ENV-620

Environmental Economics for Engineers (2018)
Thalmann Philippe, Vielle Marc, Vöhringer Frank

Cursus | Sem. | Type
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Génie civil & environnement | | Obl.

<table>
<thead>
<tr>
<th>Language</th>
<th>English</th>
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<tbody>
<tr>
<td>Credits</td>
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<tr>
<td>Session Exam</td>
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<td>Workload</td>
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<td>Hours</td>
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<td>Lecture</td>
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<td>Exercises</td>
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<td>Practical work</td>
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<td>Number of positions</td>
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Frequency
Every 2 years

Remarque
Next time: Every two years / Next time spring 2020. Min 5 participants

Summary
Economic analysis (supply, demand, prices, elasticities), applied to environmental issues: externalities, instruments of environmental regulation (voluntary approaches, incentive taxes, emissions markets), assessment of economic impacts and valuation of natural resources, cost-benefit analysis.

Content
Introduction to economics: supply, demand, markets and prices (3 periods, PT)
Environmental goods and environmental policy (6 p, MV)
Emissions trading (3 p, FV)
Economic decision making, in particular cost-benefit analysis (3 p, PT)
Assessment of economic impacts and valuation of natural resources (6 p, PT)
Decisions under uncertainty, economics of innovation (3 p, FV)
Environmental policy-making (3 p, PT)

Note
It will be organised in half-days on Thursday mornings during the spring semester.
It will only be given for a minimum of 5 students.

Keywords
Environmental economics, environmental policy, cost-benefit analysis

Learning Outcomes
By the end of the course, the student must be able to:
• to understand the basic mechanisms of markets
• to explain the differences between the main types of instruments of environmental policy
• to explain the workings of these instruments

Resources
Bibliography
Bontems, P. and G. Rotillon (2013). L'Economie de l'Environnement, La Découverte

Ressources en bibliothèque
- Bontems and Rotillon (2013). L'Economie de l'Environnement

Websites
- http://leure.epfl.ch/education