



1. Subject name	Security of connected vehicles				
2. Subject name in Hungarian	Hálózatba kapcsolt gépjárművek biztonsága				
3. Code	BMEKOGGD802	4. Evaluation type	exam grade	5. Credits	4
6. Weekly contact hours	2 (0) Lecture	0 (0) Practice	0 (0) Lab		
7. Curriculum	PhD Programme	8. Role	Basic course		
9. Working hours for fulfilling the requirements of the subject					120
Contact hours	28	Preparation for seminars	14	Homework	22
Reading written materials	26	Midterm preparation	30	Exam preparation	0
10. Department	Department of Automotive Technologies				
11. Responsible lecturer	Dr. Török Árpád				
12. Lecturers	Dr. Török Árpád				
13. Prerequisites					
14. Description of lectures	Development of basic processes related to the operation of networked vehicles, V2x communication, information transfer / data packets, innovative technologies in networks. Developing novel and innovative malicious interventions and detection methods. Explore deeper connections in the process of approving vehicle safety systems and assessing the safety risks associated with networked vehicles.				
15. Description of practices					
16. Description of laboratory practices					
17. Learning outcomes	A. Knowledge <ul style="list-style-type: none">Familiar with connected vehicle systems. B. Skills <ul style="list-style-type: none">Ability to research and develop specific processes. C. Attitudes <ul style="list-style-type: none">Openness to new opportunities in the field. D. Autonomy and Responsibility <ul style="list-style-type: none">Participate in independent research task.				
18. Requirements, way to determine a grade (obtain a signature)	The acquisition of the signature of the subject, and, in addition, the condition of taking exam is giving in the complete individual student homework for deadline. The exam is oral.				
19. Opportunity for repeat/retake and delayed completion					
20. Learning materials	Lemke, K., Paar, C., & Wolf, M. (2006). Embedded security in cars. Springer-Verlag Berlin Heidelberg.				
Effective date	27 November 2019	This Subject Datasheet is valid for	Inactive courses		