



1. Subject name	Environmental effects of transport				
2. Subject name in Hungarian	Közlekedési rendszerek környezeti hatásai				
3. Code	BMEKOKUD020	4. Evaluation type	exam grade	5. Credits	2
6. Weekly contact hours	2 (0) Lecture	0 (0) Practice	0 (0) Lab		
7. Curriculum	PhD Programme	8. Role	Specific course		
9. Working hours for fulfilling the requirements of the subject					88
Contact hours	56	Preparation for seminars	5	Homework	6
Reading written materials	8	Midterm preparation	5	Exam preparation	8
10. Department	Department of Transport Technology and Economics				
11. Responsible lecturer	Dr. Török Ádám				
12. Lecturers	Dr. Mészáros Péter				
13. Prerequisites					
14. Description of lectures					
Transport- environment, factors of environmental impact, the problem of sustainability. Mitigation of environmental impacts of transport, regulations, policies, tendencies, practices. Local and international case studies. EIA, decision making, preparation of decisions on the field of transport infrastructure development. Integration of transport and land use policies. Environmental conflicts of freight transport, intermodality and transit policies. Environmental costs of transport, the case of externalities, prices and charges. Urban transport, opportunities of sustainable urban environmental management, integration of environmentally sound mobility forms. Sustainable Urban Mobility Plans. Demand management, parking and road charges. Requirements of fuel efficiency, alternative fuels, energy efficient and environmentally enhanced vehicles.					
15. Description of practices					
16. Description of laboratory practices					
17. Learning outcomes					
A. Knowledge B. Skills					
<ul style="list-style-type: none">• The student gets acquainted with the environmental factors of the environment, its impact processes, the problem of sustainability.• It will be able to identify, quantify and mitigate the environmental impacts of transport. Learn about the direction of regulations, policies, and trends.• With the help of domestic and international examples, case studies open their minds.					
C. Attitudes D. Autonomy and Responsibility					
18. Requirements, way to determine a grade (obtain a signature)					
It is required to fulfill in time the individual student work.					
19. Opportunity for repeat/retake and delayed completion					
The attendance requirements cannot be delayed completed. The individual case study report can be delayed submitted in the delayed completion period.					
20. Learning materials					
YOSHITSUGU HAYASHI, JOHN ROY: Transport, Land-Use and the Environment - Springer					
Effective date	27 November 2019	This Subject Datasheet is valid for		2023/2024 semester I	