




3 credits

22.5 h

Q2

Teacher(s)	Defourny Pierre ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	BIRE Master program. <i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	1 <sup>st</sup> part : Multidisciplinary environmental diagnosis. Definition and properties of environmental indices. Strengths and weaknesses of environmental index boards. Practical know-how on environmental indices. 2 <sup>nd</sup> part : Global change. Analysis of political and scientific dimensions. The Millennium Ecosystem Assessment.
Aims	<p>a. <u>Contribution of the activity to the Learning Outcome referential</u></p> <p>2.1-2.5 environmental indices and index boards 3.2-3.4, 3.6-3.8 connecting real situations with rigorous and relevant indices. 4.1-4.2 identifying typical situations where each index is appropriate. 4.4-4.7 index boards related to a complex, real situation 6.1-6.2 &amp; 6.4-6.7 student talks, written reports 7.1 &amp; 7.5 political dimensions, bargaining</p> <p>b. <u>Specific Formulation for this activity</u></p> <p>At the end of the course, students will be able :</p> <ul style="list-style-type: none"> <li>- to approach environmental problems in multi-scale and multidisciplinary dimensions.</li> <li>- to design, analyze and negotiate an environmental diagnosis of systems comprising social, economic and political aspects.</li> <li>- to grasp fully the notions of index and index board, and the choice- and sense-making of the actual environmental descriptions, for the present and for the future, at local, regional and global scales.</li> </ul> <p>-----</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>
Evaluation methods	Written reports and student talks.
Teaching methods	Teachers talks, coordinated group works, student talk, written reports.
Content	Conceptual and methodological aspects of multidisciplinary environmental diagnosis, definitions and properties of environmental indices. Strengths and weaknesses of environmental index boards, through operational examples. Individual and critical analysis of examples. Interdisciplinary role-playing on the design of environmental indices and the bargaining dynamics around them. Analysis of global change, ecosystem services at the global scale. Individual report on a specific theme.
Inline resources	Moodle
Other infos	This course can be given in English.
Faculty or entity in charge	AGRO

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Forests and Natural Areas Engineering	BIRF2M	3	LBIRE2102	
Master [120] in Agricultural Bioengineering	BIRA2M	3		
Master [120] in Environmental Bioengineering	BIRE2M	3		
Advanced Master in Environmental Sciences and Management in Developing Countries	SGED2MC	3		