

# SUBJECT DATASHEET

ESG workshop – Energy management

**BMEGT42RRR5008-00** 

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## I. SUBJECT DESCRIPTION

## 1. SUBJECT DATA

## Subject name

ESG workshop - Energy management

ID (subject code) BMEGT42RRR5008-00

Type of subject

contact unit

Course types and lessons		Type of
Type	Lessons	assessment
Lecture	0	obtaining signature
Practice	9	Number of
Laboratory	0	credits
Subject Coordinates		3

**Subject Coordinator** 

Name Position Contact details

Dr. Buzási Attila associate professor buzasi.attila@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 elective

Recommended semester: 2

## **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.

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## 2. OBJECTIVES AND LEARNING OUTCOMES

### **Objectives**

The aim of the course is to introduce various aspects of energy management (green energy, renewable energy, building management systems, AI-based data analysis and predictive methods) through a thematic workshop.

#### **Academic results**

#### Knowledge

- 1. The student knows the basic concepts of energy management in an ESG context.
- 2. Knows the green building rating systems.
- 3. Knows the role of building management systems in ESG.
- 4. Knows the role of artificial intelligence and data analytics in ESG.

#### Skills

- 1. The student is sble to collect and interpret energy consumption data from an ESG perspective.
- 2. Able to identify and prioritise energy efficiency projects.
- 3. Able to identify AI-based data analysis options.
- 4. Able to calculate and benchmark energy intensity indicators.

#### Attitude

- 1. Open to innovation: actively seeking and applying new technologies (e.g. AI, IoT) to achieve sustainability goals.
- 2. Applies data-driven thinking to decision making.
- 3. Recognises the importance of life-cycle energy optimisation.

## Independence and responsibility

- 1. Able to independently plan and implement energy efficiency project steps.
- 2. Takes responsibility for the implementation of all related management tasks.

#### **Teaching methodology**

Practice - full-day workshop

#### **Materials supporting learning**

• Elméleti bevezető diasorok / Ppt slideshow about principles

## II. SUBJECT REQUIREMENTS

## TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

## **General Rules**

The learning objectives detailed in 2.2 will be assessed by means of active participation in the workshop.

## Performance assessment methods

Checking active participation in the workshop by means of an attendance sheet.

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

## Percentage of exam elements within the rating

## Conditions for obtaining a signature, validity of the signature

Active participation in the workshop. Signing the attendance sheet.

#### **Issuing grades**

Excellent	100
Very good	100
Good	100
Satisfactory	100
Pass	100
Fail	0

## **Retake and late completion**

As the condition for obtaining a signature is active participation in the workshop, repeat, retake, and late completion are not po

## Coursework required for the completion of the subject

Attendance	9
Processing background materials	20
Learning individually	20
Preparing	41
Total	90

## 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.

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## 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 Energy management – practical workshop

## **Additional lecturers**

Dr. Szalay Zsuzsa egyetemi docens/associate professor szalay.zsuzsa@emk.bme.hu

Approval and validity of subject requirements

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