

## Tárgytematika / Course Description

### Environmental Economics

**KGNB\_NETA004**

**Tárgyfelelős neve /**

**Teacher's name:** dr. Hardi Tamás

**Félév / Semester:** 2022/23/2

**Beszámolási forma /**

**Assesment:** Vizsga

**Tárgy heti óraszám /**

**Teaching hours(week):** 2/0/0

**Tárgy féléves óraszám /**

**Teaching hours(sem.):** 0/0/0

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### OKTATÁS CÉLJA / AIM OF THE COURSE

The main aim of the course is that students get to know the environmental effects of the economic activity, they understand and perceive the concept and theory of sustainable development. Students will also get familiarized with the most important global and local environmental problems, the social-economic causes and the possible treatments and solutions. During the course, the targets and instruments of pollution control will also be highlighted, analyzing the optimal level of pollution. Regarding the natural resources, students will deal with the efficient and optimal use of natural resources, renewable and non-renewable resources. They will also get to know and evaluate the national and European-level treatments of the environmental problems and challenges. Further objective of the course is, that students are able to process and present a single environmental global challenge.

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### TANTÁRGY TARTALMA / DESCRIPTION

During the course, the following topics will be discussed:

- Essentials of the environmental protection, global and local environmental challenges, international environmental problems
- Introduction to the principles of environmental economics (basic concepts, theories and definitions)
- Understanding sustainable development, SDG and measuring the sustainable development (alternative index numbers and concepts), the origins of the sustainability problem
- Welfare economics and the environment (efficiency and optimality)

- Environmental pollution and externalities, pollution control: targets and instruments (the efficient level of pollution)
- Valuing the environment (environmental benefits and valuation), methods and problems
- Efficient and optimal use of natural resources (renewable and non-renewable energy sources)
- Environmental politics and environmental strategies: treatment and solution on local, national and European level

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## **SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESMENT'S METHOD**

The course will end with a written exam (100 points).

During the school year, students are able to gain plus points by fulfilling different tasks on the lectures (presence at the lecture, exercises on the lectures and extra credit projects). Plus points can either allow a final mark (without exam) or extra points during the written final exam.

Scores and grading:

0-49: insufficient (1)

50-62: sufficient (2)

63-75: fair (3)

76-88: good (4)

89-100: excellent (5)

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## **KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL**

Literature:

· Online material of the lectures.

R. Perman, Yue Ma, M. Common, D. Maddison, McGilvray (2011): *Natural Resource and Environmental Economics*, 4th edition, Pearson Education Limited. [https://www.academia.edu/44727931/Natural\\_Resource\\_and\\_Environmental\\_Economics](https://www.academia.edu/44727931/Natural_Resource_and_Environmental_Economics)

Daniel B. Botkin\_ Edward A. Keller - Environmental Science\_ Earth as a Living Planet\_ 8th Edition -Wiley (2010)

Linda R. Berg\_ David M. Hassenzahl\_ Mary Catherine Hager - Visualizing Environmental Science-Wiley (2013)

Recommended literature:

Environmental Literacy Council (2007): Environmental Economics (Volume 1: The Essentials).