

Master Économie

Outils quantitatifs de l'analyse économique

Responsable	Descriptions	Informations
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	Nature :	Nombre de crédits :
	Domaines : Droit, Économie, Gestion	

LANGUE(S) D'ENSEIGNEMENT

Anglais

CONTENU

The objective is to introduce various tools used to build economic analysis, and decision-making. Two main approaches are introduced: Cost-Benefit Analysis and simulation models. The main principles of each method will be discussed, following the objective that students will be able to implement them in their job.

Course outline:

Part I: Cost-Benefit Analysis

- Chapter 1: Introducing CBA
 - Chapter 2: Valuing benefits and costs in primary markets
 - Chapter 3: Valuing secondary markets
 - Chapter 4: Benefits and costs in future time periods
 - Chapter 5: Dealing with uncertainty, expected values, sensitivity analysis, and the value of information
 - Chapter 6: Shadow prices from secondary sources
- Part II: On the energy scenarios: How to produce them? To use them? What are their limits?

- Chapter 1: Introduction on prospective and scenarios methods
- Chapter 2: The energy transition in France

COMPÉTENCES À ACQUÉRIR

At the end of the course, the student will be able to:

- understand the different stage of a Cost-Benefit Analysis,
- and implement a Cost-Benefit Analysis,
- Adapt a Cost-Benefit Analysis to the specific context of the project or policy considered,
- Discuss results,
- Build scenarios,
- Discuss advantages and drawbacks of the two approaches.

MODALITÉS D'ORGANISATION

The course is organized in 8 teaching slots, 20h devoted to cost-benefit analysis, and 4h devoted to scenarios. During these slots, main concepts are presented, and students have to solve practical problems.

BIBLIOGRAPHIE, LECTURES RECOMMANDÉES

- Cost-benefit analysis, A.E. Boardman, D.H. Greenberg, A.R. Vining and D.L. Weimer, Prentice Hall- Pearson, 2011.
- Pricing nature, N. Hanley and B. Barbier, Edward Elgar, 2009

PRÉ-REQUIS OBLIGATOIRES

Reference models in Microeconomics, industrial economics, public economics.

PRÉREQUIS RECOMMANDÉS

Environmental economics, health economics, numerical tools.

VOLUME HORAIRE

- Volume total: 24 heures
- Cours magistraux: 24 heures

CODES APOGÉE

- BECC10A [ELP]

M3C

Aucune donnée M3C trouvée

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