

## POLYTECHNIC OF MEÐIMURJE IN ČAKOVEC

Minvi						
COURSE SYLLABUS						
ACADEMIC YEAR: 2020/2021						
1. GENERAL COURSE INFORMATION						
1.1 Course name	1.1 Course name TECHNICAL DRAWING – OG,EI					
1.2 Study program/s	Undergraduate professional study Sustainable Development					
1.3 Course status (O,E)	Required	-				
1.4 Course code	4003	instruction	Exercises	45		
1.5 Course abbreviation	TC-OG	(number of	Seminars			
1.6 Semester	1.	hours)	E-learning			
1.7 ECTS	5	1.7 Place and		Polytechnic of		
		time of	Međimurje i			
		instruction	-	the schedule		
			published of	n the website		
2. TEACHING STAFF 2.1 Course leader/s-title	Jasmina Ovčar,	contact	jovcar@mev	/ br		
2.1 Course leader/s-litle	mag.ing.arh.i urb.	contact	jovcar@mev	<i>.</i> .m		
	senior lecturer					
		contact				
2.2 Assistant/s- title		contact				
		contact				
2.3 Instruction held by-		contact				
title						
<b>3. COURSE DESCRIPTION</b>						
3.1 Course goals	The goals of the course are to acquire knowledge in the field of technical					
	drawing and the basics of draft geometry, in order to prepare for the					
	possibility of further study and mastering the teaching content in the					
	direction sustainable construction.					
3.2 Prerequisites	Since the course is kept at the 1st semester, there are no previous conditions					
	for listening to the course, while the conditions for joining the course are met					
	all the conditions of attendance and activities, and all work obligations and					
3.3 Course outcomes	tasks set out in the course of listening to the course are met. After successfully mastering the course, students will be able to:					
5.5 Course outcomes	Arter successionly mastering the course, students will be able to.					
	I1 – create a technical drawing in accordance with the rules of the technical					
	profession, including framework, component, technical letter, formatting					
	/ R 3					
	I2 – create a drawing by observation using measurement and evaluation					
	techniques and paper application, critical evaluation of one's own work					
	and the work of colleagues, with spotting and analyzing errors and the					
	causes of their formation /R 4					
	13 – analyze the listing in order to make the drawn element unambiguously					
	determined (minimum and optimal), and create ways of listing on your					
	drawing and drawing according to the given scale and listing in relation to the scale / R 5					
	the scale / R 5 I4 – understand and analytically process the data necessary for the					
	presentation of objects in orthogogonal projection / R 5					
			ojection / R 3			

	I5 – construct orthogonal projections of points, length, direction, plane, cross-										
					-		nes, draw a		-	-	
		orthogonal projection, side directions and angles, directions of tomorrow									
		/ R 6									
	16			-	designs ne, pyra		f geometric id) / R	figur	es (tria	angle and	square)
3.4 Course content	Те	Technical drawing includes only basic instructions and knowledge necessary for									
	SW	vitching to	o comp	outer di	awing a	and	I formatting	g. In t	he fiel	d of draft	geometry,
	th	e aim is	to fan	niliarize	studen	nts	with ortho	ogolir	ne proj	ection ar	nd through
	int	eractive	lecture	es and e	speciall	y w	vork on exe	rcise	s and h	omework	tasks with
		the aim of developing spatial perception and mastering the rules, techniques									
	an	and skills of technical drawing.									
3.5 Types of coursework	х	Lectures	х	Exercis	es		Blended e-	х	Individ		Laboratory
		Seminars					learning		activiti Multim		
		and		Distan	-		Field		and	icula	Mentorship
		workshop	s	learnir	g		classes		netwoi	rk	·
		Other									
3.6 Language of	<b>C</b> -	oation /r.	alich								
instruction		oatian/Er	ignsn							<u> </u>	
3.7 Monitoring students'	2	Class a	ttendar	ice		Ser	minars			Essay	
work (enter the	1 Г	Class	ativity			Dre	niaet			Donort/r	
number of ECTS	1,5	Class a	ctivity			Pro	oject			Report/p	
credits for each	Midterm exams			Pra	Practical task			Continuous knowledge check			
activity so that the									knowledge check		
total number of	1	Writte	n exam			Experimental work				_	
ECTS credits is equal		Oral exam Research									
to the total ECTS					1 1						
value of the course,											
1 ECTS = 30 hours)											
3.8 Assessment and	Activity specification Percent % Points										
evaluation of			Activit			nt d	luring instruct			511105	
students' work		Atte	ndance				20%			20	
during classes and at		Class activity				20%			20		
the final exam	Work independently on 15% 15										
		assignments in class Independent work on tasks at		15%		15					
	home										
	Exam assessment for the students who failed to fullfil all the										
	obligatory requirements during the semesterWritten exam30%30										
		Tota		m			30% <b>100%</b>			30 L <b>OO</b>	
		100					100/0		-		
3.9 Assessment criteria –				Ways of	evaluatio	ng la	earning outco	mes			
analysis per learning					2.3.4441		Work in	worl	k on	Tarah (	
outcomes			Atten	dance	Activity	/	class	task	s at	Tasks/ repetition	Total
								hom		·cpciiion	
		utcome 1 utcome 2				_	5		5 5		10
		utcome 3					5		5 5		10
		utcome 4					5		5		10
	0	utcome 5					10	1	10		20
	_	utcome 6					10	2	10		20
		ot-related		5	5					10	20
		otal		5	5		40	2	10	10	100
									-		

	Grading of outcomes (in order to pass the mid-term exam/exam the student			
	must achieve more then 60% points for each learning outcome)			
	Points Grade			
	91 – 100 excellent (5)			
	81 – 90 very good (4)			
	$71 - 80 \mod (3)$			
	61 – 70 pass (2)			
	0–60 fail (1)			
3.10 Specific features	Regular attendance and teaching activities are important, as lectures and			
related with taking	exercises aim to master the material. Therefore, it is necessary to work			
the course	regularly and at home, through solving the given tasks, and resolving all doubts			
	and misunderstandings immediately on the next hour. Every well-crafted task			
	in class and at home is defined as a colloquiated material. The final written			
	exam is taken at the time of regular and extraordinary exam periods. The			
	written exam consists of modelling according to the template. 5 assignments.			
	Each task carries 3 points. The total maximum number of points on a written			
	exam is 15 points. The oral exam is not held, but refers exclusively to the			
	interpretation and justification of the method of drafting the written part.			
	The type of question is defined by the teacher, but all questions and tasks cover the material of the course that was handled in lectures and exercises.			
3.11 Students obligations	Full-time students are required to attend at least 70% of the total number of			
S.11 Students obligations	hours of lectures and exercises in order to exercise the right to take the exam.			
	Part-time students are required to attend at least 30% of the total number of			
	hours of lectures and exercises in order to exercise the right to take the exam.			
	If the student has not fulfilled all the obligations set by the course, he is			
	obliged to attend the lectures again and meet the conditions for taking the			
	exam.			
	Attendance can be offset by online tuition, organised webinars and added			
	assignments given by teachers. One lesson lasts 45 minutes, and several hours			
	form a teaching unit. Absence from one teaching unit is counted as one			
	absence. Delays and apologies are recorded separately. In that case, if the			
	student missed more than 50% of classes, and has a justifiable			
	reason/apology, the request should be submitted to the Department Council,			
	which then decides on the justification of student absences with the			
	obligatory opinion of the course leader.			
3.12 Written	Izrada svih pismenih zadataka (s vježbi i domaćih radova) uvjet je za dobivanje			
assignments	potpisa iz ovog kolegija, te preduvjet za pristupanje ispitu.			
	U radno opterećenje ubraja se i kontinuirana usmena provjera znanja koja se			
	provodi u sklopu svakih vježbi, na način da studenti moraju pojasniti kako su			
	riješili pismene domaće zadatke, kojim znanjem i metodama su se koristili.			
	Ukoliko je student na vrijeme i točno ispunio sve obaveze vezane za izradu			
	pismenih zadataka iz vježbi i domaćih zadataka (Mapa riješenih zadataka), na			
	posljednjem, 15. satu vježbi može pristupiti predroku. Vrstu pitanja definira nastavnik, no sva pitanja i zadaci pokrivaju gradivo			
	kolegija koje je bilo obrađivano na predavanjima i vježbama.			
3.13 Required reading	1. Tehničko crtanje: Sveučilišni udžbenik, Milan Opalić, Čakovec, 2003.			
Sits Required reduing	<ol> <li>Deskriptivna geometrija 1, Vilko Niče, Zagreb, Školska knjiga, 1987.</li> </ol>			
	Deskriptivna geometrija 2. Vilko Niče, Zagreb, Školska knjiga, 1987			
	3.			
3.14 Additional reading	1. Tehničko crtanje s AutoCad-om, Mato Lučić, Zagreb, August Cesarec			
4 ADDITIONAL COURSE INI				
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			
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	based on questionnaires, and in other standardised ways and in accordance
	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 classes,
	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 to
	ask questions by e-mail, which will be answered in 48 hours at the latest. It is
	desirable for students to come as often as possible for any possible questions
	during the teacher's office hours.
4.3 Information about	It is the obligation of each student to be regularly informed about the course.
the course	All notifications about the classes or possible postponement of classes will be
	posted on the bulletin board and on the website of the Polytechnic at least 24
	hours in advance.
4.4 Course contribution	Interpret information, ideas, problems and solutions to professional and
to the study	general audiences
program	Use foreign languages in professional communication and use of professional
	literature
	Critically judge arguments, assumptions and data in order to create opinions
	and adhesion troubleshooting
	Create an architectural and urban solution using basic principles of designing
	low-energy buildings using modern computer systems