



1. Subject name	Transport modelling				
2. Subject name in Hungarian	Forgalmi modellezés				
3. Code	BMEKOKKM229	4. Evaluation type	exam grade	5. Credits	6
6. Weekly contact hours	1 (5) Lecture	0 (0) Practice	3 (16) 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					180
Contact hours	56	Preparation for seminars	30	Homework	30
Reading written materials	24	Midterm preparation	20	Exam preparation	20
10. Department	Department of Transport Technology and Economics				
11. Responsible lecturer	Dr. Tóth János				
12. Lecturers	Aba Attila, Mátrai Tamás				
13. Prerequisites					
14. Description of lectures					
Basics of transport modelling. Process of transport network planning and application in VISUM szoftver. Traffic assignment models and their parameters. Network model, demand modell, impact model. Methods of traffic assignment in private and public transport. The theory of applied softwares. Microscopic modelling with VISSIM software. Traffic analyzing in a junction model.					
15. Description of practices					
16. Description of labortory practices					
In the framework of individual work a modelling task is prepared.					
17. Learning outcomes					
A. Knowledge <ul style="list-style-type: none">Familiar with the basics of micro and macro modelling. B. Skills <ul style="list-style-type: none">Able to use the softwares and apply modelling methodologies. C. Attitudes <ul style="list-style-type: none">Attempts to routinely use modelling technics. D. Autonomy and Responsibility <ul style="list-style-type: none">Use softwares independently and responsibly.					
18. Requirements, way to determine a grade (obtain a signature)					
Signature: 1 midterm test from the macromodelling and 1 midterm test from micromodelling, 2 homeworks, 1 presentation about homeworks. Final grade equals to the result of written exam.					
19. Opportunity for repeat/retake and delayed completion					
Both midterm test correction possibility and possibility of delayed deadline for home work.					
20. Learning materials					
Presentation slides, manual of softwares.					
Effective date	10 October 2019	This Subject Datasheet is valid for		Inactive courses	