



SUBJECT DATASHEET

Environmental Management

BMEGT42A013

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name

Environmental Management

ID (subject code)

BMEGT42A013

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

Curricular role of the subject, recommended number of terms

Programme: **BSc in Engineering Management**

Subject Role: **Compulsory**

Recommended semester: **7**

Direct prerequisites

Strong None

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

Upon successful completion of the course, participants will: • Understand the role of companies in achieving the goals of sustainable development. • Get to know the most important factors determining the company's sustainability strategy and will be able to map the sustainability strategy followed by a company and suggest which strategy to follow in a given industry and market conditions. • Get to know the most important environmental management tools available to companies, their advantages and disadvantages. • Get acquainted with the most important principles and tools of CSR (corporate social responsibility).

Academic results

Knowledge

1. The impact of companies on the environmental and social aspects of sustainable development,
2. Corporate environmental performance,
3. The concept of the company's environmental strategy, its determining factors and types,
4. The impact of environmental risks on the corporate strategy, its types, their grouping,
5. Corporate environmental management tools and their role in sustainable corporate governance,
6. The dilemma, principles and tools of environmental marketing,
7. Origins of environmental conflicts and their management,
8. Elements and application of corporate CSR.

Skills

1. Able to analyze the environmental and social impacts of business activities,
2. Can critically assess the environmental strategy of a company, the factors behind it,
3. Able to apply basic tools of environmental management,
4. Able to outline a corporate CSR strategy.

Attitude

1. Sensitive to social and environmental problems,
2. Open to a novel approach to traditional corporate activity,
3. It is critical of the market activity of economic operators,
4. Open to cooperation to achieve the goals of sustainable development.

Independence and responsibility

1. Perceives the responsibility of company leaders in environmental and social issues,
2. Recognizes opportunities and limitations that can improve both corporate economic performance and environmental and social performance,
3. Able and willing to explore corporate solutions that benefit both the individual and society.

Teaching methodology

Interactive lectures, case studies, teamwork, student presentations.

Materials supporting learning

- Szerk: Kósi Kálmán - Valkó László: Környezetmenedzsment. (Tankönyv; BME - Typotex Kiadó, Budapest, 2006.). ISBN 963-9664-07-3
- Csutora Mária – Kerekes Sándor: A környezetbarát vállalatirányítás eszközei. KJK Kerszöv, 2004.
- Moodle-re feltöltött cikkek / Literature uploaded to Moodle
- Órai előadások diásorai / Slideshows of the lectures
- Journal of Cleaner Production
- Sustainable Development
- Sustainability

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The learning outcomes stated in point 2.2 are evaluated on the basis of 2 summative assessments and a group presentation.

Performance assessment methods

Detailed description of performance evaluations during the study period: Two summative assessments (mid-term exams): a complex, written

assessment of the knowledge and ability-type competence elements of the subject in the form of two mid-term exams during the semester.

The mid-term exams consist of multiple-choice questions and a longer explanatory, problem-solving part. The time available to solve them is 30-50 minutes. Presentation: the student working groups formed at the beginning of the semester work on the analysis of the industry they have chosen according to the criteria and structure specified in advance (in general and through specific company examples).

They report on their work in the form of a small group presentation (15 minutes) at a schedule specified in advance by the instructor.

Performance

evaluation during the exam period Simple exam: the exam results are based on the full crediting of the results achieved in the assessments

done in the study period.

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

- 1st summative assessment: 40
- 2nd summative assessment: 40
- formative assessment (presentation): 20
- total: 100

Percentage of exam elements within the rating

- Exam: 100

Conditions for obtaining a signature, validity of the signature

The conditions for obtaining the signature are the completion of the mid-term exams - together - at a 'Pass' grade at least (50%) and the presentation.

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) The summative assessments can be individually retaken, repeated or completed late during the late completion period free of charge. In the event of a correction, the new result always overwrites the old one. 2) The presentation cannot be retaken, repeated or completed late. 3) If the student is unable to obtain a grade other than 'Fail' even with the replacement according to point 1), he/she may make a second attempt to successfully complete the summative assessments, in addition to paying the fee specified in the regulations. 4) The student can change the grade obtained by taking full credit of the mid-year results in the exam taken during the exam period.

Coursework required for the completion of the subject

participation in contact classes	56
preparation for contact classes	14
preparation for performance evaluation	20
preparation of the presentation	35
autonomous learning	10
exam preparation	15
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 Introduction to environmental management
- 2 Environmental trends and economic frameworks
- 3 Environmental risks
- 4 Trends in corporate environmental protection
- 5 Corporate environmental strategies
- 6 Environmental management systems
- 7 Environmental performance assessment and indicators
- 8 Environmental marketing
- 9 Corporate social responsibility
- 10 Environmental conflicts and their management
- 11 Environmental accounting and finance
- 12 Sustainable business models and sustainable consumption

Additional lecturers

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Approval and validity of subject requirements