



SUBJECT DATASHEET

METHODS FOR PROFESSIONAL KNOWLEDGE ACQUISITION

BMEGT51A553

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name

METHODS FOR PROFESSIONAL KNOWLEDGE ACQUISITION

ID (subject code)

BMEGT51A553

Type of subject

contact hour

Course types and lessons

<i>Type</i>	<i>Lessons</i>
Lecture	0
Practice	3
Laboratory	0

Type of assessment

term grade

Number of credits

3

Subject Coordinator

<i>Name</i>	<i>Position</i>	<i>Contact details</i>
dr. Tóth Péter	associated professor	toth.peter@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: Vocational instructor BSc - Technical instructor specialisation (from 2021/22/Term 1)

Subject Role: Compulsory

Recommended semester: 1

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: 580251/13/2023 registration number. Valid from: 29.03.2023.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The aim of the course is to illuminate the peculiarities of the acquisition of professional knowledge from an epistemological and pedagogical point of view, as a result of which students participating in professional teacher training will be better prepared to interpret the cognition processes of their students, which will serve as the basis for their methodological awareness.

Academic results

Knowledge

1. He knows the basic laws of human cognition and, more specifically, professional cognition.
2. Know the basic forms of thinking.
3. He knows the relationship between cognition and learning, the interpretation of metacognition and self-regulating learning.
4. The relationship between knowledge acquisition and motivation.

Skills

1. He is able to identify, interpret, correct and help the processes of acquiring knowledge of his students.
2. Ability to recognize the learning strategies and styles of your students and take them into account in your methodology.

Attitude

1. Collaborate with the instructor and fellow students in expanding knowledge,
2. In the case of group tasks, learning and working, he is determined, constructive, cooperative, proactive as both a leader and an executive.

Independence and responsibility

1. It independently goes through tasks and problems and solves them based on specific sources.
2. In group work, in order to achieve the goal, he mobilizes his theoretical and practical knowledge and abilities autonomously, in cooperation with (and sometimes directing) other members of the group.

Teaching methodology

Lectures, communication in writing and orally, use of IT tools and techniques, optional tasks prepared independently and in group work.

Materials supporting learning

- Tankönyvek, jegyzetek, letölthető anyagok
- Benedek András et al. (szerk.) (2008): Andragógiai ismeretek III. NSzFI, Budapest.
- Peter Bednorz – Martin Schuster (2006): Bevezetés a tanulás lélektanába. Medicina Könyvkiadó, Budapest.
- Mérő László (2001): Új észjárások. A racionális ereje és korlátai. Tericum Kiadó, Budapest.
- Kutrovácz Gábor (2003): Bevezetés a logikába és az érveléelméletbe. Elektronikus jegyzet. ELTE, Budapest

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

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Performance assessment methods

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

- 1. részteljesítmény értékelés (1. házi feladat): 50
- 2. részteljesítmény értékelés (2. házi feladat): 50

Percentage of exam elements within the rating

Conditions for obtaining a signature, validity of the signature

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Issuing grades

Excellent	96
Very good	87-95
Good	75-86
Satisfactory	63-74
Pass	51-62
Fail	50%

Retake and late completion

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Coursework required for the completion of the subject

részvétel a kontakt tanórákon	42
Házi feladatra felkészülés	40
Egyéb felkészülés	8
Összesen	90

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 13.03.2023.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

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- 1 A szakmai megismerés alapjelenségei. A szaktudás keletkezése. A gondolkodás sokfélesége: racionális gondolkodás, a racionalitás korlátai, magas szintű gondolkodás, problémamegoldó gondolkodás, szakmai gondolkodás. Megismerés és tanulás. Metakogníció, kognitív sémák. Önszabályozó tanulás. Természettudományok és a megismerés. Mesterséges intelligencia. Tanítás és tanulási stratégiák, stílusok. A szakmai ismeretek elsajátításának sajátosságai, nehézségei. Ismeretszerzés és motiváció.

Additional lecturers

Approval and validity of subject requirements