

Faculty of Transportation Engineering and Vehicle Enginee

1. Subject name	Design o	f material	handling	g machine	design	
2. Subject name in Hungarian	Anyagmozgató gépe	ek tervezése				
3. Code	BMEKOKAM627	4. Evaluation type	exam grade	5. Credits	5	
6. Weekly contact hours	2 (11) Lecture	2 (11) Practice	1 (6) Lab			
7. Curriculum	Vehicle Engineering MSc (J)	8. Role	Specialization (sp) at Vehicle Engineering MSc (J)			
9. Working hours	for fulfilling the req	uirements of the su	ubject	-	150	
Contact hours	70	Preparation for seminars	19	Homework	30	
Reading written materials	11	Midterm preparation	0	Exam preparation	20	
10. Department	Department of Material Handling and Logistics Systems					
11. Responsible lecturer	Dr. Bohács Gábor					
12. Lecturers	Odonics Boglárka, Győrváry Zsolt					
13. Prerequisites						
14. Description of	lectures					
Design issues and standardization background for material handling machines. Bulk materials, modeling and testing capabilities. Methods for determining the carrying capacity and performance requirements of bulk material handling machines. Design of discontinuous operating material handling machines, with particular reference to hoisting machines (cranes, forklifts).						
15. Description of practices						
Construction of lifting mechanism, drive mechanism and conveyors						
16. Description of labortory practices						
Laboratory Measurements: testing of Bulk Materials, portal Crane Measurement, measurement of grid structures, dynamic Test with lifted load						
17. Learning outcomes						
 A. Knowledge Knowledge of equipment that makes up material handling systems. Knowledge of equipment design relationships. B. Skills Ability to apply the above knowledge and related professional knowledge in the design of new equipment / components. C. Attitudes 						
 Strives to provide with the best knowledge and skills to work with the instructors. D. Autonomy and Responsibility In the use of the acquired knowledge the student carries out independent responsible engineering work 						
18. Requirements, way to determine a grade (obtain a signature)						
The requirement of the signature is to fulfill the homeworks and the acceptance of test protocols. The homework (30%), the exam result (70%) are included in the final grade.						
19. Opportunity for repeat/retake and delayed completion						

The homeworks' final submission and the albor practices can both be retaken once each.

20. Learning materials

Students can download the subject notes in pdf format via Moodle.

Effective date	10 October 2019	This Subject Datasheet is valid for	Inactive courses
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