

Obuda University Bánki Donát Faculty of Mechanical and Safety Engineering				Institute of Mechanical Engineering and Technology			
Course title and code:		Quality assurance BGXMBY6BNE, BGXMBE7BNE, BAGMB1ENND, 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.	Introducing the basics of quality. Quality level assessment.						
2.	Quality management history, models of quality management. Quality level assessment.						
3.	Tools and methods in quality management. Quality control tools 1.						
4.	Tools and methods in quality management. Quality control tools 1.						
5.	ISO 9000 family. Quality management systems (OH&S, Safety, En-ergy, Information). Quality control tools 2.						
6.	Quality audit. Quality control tools 2.						
7.	Risk management and technics. Risk assessment tools.						
8.	TQM, self-evaluation. TPM. Lean technology. Risk assessment tools.						
9.	Statistical process control, capability and stability examinations. Statistical process control in practice.						
10.	Automotive supplier standards, quality costs. Statistical process control in practice.						
11.	Test.						
12.	Test.						
13.	Replacement of test.						
14.	Replacement of test.						
Requirements in a term							
Test		Task		Laboratory measurement			
Number	Date	Number	Deadline	Number	Date		
1	11-12. week	5	11. week	-	-		

Condition of evaluation and replacement					
<i>Participation in the courses is governed by HKR.</i> <i>Replacement during the term time is regulated in HKR</i> <i>The procedure for getting midterm mark/signatures after the end of the educational term is provided down in Academic Regulations.</i>					
Other requirements for participation in courses are not covered by the regulations and restrictions on replacements:					
Test		Task		Laboratory measurement	
maximum overall score	minimum score for completion/test	maximum overall score	minimum score for completion/task	maximum overall score	minimum score for completion/measurement
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>					
<b>Type of exam:</b> <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					