

I. Subject Specification

1. Basic Data

1.1 Title

Közlekedési stratégiai tervezés

1.2 Code

BMEEOUVPU-1

1.3 Type

Module with associated contact hours

1.4 Contact hours

Type	Hours/week / (days)
Lecture	2
Seminar	1

1.5 Evaluation

Midterm grade

1.6 Credits

4

1.7 Coordinator

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academic rank	Associate professor
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1.8 Department

Department of Highway and Railway Engineering

1.9 Website

<https://epito.bme.hu/BMEEOUVMU-1>
<https://fiek2.mywire.org/course/view.php?id=3611>

1.10 Language of instruction

hungarian and english

1.11 Curriculum requirements

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1.12 Prerequisites

1.13 Effective date

1 September 2022

2. Objectives and learning outcomes

2.1 Objectives

The aim of the course is to familiarize the student with the process of strategic planning, to know the how and how to prepare strategies and concepts, to carry out a feasibility study, manage design teams and present the finished results.

2.2 Learning outcomes

Upon successful completion of this subject, the student:

A. Knowledge

1. know the design process, its elements
2. know the basics of project management related to planning tasks
3. familiar with the process and framework of strategic planning
4. familiar with the process and framework for the development of target systems and indicators
5. familiar with the methodology of strategy and conception
6. familiar with the methodology for the qualification and ranking of projects
7. know how to draw up an action plan
8. familiar with the concepts of drawing up financial plans
9. familiar with the methodology of risk analysis
10. familiar with the process and framework for carrying out feasibility studies
11. familiar with the process of compiling the evaluation methodology
12. familiar with the methodology of traffic and accident analysis of individual installations
13. knowledge of the basics of financial and economic analyses related to feasibility studies

B. Skills

1. able to organize a design cooperation
2. able to understand the process of drawing up strategic plans
3. define the tasks needed to prepare strategic plans
4. suitable for participation in the preparation of strategic plans
5. capable of performing strategic planning-related analyses
6. the ability to develop rating systems related to strategic planning
7. capable of developing strategies and concepts
8. able to prioritize projects
9. the ability to form action plans
10. able to analyze the risks associated with strategic plans
11. able to understand the process of carrying out feasibility studies
12. identify the tasks needed to carry out feasibility studies
13. suitable for participation in the preparation of feasibility studies, coordination
14. can prepare a qualification framework for feasibility studies
15. be able to carry out traffic analysis of road installations
16. be able to carry out the accident impact tests
17. the ability to understand the financial and economic analyses of the study
18. be able to draw up an organizational and financial framework for implementation

19. Be able to present and accept the plans he has drawn up

C. Attitudes

1. cooperate with the instructor and his fellow students in the course of task solutions,
2. continuously gaining knowledge, expanding his knowledge, professional vocabulary,
3. strives for accurate and error-free task solving,
4. in the course of its manifestations, it strives for precise, professional wording,
5. in its written performance evaluations, it strives to ensure an orderly, engineering-grade and to prepare external documentation.

D. Autonomy and Responsibility

1. prepare responsibly for the successful completion of summary benchmarking,
2. perform to the best of his ability the tasks assigned to him during the sub-performance.
3. evaluations, openly accepts well-founded critical comments

2.3 Methods

Lectures with presentations, exercises at the table, group-prepared home design tasks, which are reports are supplemented by contact hours. Communication in writing and orally (summary benchmarks and reports).

2.4 Course outline

Week	Topics of lectures and/or exercise classes
1.	The process of road design. Design phases, design types. Strategic plans, concepts, feasibility. The role and importance of studies. Project management, design cooperation.
2.	Strategic planning framework, content and format. Requirements. Situational assessment, strategy analysis.
3.	Plan community participation. Priorities definition. Define goals and indicators.
4.	Decision-making methods. Strategy and concept creation. Methodology. Project training.
5.	Structure of the rating system. Qualifications of project. Ranking.
6.	Draw up an action plan. Financial planning. Risk analysis.
7.	Part summaries.
8.	The content and format of the study plans description of the requirements of the company. Link to strategic. Plans. Analysis of the current state.

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9.	Compilation of evaluation methodology.
10.	Create and evaluate variations.
11.	Financial and economic analyses. Traffic and accident analyses. Manage Risks.
12.	The organizational framework for the implementation of the project. The schedule and financial plan for professional implementation.
13.	Part Summaries
14.	Part Summaries

The above programme is tentative and subject to changes due to calendar variations and other reasons specific to the actual semester. Consult the effective detailed course schedule of the course on the subject website.

2.5 Study materials

Assistance:

A projekttervezés módszertana és eszközei:

1. http://www.urb.bme.hu/segedlet/szakmernoki1/2011_12/telternvPDF/PonaczGy2_100329.pdf
2. KÖZOP útmutató <https://www.palyazat.gov.hu/download.php?objectId=22547>
3. Planning Principles and Practices: <http://www.vtpi.org/planning.pdf>

2.6 Other information

1. Participation in lectures and exercises is 70% mandatory. A student who has five or more you cannot obtain the credits of the subject.
2. The accounts cannot be replaced. In order to successfully complete the subject, at least five accounts must be actively participate.

2.7 Consultation

As stated on the department's website

This Subject Datasheet is valid for:

2023/2024 I. félév

II. Subject requirements

Assessment and evaluation of the learning outcomes

3.1 General rules

Evaluation of the learning outcomes set out in point 2.2 is based on two interim written summaries performance evaluation (ZH), two group home tasks (continuous partial performance evaluation) and active participation in contact hours (reports) in connection with these tasks. The grades of those fulfilling the conditions of attendance are determined according to the following criteria:

To obtain the credits of the subject, the scores of the closed-place papers and homework 50%. For the successful completion of the subject, at least 5 reports actively participate.

3.2 Assessment methods

Evaluation form	Abbrev.	Assessed learning outcomes
		A.1-A.13; B.1-B.19; C.1-C.5; D.1-D.3

The dates of deadlines of assignments/homework can be found in the detailed course schedule on the subject's website.

3.3 Evaluation system

Abbreviation	Score
Test1	15%
Test2	15%
HW1	35%
HW2	35%
Sum	100%

3.4 Requirements and validity of signature

You can not obtain a signature from the subject.

3.5 Grading system

Grade	Points (P)
excellent (5)	$80\% \leq P$
good (4)	$70\% \leq P < 80\%$
satisfactory (3)	$60\% \leq P < 70\%$
passed (2)	$50\% \leq P < 60\%$
failed (1)	$P < 50\%$

3.6 Retake and repeat

1. In addition to paying the fee specified in the rules, home tasks are delayed in half-yearly schedule" may be submitted at specific times.

2. The activity shown in the Reports is also an integral part of the home task, and this can not be replaced.
3. For the first time, the summary benchmarking can be replaced or repaired free of charge at any time. In the case of repairs, the new result overwrites it in all cases.
4. If the student is unable to obtain a grade other than insufficient by replacing it in accordance with point 3, for the second time, subject to payment of a fee specified in the improve the first replacement of the failed assessment of performance during the replacement period. Such only one of the failed Test (Test1 or Test2) can be replaced.

3.7 Estimated workload

Activity	Hours/semester
Participation in contact classes	$14 \times 3 = 42$
Prepare for benchmarking	$2 \times 18 = 36$
Create a home task	$2 \times 17 = 34$
Preparing for the reports	$2 \times (4 \times 1) = 8$
Sum	$4 \times 30 = 120$

3.8 Effective date

1 September 2022

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