MASTER BDEEM | COURSE SYLLABUS

Environmental Economics

Applying economic theory to environmental regulation

PROGRAMME	SEMESTER	CREDITS	CONTACT HOURS
Master 2	Semester 1	2 ECTS	18h Lectures

Course Description

This is a course about environmental economics, theory, and practice. After a brief survey of the various forms of market failure, the course explores the rationale for public intervention in environmental regulation.

A wide spectrum of policy instruments will be developed in class showing the costs and benefits of environmental regulation. The course covers market-based instruments and informational tools to deal with various pollution topics, with a special focus on air and water pollution regulation, the costs of climate change, and sustainable development. Topics are consistently illustrated with examples from real-world environmental issues.

This course is shared with Master 2 QAE

Learning Outcomes

- Use key economic concepts in environmental economics and the economic issues related to a large range of environmental problems.
- Apply economic theory to model decisions that have impacts on the environment or resources.
- Use expertise in economics to analyze environmental issues from an efficiency standpoint.
- Explore the welfare effects of different environmental regulation policy instruments.
- Formulate the choices facing polluters and assess regulatory difficulties, emphasizing uncertainty and asymmetric information.

Indicative Content

1. **Market Failures**: Surveying the various forms of market failure in environmental contexts.
2. **Public Intervention**: The rationale and mechanisms for public intervention and environmental regulation.
3. **Policy Instruments**: Analyzing the costs and benefits of wide-ranging regulatory tools.
4. **Pollution and Climate Change**: Addressing air/water pollution, climate change costs, and sustainable development.
5. **Uncertainty and Asymmetry**: Regulating decisions under conditions of uncertainty and asymmetric information.

Teaching & Learning Approach

This course bridges theoretical frameworks with practical applications, making use of microeconomics and game theory principles at the intermediate level. Instruction incorporates real-world case studies to illustrate complex environmental challenges and evaluate policy solutions.

Assessment

Group Essays & Presentations