

Óbuda University Donát Bánki Faculty of Mechanical and Safety Engineering		Institute of Mechanical Engineering and Technology Department of Manufacturing Technology		
Course title and code: Quality management BGXMBE5BNE, BAGMB1ANND, BAGMB1KTNC				Credits: 2
Full-time, 2023/2024 academic year. 1. Semester				
Faculties in which the subject is taught: Donát Bánki Faculty of Mechanical and Safety Engineering				
Lecturer instructor	Gabriella Farkas, PhD		Instructor	Gabriella Farkas, PhD Georgina Nóra Tóth
Prerequisites conditions (code)		-		
Hours per week:	Lecture: 1	Practice: -	Laboratory: 1	Consultation: -
Semester closing way: (required)		é – practice mark		
Curriculum				
The objective of the course: This course gives an overview of the interpretation of the content and factors influencing quality and quality management.				
Schedule				
Educational weeks	Lecture		Exercise	
week 1	-		Quality control tools I.	
week 2	Introducing the basics of quality. Quality management history, models of quality management.		Quality control tools I.	
week 3			Quality control tools II.	
week 4	ISO 9000 family. Quality management systems (OH&S, Safety, Energy, Information).		Quality control tools II.	
week 5	-		Risk assessment tools. Individual task	
week 6	Quality audit. Risk management. TQM, self-evaluation.		Risk assessment tools. Individual task.	
week 7	-		Quality level assessment.	
week 8	Tools and methods in the quality management.		Quality level assessment.	
week 9			Statistical process control in practice.	
week 10	Statistical process control, capability and stability examinations.		Statistical process control in practice.	
week 11	-		Automotive core tools.	
week 12	Automotive supplier standards, quality costs.		Automotive core tools.	
week 13	-		Submission of the reports and presentation/Replacement.	
week 14	Replacement.		Submission of the reports and presentation/Replacement.	
Conditions of getting practice mark: <ul style="list-style-type: none"><li>• compulsory on the 70 % of the exercise classes. Failure of this means no signature for the fulfilment of the semester. No opportunity to retry.</li><li>• successful exercise reports and presentation (max 40 points)</li><li>• successful tests (on every lecture (5 pc); max 60 points)</li></ul>				
Calculation practice mark: tests (min 30 max 60); reports and presentation (0-40) points				
Results: 0-49: 1 (fail); 50-: 62 (pass); 63-75: 3 (satisfactory); 76-88: 4 (good); 89-100: 5 (excellent)				
Bibliography:				
Course book:				
1. László Berényi: Fundamentals of quality management, Lambert Academic Publishing, 2013				
2. Thomas Pyzdek and Paul Keller: The Handbook for Quality Management, Second Edition; A Complete Guide to Operational Excellence; 2013				
3. John Beckford: Quality: A Critical Introduction, Third Edition; Routledge; 3rd edition (October 29, 2009)				
4. Juran, De Feo: Juran's Quality Handbook (6 <sup>th</sup> Edition)				
5. Special documents on the Moodle				
Quality Assurance: using feedback provided by the students for improving content and methods of teaching of the subject.				

Budapest, 12 June 2023

Gabriella Farkas, PhD  
Lecturer instructor