

Obuda University Bánki Donát Faculty of Mechanical and Safety Engineering				Institute of Mechanical Engineering and Technology			
Course title and code:		Quality management BGXMBE5BNE, BAGMB1ANND, BAGMB1KTNC				Credits: 2	
full time	training	2025/2026		academic year II.		semester	
Faculties in which the subject is taught:				Mechatronics Engineering BSc			
Lecturer instructor:		Dr. habil. Farkas Gabriella		Instructor(s):		Dr. habil. Farkas Gabriella Tóth Georgina Nóra	
Prerequisites conditions (code):							
Hours per week							
Lecture:	1	Practice:	-	Laboratory:	1	Consultation:	1
Semester closing way: (required):				midterm mark (written)			
Online consultation (optional):				BBB link:			
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							
Educationa l weeks	Topics						
1.	L: - P: Quality level assessment.						
2.	L: Introducing the basics of quality. Quality management history, models of quality management. P: Quality level assessment.						
3.	L: - P: Quality control tools 1.						
4.	L: Tools and methods in quality management. P: Quality control tools 1.						
5.	L: - P: Quality control tools 2.						
6.	L: ISO 9000 family. Quality management systems (OH&S, Safety, Energy, Information). Quality audit. P: Quality control tools 2.						
7.	L: - P: Risk assessment tools.						
8.	L: Risk management and technics. TQM, self-evaluation. TPM. Lean technology. P: Risk assessment tools.						
9.	L: - P: Statistical process control in practice.						
10.	L: Statistical process control, capability and stability examinations. Automotive supplier standards, quality costs. P: Statistical process control in practice.						
11.	L: - P: Replacement of practice.						
12.	Test.						
13.	L: - P: Replacement of practice.						
14.	Replacement of test.						
Requirements in a term							
Test		Task			Laboratory measurement		

Number 1	Date 11-12. week	Number 5	Deadline 11. week	Number -	Date -
<p align="center"><b>Condition of evaluation and replacement</b></p> <p><i>Participation in the courses is governed by HKR.</i></p> <p><i>Replacement during the term is regulated in HKR.</i></p> <p><i>The procedure for getting midterm mark/signatures after the end of the educational term is provided down in Academic Regulations.</i></p>					
Other requirements for participation in courses are not covered by the regulations and restrictions on replacements:					
maximum overall score	Test minimum score for completion/tes t	maximum overall score	Task minimum score for completion/tas k	Laboratory measurement maximu m overall score	minimum score for completion/measureme nt
80	40	20	10	-	-
<b>Maximum overall score in a term:</b>					
<b>Scoring limits</b>	<b>pass</b> from points	<b>satisfactory</b> from points	<b>good</b> from points	<b>excellent</b> from points	
	<b>50</b>	<b>60</b>	<b>70</b>	<b>85</b>	
Other evaluation criteria:					
Students with individual study programs are exempt from attending laboratory exercises and preparing worksheets/reports. They are given individual assignments, which must be submitted on the Moodle course by the specified deadline. They are also required to complete the midterm exam.					
<b>No signature:</b>					
<b>Requirements in case of exam</b>					
<b>System of exams and reports:</b>					
Type of exam: <input type="checkbox"/> oral <input type="checkbox"/> written <input type="checkbox"/> oral and written <input type="checkbox"/> other: .....					
<b>Condition of offered mark and pre-exam:</b>					
<b>Mandatory course book:</b>		László Berényi: Fundamentals of quality management, Lambert Academic Publishing, 2013 Thomas Pyzdek and Paul Keller: The Handbook for Quality Management, Second Edition; A Complete Guide to Operational Excellence; 2013 Special documents on the Moodle			
<b>Recommended course book:</b>		John Beckford: Quality: A Critical Introduction, Third Edition; Routledge; 3rd edition (October 29, 2009) Juran, De Feo: Juran's Quality Handbook (6th Edition)			
<b>Quality method of this subject:</b>					
In all matters not covered by this document, the provisions of the Study and Examination Regulations and the Study Regulations of Óbuda University shall apply.					
Date: Budapest, 2026. 01. 15.					
lecturer instructor					