SUBJECT DATASHEET

Corporate Environmental Management

BMEGT42M005

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
Corporate Environmental Management

ID (subject code)	BMEGT42M005

Type of subject
contact lesson

Course types and lessons

Type	*Lessons*
Lecture	2
Practice	0
Laboratory	0

Type of assessment
mid-term grade

Number of credits
2

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

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

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

Familiarizing students with the basic corporate (organizational) environmental management methods that function as a prominent component of market competiveness in the European Union and in Hungary as well.

Academic results

Knowledge

1. The student attains knowledge about the organizational and motivational tools related to management, as well as the methods and the legislative framework needed for practical application,
2. The student attains knowledge about the basics of the environmental protection, energy management, juristic, economic and management fields related to engineering activities, as well as about their limits and consequences.

Skills

1. The student is able to implement the general and specific environmental and business administration principles, rules, interrelations and procedures in order to solve problems occurring in the field of environmental protection.
2. able to apply management tools and methods in solving environmental protection tasks;
3. able to handle problems and tasks to be solved in an integrated, complex manner.

Attitude

1. The student accepts the professional and ethical values related to the field of environmental protection and cooperates with the instructor and the other students during the learning process.
2. The student aims to plan and implement their independent- or group tasks on a high professional level, while broadening their knowledge through the constant acquisition of knowledge.
3. The student aims to understand the complex systems encountered throughout their work with the help of a systematic approach.
4. The student aims to use the available IT tools, and is open to learning about and applying innovations re-lated to environmental protection.

Independence and responsibility

1. The student takes occupational health and safety, technological, economic and legal regulations and basic principles of engineering ethic into account during their decisions, and is capable of independent problem-solving.
2. The student takes initiative in the solving of environmental protection related problems, reveals the shortcomings of the applied technologies and the threats related to the applied processes. Furthermore, the student instigates the preformation of measures aimed to mitigate these.
3. The student is capable of planning and performing tasks independently, and is able to participate in group work.

Teaching methodology

Tasks related to the lectures: verbal and written communication, group work, the creation of plans (with the help of IT tools and techniques).

Materials supporting learning

- Szerk: Kósi Kálmán - Valkó László: Környezetmenedzsment. (Tankönyv; BME - Typotex Kiadó, Budapest, 2006.). ISBN 963-9664-07-3
- Valkó László - Kósi Kálmán – Herczeg Márton: Környezetmenedzsment. (Tanári kézikönyv, Nemzeti Szakképzési Intézet, Budapest. 2001. ISBN 963 9382 24 8)
- Előadásanyagok diasorai. / Slideshows of the lectures

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The two pillars of the evaluation of learning outcomes set out in point 2.2 is based on: 1. summative assessments to evaluate the competencies acquired during the semester (1 mid-term exam); 2. as well as registration of mid-semester progress, preparation of written
assignments with continuous feedback from the instructor (regular submission of assignments to be completed independently, helping to master the course material), and evaluation of these at the end of the semester.

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 a mid-term exam. The mid-term exam focuses on the
assessment of the acquired knowledge and its application, so the recognition and solution of problems is at its center. The course material on which the evaluation is based on is determined by the lecturer of the subject. 2. Formative assessment (homework): a complex
evaluation method of the competence elements of the subject knowledge, ability, attitude, independence and responsibility type, which takes the form of homework done individually or in groups. The content, requirements, submission deadline and evaluation method of the homework are determined by the instructor.

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

- **Summative assessment (mid-term exam)**: 25
- **Formative assessment (homework)**: 75
- **Total**: 100

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

-

Issuing grades

Excellent	91
Very good	85–90
Good	73–84
Satisfactory	65–72
Pass	50–64
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) Pursuant to the current CoS, in the case of formative assessments, if the assignment was submitted on time, it is possible to repeat or retake it before the end of the late completion period, if the original task has already been accepted by the instructor. 5) Formative assessments can be submitted late, subject to payment of the special procedure fee specified in the regulations. The latest date for late submission is the last day of the late completion period.

Coursework required for the completion of the subject

participation in contact lessons	28
preparation for contact lessons	10
preparation for summative assessment	10
preparation of homework	12
Total	60

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 The purpose and methods of teaching the subject. The concept of management and environmental management. Introduction to environmental management: tasks in the field of environmental protection, causes, reasons, interests. Basic relationships.

2 The material transformation process of the economy. Material flow analysis and the circular economy. Resource management in business organizations.

3 Environmental factors and environmental effects - Analysis methods (impact assessment sheet, Leopold matrix, ABC analysis, eco-mapping, etc.). Case study processing.

4 The applicability of the SWOT analysis in corporate environmental protection.

5 Environmental management systems and system audit. Case study processing.

6 Life cycle assessment, analysis of life cycle phases. Stages of Life Cycle Assessment.

7 Life cycle inventory analysis. Life cycle impact assessment. Lifecycle repair.

8 Environmental performance assessment process.

9 The concept of environmental indicators, types, aspects of their selection and application. The role and importance of environmental indicators in performance evaluation.

10 Environmental audit group case game.

11 Environmental communication. Environmental labeling. Eco-marketing.

Additional lecturers

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

Approval and validity of subject requirements