llsmg2003
2024

Operations, Management and Modeling

5.00 credits	30.0 h + 10.0 h	Q1

Teacher(s)	Catanzaro Daniele ;Mishra Nishant (compensates Catanzaro Daniele) ;
Language :	English
Place of the course	Louvain-la-Neuve
Prerequisites	Basic courses in mathematics, probability and statistics
Main themes	This course is an introduction to operations and production management. The aim is to study how operations management problems can be solved using mathematical models and techniques, or more generally within a formal framework.
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 • define the frame of reference and elements involved in decision-making in production and operations management ; • analyze these elements, in particular using mathematical models and techniques (without
Evaluation methods	Written exam. Specific details will be provided at the first compulsory lecture of the course.
Teaching methods	Classes are illustrated with examples and provide an overview of basic concepts and techniques. Exercise sessions focus on the assimilation of techniques and provide additional information, where appropriate, based on case studies.
Content	This course introduces production management as well as quantitative methods that can be implemented to address issues related to both the production process and the overall supply chain, including (but not limited to) • supply chain network design • demand forecasting • capacity planning • manufacturing process planning and scheduling • service and workload planning and scheduling; • extension of the above models to the public sector.
Inline resources	https://perso.uclouvain.be/daniele.catanzaro/Courses/GPM.pdf
Bibliography	Please refer to the online resources.
Faculty or entity in charge	CLSM

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