

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, 2022/2023 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	-		Quality level assessment. Individual task.	
week 2	Introducing the basics of quality. Quality management history, models of quality management.		Quality level assessment. Individual task.	
week 3			HOLIDAY	
week 4	ISO 9000 family. Quality management systems (OH&S, Safety, Energy, Information). Quality audit. Test 1.		HOLIDAY	
week 5	-		Quality control tools. Individual task.	
week 6	HOLIDAY		Quality control tools. Individual task.	
week 7	-		HOLIDAY	
week 8	Risk management. TQM, self-evaluation. Tools and methods in the quality management. Test 2.		HOLIDAY	
week 9			Risk assessment tools. Individual task	
week 10	Statistical process control, capability and stability examinations. Test 3.		Risk assessment tools. Individual task.	
week 11	-		Statistical process control in practice. Individual task.	
week 12	Automotive supplier standards, quality costs. Test 4.		Statistical process control in practice. Individual task.	
week 13	-		Submission of the reports and presentation/Replacement.	
week 14	Test 5. Replacement of the tests.		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: <ol style="list-style-type: none">1. László Berényi: Fundamentals of quality management, Lambert Academic Publishing, 20132. Thomas Pyzdek and Paul Keller: The Handbook for Quality Management, Second Edition; A Complete Guide to Operational Excellence; 20133. John Beckford: Quality: A Critical Introduction, Third Edition; Routledge; 3rd edition (October 29, 2009)4. Juran, De Feo: Juran's Quality Handbook (6th 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, 24 February 2023

Gabriella Farkas, PhD
Lecturer instructor