



1. Subject name	Packaging Technologies				
2. Subject name in Hungarian	Csomagolóstechnika				
3. Code	BMEKOALD005	4. Evaluation type	exam grade	5. Credits	3
6. Weekly contact hours	3 (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	42	Preparation for seminars	7	Homework	30
Reading written materials	11	Midterm preparation	0	Exam preparation	0
10. Department	Department of Material Handling and Logistics Systems				
11. Responsible lecturer	Dr. Kovács Gábor				
12. Lecturers	Dr. Kovács Gábor				
13. Prerequisites					
14. Description of lectures					
The optimization process of unit load (pallet, container, intermodal units e.g.) creation. Computerized packaging design. Optimization of the used packaging materials. The automatized unit-load creation. The used packaging and unit load optimization algorithm.					
15. Description of practices					
16. Description of labortory practices					
17. Learning outcomes					
A. Knowledge <ul style="list-style-type: none"><li>Knowledge of the tasks and problems of the packaging design.</li><li>Knowledge of related optimum search tasks and solutions.</li></ul> B. Skills <ul style="list-style-type: none"><li>Able to study the packaging design tasks, taking into account the scientific requirements.</li><li>Able to carry out research and development tasks related to the packaging technology.</li></ul> C. Attitudes <ul style="list-style-type: none"><li>Strive to maximize their abilities to make their studies at the highest possible level, with a profound and independent knowledge, accurate and error-free, in compliance with the rules of the applicable tools, in collaboration with the instructors.</li></ul> D. Autonomy and Responsibility <ul style="list-style-type: none"><li>Take responsibility for the quality of the work and the ethical standards that set an example for the classmates, using the knowledge acquired during the course.</li></ul>					
18. Requirements, way to determine a grade (obtain a signature)					
The grade of the PhD student is based on the semester activity and the evaluation of the paper (publishing), in consultation with the supervisor.					
19. Opportunity for repeat/retake and delayed completion					
Announced at the beginning of the semester					
20. Learning materials					
Slides and examples in electronic format					
Effective date	27 November 2019	This Subject Datasheet is valid for		Inactive courses	