1. Subject name	**Automated vehicle design project**				
2. Subject name in Hungarian	Autonóm jármű projektfeladat				
3. Code	**BMEKOGGM710**	4. Evaluation type	**exam grade**	5. Credits	**6**
6. Weekly contact hours	**2 (28) Lecture**	**0 (0) Practice**	**2 (28) Lab**		
7. Curriculum	**Autonomous Vehicle Control Engineering MSc (A)**	8. Role	**Mandatory (mc) at Autonomous Vehicle Control Engineering MSc (A)**		
9. Working hours for fulfilling the requirements of the subject					**180**
Contact hours	56	Preparation for seminars	0	Homework	64
Reading written materials	40	Midterm preparation	0	Exam preparation	20
10. Department	**Department of Automotive Technologies**				
11. Responsible lecturer	Dr. Gáspár Péter				
12. Lecturers	Dr. Szalay Zsolt, Dr. Bécsi Tamás, Dr. Aradi Szilárd				
13. Prerequisites					

14. Description of lectures

The aim of the course is to apply the knowledge gained by the previous courses through the elaboration of an individual or group project. The students choose from an well described problem group of the automated vehicles, and after studying the problem, they design a solution for it. The elaboration of the task goes through the stages of specification, state of the art study, algorithm design, implementation, documentation and end-semester presentation. The classes of the projects aim the elaboration of the project, the supervision of the progress, and consultation.

15. Description of practices

16. Description of labortory practices

During the lab exercises, the task is to consult with the instructor and check the progress.

17. Learning outcomes

A. Knowledge

B. Skills

- capable of breaking down a project task into elements based on specification
- is able to design a development process
- is able to track and document a development process

C. Attitudes

- open to self-development tasks

D. Autonomy and Responsibility

- is able to make responsible decisions in a development projec

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

The completed and documented work will be presented by the student at the end of the semester. The prerequisite of the exam is the succesful fulfilment of the individual task.

19. Opportunity for repeat/retake and delayed completion

The individual task cannot be delayed completed.

20. Learning materials

Effective date	10 October 2019	This Subject Datasheet is valid for	2023/2024 semester II