



1. Subject name	Railway technology				
2. Subject name in Hungarian	Vasúti üzemtan (PhD)				
3. Code	BMEKOKKD010	4. Evaluation type	exam grade	5. Credits	3
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					90
Contact hours	28	Preparation for seminars	6	Homework	24
Reading written materials	6	Midterm preparation	16	Exam preparation	10
10. Department	Department of Transport Technology and Economics				
11. Responsible lecturer	Dr. Mándoki Péter				
12. Lecturers	Dr. Mándoki Péter				
13. Prerequisites					
14. Description of lectures					
The role of railway stations in railway opertaion. Specific properties of railway infrastructure and vehicles. Shedule planning of passenger and freight transport. Organizing of rail transport, intermodality connection. Description of flat shunting technologies. Shunting yards. Creating a stationary work plan. Control of train traffic in different train transport technologies. Shedule planning. Planning of engine, trains and cres turns.					
15. Description of practices					
16. Description of labortory practices					
17. Learning outcomes					
A. Knowledge <ul style="list-style-type: none">The student knows the characteristics and planning techniques of railway operation. B. Skills <ul style="list-style-type: none">Ability to dealing with creative problems in the field of transport and flexible solutions to complex tasks. Able to plan the railway opertaion (stations and lines). Able to working in a group, sharing tasks and managing them over time. C. Attitudes <ul style="list-style-type: none">Attitude: engages in professional and ethical values related to the technical field, and works based on a system-oriented and process-oriented mindset, in a team-work. D. Autonomy and Responsibility <ul style="list-style-type: none">Make his decisions carefully, in consultation with representatives of other fields of expertise, with full responsibility.					
18. Requirements, way to determine a grade (obtain a signature)					
Defendse of semester task and oral examination					
19. Opportunity for repeat/retake and delayed completion					
Unsuccessful task can be replaced during the replacement period					
20. Learning materials					
Uploaded materials to theMoodle System and the Department website.					
Effective date	27 November 2019	This Subject Datasheet is valid for		Inactive courses	