



1. Subject name	Automotive R&D processes and quality systems
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2. Subject name in Hungarian	Autóipari K+F folyamatok és minőségügyi rendszerek
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3. Code	BMEKOGGM711	4. Evaluation type	mid-term grade	5. Credits	4
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6. Weekly contact hours	3 (42) Lecture	0 (0) Practice	0 (0) Lab
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7. Curriculum	Autonomous Vehicle Control Engineering MSc (A)	8. Role	Elective (ec) at Autonomous Vehicle Control Engineering MSc (A)
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9. Working hours for fulfilling the requirements of the subject					120
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Contact hours	42	Preparation for seminars	20	Homework	0
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Reading written materials	38	Midterm preparation	20	Exam preparation	0
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10. Department	Department of Automotive Technologies
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11. Responsible lecturer	Dr. Szalay Zsolt
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12. Lecturers	Wahl István
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13. Prerequisites	
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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
