

<b>Óbuda University</b> <b>Donát Bánki Faculty of Mechanical and Safety Engineering</b>		<b>Institute of Machine Design and Safety Engineering</b>		
<b>Name of the subject: Requirements and quality in vehicle engineering BGBMJ1KTNC</b>				<b>Credit: 2</b>
<i>English language course 2016/2017. autumn semester valid until recalled</i>				
Mechatronics BSc (optional)				
Subject leader:	Dr. Tímea Lázár-Fülep	Lecturer:	Dr. Tímea Lázár-Fülep	
Prerequisites:	-			
Weekly hours: 2	Lecture: 2	Group seminar: 0	Lab: 0	Consultation:
Requirements (s,v,f):	f – mid-term test			
<b>Course description:</b>				
Introduction to the basic principles of quality management, particularly to the legal and economic environment, customer-oriented quality management systems, acquiring knowledge in connection with the use of fundamental methods, tools and procedures, with an emphasis on quality approach indispensable for efficient, economic and competitive market participation and social effects.				
<b>Schedule:</b>				
Week	Topic			
1-2.	Objective, significance and importance of the quality control.			
3.-4.	Development and characteristics of quality management systems in large economic regions; standard-based quality management systems and their role.			
5.-6.	Legal framework of quality management, regulators of quality management; certification and auditing.			
7.-8.	ISO 9000 family of standards, industrial standards of quality control, QS9000 and TS16949 standards, environment management systems, integrated quality management systems, process-integrated quality management system, quality awards.			
9.-10.	TQM; self-checking; team-culture, project-culture, project management, continuous improvement.			
11.-12.	Economic aspects of quality management.			
13.	Student lectures.			
14.	Mid-term test.			
15.	Repeated test. Signatures and mid-term marks.			
<b>Conditions for the signature:</b>				
The mid-term test must be written or a lecture must be given based on the given topics provided by the subject leader. If the test or the repeated test are not accepted and no lecture was given, then the semester is invalid and no signature will be given.				
<b>Recommended books and notes:</b>				
1.	Beasley, M.: Reliability for engineers: An introduction, Macmillan Press Ltd., 1991.			
2.	Thompson, G.: Improving maintainability and reliability through design, Professional Engineering Publishing, London, 1999.			
3.	Tímea Fülep: Design Methods of Safety-Critical Electronic Automotive Systems - Quality – Requirement – Reliability, LAP Lambert Academic Publishing, 2012			

Date: 07. 04. 2016.

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subject leader