

Obuda University Bánki Donát Faculty of Mechanical and Safety Engineering				Institute of Mechanical Engineering and Technology			
Course title and code:		Quality technics in manufacturing BBKTNQTBNF			Credits:		0
full time	training	2025/2026	academic year	II.	semester		
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: signature				(written)			
(required):							
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							
Educationa l weeks	Topics						
1.	Introducing the basics of quality. The concepts of quality control and improvement. The basics of teamwork.						
2.	Idea generation techniques and their application: Brainstorming.						
3.	Idea generation techniques and their application: Mindmap.						
4.	Tools and methods in process of manufacturing.						
5.	Process visualization and analysis (Flowcharts, PDCA).						
6.	Complex quality methods (8D procedure).						
7.	Complex quality methods (A3 procedure).						
8.	Risk assessment tools in practice (risk identification).						
9.	Risk assessment tools in practice (risk analysis).						
10.	Risk assessment tools in practice (risk evaluation).						
11.	FMEA in practice (AIAG, QS 9000).						
12.	FMEA in practice (IEC 60812).						
13.	Written test.						
14.	Replacement of test.						
Requirements in a term							
Test		Task		Laboratory measurement			
Number	Date	Number	Deadline	Number	Date		
1	13. week	-	-	-	-		
Condition of evaluation and replacement							
Participation in the courses is governed by HKR.							
Replacement during the term is regulated in HKR.							
The procedure for getting midterm mark/signatures after the end of the educational term is provided down in Academic Regulations.							
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	maximum overall score	minimum score for	maximu m overall score	minimum score for completion/measureme nt		

	completion/t est		completion/ta sk		
100	50			-	-
Maximum overall score in a term:					
Scoring limits	pass from points	satisfactory from points	good from points	excellent from points	
	50	62	74	87	
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: <input type="checkbox"/> oral <input type="checkbox"/> written <input type="checkbox"/> oral and written <input type="checkbox"/> 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. 01. 12.					
Dr. habil Farkas Gabriella					
lecturer instructor					