

# SUBJECT DATASHEET

## FORMAL MODELS OF COMMUNICATION

## BMEGT43BX4K002-00

## **I. SUBJECT DESCRIPTION**

### **1. SUBJECT DATA**

#### Subject name

### FORMAL MODELS OF COMMUNICATION

ID (subject code) BMEGT43BX4K002-00

### **Type of subject**

class

#### Course types and lessons

<u>Course types and lessons</u>		<u>Type of</u>
Type	Lessons	<u>assessment</u>
Lecture	2	term mark
Practice	0	<u>Number of</u> credits
Laboratory	0	3

#### Subject Coordinator

Name **Position**  Contact details

Dr. Számadó Szabolcs senior research fellow szamado.szabolcs@gtk.bme.hu

#### Educational organisational unit for the subject

Department of Sociology and Communication

#### Subject website

https://edu.gtk.bme.hu

#### Language of the subject

magyar - HU, angol - ENG

#### 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 course uses the tools of information theory and the logic of social interactions to address the processes of message sending, decoding, and interpretation between different agents. It aims to develop students' analytical thinking for a more effective understanding and planning of communication processes.

#### Academic results

Knowledge

- 1. Basic knowledge of social science methodologies.
- 2. Solid knowledge of conceptualization for studying communication and media phenomena.

#### Skills

- 1. Research skills.
- 2. Ability to accomplish scientific literature research.
- **3**. Analytical skills.

#### Attitude

- 1. Openness to social change
- 2. Professional and moral stand.

#### Independence and responsibility

- 1. Constructiveness and assertiveness in the context of institutional operation.
- 2. Independence.
- 3. Proficiency in professional communication both in oral and written form.

#### Teaching methodology

lecturing, classroom discussions, presentation

#### Materials supporting learning

- Rasmusen, E. 2006. Games and infrmation. Blackwell
- Searle, J. 1998. Mind language and society. New York: Basic Books
- Yoely, E & Hoffman, M. 2022. Hidden games.
- Handouts, journal articles

## **II. SUBJECT REQUIREMENTS**

### TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

#### **General Rules**

Course completion requirements: attendance at classes according to the Code of Education and Examination 1 selected paper from the literature (preparation of a presentation and delivery of the oral paper at an agreed time) active participation in class work completion of research tasks and reporting on them (group or individual work depending on the number of students).

#### Performance assessment methods

Detailed description of performance assessments conducted during the intensive period: The course emphasizes a creative research approach, translating popular literature into research material incorporating specialized literature into the research plan and creative application of research methods.

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

- classroom activity: 10
- research and presentation: 90
- **Sum**: 100

#### Percentage of exam elements within the rating

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

#### **Issuing grades**

Excellent	96
Very good	85–95
Good	70–84
Satisfactory	60–69
Pass	50-59
Fail	< 50

#### **Retake and late completion**

Retake and make-up test options are defined by the valid regulations of the University's Code on Education and Examination.

#### Coursework required for the completion of the subject

classes28prep. for classes32homeworks28presentation2total90

#### 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**

Analytical Philosophical Approach to Communication Formal Linguistics Fundamentals of Game Theory Game Theoretic Models of Incomplete Information Situations Game Theoretic Models of Signals

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#### Additional lecturers

Dr. Bárány Tibor egyetemi adjunktus

Dr. Janky Béla egyetemi tanár

Approval and validity of subject requirements