

5.0 credits	30.0 h + 10.0 h	2q
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Teacher(s) :	Dehez Pierre (compensates Davila Muro Julio) ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	The first part of the course provides the basis of decision theory and game theory. The second part is devoted to the economy of uncertainty. The third part is devoted to the Information Economy
Aims :	<p>This course is designed for students of the orientation of the economy Bac ECGE (BAC3) who want to deepen the analysis of economic problems associated with uncertainty and information based on the tools of decision theory and games.</p> <p>The themes of uncertainty and information are vast. We chose to address the most important during the first ten weeks. We suggest a range of topics of interest for weeks: each year, specific topics will be treated according to the needs and tastes of students attending the course. An initial list of topics of interest is suggested.</p> <p>At the end of the course, students will master the theory of games used in the uncertain economy and information and be able to apply to economic problems in concrete they are relevant as tools for analysis and decision support.</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>Introduction</p> <p>Part I: Theory of individual decision and risk facing the games incomplete information</p> <ol style="list-style-type: none"> 1. The theory of expected value of utility 2. Games strategic balance and normal Nash 3. Games strategic semi-normal balance bayesien <p>Part II: Economics of uncertainty and applications</p> <ol style="list-style-type: none"> 1. Measures of risk and risk aversion 2. Theory of insurance 3. Portfolio Theory <p>Part III: Economics of Information and applications</p> <ol style="list-style-type: none"> 1. Introduction to the theory of contracts 2. Problems of information theory auctions 3. Problems of information theory of insurance
Other infos :	<p>Rating: a written examination at the end of the semester</p> <p>Support :</p> <p>According to the chosen themes of the chapters will be borrowed from the following books:</p> <p>BINMORE, K. , Jeux et théorie des jeux , De Boeck Université, 1999</p> <p>ECKHOUDT, L. et C. GOLLIER, Les risques financiers : évaluation, gestion, partage, Ediscience international, 1992.</p> <p>HENRIET, D. et Jean-Charles ROCHET, Microéconomie de l'assurance , Economica 1991</p> <p>LAFFONT, J.J., Économie de l'incertain et de l'information, Economica, 1985. 210 p.</p> <p>SALANIE, B. (1994), Théorie des contrats, Economica. 141 p.</p> <p>VARIAN, H.R., Analyse microéconomique, De Boeck Université, 1995.</p>
Cycle and year of study :	<p>> Master [120] in Agricultural Bioengineering</p> <p>> Master [120] in Environmental Bioengineering</p> <p>> Master [120] in Forests and Natural Areas Engineering</p> <p>> Master [120] in Chemistry and Bio-industries</p> <p>> Bachelor in Information and Communication</p> <p>> Bachelor in Philosophy</p> <p>> Bachelor in Pharmacy</p> <p>> Bachelor in Computer Science</p> <p>> Bachelor in Motor skills : General</p> <p>> Bachelor in Human and Social Sciences</p> <p>> Bachelor in Sociology and Anthropology</p> <p>> Bachelor in Political Sciences: General</p> <p>> Bachelor in Mathematics</p> <p>> Bachelor in Biomedicine</p> <p>> Bachelor in Engineering</p> <p>> Bachelor in religious studies</p> <p>> Bachelor in Economics and Management</p> <p>> Preparatory year for Master in Economics: General</p>

Faculty or entity in charge:	ESPO
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