



<b>1. Subject name</b>	<b>Superstructure preliminary design</b>				
<b>2. Subject name in Hungarian</b>	Felépítmény előtervezés				
<b>3. Code</b>	<b>BMEKOJSM664</b>	<b>4. Evaluation type</b>	exam grade	<b>5. Credits</b>	4
<b>6. Weekly contact hours</b>	2 (10) Lecture	0 (0) Practice	2 (11) Lab		
<b>7. Curriculum</b>	Vehicle Engineering MSc (J)	<b>8. Role</b>	Specialization (sp) at Vehicle Engineering MSc (J)		
<b>9. Working hours for fulfilling the requirements of the subject</b>					<b>120</b>
<b>Contact hours</b>	56	<b>Preparation for seminars</b>	18	<b>Homework</b>	20
<b>Reading written materials</b>	12	<b>Midterm preparation</b>	4	<b>Exam preparation</b>	10
<b>10. Department</b>	<b>Department of Railway Vehicles and Vehicle System Analysis</b>				
<b>11. Responsible lecturer</b>	Dr. Lovas László				
<b>12. Lecturers</b>	Dr. Galambosi Frigyes, Dr. Susánszki Zoltán				
<b>13. Prerequisites</b>	<b>strong: KOJSM662 - Requirements for superstructure designers</b>				
<b>14. Description of lectures</b>					
Construction layouts, special links. Connections among tubular profiles, metal sheets and elastic coverings. Cooperation between vehicle frame and rigid superstructure with special function.					
<b>15. Description of practices</b>					
<b>16. Description of laboratory practices</b>					
Conception of the geometry and kinematics of a given superstructure. Preliminary stress computation with CAD tools.					
<b>17. Learning outcomes</b>					
A. Knowledge					
<ul style="list-style-type: none"> <li>Tools and processes for the vehicle superstructure design.</li> </ul>					
B. Skills					
<ul style="list-style-type: none"> <li>Participation to the superstructure design process, individual realisation of a subtask.</li> </ul>					
C. Attitudes					
<ul style="list-style-type: none"> <li>Taking responsibility towards the society and the employer.</li> </ul>					
D. Autonomy and Responsibility					
<ul style="list-style-type: none"> <li>Creation and evaluation of variants.</li> </ul>					
<b>18. Requirements, way to determine a grade (obtain a signature)</b>					
1 semestrial project work, 1 non-compulsory test, 1 exam. Details for computing the final mark can be find in the subject requirements.					
<b>19. Opportunity for repeat/retake and delayed completion</b>					
Second test possibility for those not present on the test, possibility of delayed deadline for homework					
<b>20. Learning materials</b>					
Lecture notes					
<b>Effective date</b>	10 October 2019	<b>This Subject Datasheet is valid for</b>		Inactive courses	