

5.0 credits	30.0 h	2q
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Teacher(s) :	Bréchet Thierry ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	This course presents several quantitative techniques used in the analysis and management of environmental problems, both at the firm's level (microeconomic approach) and at the regional or country level (macroeconomic approach). The focus is on mathematical modeling tools with a strong emphasis on economic analysis. The course provides the theoretical background as well as empirical case studies.
Aims :	The objective of this course is to have a good knowledge of the quantitative methods for the management of environmental issues, in particular applied modeling. <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>
Content :	The following tools are considered : the role of modeling in decision-making, typology of the different tools in support of decision-making, linear programming models, computable general equilibrium models, partial equilibrium models, multi-criteria analysis, life-cycle analysis, material flow analysis. The theoretical background is given to the students ; they present a case study published in the literature. Content The case for innovation Innovation concepts Case studies Innovation financing Innovation management processes
Other infos :	Prerequisites (ideally in terms of competencies) Evaluation : Class participation and oral examination, in French or English Support : Slides provided through icampus References : Provided during the class
Cycle and year of study :	> Master [120] in Business engineering > Master [120] in Business Engineering
Faculty or entity in charge:	CLSM