SUBJECT DATASHEET

AZ ENERGIA KÖRNYEZETI MENEDZSMENTJE

BMEGT42N003

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
AZ ENERGIA KÖRNYEZETI MENEDZSMENTJE

ID (subject code) BMEGT42N003

Type of subject
contact unit

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. Pálvölgyi Tamás	associate professor	palvolgyi.tamas@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
angol - ENG

Curricular role of the subject, recommended number of terms
Programme: **Elective subjects**
Subject Role: **Elective**
Recommended semester: **0**

Programme: **Regional and Environmental Economic Studies MSc (in English) from 2019/20/Term 1**
Subject Role: **Elective**
Recommended semester: **0**

Direct prerequisites

Strong	None
Weak	None
Parallel	None
Exclusion	None

Validity of the Subject Description

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

This course is recommended to all students interested in the interrelations of modern-day energy use, what it means from an environmental point of view. The aim of this course is to familiarise students with the current trends in the energy market, and practices in an international context. The course will start with a general overview of current trends across the globe that define energy use, efficiency, sustainability and possible future scenarios. The course will then focus on policy and challenges posed in this im-portant area, detailing different approaches and sectors especially on transport in order to give a comprehensive understanding on the subject.

Academic results

Knowledge

1. the most imporant trends in energy sector;
2. present and future energy challenges;
3. EU energy and climate policy;
4. context of energy systems and markets;
5. different energy strategies of countries.

Skills

1. plan and organize independent learning,
2. comprehend and use the professional literature of energy,
3. to understand and participate in on-going debates related to energy and climate change.

Attitude

1. collaborate with their instructors and fellow students during the learning process,
2. are open to participate in common thinking on different topics and problems,
3. gain knowledge and information,
4. are able to work in a team,
5. use the opportunities offered by IT tools.

Independence and responsibility

1. are open to accept reliable critical remarks,
2. are able to work on a project as a team,
3. can conduct research related to the group assingment,
4. are able to present their group research results,
5. shall prepare to the exam individually.

Teaching methodology

Lectures and group work.

Materials supporting learning

- A félév során folyamatosan feltöltött előadások diasorai.
- Slideshows of the lectures which will be uploaded continously during the semester.

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

Assessment of the learning outcomes described under 2.2. is based equally on one written end-term test and the final presentation (group
work).

Performance assessment methods

Assessment of the learning outcomes described under 2.2. is based equally on one written end-term test and the final presentation (group
work).

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

- **group work + presentation** : obtainable: 50%
- **exam**: obtainable: 50%

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

Issuing grades

Excellent	90
Very good	80–90
Good	70–80
Satisfactory	60–70
Pass	40–60
Fail	40

Retake and late completion

15th week

Coursework required for the completion of the subject

Participation in contact lessons	14×2=28
Home works	18
Preparing for the exam	14
total	60

Approval and validity of subject requirements

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 achie-ved. Timing of the topics may be affected by calendar or other circumstances in each semester.

1 Introduction
2 Fossil fuels and nuclear energy
3 Renewable energy resources
4 Energy and climate, Energy policy
5 Energy of transportation
6 Energy poverty
7 Energy efficiency
8 Business model of energy sector
9 Business model of energy sector
10 Group work
11 Presentation I.
12 Presentation II.

Additional lecturers

Tamás Szőke PhD student szoke.tamas@gtk.bme.hu

Approval and validity of subject requirements