Óbuda University Donát Bánki Faculty of Mechanical and Safety Engineering		Institute of Machine Design and Safety Engineering	
	et: Design of quality in safety-critical vehicle		
	ourse 2014/2015, spring semester valid until red	<mark>called</mark>	
Mechatronics BSc (<u>, </u>	D. T I. / Eul	
Subject leader:	Dr. Tímea Lázár-Fülep Lecturer:	Dr. Tímea Lázár-Fülep	
Prerequsites:	<u>-</u>		
Weekly hours: 2		b: 0 Consultation:	
Requirements (s,v,f)			
Inter-decident	Course description:		
	irements of certain safety-critical vehicle syste are mostly applied during automotive development		
procedures, which a	Schedule:	ent processes.	
Week		opic	
1-2.	Safety and reliability – fundamentals, relations.		
34.	Intelligent and safety-critical vehicle systems and their role in traffic.		
56.	Introduction to electronic system reliability.		
78.	Introduction of requirements and related relevant standards. Challenge during design: design to safety and reliability.		
910.	Introduction to one of the mostly applied qualitative reliability methods in automotive development process.		
1112.	Introduction to one of the mostly applied quantitative reliability methods in automotive development process.		
13.	Student lectures.		
14.	Mid-term test.		
15.	Repeated test. Signatures and mid-term marks.		
Conditions for the	signature:		
	nust be written or a lecture must be given base	ed on the given topics provided by the subject	
leader. If the test or	the repeated test are not accepted and no lectu	are was given, then the semester is invalid and	
no signature will be			
Recommended boo			
•	Reliability for engineers: An introduction, Macmillan Press Ltd., 1991.		
•	:: Improving maintainability and reliability through design, Professional Engineering		

- Publishing, London, 1999.

 Tímea Fülep: Design Methods of Safety-Critical Electronic Automotive Systems Quality Requirement Reliability, LAP Lambert Academic Publishing, 2012 3.

Date: 07. 04. 2016.	
	subject leader