

Faculty of Mechanical Engineering / QUALITY AND STANDARDISATION / QUALITY MENAGMENT

Course:	QUALITY MENAGMENT			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
12227	Optional	2	6	2+2+0
Programs	QUALITY AND STANDARDISATION			
Prerequisites	no			
Aims	The aim is for students to master the knowledge in the field of quality management. Students should be able to independently interpret the requirements of the Quality Management System standard and be able to apply it in specific conditions.			
Learning outcomes	After passing the exam in this subject, students will be able to: 1. Distinguish the basic concepts and development of quality science. 2. Recognizes and defines the approaches of quality gurus. 3. Understands the standards of the quality management system and their principles. 4. Interprets the requirements of the ISO 9001 standard. 6. Applies the process approach. 7. Distinguish between audit and self-assessment.			
Lecturer / Teaching assistant	Prof. dr Zdravko Krivokapić			
Methodology	Lectures, exercises, seminar work, colloquiums			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	The science of quality. Basic terms and definitions.			
I week exercises	The science of quality. Basic terms and definitions.			
II week lectures	Quality gurus and their main contributions to quality.			
II week exercises	Quality gurus and their main contributions to quality.			
III week lectures	Development of quality management.			
III week exercises	Development of quality management.			
IV week lectures	Standards in the field of quality management.			
IV week exercises	Standards in the field of quality management.			
V week lectures	Significance and role of Annex SL.			
V week exercises	Significance and role of Annex SL.			
VI week lectures	Quality management system. Principles.			
VI week exercises	Quality management system. Principles.			
VII week lectures	1st colloquium			
VII week exercises	1st colloquium			
VIII week lectures	Structure of quality management system standards.			
VIII week exercises	Structure of quality management system standards.			
IX week lectures	Interpretation of the requirements of the standard - Part I.			
IX week exercises	Interpretation of the requirements of the standard - Part I.			
X week lectures	Risk-oriented thinking.			
X week exercises	Risk-oriented thinking.			
XI week lectures	Process approach and its role.			
XI week exercises	Process approach and its role.			
XII week lectures	Interpretation of the requirements of the standard - Part II.			
XII week exercises	Interpretation of the requirements of the standard - Part II.			
XIII week lectures	System certification. Verification. Verification methods.			
XIII week exercises	System certification. Verification. Verification methods.			

XIV week lectures	Self-assessment.					
XIV week exercises	Self-assessment.					
XV week lectures	2nd colloquium					
XV week exercises	2nd colloquium					
Student workload						
Per week	Per semester					
6 credits x 40/30=8 hours and 0 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 4 hour(s) i 0 minuts of independent work, including consultations	Classes and final exam: 8 hour(s) i 0 minuts x 16 =128 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 8 hour(s) i 0 minuts x 2 =16 hour(s) i 0 minuts Total workload for the subject: 6 x 30=180 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 36 hour(s) i 0 minuts Workload structure: 128 hour(s) i 0 minuts (cources), 16 hour(s) i 0 minuts (preparation), 36 hour(s) i 0 minuts (additional work)					
Student obligations	Attendance to lectures and exercises. Preparation of a seminar paper.					
Consultations	Tuesday 13-15, Thursday 11-13					
Literature	[1] Krivokapić, Z. (2011). Sistem menadžmenta kvalitetom, Mašinski fakultet, Podgorica [2] Pyzdek T., Keller P. (2013). The Handbook for Quality Management, McGrawHill, New York [3] Arsovski S. (2016). Nauka o kvalitetu, fakultet inženjerskih nauka, Kragujevac [4] MEST ISO 9001:2016 - Sistem mendažmenta kvalitetom [5] MESTEN ISO 19011:2012 - Uputstva za provjeravanje sistema menadžmenta					
Examination methods	1st and 2nd colloquium 20 points each. Seminar paper 10 points.					
Special remarks						
Comment						
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points