Transport Infrastructure Management

1. Subject name	Transport Infrastructure Management				
2. Subject name in Hungarian	Közlekedési infrastruktúra menedzsment				
3. Code	**BMEKOKKM228**	4. Evaluation type	**mid-term grade**	5. Credits	**3**
6. Weekly contact hours	**2 (7) Lecture**	**0 (0) Practice**	**0 (0) Lab**		
7. Curriculum	**Transportation Engineering MSc (K)**	8. Role	**Specialization (sp) at Transportation Engineering MSc (K)**		
9. Working hours for fulfilling the requirements of the subject					**90**
Contact hours	28	Preparation for seminars	4	Homework	12
Reading written materials	34	Midterm preparation	12	Exam preparation	0
10. Department	**Department of Transport Technology and Economics**				
11. Responsible lecturer	Dr. Mészáros Ferenc				
12. Lecturers	Dr. Mészáros Ferenc				
13. Prerequisites					

14. Description of lectures

Transport infrastructure and corridor policy of the EU and Hungary, network development strategies and transport policy. Techniques for asset valuation and registration of transport infrastructure. Infrastructure operation and maintenance strategies, adaptation to climate change. Types of operation contracts, risk management techniques. Asset management methods in practice. Case studies related to transport infrastructure management.

15. Description of practices

16. Description of labortory practices

17. Learning outcomes

A. Knowledge

- the student is familiar with the infrastructure and corridor policy of the EU and Hungary, and the methods that can be used for the evaluation and efficient management of infrastructure. The student knows the climate challenges of the transport infrastructure.

B. Skills

- the student is able to select an effective solution for infrastructure management and evaluate its results and impacts.

C. Attitudes

- the student strives for completeness in the acquisition of knowledge, co-operates with the teacher and other students, is open to new and innovative ideas, researches, and uses information technology and computing tools for its work.

D. Autonomy and Responsibility

- the student makes responsible decisions on the efficient management of the infrastructure, asks for the professional opinions of others, and takes care of the challenges responsibly.

18. Requirements, way to determine a grade (obtain a signature)

Requirements: successful completion (min. 50%) of the two midterms, report and submission of the seminar report. Weights of requirements in the mid-term grade: seminar reporting activity (1/3), two midterms (1/3-1/3).

19. Opportunity for repeat/retake and delayed completion

There are retakes from 1st and 2nd midterms, the written report can be delayed completed till end of delayed completion period.

20. Learning materials

Related national and international scientific literature

Effective date	10 October 2019	This Subject Datasheet is valid for	Inactive courses