

POLYTECHNIC OF MEÐIMURJE IN ČAKOVEC

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COURSE SYLLABUS											
ACADEMIC YEAR: 2020/2021											
1. GENERAL COURSE INFO	RMAT	ION									
1.1 Course name	Qua	lity contro									
1.2 Study program/s	TTS										
1.3 Course status (O,E)	0				1.6	Мо	de of	Lec	tures	15	
1.4 Course code						ins	struction	Exe	rcises	30	
1.5 Course abbreviation						(number of		Sen	ninars		
1.6 Semester	111					ho	urs)	E-le	arning		
1.7 ECTS	4 1.7 Place and time of instruction Premises of the Polytechnic of Međimurje in Čakovec, accord the schedule published on the website					, according to					
2. TEACHING STAFF											
2.1 Course leader/s-title	Prof	.dr.sc. Živk	o Ko	ondić	con	ntac	t	zko	ndic@m	ev.hr	
		cont			ntac	t					
2.2 Assistant/s- title	contact										
	contact										
2.3 Instruction held by-	contact										
title											
3. COURSE DESCRIPTION											
3.1 Course goals	qual qual	Introducing students to the basics of quality management, the application of quality control in modern production, and modern views and approaches to quality management.									
3.2 Prerequisites		no conditions									
3.3 Course outcomes	 After successfully passing the course the student will be able to: I 1. Recognize the importance of product and service quality in modern production and service delivery I2. Explain aspects of quality I3. Clarify the structure of quality management systems based on modern international standards, and manage systems. I4. Apply basic tools to solve quality problems I5. Calculate process capability indicators and other statistical quality indicators 										
3.4 Course content	 The concept of quality, quality control, quality assurance and quality management and aspects and indicators of quality. A brief historical overview of the management system. Principles of quality, environment and safety. Modern approach to quality management systems to the requirements of international standards. Statistical quality control (concept, parameters, process capability, control charts, causation, correlation and regression) Tools, methods and methodologies for improving and solving quality control problems. 										
3.5 Types of coursework	x l	ectures	х	Exercise	es		Blended e- learning	x	Individu activitie		Laboratory
	ة ١	Seminars and vorkshops Dther		Distant learning			Field classes		Multime and network	edia	Mentorship
3.6 Language of instruction	hrva	tski									
3.7 Monitoring students'	1,5	Class atter	ndan	ce	1,0	Sei	minars			Essay	
		•									

work (enter the		Classia	ctivity	Dr	oiect		Report/pa	nor				
number of ECTS	Class activity			FI	Project		Report/paper Continuous					
credits for each	1,5	Midter	Midterm exams		Practical task		knowledge					
activity so that the		Writte	n exam	Ex	perimental wo	ork						
total number of ECTS		Oral ov			soarch							
credits is equal to		Utaley	Dral exam		Research							
the total ECTS value												
of the course, 1 ECTS												
= 30 hours)												
3.8 Assessment and evaluation of			Activity specifi	cation	Percent 9	% P	oints					
students' work					during instruct	ion						
during classes and at			ndance		5%		5					
the final exam			activity		5%		5					
			inar/ project/ es erm exam 1	say	30% 30%		30 30					
		Midterm exam 2 30% 30										
	Exam assessment for the students who failed to fullfil all the obligatory											
	requirements during the semester											
	Written exam 60% 60 Total: 100% 100											
	Total: 100% 100											
3.9 Assessment criteria –			Maria a	foundurational								
analysis per learning					earning outco Mid-term	Mid-term	Practical					
outcomes			Attendance	Activity	exam 1	exam 2	work	Total				
	Out	come 1			10			10				
		come 2			10		5	15				
		come 3 come 4			10	20	5 10	15 30				
		come 5				10	10	20				
		come	5	5				10				
		related	5	5	40	20	30	-				
	Tota		outcomes (in	-		30 term exam		100 student				
		-	ve at least 509	-				student				
	Poin		Grade				iic)					
	89 –		excellent (5)									
	76 –		ery good (4)									
	63 –		ood (3)									
	50 –	62 p	ass (2)									
	0 –	49 fa	ail (1)									
3.10 Specific features	If a student collects 50% of the points of each outcome, he / she directly takes											
related with taking		the exam, provided that he / she has submitted a paper. A student cannot										
the course	access the exam period if he / she has not submitted a paper. The paper is											
			-				submitted at least 3 days before the exam deadline. During the exam, it is					
	subn	nitted a	at least 3 da	ys before	the exam c	leadline. D	-					
	subn poss	nitted a	at least 3 da orally check t	ys before he knowle	the exam c dge in the p	leadline. D preparation	of practica	work.				
	subn poss If a s	nitted a ible to o student	at least 3 da orally check t does not ac	ys before he knowle chieve a su	the exam c dge in the p ıfficient nur	leadline. D preparation mber of po	of practica	work.				
	subn poss If a s exan	nitted a ible to o student n, he / s	at least 3 da orally check t does not ac she cannot ta	ys before he knowle chieve a su ke the nex	the exam c dge in the p ıfficient nur t midterm e	leadline. D preparation mber of po exam.	of practica pints on the	l work. midterm				
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3. Sveučilište u Osijeku, Sveučilište Sjevere i Sveučilište u Rijeci, Varažd						
	3;					
	n,					
2018.						
3.14 Additional reading 1. Kondić, Ž Kvaliteta i metode poboljšanja, Zrinski, Čakovec, 2004.						
2. Kondić Ž Kvaliteta i ISO 9000, TIVA, Varaždin, 2004.						
4 ADDITIONAL COURSE INFORMATION						
4.1 Quality control The quality of the program, teaching process, teaching skills and level of						
	mastery of the material will be established by conducting a written evaluation					
based on questionnaires, and in other standardised ways and in accordance	<u>!</u>					
with the by-laws of the Polytechnic of Međimurje in Čakovec.						
4.2 Contact the teacher Students can contact the teacher during the office hours and during classe						
	while for short questions and explanations they can contact him/her any day					
during working hours by coming in person or by landline. It is also possible						
ask questions by e-mail, which will be answered in 48 hours at the latest. It						
desirable for students to come as often as possible for any possible question	ns					
during the teacher's office hours.						
4.3 Information about It is the obligation of each student to be regularly informed about the cour	e.					
the course All notifications about the classes or possible postponement of classes will						
posted on the bulletin board and on the website of the Polytechnic at least						
hours in advance.						

to ti prog		following outcom I2- Use new techn process I5- Critically evalu opinion and contr I8- Interdisciplinat I11-Apply basics of in spatial design of I12-Develop a tech thermotechnical s Justify the use of r thermotechnical s	aloogies and techniques as ate arguments, assumption ibute to the solution of the ry to solve engineering prol of thermoenergetics, therm of thermodynamic systems hnical plan in the field of de systems asic elements and networks non-renewable and renewa	part of the lifelong lear of the lifelong lear problem olems of sustainable de odynamics and hydrom esign of mechanical s in electrical engineeri ble energy sources, ap	ning form an evelopment nechanics ng and plicable to
the cour	rse)				
Hours	Topic and	description	LECTURES Method • Direct teaching (lecture, instruction, pp presentation) • Discovery learning (individual, lead, discussion) • Group learning • Case study • Field classes	Learning outcomes	Course outcome
1.	and aspects and indic brief historical overv	d quality management cators of quality. A iew of the . Principles of quality,	Presentation, pp presentation	Distinguish between concepts, quality control, quality management and quality assurance. Understand the historical development of quality and its role in the modern economy. Understand the principles on which the modern approach to quality is based.	1 2
2.	Principles of quality. Quality gurus. Japanese, American, European and Croatian approach to quality		Presentation, pp presentation	Understand the principles on which the modern approach to quality is based. Consider different views on quality, and the guru's contribution to the development of quality science	1 2
3.	Modern approach to systems to the requin international standar		Presentation, pp presentation	Explain the procedures for implementing international standards in the field of quality	13
4.	systems to the requir	ds; ISO 9001 and the	Presentation, pp presentation	Consider the basic requirements of modern international quality standards	13
5.	Use of descriptive sta control	atistics in quality	Presentation, pp presentation	Use basic tools of descriptive statistics in analyzing the quality of	13

			products and services	
6.			Calculate basic	
	Statistical quality control (concept,		statistical indicators in	
	parameters, process capability, control	Presentation,	quality control and	15
	charts, causation, correlation and	pp presentation	know how to interpret	
	regression)		them.	
7.	Statistical quality control (concent		Calculate basic	
	Statistical quality control (concept, parameters, process capability, control	Presentation,	statistical indicators in	
	charts, causation, correlation and	pp presentation	quality control and	15
	regression)	pp presentation	know how to interpret	
			them.	
8.	Statistical quality control (concept,		Calculate basic	
	parameters, process capability, control	Presentation,	statistical indicators in	
	charts, causation, correlation and	pp presentation	quality control and	15
	regression)	P. P	know how to interpret	
			them.	
9.	Statistical quality control, acceptance tests		Upoznati se s osnovnim	
	by sampling (attributes and measurement	Presentation,	testovima uzorkovanja,	
	characteristics)	pp presentation	te znati primijeniti	15
40			norme za uzorkovanje.	
10.	Desumentation in quality control and	Procontation	Introduction to basic	14
	Documentation in quality control and quality management in business systems	Presentation, pp presentation	documents in quality assurance and	
	quality management in business systems	pp presentation		15
11.			management Get acquainted with the	
	Importance of measuring, control and	Presentation,	importance of	14
	monitoring equipment in quality control	pp presentation	measuring equipment	15
			and control methods.	15
12.			Get acquainted with the	
	Input, intermediate and final quality	Presentation,	basic principles of	14
	control in processes	pp presentation	quality control in	15
			production processes.	-
13.	Tools, methods and methodologies for		Apply modern tools and	
	improving and solving problems of quality	Presentation,	methods for identifying	14
	control and environmental protection and	pp presentation	and solving quality	14
	safety at work		problems	
14.	Tools, methods and methodologies for		Apply modern tools and	
	improving and solving problems of quality	Presentation,	methods for identifying	14
	control and environmental protection and	pp presentation	and solving quality	
15.	safety at work		problems	
15.	Tools, methods and methodologies for improving and solving problems of quality	Procontation	Apply modern tools and methods for identifying	
	control and environmental protection and	Presentation, pp presentation	and solving quality	14
	safety at work	pp presentation	problems	
		EŽBE/ SEMINARI	problems	
	1	•		
		Method		
		 Direct teaching (lecture, 		
		instruction, pp		
		presentation)		
Hours	Tonic and description		Learning outcomes	Course
Hours	Topic and description	presentation)	Learning outcomes	Course outcome
Hours	Topic and description	presentation) • Discovery learning	Learning outcomes	
Hours	Topic and description	presentation) • Discovery learning (individual, lead, discussion)	Learning outcomes	
Hours	Topic and description	 presentation) Discovery learning (individual, lead, discussion) Group learning Case study 	Learning outcomes	
Hours	Topic and description	presentation) • Discovery learning (individual, lead, discussion) • Group learning	Learning outcomes	
	Topic and description	 presentation) Discovery learning (individual, lead, discussion) Group learning Case study Field classes 		outcome
Hours 1.		presentation) Discovery learning (individual, lead, discussion) Group learning Case study Field classes Exposure	Consider a modern	outcome
	Topic and description Japanese view of quality	presentation) • Discovery learning (individual, lead, discussion) • Group learning • Case study • Field classes Exposure pp presentations		outcome
		presentation) Discovery learning (individual, lead, discussion) Group learning Case study Field classes Exposure pp presentations case stud	Consider a modern approach to quality	I1 I2
1.	Japanese view of quality	presentation) • Discovery learning (individual, lead, discussion) • Group learning • Case study • Field classes Exposure pp presentations	Consider a modern approach to quality Consider a modern	Outcome 11 12 11
1.		presentation) • Discovery learning (individual, lead, discussion) • Group learning • Case study • Field classes Exposure pp presentations case stud Exposure	Consider a modern approach to quality	I1 I2
1.	Japanese view of quality	presentation) • Discovery learning (individual, lead, discussion) • Group learning • Case study • Field classes Exposure pp presentations case stud Exposure pp presentations	Consider a modern approach to quality Consider a modern	Outcome 11 12 11

		case stud	of developed EU countries as well as in the Republic of Croatia	
4.	Quality aspects	Exposure pp presentations case stud	Understand the basic aspects of quality	12
5.	Analysis of ISO 9001 requirements	Exposure pp presentations case stud	Apply the requirements of the standard	13
6.	Analysis of ISO 9004 requirements	Exposure pp presentations case stud	Apply the requirements of the standard	13
7.	Statistical quality control-calculation of basic parameters	Exposure pp presentations case stud	Calculate and interpret basic statistical quality parameters	15
8.	Statistical quality control-correlation and regression in quality control	Exposure pp presentations case stud	Calculate and interpret basic statistical quality parameters	15
9.	Statistical quality control-assessment and analysis of process stability	Exposure pp presentations case stud	Calculate and interpret basic statistical quality parameters	15
10.	Statistical quality control-application of sampling method	Exposure pp presentations case stud	Calculate and interpret basic statistical quality parameters	15
11.	Seven basic tools for quality improvement - PDCA circuit and parate analysis	Exposure pp presentations case stud	Apply PDCA and Pareto analysis	14
12.	Seven basic tools for quality improvement- Ishikawa diagram	Exposure pp presentations case stud	Apply Ishikawa diagram -principle	14
13.	Seven basic tools for quality improvement - Control charts in production processes	Exposure pp presentations case stud	Understand and apply seven basic quality tools	14
14.	Business excellence and quality management	Exposure pp presentations case stud	Understand the concept and procedures for achieving business excellence	14
15.	Lean production and quality control	Exposure pp presentations case stud	Connect the concepts of Lean and quality control	14