type: none"> <li>0 Readings to prepare the lecture</li> <li>0 Exercices to prepare the lecture</li> <li>0 E-learning</li> <li>0 Paper work</li> <li>0 Students presentation</li> <li>0 Other</li> </ul>

Other infos :

Prerequisite : basic course in mathematics, statistics and probabilities  
 Evaluation : open book written exam (problem solving)  
 Support : HEIZER J. and RENDER B., Operations Management, Pearson Education (2004)  
 References : see support  
 Pedagogic team : assistants of the POMS unit

Internationalisation  
 CEMS course  
 international content (does the course tackle international issues related to the course content ?)  
 international guests  
 international case study  
 other :

Corporate features  
 conference  
 case study  
 corporate game  
 corporate guest  
 company visit  
 other :

Skills  
 presentation skills  
 writing skills  
 team work  
 individual autonomy  
 problem solving  
 decision making  
 time management  
 project management  
 multicultural work  
 critical thinking  
 assertiveness  
 other :

Techniques and tools for teaching and learning

IT tools  
 Internet work  
 modelling  
 simulation  
 quantitative methods  
 qualitative methods  
 mathematics

Cycle and year of study :	<a href="#">&gt; Master [60] in Management (shift schedule)</a>
Faculty or entity in charge:	CLSM