



<b>1. Subject name</b>	<b>Railway technology</b>				
<b>2. Subject name in Hungarian</b>	Vasúti üzemtan (PhD)				
<b>3. Code</b>	<b>BMEKOKKD010</b>	<b>4. Evaluation type</b>	<b>exam grade</b>	<b>5. Credits</b>	<b>3</b>
<b>6. Weekly contact hours</b>	<b>2 (0) Lecture</b>	<b>0 (0) Practice</b>	<b>0 (0) Lab</b>		
<b>7. Curriculum</b>	<b>PhD Programme</b>	<b>8. Role</b>	<b>Specific course</b>		
<b>9. Working hours for fulfilling the requirements of the subject</b>					<b>90</b>
<b>Contact hours</b>	28	<b>Preparation for seminars</b>	6	<b>Homework</b>	24
<b>Reading written materials</b>	6	<b>Midterm preparation</b>	16	<b>Exam preparation</b>	10
<b>10. Department</b>	<b>Department of Transport Technology and Economics</b>				
<b>11. Responsible lecturer</b>	Dr. Mándoki Péter				
<b>12. Lecturers</b>	Dr. Mándoki Péter				
<b>13. Prerequisites</b>					
<b>14. Description of lectures</b>	<p>The role of railway stations in railway operation. Specific properties of railway infrastructure and vehicles. Schedule 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. Schedule planning. Planning of engine, trains and cres turns.</p>				
<b>15. Description of practices</b>					
<b>16. Description of laboratory practices</b>					
<b>17. Learning outcomes</b>	<p>A. Knowledge</p> <ul style="list-style-type: none"> <li>The student knows the characteristics and planning techniques of railway operation.</li> </ul> <p>B. Skills</p> <ul style="list-style-type: none"> <li>Ability to dealing with creative problems in the field of transport and flexible solutions to complex tasks. Able to plan the railway operation (stations and lines). Able to working in a group, sharing tasks and managing them over time.</li> </ul> <p>C. Attitudes</p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p>D. Autonomy and Responsibility</p> <ul style="list-style-type: none"> <li>Make his decisions carefully, in consultation with representatives of other fields of expertise, with full responsibility.</li> </ul>				
<b>18. Requirements, way to determine a grade (obtain a signature)</b>	Defendse of semester task and oral examination				
<b>19. Opportunity for repeat/retake and delayed completion</b>	Unsuccessful task can be replaced during the replacement period				
<b>20. Learning materials</b>	Uploaded materials to the Moodle System and the Department website.				
<b>Effective date</b>	27 November 2019	<b>This Subject Datasheet is valid for</b>	Inactive courses		