1. Subject name	**Design of material handling machines - project**				
2. Subject name in Hungarian	Anyagmozgatógép projekt				
3. Code	**BMEKOALM643**	4. Evaluation type	**mid-term grade**	5. Credits	**5**
6. Weekly contact hours	**2 (10) Lecture**	**2 (11) Practice**	**0 (0) Lab**		
7. Curriculum	**Vehicle Engineering MSc (J)**	8. Role	**Specialization (sp) at Vehicle Engineering MSc (J)**		
9. Working hours for fulfilling the requirements of the subject					**150**
Contact hours	56	Preparation for seminars	12	Homework	30
Reading written materials	32	Midterm preparation	0	Exam preparation	20
10. Department	**Department of Material Handling and Logistics Systems**				
11. Responsible lecturer	Dr. Bohács Gábor				
12. Lecturers	Gáspár Dániel, Szabó Péter, Odonics Boglárka				
13. Prerequisites					

14. Description of lectures

Material handling machine design project goal, steps, documents. Theoretical basics of scaling of material handling machines, presentation of the relevant standardization background. Overview of scales for lifting machines. Conditions for installing conveyor systems. Based on the special demands of the industry's machines, solving a complex machine design task.

15. Description of practices

Presentations are presented in the context of examples. Consultation on planning task.

16. Description of labortory practices

17. Learning outcomes

A. Knowledge
- Knowledge of materials handling systems projects in terms of structure and activities.

B. Skills
- He is able to assess solutions to a certain problem.
- Capable of implementing his work in the framework of a project.
- He is able to support the planning and research and development processes.

C. Attitudes
- 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.

D. Autonomy and Responsibility
- Takes 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.

18. Requirements, way to determine a grade (obtain a signature)

Midterm grade: submitting 1 homework and presentation of homework. Final grade comes from the final presentation (50%) and from the documentation (50%).

19. Opportunity for repeat/retake and delayed completion

The projects final submission can 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