



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

<i>Name</i>	<i>Position</i>	<i>Contact details</i>
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/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**
Recommended semester: **4**

Direct prerequisites

<i>Strong</i>	None
<i>Weak</i>	None
<i>Parallel</i>	None
<i>Exclusion</i>	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 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. The student knows the types of environmental risks and the corporate strategies based on them;
2. knows the different trends that can be incorporated into the environmental management of companies, their advantages and disadvantages, and their comparison with each other;
3. is aware of the role of environmental performance assessment, knows the characteristics of the ISO14001 and EMAS regulations;
4. in addition, knows the corporate benefits related to eco-marketing and social responsibility.

Skills

1. The student is able to recognize connections in issues related to corporate environmental management;
2. to use critical thinking about information related to corporate environmental management;
3. to recognize, understand and answer questions related to corporate environmental management;
4. to learn the holistic approach and to map multidisciplinary relationships, to justify points related to other sciences;
5. as well as being able to interpret the above in a comprehensible manner, to a non-professional audience.

Attitude

1. The student cooperates with the instructor and fellow students during the expansion of knowledge;
2. expands their knowledge through continuous knowledge acquisition, using multimedia tools and resources.

Independence and responsibility

1. The student solves problems related to environmental management independently;
2. accepts well-founded critical comments with an open mind;
3. in some situations - as part of a team - cooperates with fellow students in solving tasks;
4. uses a systemic approach in their thinking.

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 two 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's 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
- Total: 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. 4) 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

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: 06.05.2024.

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

Additional lecturers

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Approval and validity of subject requirements