



1. Subject name	Automotive R&D processes and quality systems				
2. Subject name in Hungarian	Autóipari K+F folyamatok és minőségügyi rendszerek				
3. Code	BMEKOGGM711	4. Evaluation type	mid-term grade	5. Credits	4
6. Weekly contact hours	3 (42) Lecture	0 (0) Practice	0 (0) Lab		
7. Curriculum	Autonomous Vehicle Control Engineering MSc (A)	8. Role	Elective (ec) at Autonomous Vehicle Control Engineering MSc (A)		
9. Working hours for fulfilling the requirements of the subject					120
Contact hours	42	Preparation for seminars	20	Homework	0
Reading written materials	38	Midterm preparation	20	Exam preparation	0
10. Department	Department of Automotive Technologies				
11. Responsible lecturer	Dr. Szalay Zsolt				
12. Lecturers	Wahl István				
13. Prerequisites					
14. Description of lectures					
The aim of the course is to familiarize students with the processes used in the automotive industry, research and development, and the relevant regulations. Students will gain insight into the standards and process models required by the automotive industry for development processes. Within the framework of the course, students can get acquainted with the individual elements of the flow, their structure and their relationships. In addition, students can learn about quality methods that support development. Presentation of the life cycle of vehicle development. Quality assurance during vehicle development, control points and models Product and process testing Automotive Qualification Management Standards, Audits (IATF16949) Software Development Processes, Graduation Models (Automotive SPICE) Manage your requirements Application of FMEA in product design Projektmenedzsment Change management Software development processes Testing processes Supplier quality control Configuration management					
15. Description of practices					
16. Description of laboratory practices					
17. Learning outcomes					

A. Knowledge

- is familiar with standard solutions for automotive research development processes, taking into account life cycle planning and quality assurance aspects
- knows the automotive quality management standards
- know project and change management processes
- is familiar with testing and supplier control processes

B. Skills

- is able to engage in automotive development, understand its project structure
- is able to design and implement a project management project for automotive development

C. Attitudes

- open to work on a project-based approach
- open to work in team

D. Autonomy and Responsibility

- responsible for the work done

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

One midterm exam, which determines the final grade.

19. Opportunity for repeat/retake and delayed completion

The midterm exam can be retried once

20. Learning materials

Lecture Notes

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