

Óbuda University Donát Bánki Faculty of Mechanical and Safety Engineering		Institute of Materials and Manufacturing Sciences Department of Manufacturing Technology	
Course title and code: Quality management BGXMBE5BNE, BAGMB1ANND Quality assurance BGXMBE7BNE, BAGMB1ENND, BAGMB15NEC, BAGMB1KTNC			Credits: 2
Full-time, 2020/2021 academic year. 1. 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 management history, models of quality management, ISO 9000 Family.	Data collecting card, histogram	
week 2	-	Data collecting card, histogram	
week 3	Quality management systems. OH&S. Risk management.	Quality level analysis	
week 4	-	Quality level analysis	
week 5	Quality audit. 7 old tools, 7 new methods. Lean.	Pareto analysis, scatter diagram, tree diagram	
week 6		Pareto analysis, scatter diagram, tree diagram	
week 7	TQM, self-evaluation. Automotive supplier standards, quality costs.	FMEA	
week 8	-	FMEA	
week 9	Statistical process control, capability and stability examinations.	Control charts	
week 10	-	Control charts	
week 11	HOLIDAY	HOLIDAY	
week 12	-	HOLIDAY	
week 13	TEST	Replacement (exercise)	
week 14	-	Replacement (test)	
Conditions of getting practice mark: <ul style="list-style-type: none"><li>• compulsory on the 60 % 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</li><li>• successful test</li></ul> Calculation practice mark: Grade (Test 1)			
Bibliography:			
Course book: <ul style="list-style-type: none"><li>1. Thomas Pyzdek and Paul Keller: The Handbook for Quality Management, Second Edition; A Complete Guide to Operational Excellence; 2013</li><li>2. László Berényi: Fundamentals of quality management, Lambert Academic Publishing, 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></ul>			
Quality Assurance: using feedback provided by the students for improving content and methods of teaching of the subject.			

Budapest, 12 June 2020

Gabriella Farkas, PhD  
Lecturer instructor