

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, BGXMBE7BNE, BAGMB1ENND, BAGMB1KTNC</i>					Credits: 2
Full-time, 2024/2025 academic year. 2. 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	Introducing the basics of quality. Quality management history, models of quality management.			Teamwork with quality tools.	
week 2				Teamwork with quality tools.	
week 3	ISO 9000 family. Quality management systems (OH&S, Safety, Energy, Information). Quality audit.			Quality control tools.	
week 4				Quality control tools.	
week 5	Tools and methods in quality management. Risk management. TQM, self-evaluation.			Quality control methods.	
week 6				Quality control methods.	
week 7	Statistical process control, capability and stability examinations. Automotive supplier standards, quality costs.			Risk assessment tools.	
week 8	-			Risk assessment tools.	
week 9	-			-	
week 10	-			-	
week 11	Test			Statistical process control in practice.	
week 12				Statistical process control in practice.	
week 13	Replacement of test.			Exercise replacement.	
week 14				Exercise 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 test (min 50 points, max 100 points) Calculation practice mark: based on the result of test. Results: 0-49: 1 (fail); 50-61: 2 (pass); 62-73: 3 (satisfactory); 74-85: 4 (good); 86-100: 5 (excellent)					
Bibliography:					
Course book: <ul style="list-style-type: none">László Berényi: Fundamentals of quality management, Lambert Academic Publishing, 2013Thomas Pyzdek and Paul Keller: The Handbook for Quality Management, Second Edition; A Complete Guide to Operational Excellence; 2013John Beckford: Quality: A Critical Introduction, Third Edition; Routledge; 3rd edition (October 29, 2009)Juran, De Feo: Juran's Quality Handbook (6th Edition)Special documents on the Moodle					
Quality Assurance: using feedback provided by the students for improving content and methods of teaching of the subject.					

Budapest, 31 January 2025

Gabriella Farkas, PhD
Lecturer instructor