



# **SUBJECT DATASHEET**

**Economics of sustainability**

**BMEGT42BX4U000-00**

# I. SUBJECT DESCRIPTION

## 1. SUBJECT DATA

### Subject name

Economics of sustainability

### ID (subject code)

BMEGT42BX4U000-00

### Type of subject

contact unit

### Course types and lessons

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

### Type of assessment

mid-term  
grade

### Number of credits

3

### Subject Coordinator

<i>Name</i>	<i>Position</i>	<i>Contact details</i>
Dr. Bartus Gábor	assistant professor	bartus.gabor@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: 580501/3/2025 registration number. Valid from: 2025.07.10.

## 2. OBJECTIVES AND LEARNING OUTCOMES

### Objectives

The aim of the course is to acquaint students with the theory and practice of sustainable development, especially in the international and national policies. During the course, we will also provide an overview of the possibilities of corporate management practices for sustainability.

### Academic results

#### Knowledge

1. The student has theoretical knowledge of the parts of macroeconomics concerning the factors of production and knowledge of their practical applicability;
2. knows the different interpretive concepts and theories of sustainable development;
3. knows the macro-level horizontal instruments of sustainable development policies, SD strategies and programs;
4. knows the relevant indicators, typical methods of evaluation;
5. knows the main features of the practice of the sustainable development management.

#### Skills

1. The student is able to use the learned theories and methods, explores, systematizes and analyses facts and basic connections, formulates independent conclusions and critical remarks, makes decision-making proposals, and makes decisions in routine and partly unknown - domestic and international – environments;
2. interprets the possible consequences of the decisions in their engineering or managerial profession and activity, and is able to follow and evaluate the changes and their effects of global trends of world economy and national policies;
3. is able to calculate and analyse the complex consequences of economic and institutional processes;
4. can apply relevant problem solving techniques and methods, while taking into account their application conditions and limitations;
5. is able to collaborate with people coming from different disciplines.

#### Attitude

1. The student is, in order to perform quality work, problem-sensitive and proactive;
2. they are receptive to new information, new professional knowledge and methodologies, open to new, independent and collaborative tasks and responsibilities;
3. strives to improve their knowledge and working relationships;
4. is open to challenges in the broader economic and social environment of the given position, work organization, enterprise, strives to follow and understand the changes;
5. has inclusive views on sectoral, regional, national and European values (including social, societal and ecological, sustainability aspects).

#### Independence and responsibility

1. The student is responsible for their analysis, conclusions and decisions;
2. is responsible for complying with professional, legal, ethical standards and rules related to their work and conduct.

### Teaching methodology

Lectures, written and oral communication, use of IT tools and techniques.

### Materials supporting learning

- A kurzus alapvető tananyaga egy több cikkből és tanulmányból álló válogatás, amit az új eredmények megjelenésével folyamatosan frissítünk. Az anyagok elektronikusan minden hallgató számára elérhetők, letölthetők.
- The core curriculum of the course is a selection of several articles and research papers, which are constantly updated as new results appear. The materials are available and downloadable for all students.
- G. Bartus: Unsustainability as an economic problem. In: Marcel Szabó and Marie-Claire Cordonie Segger (ed.) Inter-generational Justice in Sustainable Development Treaty Implementation, Cambridge University Press, 2019.
- Bartus G.: Miért nem képesek a társadalmak megfékezni a természeti környezet pusztulását? – Az érdemi és hatékony környezetpolitika körvonalai. In: Hegymenet – Társadalmi és politikai kihívások Magyarországon (Szerk: Jakab András és Urbán László) Budapest: Osiris, 2017. 442-460.
- Bartus G.: A fenntarthatósági politika értelméről. In: „Jót s jól!” 26 tanulmány a fenntarthatóságról (Szerk: Bodor M., Kerekes S. és Zilahy Gy.) Kőszeg: iASK Felsőbbfokú Tanulmányok Intézete, 2017. 20-27.
- Bartus, G.: A fenntartható fejlődés fogalom értelmezésének hatása az indikátorok kiválasztására, Statisztikai Szemle, 91 (8-9), 842-869. (2013)
- Bartus, G.: A fenntartható fejlődés értelmezési problémái, Minőség és Megbízhatóság, XLVI (6), 309-316. (2012)
- Bartus, G.: Távol a fenntartható társadalomtól, Studia Wesprimiensia, 19 (1-2), 10-17. (2018)
- Bartus G.: Fenntarthatóság és társadalmi igazságosság, Periodica Oeconomica, 3. (2), 37-47. (2010)
- Bartus G.: Alkotmányozás és a környezet védelme. Kommentár, 5. évf. 6. szám, 24-33. (2010)
- Bartus G.: Szükségünk van-e jóléti vállalatokra? Kommentár 3. évf. 5. szám, 26-40. (2008)
- Bartus G.: A fenntartható fejlődés rejtélyes fogalmáról. Kommentár 1. évf. 6. szám, 55-63. (2006)
- United Nations: Transforming our world: the 2030 Agenda for Sustainable Development. General Assembly Resolution A/RES/70/1. (2015)
- 18/2013. (III. 28.) OGY határozat a Nemzeti Fenntartható Fejlődés Keretstratégiáról

- L. Meuleman (ed.): Transgovernance – Advancing Sustainability Governance. Springer, Heidelberg-New York, Dordrecht-London, 2013.
- J.D. Sachs: The Age of Sustainable Development. Columbia University Press, New York, 2015.
- D. Acemoglu – J.A. Robinson: Miért buknak el a nemzetek? (ford: Garamvölgyi A.) HVG Könyvek, Budapest, 2013.
- J. Diamond: Összeomlás – Tanulságok a társadalmak továbbéléséhez. Typotex, Budapest, 2007.
- A Nemzeti Fenntartható Fejlődési Tanács Műhelytanulmányok sorozatának számai, letölthetők innen:  
<https://www.nfft.hu/muhelytanulmanyok>

## 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 two summative assessments (mid-term exams). The summative assessments consist of questions derived from the lecture slides and the content of required readings to be processed autonomously

#### Performance assessment methods

Detailed description of performance evaluations during the study period: Summative assessment: a complex, written evaluation method of the subject's knowledge and ability-type competency elements in the form of a mid-term exam. The mid-term exams measure the proper

use of concepts, the correct knowledge of basic theorems and relationships, and the ability to apply basic theorems. The mid-term exams

also measure the understanding and content of required readings assigned to be processed autonomously. The course material on which the evaluation is based is determined by the lecturer of the subject.

#### 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

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

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#### Issuing grades

Excellent	94
Very good	88-93
Good	76-87
Satisfactory	63-75
Pass	50-62
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 retake, 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

Participation	28
Preparation for contact lessons	13
Preparation for summative assessments	19
Readings	30
Total	90

#### Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 07.07.2024.

# 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 Introduction: the problem of sustainability. Why has “sustainable development” become fashionable?
- 2 Physical (economic) resources – theory, role in development, global and domestic situation, trends.
- 3 Human resources – theory, role in development, global and domestic situation, trends.
- 4 Natural capital and ecosystem services – theory, role in development, global and domestic situation, trends.
- 5 Social capital – theory, role in development, global and domestic situation, trends.
- 6 International conventions and programs of sustainable development. Sustainability policies of the European Union.
- 7 National sustainable development strategies. Settlement sustainability programs.
- 8 Is the company sustainable?
- 9 Tools of sustainability policy: indicators, progress reports.
- 10 Connection of sustainability policy to economic policy. Transformation of the economic regulatory system. Sustainable financing.

### Additional lecturers

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### Approval and validity of subject requirements