SUBJECT DATASHEET

Environmental Management Systems

BMEGT42M528

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
Environmental Management Systems

ID (subject code)	BMEGT42M528

Type of subject
contact unit

Course types and lessons

Type	*Lessons*
Lecture	2
Practice	0
Laboratory	0

Type of assessment
exam grade

Number of credits
5

Subject Coordinator

Name	*Position*	*Contact details*
Dr. Csuvár Ádám	senior lecturer	csuvar.adam@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

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	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: 580439/11/2024 registration number. Valid from: 29.05.2024.

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. Knows of global and corporate environmental problems and trends;
2. knows the different trends that can be incorporated into the environmental management of companies, their advantages and disadvantages, their comparison with eachother;
3. is aware of the role of environmental performance assessment, knows the features of ISO14001 and EMAS regulation;
4. In addition, is aware of the corporate benefits of eco-marketing and social responsibility.
5. In addition to corporate environmental problems and solutions, the student also knows the basics of sustainable business models and sustainable consumption that have been appearing more and more recently.
6. The student understands the most important aspects determining corporate environmental strategy; the different types of strategies.
7. Understands the importance of environmental risks and their implications to company management.
8. Understands the most important environmental approaches (methods) used by the corporate sector, their benefits, and drawbacks.
9. Understands and employs the different tools of environmental management (environmental marketing, environmental performance evaluation, etc.).
10. Understands the principles of environmental management systems, their underlying mechanisms and building blocks, and furthermore, can apply this knowledge in practice.
11. Understands the market mechanisms defining the use of environmental management systems, the role of stakeholders.

Skills

1. The student is able to recognize and analyze connections in issues related to corporate environmental management.
2. They are able to critically interpret information related to corporate environmental management.
3. They are able to recognize, understand and answer questions related to corporate environmental management.
4. They are able to acquire a kind of holistic approach and to map multidisciplinary relationships, to justify points related to other sciences.
5. They are able to evaluate a company's environmental performance in a complex way, processing specific case studies in independent work.
6. Recognizes the basic characteristics of the corporate environmental strategy and the factors determining the choice of strategy.
7. They are able to identify the stakeholders of companies and the most important tasks related to them
8. As well as being able to interpret the above in a comprehensible manner in front of non-professional and professional audiences.

Attitude

1. Collaborates with the instructor and fellow students in expanding the knowledge,
2. Expands his knowledge by constantly acquiring knowledge,
3. Open to the use of information technology tools,
4. Strives to understand the impact of the economy on the environment and human well-being, to assess the injustices arising from the inequalities in the distribution of resources, and to assess the factors necessary for its resolution.
5. The student is open to a deeper understanding of corporate behaviour, its environmental aspects.
6. Strives to approach and solve problems by cooperation.
7. Able to take a critical perspective of the role of social groups effected by the environmental and social impacts of corporations.
8. Strives to understand complex systems.
9. Accepts critique with an open mind.
10. Cooperates with fellow students during problem solution if needed.

Independence and responsibility

1. Independently solves problems related to environmental management,
2. Use a systems approach in your thinking.
3. Able to survey corporate environmental performance independently.
4. Shows a responsible approach regarding environmental and social issues within companies.

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
- További cikkek és ajánlott irodalom a diasorban

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The assessment of the learning outcomes stated in point 2.2. is carried out during the study period through two summative assessments (mid-term exams) and one formative assessment (project assignment). Based on these, the student receives a signature and can be given a proposed grade. Students who do not obtain proposed grade have to take a written exam during the exam period.

Performance assessment methods

A. Detailed description of performance evaluations 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 two mid-term exams. The mid-term exams focus on
the assessment of the acquired knowledge and its application, so in addition to the precise knowledge of concepts, they focus on problem
recognition and solutions. The course material on which the evaluation is based is determined by the lecturer of the subject, the available
working time is 60 minutes. 2. Formative assessment (project task): a complex evaluation method for the subject's knowledge, ability, attitude, and independence and responsibility competence elements, which takes the form of an individual or group project task, the content, requirements, submission deadline and evaluation method of which is determined by the instructor and shared with students. B. Detailed description of the performance evaluation during the exam period: Written exam.

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

- **1st summative assessment**: 30
- **2nd summative assessment**: 30
- **Formative assessment (project task)**: 40
- **Total**: 100

Percentage of exam elements within the rating

- **Written exam (if the student does not accept the proposed grade, the result of the exam constitutes the final result)**: 100
- **total**: 100

Conditions for obtaining a signature, validity of the signature

The condition for obtaining the signature is the completion of both summative assessments with a score of at least 50%, as well as the submission of the project task. 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 retake, 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 recommended grade during the study period, they need to take the exam during the exam period. 5) Due to the nature of the formative assessment, retake/late submission is not available. 6) Retake, repeat and late completion of exams is possible according to paragraphs 121 and 123 of the CoS.

Coursework required for the completion of the subject

participation in contact classes	24
preparation for contact classes	12
preparation for summative assessmnets	44
preparation of the project task	40
autonomous learning	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: 06.05.2024.

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 protection duties of economic organizations (companies, institutions, households). The relationship between companies and state environmental regulation. Overview of the basic types of environmental control devices

2 Duties of management in environmental protection (legal environment and self-regulation). Tools and techniques of environmental management

3 Some environmental economic foundations of corporate environmental protection

4 Environmental risks and strategy – corporate perception and interpretation of environmental risks, as well as corporate strategies used to manage environmental risks. Environmental conflicts and their management options

5 Evaluation of corporate environmental performance. Measurement options and presentation through company examples

6 Objectives, principles and structure of environmental management systems

7 Environmental foundation of organizational decisions. The role and importance of environmental factors and effects in decisions. Methods of environmental impact assessment. Practical task based on the case study

8 The place and role of environmental audit and performance evaluation in the process of corporate regulation. The content and role of the environmental review in Hungarian environmental protection practice and its impact on management. The applicability of the SWOT analysis in environmental protection. Practical task based on the case study

9 Building an environmental management system in the practice of the European Union, content and requirements of the EMAS regulation. Standardization background. The ISO 14000 family of standards

10 Environmental policy and planning in environmental management systems

11 Environmental communication and education: requirements and practice. Types and content of environmental reports. The environmental report as a management tool. Analysis of practical examples. Environmental marketing; eco-label systems

12 Environmental accounting and finance - the interpretation of environmental costs, their treatment in return calculations and the pitfalls of return calculations

Additional lecturers

Dr. Kósi Kálmán György címzetes egyetemi tanár / honorary professor kosi.kalman@gtk.bme.hu

Approval and validity of subject requirements