UCL Université catholique de Louvain

MQANT2215
2012-2013

Méthodes quantitatives en gestion de projet

5.0 credits	30.0 h	2q

Teacher(s) :	Riane Fouad ;
Language :	Français
Place of the course	Mons
Prerequisites :	MGEST2110 ' Project Management
Main themes :	Resource-constrained Project Scheduling Problem (RCPSP): ' Via mathematical programming; ' Via constraint programming and different paradigms; ' Via traditional metaheuristics. Performing risk analysis in projects by factoring in uncertainties in execution time and budgeting: ' Via simulation; ' Via the scenario method.
Aims :	On completion of this course, students will have mastered specialised tools and methods used in project planning and management. More specifically: ' Students will be able to approach complex project scheduling using specific tools; ' Students will be able to capture, analyse and quantify the risks that may be encountered in the management and implementation of projects. These two objectives will be investigated using different approaches. *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".*
Evaluation methods :	' Oral examination ' Projects
Teaching methods :	' Lectures ' Case study project (group work) ' Reading and analysis of scientific articles
Bibliography :	-- GIARD V. (2004), Gestion de Projet, Economica -- DEMEULEMEESTER E.L., HERROELEN W. S. (2002), Project Scheduling:A research handbook, Springer -- TEGHEM J. (2003), Programmation Linéaire, Université de Bruxelles -- KRZYSZTOF R. (2003), Principles of Constraint Programming, Cambridge University Press -- BLUM C., AGUILERA M. J. B., ROLI A., SAMPELS M. (2008), Hybrid Metaheuristics, Springer -- THIRIEZ H. (2004), La Modélisation du Risque :Simulations de Monte-Carlo, Economica
Cycle and year of study :	> Master 120 of arts in Business engineering > Master [120] in Business Engineering
Faculty or entity in charge:	BLSM