

Óbuda University Donát Bánki Faculty of Mechanical and Safety Engineering			Institute of Mechanical Engineering and Technology Department of Manufacturing Technology		
Course title and code: <i>Quality assurance BGXMBY6BNE, BAGMB1ENND, BAGMB15NEC</i>					Credits: 2
Full-time, 2023/2024 academic year. 1. Semester					
Faculties in which the subject is taught: <i>Donát Bánki Faculty of Mechanical and Safety Engineering</i>					
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">compulsory on the 70 % of the exercise classes. Failure of this means no signature for the fulfilment of the semester. No opportunity to retry.successful exercise reports and presentation (max 40 points)successful tests (on every lecture (5 pc); max 60 points)					
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 th 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