

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"> 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 ; to analyze these elements, in particular using mathematical models and techniques (without neglecting human factors), in order to help in the decision-making process. <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"> 0 Lectures 0 Interactive seminar 0 Micro-teaching (partly presented by students) 0 Exercices/PT 0 Problem based learning 0 Project based learning 0 role playing/simulation 0 other <p>At home activities</p> <ul style="list-style-type: none"> 0 Readings to prepare the lecture 0 Exercices to prepare the lecture 0 E-learning 0 Paper work 0 Students presentation 0 Other |

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

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| <p>Cycle and year of study :</p> | <p>> Master [60] in Management (shift schedule)</p> |
| <p>Faculty or entity in charge:</p> | <p>CLSM</p> |