

10.0 credits	60.0 h	1q
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Teacher(s) :	Van Vyve Mathieu ; Chevalier Philippe ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Main themes :	<p>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.</p> <p>The volume of the activity (10 credits) allows the students to treat several managerial dimensions of the business case studied.</p>
Aims :	<p>At the end of the class, students should be able to tackle a quantitative management problem:</p> <ul style="list-style-type: none"> - 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. <p>The objective is also to integrate some knowledge acquired in</p> <ul style="list-style-type: none"> - the bachelor program (disciplinary courses) - the master program in management (functional courses in management) - the project management course <p>through a project based learning approach.</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>
Content :	<p>1. Several introductory lectures (beginning of the semester) :</p> <ul style="list-style-type: none"> - project scope and definition, - study of related operations research models and methods, - project group organization: tasks, objectives, due dates, <p>2. Project realization</p> <p>3. Project reporting and final group presentations</p> <p>Methods</p> <p>In-class activities</p> <ul style="list-style-type: none"> 1 Lectures 1 Interactive seminar 1 Problem based learning 1 Project based learning <p>At home activities</p> <ul style="list-style-type: none"> 1 Readings to prepare the lecture 1 Paper work 1 Students presentation

<p>Other infos :</p>	<p>Prerequisites (ideally in terms of competencies) linear programming, operations research, mathematical modeling</p> <p>Evaluation : project reports and group presentation + individual exam</p> <p>Support : notes distributed at the beginning of the term</p> <p>References :</p> <p>Internationalisation 1 international case study</p> <p>Corporate features 1 case study 1 company visit</p> <p>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</p> <p>Techniques and tools for teaching and learning 1 IT tools 1 modelling 1 simulation 1 quantitative methods 1 mathematics</p>
<p>Cycle and year of study :</p>	<p>> Master of arts in Business engineering</p>
<p>Faculty or entity in charge:</p>	<p>CLSM</p>