EPFL

ENV-610   **Ecological economics**

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Cursus	Sem.	Type
Civil & Environmental Engineering		Opt.

Language of teaching	English
Credits	2
Session	
Exam	Written
Workload	60h
Hours	**29**
Courses	24
Exercises	3
TP	2
Number of positions	**15**

Frequency

Every 2 years

Remark

Minimum 5 participants, Thursday 13h30 16h15, March 10 May 19.

Summary

This course is an introduction to economic theory applied to environmental issues. It presents the methods used to assess environmental impacts and natural resources as well as environmental regulation instruments, in particular in the context of climate policy.

Content

Introduction to economics: supply, demand, markets and prices, decision making, policy making
Embedding economic activity into the ecological context
Environmental goods and environmental policy
Economic decision making, in particular cost-benefit analysis
Assessment of economic impacts and valuation of natural resources
Environmental regulation: instruments

Keywords

Economic analysis, environmental protection, climate policy, externalities, environmental regulation, cost-benefit analysis, ecological economics

Learning Prerequisites

Required courses

Introductory economics is useful but not required

Learning Outcomes

By the end of the course, the student must be able to:

• To explain how a benevolent social planner would set environmental protection goals, how environmental protection goals are set by real authorities, how these goals could be implemented in the most efficient manner and how they are implemented in the real world.

Resources

Bibliography
Tietenberg, T. H. and L. Lewis (2018). Environmental and Natural Resource Economics, 11th Edition.
Routledge
Supporting material (slides, short readings) will be provided on the Moodle page of the course

Ressources en bibliothèque

- Environmental and Natural Resource Economics / Tietenberg (ebook)
- Environmental and natural resource economics / Tietenberg (printed)