SUBJECT DATASHEET

Online Systems Supporting Pedagogical Work

BMEGT51XX11551-91

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
Online Systems Supporting Pedagogical Work

ID (subject code) BMEGT51XX11551-91

Type of subject
contact hour

Course types and lessons

Type	*Lessons*
Lecture	0
Practice	8
Laboratory	0

Type of assessment
semester grade

Number of credits
5

Subject Coordinator

Name	*Position*	*Contact details*
Dr. Manojlovic Heléna	university assistant professor	manoljovic.helena@gtk.bme.hu

Educational organisational unit for the subject
Department of Technical Education

Subject website
https//edu.gtk.bme.hu

Language of the subject
magyar - HU

Curricular role of the subject, recommended number of terms
Programme: **Mentor teacher programme**
Subject Role: **Compulsory**
Recommended semester: **1**

Programme: **Measurement-assessment teacher programme**
Subject Role: **Compulsory**
Recommended semester: **1**

Programme: **Adult Education Expert**
Subject Role: **Compulsory**
Recommended semester: **1**

Direct prerequisites

Strong	Nincs
Weak	Nincs
Parallel	Nincs
Exclusion	Nincs

Validity of the Subject Description
Approved by the Faculty Board of Faculty of Economic and Social Sciences, Decree No: 580466/11/2025 registration number. Valid from: 2025.06.25.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The aim of the course is to provide students with a comprehensive understanding of the types, functionalities, and practical applications of online systems that support pedagogical work. During the course, students will become familiar with systems that assist educational administration, learning organization, student progress tracking, and digital content development. The objective is to enable students to consciously select and apply appropriate tools in their own teaching practice and to critically reflect on the pedagogical impact of these online systems.

Academic results

Knowledge

1. The student is familiar with the main types and functional characteristics of online systems supporting pedagogical work;
2. understands the role of ICT tools in the teaching and learning process;
3. has knowledge of the capabilities of online systems in educational organization, administration, student assessment, and digital content creation;
4. understands the basic principles of data security and privacy in the context of educational systems.

Skills

1. The student is able to select appropriate online systems for specific pedagogical goals and contexts;
2. use digital platforms to support educational administration, student performance monitoring, and assessment;
3. create and publish digital learning materials using modern educational technology tools;
4. critically evaluate the pedagogical effectiveness and usability of online systems in various educational settings.

Attitude

1. Upon completing the course, the student is open to using digital technologies in pedagogical practice;
2. is committed to improving the quality of learning and teaching through the conscious use of online tools;
3. values digital literacy and lifelong learning;
4. handles data in educational systems responsibly, with attention to privacy and ethical considerations.

Independence and responsibility

1. Upon completing the course, the student is able to independently select and integrate online pedagogical systems into their own teaching practice;
2. makes responsible decisions about the use of digital tools, considering learners' age-specific needs and learning requirements;
3. reflects critically on their own use of digital tools and its impact on the teaching-learning process;
4. takes responsibility for maintaining a safe learning environment and ensuring compliance with data protection standards.

Teaching methodology

The course is delivered through an interactive, practice-oriented approach. Students will acquire knowledge via lectures, case studies, group work, assignments on digital platforms, and hands-on demonstrations. Emphasis is placed on active student participation, reflective thinking, and creative tasks involving digital tools.

Materials supporting learning

- UNESCO: Technology in Education – GEM Report 2023 (https://unesdoc.unesco.org/ark:/48223/pf0000385723)
- Online Learning Platforms for 2025 (https://research.com/software/best-online-learning-platforms)
- Online tanulástámogató rendszerek (https://dpmk.hu/2020/04/16/ingyenesen-hozzaferheto-online-tanulastamogato-rendszerek/)
- Oktatás, technológia, innováció-Helyzetkép és stratégia (2021), Szerkesztette: Halász Gábor, Kovács István Vilmos, Pálvölgyi Lajos

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The achievement of the objectives and learning outcomes defined in sections 2.1 and 2.2 is documented based on active participation in practical sessions (partial performance assessment).

Performance assessment methods

Active participation in individual and group assignments.

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

- **részteljesítmény értékelés (házi feladat)**: 60
- **részteljesítmény értékelés (aktív részvétel)**: 40

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

minimum 70% attendance at scheduled classes; active engagement with the course's online platform (e.g., downloading and submitting assignments, participating in discussion forums); achievement of at least 50% of the total attainable score from all mandatory performance
assessments.

Issuing grades

Excellent	96
Very good	88-95%
Good	76-87%
Satisfactory	63-75%
Pass	50-62%
Fail	0-49%

Retake and late completion

At least one opportunity is provided during the semester to submit missing assignments. Tasks not submitted by the deadline or receiving
a failing grade may be resubmitted or corrected no later than the end of the make-up week. Make-up work must comply with the formats
and deadlines defined in the course requirements.

Coursework required for the completion of the subject

részteljesítmény értékelés (házi feladat)	142
részteljesítmény értékelés (aktív részvétel)	8

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 02.06.2024.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

1 Introduction to online pedagogical systems – definitions, types, and roles in education
2 Educational administration platforms
3 Supporting learning processes with artificial intelligence and automated systems – adaptive learning environments, chatbots, recommender systems
4 Tools and methods for digital content creation – interactive materials, presentations, videos
5 Monitoring and assessment of student performance in online environments
6 Data protection and ethical use of systems in education
7 Using online collaboration tools for educational purposes
8 Designing a personalised toolkit of online educational tools

Additional lecturers

Approval and validity of subject requirements