



1. Subject name	Production process quality assurance in the vehicle industry				
2. Subject name in Hungarian	Járműipari gyártási folyamatok minőségbiztosítása				
3. Code	BMEKOGGM611	4. Evaluation type	mid-term grade	5. Credits	2
6. Weekly contact hours	2 (7) Lecture	0 (0) Practice	0 (0) Lab		
7. Curriculum	Vehicle Engineering MSc (J)	8. Role	Mandatory (mc) at Vehicle Engineering MSc (J)		
9. Working hours for fulfilling the requirements of the subject					60
Contact hours	28	Preparation for seminars	4	Homework	0
Reading written materials	22	Midterm preparation	6	Exam preparation	0
10. Department	Department of Automotive Technologies				
11. Responsible lecturer	Dr. Markovits Tamás				
12. Lecturers	Ászity Sándor				
13. Prerequisites					
14. Description of lectures					
Automotive Production Systems and Quality Assurance System - transition from mass production to customer demand production. Custom manufacture, mass production, customer order production Quality standards - ISO 9001, TS16949 and other automotive quality assurance standards Quality Production System Principles - Manufacturing Basics Determined, Business Premises Management Quality Notes Quality Cost - Quality Role in Marketing and Corporate Strategy. The magic triangle is quality, cost, and regulation. Value approach and main losses Continuous Quality - PDCA Cycle: Data Collection, Analysis, Measurement and Standardization, Problem Solving at the Reason, A3 Circuit, Control Plan Example - Automatic translation of the original Poka Yoke Employee involvement - team work and characteristics of interest Statistical Methods - SPC, Six Sigma, FMEA Quality Flow Crawl (QVSM) Quality and Logo - Just in Time and Just in Sequence					
15. Description of practices					
16. Description of laboratory practices					
17. Learning outcomes					
A. Knowledge <ul style="list-style-type: none"><li>Know the quality processes in the automotive industry</li></ul> B. Skills <ul style="list-style-type: none"><li>Able to use the quality tools</li></ul> C. Attitudes <ul style="list-style-type: none"><li>Openness to the new possibilities of the field</li></ul> D. Autonomy and Responsibility <ul style="list-style-type: none"><li>Participate in individual problem solving</li></ul>					
18. Requirements, way to determine a grade (obtain a signature)					

During the semester 1 midterm test has to be completed with more the 50 % of the maximal points.

The conditions for obtaining the credits are the completing the midterm test. The mark of the subject will be the result of midterm test.

### 19. Opportunity for repeat/retake and delayed completion

The midterm test can be retaken once.

### 20. Learning materials

Slides and presentation notes

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