

Obuda University Bánki Donát Faculty of Mechanical and Safety Engineering				Institute of Mechanical Engineering and Technology			
Course title and code:		Quality technics in manufacturing BGKTNQTBFL		Credits:		0	
correspondence (part time)		training		2026/2027		academic year I.	
Faculties in which the subject is taught:				Mechanical Engineering BSc			
Lecturer instructor:		Dr. habil. Farkas Gabriella		Instructor(s):		Dr. habil. Farkas Gabriella Tóth Georgina Nóra	
Prerequisites conditions (code):							
Hours per week							
Lecture:		-		Practice:		2	
Laboratory:		-		Consultation:		-	
Semester closing way: (required):				signature (Válasszon)			
Online consultation (optional):				BBB link:			
Curriculum: The objective is to introduce the practical application of modern quality techniques based on the knowledge of the specialization, the development of a process-oriented quality approach.							
Schedule							
Education al weeks		Topics					
1.		Introducing the basics of quality.					
2.		The concepts of quality control and improvement. The basics of teamwork. Idea generation techniques and their application: Brainstorming. Idea generation techniques and their application: Mindmap.					
3.							
4.							
5.		Tools and methods in process of manufacturing. Process visualization and analysis (Flowcharts, PDCA). Complex quality methods (8D procedure). Complex quality methods (A3 procedure).					
6.							
7.							
8.							
9.		Risk assessment tools in practice (risk identification). Risk assessment tools in practice (risk analysis). Risk assessment tools in practice (risk evaluation).					
10.							
11.							
12.		FMEA in practice (AIAG, QS 9000, IEC 60812). Report submission.					
13.							
14.							
Requirements in a term							
Test		Task		Laboratory measurement			
Number		Date		Number		Date	
-		-		-		-	
Condition of evaluation and replacement							
Participation in the courses is governed by HKR.							
Replacement during the term is regulated in HKR.							

<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:					
maximum overall score	Test minimum score for completion/test	maximum overall score	Task minimum score for completion/task	maximum overall score	Laboratory measurement minimum score for completion/measurement
-	-	-	-	-	-
Maximum overall score in a term:					
Scoring limits	pass from points	satisfactory from points	good from points	excellent from points	
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.					
No signature:					
Requirements in case of exam					
System of exams and reports:					
Type of exam: ☐ oral ☐ written ☐ oral and written ☐ other:					
Condition of offered mark and pre-exam:					
Mandatory course book:		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			
Recommended course book:		John Beckford: Quality: A Critical Introduction, Third Edition; Routledge; 3rd edition (October 29, 2009) Juran, De Feo: Juran's Quality Handbook (6th Edition)			
Quality method of this subject:					
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. 06. 07.					
Dr. habil Farkas Gabriella					
lecturer instructor					