



SUBJECT DATASHEET

Environmental Management

BMEGT42A403

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name

Environmental Management

ID (subject code)

BMEGT42A403

Type of subject

contact unit

Course types and lessons

<i>Type</i>	<i>Lessons</i>
Lecture	2
Practice	0
Laboratory	0

Type of assessment

exam grade

Number of credits

3

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/course/view.php?id=330>

Language of the subject

magyar - HU

Curricular role of the subject, recommended number of terms

Programme: **BSc in Environmental Engineering**

Subject Role: **Compulsory for the specialisation**

Recommended semester: **4**

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

The aim of the course is to familiarise students with those approaches to corporate environmental management and techniques, the use of which has become an important criteria of market success in both the European Union and in Hungary.

Academic results

Knowledge

1. Understands the most important environmental problems of our age,
2. understands the role of corporations in the creation and solution of environmental problems,
3. understands the determining factors of corporate environmental strategies,
4. understands the tools available to companies to tackle environmental issues,
5. understands the principles of EMS, its tools and methods of implementation.

Skills

1. Is able to understand the environmental and social aspects of company operations,
2. is able to assess the environmental strategy of corporations,
3. is able to analyse the environmental performance of companies',
4. is able to use environmental management tools.

Attitude

1. Open to novel information technology and business solutions,
2. sensitive to social and environmental issues,
3. collects information regarding novel solutions and is able to critically assess them,
4. strives to take environmental and social aspects into account when making decisions.

Independence and responsibility

1. Perceives the environmental and social responsibility of business leaders,
2. recognises those technological and organisational solutions, which provide economic, environmental and social benefits at the same time; is able to assess the limitations of different solutions,
3. is able to distinguish between private and social aspects and can harmonise them.

Teaching methodology

Theoretical lectures supported with practical exercises and case studies.

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, Budapest, 2004
- További szakmai anyagok, melyek a félév során kerülnek kiosztásra. / Further reading materials to be distributed during the term.

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The learning outcomes stated in point 2.2. are evaluated based on summative assessments (mid-term exams).

Performance assessment methods

A. Detailed description of performance evaluations during the study period: Summative assessment: a complex evaluation method of the competence elements of subject knowledge, ability, attitude, and independence and responsibility, which takes the form of two mid-term exams. Based on these, a proposed grade may be obtained. B. Detailed description of the performance evaluations carried out during the exam period: Complex, written evaluation of the subject and knowledge and ability-type competence elements in the form of a written exam.

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

- 1st summative assessment: 50
- 2nd summative assessment: 50
- 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 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.

Coursework required for the completion of the subject

participating in contact lessons	28
preparation for contact lessons	16
preparation for summative assessments	8
autonomous learning	16
preparation for exam	22
total	90

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 and social trends at global and local level and their connection to corporate operations Sustainable development and the corporate sphere, the foundations of environmental management
- 2 Environmental risks and environmental strategy. Basic principles of corporate environmental management
- 3 Environmental factors and effects: their importance and evaluation. Different approaches to environmental protection (end-of-pipe, preventive environmental protection and industrial ecology)
- 4 The place and role of environmental performance evaluation in the process of corporate regulation
- 5 Environmental management systems: ISO14001 and EMAS – principles and practical implementation; environmental audit
- 6 Eco-marketing and corporate environmental communication; content and purpose of corporate sustainability reports
- 7 Environmental product innovation
- 8 The concept and forms of corporate social responsibility
- 9 Environmental conflicts and their corporate management
- 10 Sustainable business models
- 11 The basics of sustainable consumption

Additional lecturers

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Approval and validity of subject requirements