



SUBJECT DATASHEET

PROJECT MANAGEMENT

BMEGT20ML72

I. SUBJECT DESCRIPTION

1. SUBJECT DATA

Subject name

PROJECT MANAGEMENT

ID (subject code)

BMEGT20ML72

Type of subject

contact lessons

Course types and lessons

<i>Type</i>	<i>Lessons</i>
Lecture	2
Practice	0
Laboratory	0

Type of assessment

exam grade

Number of credits

5

Subject Coordinator

<i>Name</i>	<i>Position</i>	<i>Contact details</i>
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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

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: 5881478/13/2024 registration number. Valid from: 11.12.2024.

2. OBJECTIVES AND LEARNING OUTCOMES

Objectives

The aim of the course is to present the terminology, tools and techniques of project management. The curriculum briefly summarizes, in a structured way, the knowledge required to manage a project within the framework of the subject. The course also emphasizes the presentation of practical solutions (software).

Academic results

Knowledge

1. Know the modern, theoretically demanding mathematical-statistical and modeling methods of problem recognition, formulation, and solution, information collection and processing, as well as their limitations.
2. Know the planning and management rules of the enterprise or other organization.
3. Know the most important monitoring techniques.
4. Understand how a prevalent project management software works.

Skills

1. Formulate independent new conclusions, original ideas and solutions. They are able to apply demanding analysis and modeling methods, to develop strategies for solving complex problems, to make decisions.
2. Are able to identify special professional problems with a multifaceted, interdisciplinary approach, as well as to explore and formulate the detailed theoretical and practical background.
3. Develop an individual position based on her own analysis and defend it in a debate. They are able to develop strategies for solving complex problems, to plan the solution, to make decisions.
4. Participate in management processes, projects, group task solutions. As a leader plans, directs, organizes, coordinates and evaluates the activity. Able to manage and operate her own business with the knowledge and experience gained.
5. Can perform a comprehensive analysis using standard monitoring techniques (e.g., EVM).
6. Can plan a project using project management software.

Attitude

1. Are critical of their own work and their subordinates', and show innovative and proactive behavior in dealing with economic problems. Are open and inclusive of new achievements in economics and practice.
2. Strive to improve its knowledge and working relationships, and encourages, helps and supports its employees and sub-ordinates.
3. Are open and inclusive to new achievements in economics and practice.
4. Turn with interest to the results and solutions of related disciplines, open to relationship building.
5. Are committed to quality work. In a project, in the case of group tasks, they are self-confident, constructive, cooperative, proactive, tolerant and inclusive.
6. Are motivated in planning their professional career to increase professional and social knowledge and well-being.

Independence and responsibility

1. Independently select and apply the relevant problem-solving methods in areas of organizational policy, strategy and management.
2. Take responsibility for his own work, for the organization she manages, for her business, for her employees.
3. Perform economic analysis, decision preparation and consulting tasks independently.
4. Involve in research and development projects, mobilizes her theoretical and practical knowledge and skills in the project group in an autonomous way, in cooperation with the other members of the group.

Teaching methodology

Lectures, calculations, optional tasks.

Materials supporting learning

- Sebestyén Z.: Projektmenedzsment, oktatási segédlet, 2018

II. SUBJECT REQUIREMENTS

TESTING AND ASSESSMENT OF LEARNING PERFORMANCE

General Rules

A 2.2. pontban megfogalmazott tanulási eredmények értékelése a szorgalmi időszakban egy esettanulmány kidolgozásával és a vizsgaidőszakban írásbeli vizsgával történik.

Performance assessment methods

A. Szorgalmi időszakban végzett teljesítményértékelések részletes leírása: Egy valós projekthez kapcsolódó esettanulmányt csoportos kidolgozása. B. Vizsgaidőszakban végzett teljesítményértékelés (vizsga) A vizsga elemei: Írásbeli teljesítményértékelés. A félév során érintett témakörök elméleti háttérének és gyakorlati alkalmazásának ellenőrzése.

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

- esettanulmány: 100
- összesen: 100

Percentage of exam elements within the rating

- írásbeli vizsga: 90
- esettanulmány: 10
- összesen: 100

Conditions for obtaining a signature, validity of the signature

Az aláírás feltétele az esettanulmány sikeres kidolgozása.

Issuing grades

Excellent	95
Very good	90-94
Good	75-89
Satisfactory	60-74
Pass	50-59
Fail	0-49

Retake and late completion

A TVSZ szabályainak megfelelően. Az esettanulmány nem pótolható.

Coursework required for the completion of the subject

részvétel a kontakt tanórákon	24
esettanulmány elkészítése	60
vizsgafelkészülés	66
Összesen	150

Approval and validity of subject requirements

Consulted with the Faculty Student Representative Committee, approved by the Vice Dean for Education, valid from: 04.11.2024.

III. COURSE CURRICULUM

THEMATIC UNITS AND FURTHER DETAILS

Topics covered during the term

- 1 Projektfázisok jellemzői, a projektélelciklus és a termékélelciklus kapcsolata.
- 2 Folyamatok, folyamatsoportok. Projektsiker.
- 3 Főbb dokumentumok: projektalapító okirat, előzetes projektterjedelem-leírás, projektmenedzsmentterv.
- 4 Élelciklus szerinti elemzés. Szereplők, szerepek. Szervezeti kérdések: személyzetmenedzsment-terv, szervezeti formák, emberi erőforrás tervezés eszközei.
- 5 Hálótervezés: hálóelméleti alapok, munkalebontási szerkezet, függőség meghatározása, megelőzési és követési listák, hálók felrajzolása és elemzése.
- 6 CPM, PERT.
- 7 MPM, GERT.
- 8 Becslés: hibák, szabályok, pontosság, három szintje, általános technikák.
- 9 Erőforrások: terhelés, S-görbe, erőforrás-allokálás.
- 10 Nyomon követés: EVM, ES.
- 11 Kockázat: kvalitatív és kvantitatív kockázatelemzés. Szerződéstípusok. Versenyeztetés. Projektportfólió-menedzsment: definíció, lépések, rangsorolás, nyomon követés.
- 12 Projektmenedzsment szoftveres gyakorlat.

Additional lecturers

Approval and validity of subject requirements