

Faculty of Civil Engineering / MANAGEMENT IN CIVIL ENGINEERING / QUALITY MANAGEMENT IN CIVIL ENGINEERING

Course:	QUALITY MANAGEMENT IN CIVIL ENGINEERING			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
8046	Optional	2	6	3+2+0
Programs	MANAGEMENT IN CIVIL ENGINEERING			
Prerequisites				
Aims	Getting knowledge for application of methods of management in the area of civil engineering			
Learning outcomes				
Lecturer / Teaching assistant	Dr Snežana Rutešić - professor			
Methodology	Lectures, consultations, seminar paper			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Quality as a global phenomenon; Basic definitions, concepts and quality aspects.			
I week exercises	Quality as a global phenomenon; Basic definitions, concepts and quality aspects.			
II week lectures	Development of quality management model, planning, quality provision, system of quality management, TQM.			
II week exercises	Development of quality management model, planning, quality provision, system of quality management, TQM.			
III week lectures	System for quality management is base for TQM: Standards ISO 9000. Structure and area of management quality system. Role of management in process of quality improvement.			
III week exercises	System for quality management is base for TQM: Standards ISO 9000. Structure and area of management quality system. Role of management in process of quality improvement.			
IV week lectures	Document of the system of quality management. Quality control as the function of the system for quality management. Choice of the seminar paper theme			
IV week exercises	Document of the system of quality management. Quality control as the function of the system for quality management. Choice of the seminar paper theme			
V week lectures	Application of statistical methods in quality control: empirical division, basic set and samples, mark of parameters of basic set.			
V week exercises	Application of statistical methods in quality control: empirical division, basic set and samples, mark of parameters of basic set.			
VI week lectures	Quality in civil engineering; quality in realization of investment projects; characteristics of quality. Application of system models for quality control in civil engineering; application of series of standards ISO 9000, features, difficulties, usage.			
VI week exercises	Quality in civil engineering; quality in realization of investment projects; characteristics of quality. Application of system models for quality control in civil engineering; application of series of standards ISO 9000, features, difficulties, usage.			
VII week lectures	FREE WEEK			
VII week exercises	FREE WEEK			
VIII week lectures	Institutional forms of quality control in the phase of conceiving and defining engineering structure; control subject: studies, programs, technical documents, costs, terms, organization and so on.			
VIII week exercises	Institutional forms of quality control in the phase of conceiving and defining engineering structure; control subject: studies, programs, technical documents, costs, terms, organization and so on.			
IX week lectures	Institutional forms of quality control in the phase of structure construction; control subject: execution, material, Structures, equipment, installations, plants, costs, terms, organization and so on.			
IX week exercises	Institutional forms of quality control in the phase of structure construction; control subject: execution, material, Structures, equipment, installations, plants, costs, terms, organization and so on.			
X week lectures	Institutional forms of quality control in the phase of guarantee term.			
X week exercises	Institutional forms of quality control in the phase of guarantee term.			

XI week lectures	Standards ISO 10006 – system of quality project management and possibility of application in civil engineering					
XI week exercises	Standards ISO 10006 – system of quality project management and possibility of application in civil engineering					
XII week lectures	Informative system for quality management.					
XII week exercises	Informative system for quality management.					
XIII week lectures	Defense of seminar paper					
XIII week exercises	Defense of seminar paper					
XIV week lectures	II PRELIMINARY EXAM					
XIV week exercises	II PRELIMINARY EXAM					
XV week lectures	Final exam.					
XV week exercises	Final exam.					
Student workload	Weekly 6 credits x 40/30 = 8 hours Total workload for the course 6.0x30 = 180 hours					
Per week			Per semester			
6 credits x 40/30=8 hours and 0 minuts 3 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 3 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						
Consultations						
Literature			1. M. Perović: Menadžment, informatika, kvalitet, CIM centar-Mašinski fakultet Kragujevac, Kragujevac, 1999. 2. M. Heleta: TQM Model za poslovnu izvrsnost, Beograd, 1998. 3. V. Majstorović: Model menadžmenta totalnim kvalitetom, Poslovna politika,			
Examination methods			It is given minimal and maximal number of points which student can get in the scope of elements which are pointed, where student must get the prescribed minimal number of points: - Attendance at teaching courses and exercises (obligatory 70 %) 3 up to 4			
Special remarks						
Comment			Further information on the course can be got at teacher, assistant, manager of the study program and vice-dean for teaching courses.			
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