UCLouvain

llsms2032

2017

Advanced Operations Management : Models and Applications

5 crédits	30.0 h	Q2

Enseignants	Chevalier Philippe ;Corluy Olivier (supplée Chevalier Philippe) ;
Langue d'enseignement	Anglais
Lieu du cours	Louvain-la-Neuve
Préalables	• An introductory course in operations management • A probability course
Thèmes abordés	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.
Acquis d'apprentissage	**Having regard to the LO of the programme, this activity contributes to the development and acquisition of the following LO:** 1 • 2. Knowledge and reasoning • 2.1. Master the core knowledge of each area of management. • 2.2. Master highly specific knowledge • 2.4. Activate and apply the acquired knowledge • 3. A scientific and systematif approach • 3.1. Conduct a clear, structured, analytical reasoning • 3.2. Collect, select and analyze relevant information • 3.3.Consider problems using a systemic and holistic approach • 3.4. Perceptively synthesize emonstrating a certain conceptual distance • 3.5.Produce, through analysis and diagnosis, implementable solutions • 7. Project management • 7.1.Analyse a project within its environment and define the expected outcomes • 7.2. Organize, manage and control the process • 7.3.Make decisions and take responsibility for them in an uncertain world **At the end of this course, the student will be able to :** 1. Model operations management decisions 2. Understand the influence of variability and uncertainty for operations management 3. Analyze and solve real life operations management problems 4. Model congestion for operations and supply chain management - - - - *La contribution de cette UE au développement et à la maîtrise des compétences et acquis du (des) programme(s) est accessible à la fin de cette fiche, dans la partie « Programmes/formations proposant cette unité d'enseignement (UE) ».*
Modes d'évaluation des acquis des étudiants	**Continuous evaluation** • Date: End of the course • Type of evaluation: Group work on a real case • Comments: participation in the course and presentation of the progress of the work **Evaluation week** • Oral: No • Written: 3 hours • Unavailability or comments: Individual Open Book Examination **Examination session** • Oral: 3 hours (15 Students/hour) • Written: No • Unavailability or comments: Presentation of group work. September examination: written 3h, replaces only the written exam.

Méthodes d'enseignement	Lectures Exercices Problem based learning Company visit Real life case study in a company
Contenu	ANALYZING AND UNDERSTANDING THE EFFECT OF VARIABILITY FOR OPERATIONS MANAGEMENT • Variability basics • Push and Pull production systems • Total quality • Development of simulation models for production systems MANAGING OPERATIONS IN A PLANT • Pull models • Shop floor controls and scheduling MANAGING OPERATIONS FOR SERVICES • Queueing models • Non-stationary systems MANAGING OPERATIONS IN A SUPPLY CHAIN • Managing inventory • Managing capacity Managing time
Ressources en ligne	http://icampus.uclouvain.be/claroline/course/index.php?cid=LSMS2032
Faculté ou entité en charge:	CLSM

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Crédits	Prérequis	Acquis d'apprentissage
Master [120] en ingénieur de gestion	INGE2M	5		
Master [120] en ingénieur de gestion	INGM2M	5		