

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

5 credits

30.0 h + 10.0 h

Q1

Teacher(s)	De wolf Daniel (compensates Agrell Per Joakim) ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	This course is an introductory course in Operations Management. Problems occurring in an operations management setting are studied using mathematical models and techniques, or more generally a formal approach.
Aims	<p>1 At the end of the class, students should be able 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> <p>-----</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>
Evaluation methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <p>Closed book written exam composed of problems to solve using the techniques studied in the course, appendix authorized.</p>
Teaching methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <p>The lectures are illustrated by examples and provide an overview of the concepts and basic techniques. Exercise sessions emphasize the assimilation of the techniques and provide additional information where applicable, depending on the case studies at hand.</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.</p> <ol style="list-style-type: none"> 1. Scheduling in specialized workshops, 2. Inventory management, 3. Demand forecasting methods, 4. Production planning (MRP and JIT), 5. Project scheduling, 6. Design of a production center (choice of capacity, resources, location), 7. Introduction to linear programming (formulation, resolution, post-optimal analysis).
Inline resources	https://moodleucl.uclouvain.be/course/view.php?id=10380
Bibliography	<ul style="list-style-type: none"> • Daniel DE WOLF (2018), Gestion de la Production et Modélisation, 166 pages • BAGLIN G., O. BRUEL, et al. (2013), Management Industriel et Logistique, Economica. • GIARD V. (2003), Gestion de la production et des flux, Economica
Other infos	Lectures in French.
Faculty or entity in charge	CLSM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [60] in Management	GEST2M1	5		