SUBJECT DATASHEET

BUSINESS AND MANAGEMENT KNOWLEDGE FOR TECHNICAL INSTRUCTORS

BMEGT20A700

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name
BUSINESS AND MANAGEMENT KNOWLEDGE FOR TECHNICAL INSTRUCTORS

ID (subject code)	BMEGT20A700

Type of subject
contact lessons

Course types and lessons

Type	*Lessons*
Lecture	20
Practice	0
Laboratory	0

Type of assessment
exam grade

Number of credits
5

Subject Coordinator

Name	*Position*	*Contact details*
Dr. Bognár Ferenc	research fellow	bognar.ferenc@gtk.bme.hu

Educational organisational unit for the subject
Department of Management and Business Economics

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: 10/2nd decision on the 580767/14/2021 registration number. Valid from: 29.09.2021.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The aim of the course is to: give participants an insight into the basic theoretical and practical knowledge of the management discipline. It is important for the audience to understand the descriptors and drivers of the behavior of managers and subordinates, the specifics of groups in the work environment, and the rules for designing and operating the organization. In discussing the topics, we refer to the applicable management methods and their effects on the members of the organization and on the team performance. - present that technology is fundamental in the business competitiveness; - help to the deep understanding of the competitive nature of technology; - present some proven methods in technology management.

Academic results

Knowledge

1. Will be aware of the competitive nature of technology.
2. Will understand the role of technology in the succesful operation of organizations.
3. Will know some proven methods of technology management.
4. Will know all the important elements of the concept of management and organizational science, understands the connections that form the basis of managerial work.
5. Will have an overview of the interactions between organizations, managers and employees, and the operational practices of organizations.
6. Will have confident methodological knowledge in various areas of management, understands and understands the application possibilities and combination possibilities of the learned methodologies.

Skills

1. Will be able to follow and understand the literature of the technology management.
2. Will be able to professionally communicate about technology management.
3. Will be able to work as an employee who understands the business, economical, management and technology contexts.
4. Will be able to work as a manager who can make decisions with synthesizing the business, economical, management and technology contexts.
5. Will be able to synthesize the basic theories and concepts related to motivational, leadership and management functions developed with the development of management, to formulate rational arguments, ie to form and defend his / her opinion during discussions in different fields of communication.
6. Will be able to confidently use the vocabulary of the management profession, the basic scientific concepts of the profession, and the elements of the special vocabulary based on them.

Attitude

1. are open to innovation, to follow constantly the technological development, and take part in development or in business implementation of the technological development.
2. are open to accept the new development in technology management.
3. strive to cooperate in multidisciplinary groupwork.
4. accept that organizational behavioral phenomena arising from organizational culture are historically and socially defined and variable.
5. accept the historical and contemporary diversity of the Hungarian and European management tools and undertakes to represent these values.
6. are open to all forms of professional innovation, accepting theoretical, practical and methodological innovations.
7. are open to critical self-assessment, various forms of professional development, self-improvement methods of intellectual worldview and strives for self-development in these areas.
8. consciously represent the methods he uses in his own profession and accept the different methodological peculiarities of other disciplines.

Independence and responsibility

1. Perform tasks independently in analysing technology management problems.
2. Perform tasks in supporting and making decisions on the filed of technology management.
3. Take the responsibility for the decisions he/she made in the field of technology management.
4. When entering into a professional work community, are able to perform and manage complex tasks in accordance with the professional expectations there.
5. are able to organize its work and the activities of the employees working under its management with the independence and responsibility corresponding to its place in the organizational structure.
6. are independent, constructive and assertive in forms of cooperation inside and outside the institution.

Teaching methodology

Lectures

Materials supporting learning

- Tankönyvek, jegyzetek, letölthető anyagok – textbooks, notes, downloadable materials
- Pataki B.: Technomenedzsment. L'Harmattan Kiadó, Budapest, 2014
- Kövesi J.: Menedzsment- és Vállalkozásgazdaságtan. Typotex, Budapest, 2015

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

The assessment of the learning outcomes formulated in point 2.2

Performance assessment methods

Detailed description of the performance evaluation carried out during the term: The condition for the signature is to give in a homework assignment. The task is a concise presentation of an article on technology management (1 piece) in English or Hungarian, the expected scope of which, together with spaces, is approx. 2500-3000 characters. Detailed description of the performance evaluation carreid out during the exam period: 60 minutes 100 points written exam Exam parts: Various tasks - short essay questions, multiple choice questions, etc.

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

- **-**: -

Percentage of exam elements within the rating

- **written exam** : 100%

Conditions for obtaining a signature, validity of the signature

The condition for the signature is to give in a homework assignment. The task is a concise presentation of an article on technology management (1 piece) in English or Hungarian, the expected scope of which, together with spaces, is approx. 2500-3000 characters.

Issuing grades

Excellent	95-100%
Very good	89–94%
Good	76–88%
Satisfactory	63–75%
Pass	50–62%
Fail	0-49%

Retake and late completion

According to the Code of Studies (121 and 123 §).

Coursework required for the completion of the subject

participation on contact hours	4x5=20
contiuous learning	4x5=20
preparation for the exam	110

Approval and validity of subject requirements

0

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

1. Definition and trends of management, connections between Leadership - Governance 2. Functions of management (planning, organizing,
leading, controlling) 3. Technology, science, technology concept and relationship. Technology typologies. 4. The concept of technology management. The role of technology management, its areas of operation, its tasks in the organization, its relations with other areas. 5. Technological life cycles 6. Management misconceptions about new technologies. Factory life cycles. 7. Fundamentals of Innovation Management 8.
Product Innovation Management.

1	1. Definition and trends of management, connections between Leadership - Governance
2	2. Functions of management (planning, organizing, leading, controlling)
3	3. Technology, science, technology concept and relationship. Technology typologies.
4	4. The concept of technology management. The role of technology management, its areas of operation, its tasks in the organization, its relations with other areas.
5	5. Technological life cycles
6	6. Management misconceptions about new technologies. Factory life cycles.
7	7. Fundamentals of Innovation Management
8	8. Product Innovation Management.

Additional lecturers

Sándorfi Gergő Álmos/Gergő Álmos Sándorfi PhD hallgató/PhD student sandorfi.gergo.almos@gtk.bme.hu

Approval and validity of subject requirements

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