


5.0 credits	30.0 h	2q
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Teacher(s) :	Corluy Olivier (compensates Chevalier Philippe) ; Chevalier Philippe ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Inline resources:	http://icampus.uclouvain.be/claroline/course/index.php?cid=LLSMS2032
Prerequisites :	-- An introductory course in operations management -- A probability course
Main themes :	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.
Aims :	<p>Having regard to the LO of the programme, this activity contributes to the development and acquisition of the following LO:</p> <p>--</p> <p>2. Knowledge and reasoning</p> <p>--</p> <p>2.1. Master the core knowledge of each area of management.</p> <p>--</p> <p>2.2. Master highly specific knowledge</p> <p>--</p> <p>2.4. Activate and apply the acquired knowledge</p> <p>--</p> <p>3. A scientific and systematic approach</p> <p>--</p> <p>3.1. Conduct a clear, structured, analytical reasoning</p> <p>--</p> <p>3.2. Collect, select and analyze relevant information</p> <p>--</p> <p>3.3. Consider problems using a systemic and holistic approach</p> <p>--</p> <p>3.4. Perceptively synthesize demonstrating a certain conceptual distance</p> <p>--</p> <p>3.5. Produce, through analysis and diagnosis, implementable solutions</p> <p>--</p> <p>7. Project management</p> <p>--</p> <p>7.1. Analyse a project within its environment and define the expected outcomes</p> <p>--</p> <p>7.2. Organize, manage and control the process</p> <p>--</p> <p>7.3. Make decisions and take responsibility for them in an uncertain world</p> <p>At the end of this course, the student will be able to :</p> <p>--</p> <p>Model operations management decisions</p> <p>--</p> <p>Understand the influence of variability and uncertainty for operations management</p> <p>--</p> <p>Analyze and solve real life operations management problems</p> <p>--</p> <p>Model congestion for operations and supply chain management</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 :	Homeworks Case study Written exam (open book)

Teaching methods :	Lectures Exercices Problem based learning Company visit Real life case study in a company
Content :	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
Faculty or entity in charge:	CLSM

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Business Engineering	INGM2M	5	-	
Master [120] in Business Engineering	INGE2M	5	-	