

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, 2022/2023 academic year. 2. 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 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	-	Risk assessment tools. Individual task	
week 8	Risk management. TQM, self-evaluation. Tools and methods in the quality management. Test 2.	Risk assessment tools. Individual task.	
week 9		HOLIDAY	
week 10	Statistical process control, capability and stability examinations. Test 3.	HOLIDAY	
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"><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: <ul style="list-style-type: none"><li>1. László Berényi: Fundamentals of quality management, Lambert Academic Publishing, 2013</li><li>2. Thomas Pyzdek and Paul Keller: The Handbook for Quality Management, Second Edition; A Complete Guide to Operational Excellence; 2013</li><li>3. John Beckford: Quality: A Critical Introduction, Third Edition; Routledge; 3rd edition (October 29, 2009)</li><li>4. Juran, De Feo: Juran's Quality Handbook (6<sup>th</sup> Edition)</li><li>5. Special documents on the Moodle</li></ul>			
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