



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: **Engineering Management Bachelor's Programme - Environmental Management module for students starting from 2015**

Subject Role: **Compulsory for the specialisation**

Recommended semester: **0**

Direct prerequisites

Strong None

Weak None

Parallel None

Exclusion None

Validity of the Subject Description

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

Assessment of the learning outcomes described under 2.2. is based on one written end-term test. The assessment includes the right solution of the non-mandatory home works.

Performance assessment methods

Detailed description of assessments during the term: 1. Summarizing academic performance evaluation (indoor dissertation): a complex, written evaluation of the subject and knowledge, ability-type competency elements during a semester from an indoor dissertation. The dissertation consists of a short conceptual and a longer explanatory, problem-solving part, the time available for their solution is approx. 45-60 minutes 2. Essay: a complex summary of the knowledge and ability type competence elements acquired during the course, which gives the student the number of the topics of the course through a practical (corporate) example during the semester approx. 20-25 pages. 3. Presentation: the student makes a visual presentation of the essay and summarizes it orally in 8 minutes. Performance evaluation during the examination period 1. Simple exam: the exam is based on the full crediting of the results achieved in the mid-year academic performance assessments.

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

- summary study performance evaluation: 50% (100 pont)
- partial performance evaluation (essay): 25% (50 pont)
- partial performance evaluation (presentation): 25% (50 pont)
- total: 100%

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

Issuing grades

Excellent	90-100
Very good	80-90
Good	70-80
Satisfactory	60-70
Pass	50-60
Fail	0-50

Retake and late completion

1) The summary academic performance assessments can be replaced or improved individually free of charge during the replacement period.

In the case of correction, the more favorable of the previous and the new result for the student is taken into account. 2) The homework (essay and presentation) - in addition to paying the fee specified in the regulations - can be sent late in electronic form by 12 noon on the last day of the replacement period. 3) The student may modify the grade obtained by fully taking into account the mid-year results in the exam taken during the examination period.

Coursework required for the completion of the subject

participation in contact classes	14x4=56
mid-year preparation for classes	14
preparation for performance evaluation	1x20=20
homework (essay and presentation)	35
independent acquisition of designated written curriculum	10
exam preparation	15
total	150

Approval and validity of subject requirements

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

Subject includes the topics detailed in the course syllabus to ensure learning outcomes listed under 2.2. can be achieved. Timing of the topics may be affected by calendar or other circumstances in each semester.

- 1 The aim, topics and requirements of the course. Basics of sustainable development and the corporate sphere, environmental management
- 2 Global and local environmental and social trends and their connection to corporate operations.
- 3 Environmental risks and environmental strategy. Principles of corporate environmental management
- 4 Environmental factors and impacts: their significance and assessment. Different approaches to environmental protection (end-of-pipe, preventive environmental protection and industrial ecology)
- 5 The place and role of environmental performance evaluation in the process of corporate regulation
- 6 Environmental management systems: ISO14001 - principles and practical implementation; environmental audit
- 7 Environmental management systems EMAS - principles and practical implementation; environmental audit
- 8 The concept and forms of corporate social responsibility (CSR)
- 9 Eco-marketing and corporate environmental communication; the content and purpose of corporate sustainability reports
- 10 Sustainable business models and the sustainability of business models
- 11 Economic, environmental and social impacts of the Sharing economy
- 12 Basics of sustainable consumption

Additional lecturers

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Approval and validity of subject requirements