SUBJECT DATASHEET

Sustainable professional life for engineers

BMEGT42BX4K000-00

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
Sustainable professional life for engineers

ID (subject code)	BMEGT42BX4K000-00

Type of subject
contact unit

Course types and lessons

Type	*Lessons*
Lecture	0
Practice	3
Laboratory	0

Type of assessment
mid-term grade

Number of credits
3

Subject Coordinator

Name	*Position*	*Contact details*
Dr. Zöldy Máté	full professor	zoldy.mate@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 prepare engineers for continuous professional development and a conscious and sustainable professional life. Within the scope of the course, students will become familiar with the basics of personality typology, in order to recognize their own and their partner's behavior while forming a network of relationships. Conferences will be shared as prominent professional and relationship nodes and structures of engineering life. Students will try out conference preparation, participation and evaluation through one of the conferences that also deal with sustainability topics (such as Sustainable Economy 2030, the Budapest Climate Summit, Cognitive Mobility or the EELISA sustainability workshop). In the second half of the course, we will deal with CV writing and the basics of LinkedIn profile creation, highlighting the importance of displaying green aspects on these platforms. These are important elements of maintaining a professional network of relationships. The practical sessions include the processing of professional literature (video material, books, etc.), consultation of individual tasks and discussion of common task parts: - Foundations of relationship building, - Conscious professional "self-branding" building, - Acquiring basic self-awareness, - Getting to know the basic logic of professional conferences, - Types of conferences, basics of choosing between sections, - Effective and prepared participation in conferences from both a professional and relationship perspective with reflection. Based on the practical sessions, with the help of instructor guidance, students prepare professionally for a conference: by prioritizing articles, filtering, and processing selected articles. This is followed by participation in a conference, followed by a professional and individual evaluation of this combined with instructor consultation.

Academic results

Knowledge

1. The student possesses basic self-awareness skills;
2. knows the basic logic of professional conferences;
3. knows the basics of professional self-branding;
4. knows the basic concepts of sustainability and environmental economics from the perspective of professional communication.

Skills

1. Thes student assesses their own abilities in a communication situation;
2. is able to recognize typical features of the partner's behavior;
3. can prepare professionally and in terms of building relationships for a conference;
4. acquires professional knowledge in a targeted manner at a conference;
5. is able to actively increase their network of contacts;
6. is able to communicate sustainability values when building professional relationships.

Attitude

1. The student demonstrates problem-sensitive, proactive behavior and initiative in order to achieve quality work;
2. is capable of open, professional communication;
3. is receptive to professional information through a conference-format;
4. is sensitive to the professional aspects of environmental and social sustainability and is open to green innovations.

Independence and responsibility

1. The student takes responsibility for their ongoing professional life;
2. communicates responsibly for themself and their partner;
3. consciously represents sustainability in their own professional narrative and network of contacts.

Teaching methodology

During the course, frontal knowledge transfer is applied to a small extent, typically when introducing individual topic areas. Students solve online tests, and the evaluation takes place in small groups and then together. Preparing for the conference is individual work, and participating in the prepared conference is a prepared, live opportunity to practice previously prepared network builing situations. Writing the reflection is done alone, and sharing experiences in small groups and then in a plenum. Creating a CV and LinkedIn page starts with frontal sharing, which is followed by individual work and then by drawing lessons together. The process is concluded with individual consultation opportunities.

Materials supporting learning

- https://nyitok.hu/leckek/18,47,358/vallalati_kultura_munkahelyi_egyuttmukodes/szemelyisegunk_a_disc_tipusok#q=,s=6
- Lichtenegger Erdős Zsuzsanna: Hogyan beszélgessek ismeretlenekkel?, ISBN 9786150028644
- John C. Maxwell: A kapcsolatteremtés művészete - Amit a legjobbak másképp csinálnak
- Jim Dornan - John C. Maxwell: Hogyan legyünk hatással az emberekre - A hatásgyakorlás eredményei a vezetésben
- Szalmáné, Csete Mária ; Zöldy, Máté ; Török, Ádám: Új mobilitási megoldások: technikai lehetőségek és pénzügyi aspektusok a fenntarthatóság tükrében, In: Kolozsi, Pál Péter (szerk.) A pénz jövője, a jövő pénze I. : Pénzügyek történelmi perspektívában, zöld pénzügyi fordulat
- Barna, Orsolya; Szalmáné Csete, Mária: Certificate-Based Good Practice To Motivate Engineering Students To Learn Sustainability Skills, In: Reilly, G.; Murphy, M.; Nagy, B.V.; Jarvinen, H.M. (szerk.) Proceedings of the 51st Annual Conference of the European Society for Engineering Education, SEFI

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The basic requirement for students is to attend lectures, absences are accepted as per the regulations of the CoS. Participation in a conference agreed in advance within the framework of the subject, and reflection on this in the manner learned. The grade is determined
based on the reflection. In justified cases, conference participation can be replaced at a conference proposed by the student and accepted
by the instructor.

Performance assessment methods

Detailed description of assessments conducted during the study period: Formative assessment (practical task): preparation of a conference
preparation material based on the knowledge, skills, attitude, and independence and responsibility competence elements acquired during the course, which is evaluated and expanded after the conference participation. The preparation material must be sent to the instructor before the conference, and the reflection must be sent to the instructor no later than two weeks after the conference. The assessment criteria: thoroughness of the preparation material, quality of the summary of experiences and learning points.

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

- **formative assessment (practical task)**: 100
- **total**: 100

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

-

Issuing grades

Excellent	95
Very good	73-95
Good	65-72
Satisfactory	59-64
Pass	50-58
Fail	0-49

Retake and late completion

1) Due to the nature of the formative assessment, it cannot be retaken, repeated or completed late.

Coursework required for the completion of the subject

Participation	42
Preparation for contact lessons	21
Preparation of the formative assessment	27
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 to Engineering Networking

2 Self-Awareness

3 Preparing for a Professional Conference

4 Participating in a Professional Conference

5 Evaluating a Professional Conference

6 Basics of Writing a Resume

7 Basics of Editing a Linkedin Profile

Additional lecturers

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Approval and validity of subject requirements