SUBJECT DATASHEET

Sustainable Environmental and Natural Resource Management

BMEGT42RRR5005-00

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
Sustainable Environmental and Natural Resource Management

ID (subject code)	BMEGT42RRR5005-00

Type of subject
contact unit

Course types and lessons

Type	*Lessons*
Lecture	8
Practice	0
Laboratory	0

Type of assessment
obtaining signature

Number of credits
2

Subject Coordinator

Name	*Position*	*Contact details*
Beszedics-Jäger Bettina Szimonetta	assistant professor	jager.szimonetta@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: **„ESG consultant**
Subject Role: **Compulsory**
Recommended semester: **1**

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: 580387/26/2025 registration number. Valid from: 2025.05.28.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The course unit aims to introduce students to the fundamental environmental and natural resource-based problems that our contemporary society must face. Starting out from the economic basics, through a review of case studies to future-conscious decisions, students will gain an insight into environmental and natural resource economics.

Academic results

Knowledge

1. Knows the basic context, problems and possible solutions for the management of non-renewable resources, the role of substitutes and the impact of changes in cost factors;
2. Understands the need for recycling of materials, the specificities of recycling/reuse of some key types of materials and resources;
3. Understands the intergenerational economic, social and environmental consequences of the production, storage and management of waste (in particular hazardous and nuclear waste).

Skills

1. The student is capable of drawing up economic, social and environmental plans for the future, and is competent at assessing these;
2. They are competent in recognising problems arising from pollution, and are capable of finding appropriate solutions.

Attitude

1. Cooperates with the lecturer and other students.
2. Strives to understand complex systems.
3. Uses the opportunities offered by IT tools.

Independence and responsibility

1. The students are able to work individually: selecting methods and techniques; organizing, planning, coordinating work; collecting, organizing, analysing, evaluating data; developing in general and professionally;
2. The students are able to apply system-oriented thinking.

Teaching methodology

Online lecture

Materials supporting learning

- Előadásdiák / ppt slideshow

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The assessment of the learning outcomes stated in point 2.2. is based on an online Moodle test.

Performance assessment methods

Checking of learning the lecture slides.

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

- **Moodle test**: 100

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

Active participation in class and/or online consultation with the lecturer. Completing the test on the course's Moodle page by the deadline.

Issuing grades

Excellent	100
Very good	100
Good	100
Satisfactory	100
Pass	100
Fail	100

Retake and late completion

The active participation in the contact lectures can be compensated during the semester by watching the recorded lectures afterwar

Coursework required for the completion of the subject

Lecture	8
Processing background materials	12
Learning individually	20
Preparing	20
Total	60

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 05.05.2024.

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.

1 Use of resources, energy efficiency, energy consumption, its elements, definition

2 Nature protection

3 The use of hazardous substances, the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Regulation (EU) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the application of Regulation (EC) No 1907/2006 (REACH Regulation)

Additional lecturers

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