SUBJECT DATASHEET

ENVIRONMENTAL MANAGEMENT SYSTEMS

BMEGT42M528

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
ENVIRONMENTAL MANAGEMENT SYSTEMS

ID (subject code)	BMEGT42M528

Type of subject

Course types and lessons

Type	*Lessons*
Lecture	2
Practice	2
Laboratory	0

Type of assessment

Number of credits
5

Subject Coordinator

Name	*Position*	*Contact details*
Dr. Zilahy Gyula	professor	zilahy.gyula@gtk.bme.hu

Educational organisational unit for the subject
Department of Environmental Economics and Sustainability

Subject website
https://edu.gtk.bme.hu

Language of the subject
magyar - HU; angol - ENG

Curricular role of the subject, recommended number of terms
Programme: **Regional and Environmental Economic Studies part-time programme, autumn start**
Subject Role: **Compulsory**
Recommended semester: **3**

Programme: **Regional and Environmental Economic Studies part-time programme, spring start**
Subject Role: **Compulsory**
Recommended semester: **4**

Direct prerequisites

Strong	None
Weak	None
Parallel	None
Exclusion	None

Validity of the Subject Description
Master in Regional and Environmental Economics, part-time

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The course aims at providing knowledge regarding the most important issues relating to contemporary corporate environmental management, factors influencing corporate behaviour and the tools available to enterprises. Students will be able to understand the role of environmental protection in corporate operations and corporate management systems and to evaluate the environmental performance of a company, to choose the appropriate environmental management tools.

Academic results

Knowledge

1. Understand the most important aspects determining corporate environmetal strategy; the different types of strategies
2. Understand the importance of environmental risks and their implications to company management
3. Understand the most important environmental approaches (methods) used by the corporate sector, their benefits and drawbacks
4. IUnderstand and employ the different tools of environmental management (environmental marketing, environmental performance evaluation, etc.)
5. Understand the principles of environmental management systems, their underlying mechanisms and building blocks
6. Understand the market mechanisms defining the use of environmental management systems, the role of stakeholders
7. Understand the notion of business modeling and the environmental and social implications of innovative business models

Skills

1. Prepare a complex evaluation of an organisation's environmental performance
2. Recognise the basic features of corporate environmental strategies, the aspects determining strategy choice
3. Able to identify corporate stakeholders and the most important tasks relating to them
4. Able to use the triple layer business model canvas for the case of an innovative corporation

Attitude

1. Open to a deeper understanding of corporate behaviour, its environmental aspects
2. Strives to approach and solve problems by cooperation
3. Able to take a critical perspective of the role of social groups effected by the environmental and social impacts of corporations
4. Strive to understand complex systems

Independence and responsibility

1. Able to survey corporate environmental performance independently
2. Shows a responsible approach regarding environmental and social issues within companies
3. Accept critique with an open mind
4. Cooperate with fellow students during problem solution if needed

Teaching methodology

Lectures and practicals. Team work during classes and outside of classes. The use of infocommunication tools, company and other materials.

Materials supporting learning

- Szerk: Kósi Kálmán - Valkó László: Környezetmenedzsment. (Tankönyv; BME - Typotex Kiadó, Budapest, 2008.). ISBN 963-9664-07-3
- Csutora Mária – Kerekes Sándor: A környezetbarát vállalatirányítás eszközei (KJK-KERSZÖV Jogi és Üzleti Kiadó Kft., Budapest, 2004. ISBN 963 224 742 6)
- S. Schaltegger, R. Burritt, H. Petersen : An Introduction to Corporate Environmental Management, Striving for Sustainability, Routledge, ISBN 978-1874719656

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The evaluation of learning outcomes defined under section 2.2 will be based on two tests during the semester and an assignment to be prepared in teams. Final grades are recommended based on the results of these tests and assignments. If a final pass grade can not be awarded, then a final exam will be offered.

Performance assessment methods

A. Student evaluation during the semester 1. complex assessment of knowledge and skills through written tests. The test aims at the evaluation of knowledge gained during the course, as well as the students skill to implement it in practice. Course material to be defined by the professor, time available: maximum 60 minutes 2. complex assessment of knowledge, skills, attitude, self-reliance and responsibility of students through an assignment to be prepared in teams. The content, requirements and deadline of the assignment to be defined by the professor. B: complex assessment of knowledge and skills gained through a written examination. The examination aims at the evaluation of knowledge gained during the course such as the understanding of underlying notions, as well as the understanding
and solving of problems

Percentage of performance assessments, conducted during the study period, within the rating

- **1. összegző tanulmányi teljesítményértékelés**: 30%
- **2. összegző tanulmányi teljesítményértékelés**: 30%
- **1. részteljesítmény értékelés (projektfeladat)**: 40%
- **összesen**: 100%

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

Issuing grades

Excellent	90–100
Very good	80–89
Good	70–79
Satisfactory	60–69
Pass	50–59
Fail	0–49

Retake and late completion

1) tests to be written during the semester can be retaken at the end of the term without a fee. Later results always override previous ones. 2) in case of failing the retake there is a second retake offered to the student at a defined fee 3) if none of the retake tests are successful, an exam should be taken during the examination period

Coursework required for the completion of the subject

contact classes	56
preparation for classes during the term	14
preparation for written test	15
preparation of assingment	35
preparation for examination	30
total	150

Approval and validity of subject requirements

Next revision in September 2021.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

1 1. Environmental responsibilities of organisations (companies, institutions, households)

2 2. The tasks of company management in environmental protection (legal environment and self-regulation). The tools and techniques of environmental protection

3 3. Environmental risks and strategy

4 4. Evaluation of corporate environmental performance

5 5. The objectives, principles and structure of environmental management systems

6 6. Environmental foundations of organisational decisions - The role of environmental aspects and impacts, their significance in corporate decision making. Tools available to the evaluation of corporate environmental performance. Practical assignment based on a case study

7 7. The role of environmental auditing and performance evaluation in company management. The content of environmental assessment, its role in Hungarian practice and its impact on company operations. The use of SWOT analysis in corporate environmental protection. Practical assignment based on a case study.

8 8. The implementation of an environmental management system in the European Union. The EMAS regulation and its requirements. Standardising environmental activities. The ISO14000 family of standards

9 9. Environmental policy and planning in environmental management systems.

10 10. Environmental communication and training: requirements and practice. Types and content of environmental reports. Environmental reports as management tools. Evaluation of practical examples.

11 11. Environmental marketing; eco-labeling systems

12 12. Environmental conflicts and their resolution

13 13. The environmental and social aspects of sustainable business models

14 14. Corporate aspects of sustainable consumption

Additional lecturers

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Approval and validity of subject requirements