UCL Université catholique de Louvain

LLSMF2019

2015-2016

Quantitative project (in English)

10.0 credits	60.0 h	1q

Teacher(s) :	Papavasiliou Anthony (compensates Van Vyve Mathieu) ; Chevalier Philippe ; Van Vyve Mathieu ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Main themes :	The scope is the realization of a project, devoted to the development of a prototype decision support system, based on a quantitative modelling approach applied on a real case study. The volume of the activity (10 credits) allows the students to treat several managerial dimensions of the business case studied.
Aims :	At the end of the class, students should be able to tackle a quantitative management problem: - to model it , - to identify adequate operations research tools (models and methods) to be used in order to obtain an adequate solution (trade-off between solution time and solution quality) , - to implement the solution approach identified, and - to validate the approach and results obtained. The objective is also to integrate some knowledge acquired in - the bachelor program (disciplinary courses) - the master program in management (functional courses in management) - the project management course through a project based learning approach. *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".*
Content :	1. Several introductory lectures (beginning of the semester) : - project scope and definition, - study of related operations research models and methods, - project group organization: tasks, objectives, duedates, 2. Project realization 3. Project reporting and final group presentations Methods In-class activities 1 Lectures 1 Interactive seminar 1 Problem based learning 1 Project based learning At home activities 1 Readings to prepare the lecture 1 Paper work 1 Students presentation

Other infos :	Prerequisites (ideally in terms of competiencies) linear programming, operations research, mathematical modeling Evaluation : project reports and group presentation + individual exam Support : notes distributed at the beginning of the term References : Internationalisation 1 international case study Corporate features 1 case study 1 company visit Skills 1 presentation skills 1 writing skills 1 team work 1 problem solving 1 decision making 1 time management 1 project management 1 critical thinking Techniques and tools for teaching and learning 1 IT tools 1 modelling 1 simulation 1 quantitative methods 1 mathematics
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	INGE2M	10	-	