



SUBJECT DATASHEET

Environmental Management Systems

BMEGT42M108

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name

Environmental Management Systems

ID (subject code)

BMEGT42M108

Type of subject

contact unit

Course types and lessons

<i>Type</i>	<i>Lessons</i>
Lecture	4
Practice	0
Laboratory	0

Type of assessment

exam grade

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: **Master of Regional and Environmental Economic Studies**

Subject Role: **Compulsory**

Recommended semester: **3**

Programme: **Master of Science Program in Regional and Environmental Economic Studies**

Subject Role: **Compulsory**

Recommended semester: **3**

Direct prerequisites

Strong Regionális gazdaságtan / Regional economics

Weak None

Parallel None

Exclusion None

Validity of the Subject Description

Approved by the Faculty Board of Faculty of Economic and Social Sciences, Decree No: 580884/8/2023 registration number. Valid from: 29.11.2023.

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 environmental 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. understand 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. Is able to prepare a complex evaluation of an organisation's environmental performance,
2. recognises the basic features of corporate environmental strategies, the aspects determining strategy choice,
3. is able to identify corporate stakeholders and the most important tasks related to them,
4. is able to use the triple layer business model canvas for the case of an innovative corporation.

Attitude

1. Is open to a deeper understanding of corporate behaviour, its environmental aspects,
2. strives to approach and solve problems by cooperation,
3. is able to take a critical perspective of the role of social groups effected by the environmental and social impacts of corporations,
4. strives to understand complex systems.

Independence and responsibility

1. Is able to survey corporate environmental performance independently,
2. shows a responsible approach regarding environmental and social issues within companies,
3. accepts critique with an open mind,
4. cooperates 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 the learning outcomes stated in point 2.2. is carried out during the study period based on two summative assessments (mid-term exams) and one formative assessment (a project task to be prepared as part of group work). Based on these, a signature will be received and a proposed grade can be obtained.

Performance assessment methods

A. Detailed description of the performance evaluation during the study period: 1. Summative assessment: a complex, written evaluation of the knowledge and ability-type competence elements of the subject in the form of a mid-term exam. The mid-term exam focuses on the assessment of the acquired knowledge and its application, so in addition to the precise knowledge of the concepts, it focuses on problem recognition and solutions. The course material on which the evaluation is based on is determined by the lecturer of the subject, the available working time is 60 minutes. 2. Formative assessment (group assignment): a complex evaluation method for the subject's knowledge, ability, attitude, and independence and responsibility competency elements, which takes the form of a group project assignment, the content, requirements, submission deadline, and evaluation method of which are determined by the instructor. B. Detailed description of the performance evaluation during the exam period: A complex, written evaluation of the knowledge and ability-type competence elements of the subject in the form of a written exam. The exam focuses on the assessment of the acquired knowledge and its application, so in addition to the precise knowledge of the concepts, it focuses on problem recognition and solutions.

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

- 1st summative assessment: 30
- 2nd summative assessment: 30
- formative assessment (group assignment): 40
- total: 100

Percentage of exam elements within the rating

- Written exam: 100

Conditions for obtaining a signature, validity of the signature

The condition for obtaining a signature is the submission of the group assignment and an attempt to complete at least one summative assessment (or its retake). The signature is valid according to the provisions of the CoS.

Issuing grades

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

Retake and late completion

1) Pursuant to the current CoS, each summative assessment can be retaken, repeated or completed late. 2) The summative assessments can be retaken, repeated or completed late for the first time during the late completion period free of charge. In the event of a correction, the new result always overwrites the old one. 3) If the student is unable to obtain a grade other than 'Fail' even with the retake, repeat and late completion possibilities according to point 1), they may make a second attempt to successfully complete the course after paying the fee specified in the regulations. 4) If the student did not obtain the proposed grade during the study period, they have to take the exam during the exam period. 5) Pursuant to the current CoS, in the case of formative assessments, if the assignment was submitted on time, it is possible to repeat or retake it before the end of the late completion period, if the original task has already been accepted by the instructor. 5) Formative assessments can be submitted late, subject to payment of the special procedure fee specified in the regulations. The latest date for late submission is the last day of the late completion period.

Coursework required for the completion of the subject

contact classes	56
preparation for classes during the term	14
preparation for summative assessments	15
preparation of assignment	35
preparation for exam	30
total	150

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 06.11.2023.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

In order to achieve the learning outcomes set out at point 2.2, the subject consists of the following thematic blocks. In the syllabi of the courses announced in each semester, these topics are scheduled according to the calendar and other conditions.

- 1 Environmental responsibilities of organisations (companies, institutions, households)
- 2 The tasks of company management in environmental protection (legal environment and self-regulation). The tools and techniques of environmental protection
- 3 Environmental risks and strategy
- 4 Evaluation of corporate environmental performance
- 5 The objectives, principles and structure of environmental management systems
- 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 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 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 Environmental policy and planning in environmental management systems
- 10 Environmental communication and training: requirements and practice. Types and content of environmental reports. Environmental reports as management tools. Evaluation of practical examples
- 11 Environmental marketing; eco-labeling systems
- 12 Environmental conflicts and their resolution
- 13 The environmental and social aspects of sustainable business models
- 14 Corporate aspects of sustainable consumption

Additional lecturers

Dr. Kósi Kálmán címzetes egyetemi tanár

kosi.kalman@gtk.bme.hu

Mazhar Waqas PhD hallgató, tudományos segédmunkatárs mazhar.waqas@gtk.bme.hu

Approval and validity of subject requirements