

## POLYTECHNIC OF MEÐIMURJE IN ČAKOVEC

COURSE SYLLABUS							
	ACADEMIC YEAR: 20	022/2023					
<b>1. GENERAL COURSE INFO</b>	RMATION						
1.1 Course name	Object Oriented Programming 1						
1.2 Study program/s	Undergraduate professional study of Computer Science						
1.3 Course status (O,E)	Mandatory	1.6 Mode of	Lectures	30			
1.4 Course code	5124	instruction	Exercises	30			
1.5 Course abbreviation	OOP1	(number of	Seminars				
1.6 Semester	111	hours)	E-learning				
1.7 ECTS	6	1.7 Place and time of instruction	The premises Polytechnic o Čakovec, acc schedule put website	s of the of Međimurje in ording to the olished on the			
2. TEACHING STAFF			Γ				
2.1 Course leader/s-title	PhD. Bruno Trstenjak, senior lecturer Dino Kalamari, lecturer	contact	<u>iev.hr</u> ev.hr				
		contact					
2.2 Assistant/s- title		contact					
		contact					
2.3 Instruction held by-	Dino Kalamari, lecturer	contact					
3. COURSE DESCRIPTION			l				
3.1 Course goals	Creating the skills and kno oriented programming lang	wledge needed to guages.	effectively us	e modern object-			
3.2 Prerequisites	Required input competencies are the use of the procedural programming paradigm, knowledge and use of data types and control structures, knowledge and use of one-dimensional and multidimensional data fields as defined by the learning outcomes of the course Programming. The condition for taking the course is the passed subject Programming.						
3.3 Course outcomes	<ul> <li>After successfully completing the course, students will be able to:</li> <li>I1 - Use simple (primitive, value) and complex (class-based) data types.</li> <li>I2 - Apply control structures of programming language.</li> <li>I3 - Apply classes and their components available in program libraries.</li> <li>I4 - Apply closure, inheritance and multiplicity.</li> <li>I5 - Use data storage structures.</li> <li>I6 - Use exception handling in program code.</li> <li>I7 - Use graphical user interface elements.</li> </ul>						
3.4 Course content	In the course, students learn the basic concepts of object-oriented programming: classroom closure, outward interface, inheritance, and multifacetedness. The difference between procedural and object-oriented programming paradigms. Development of console and GUI desktop applications. Exception processing, control structures, data storage collections.						

3.5 Types of coursework	x	Lectures	x	Exerc	ises		Blended e-	x	Individu	ial Is		Laboratory
	-	Seminars		<b>_</b>					Multim	edia		
		and	х	Distant				ble				Mentorship
		workshops Other		icum			6103563		networ	k		
3.6 Language of		Other										
instruction	Cr	Croatian										
3.7 Monitoring students'	2	Class atte	Class attendance			Se	Seminars			Essay		
number of ECTS		Class activ	Class activity			Pr	oject		Report/paper			
credits for each	2 Midterm exams			2	Pr	actical task	ical task			Continuous knowledge check		
total number of	Written exam				Ex	Experimental work						
ECTS credits is equal	Oral exam				Re	Research						
value of the course												
1 ECTS = 30 hours)												
3.8 Assessment and	Th	The course has 7 defined learning outcomes										
evaluation of	A	A maximum of 200 points can be earned per course.										
students' work	Le	Learning outcomes are scored and checked through the following methods										
during classes and at												
the final exam	First intermediate exam (M1): up to 40 points, of which 20 are achieved by a											
	theoretical test and 20 by practical work.											
	Second intermediate exam (M2): up to 60 points, of which 30 are achieved by											
	at	heoretical t	est a	and 30	by pra	ictica	al work.					L •
	Third intermediate exam (M3): up to 100 points, of which 50 are achieved by a theoretical test and 50 by practical work.											
	The initial criterion for calculating the grade is expressed in the following list:											
	• 100-125 Sufficient (2)											
		<ul> <li>120-150</li> <li>151-175</li> </ul>			d (4)							
		• 176-200		y goo ellent	u (4) (5)							
		• 170 200		-	(3)						_	
	Th	The final criterion for calculating the grade will be created based on the										
	NO	ormal distrib	utic	on of t	ne tota		nts achieved	d by	all stude	ents i	n tr	ne haaad an
	ini th	intermediate exams M1, M2 and M3. If the newly created criterion based on										
	criterion											
3.9 Assessment criteria –									_	_		
analysis per learning				M1	M2	Μ	3 IN TO	TAL				
outcomes	0	Outcome 1		10	10	10	) 30					
	0	Outcome 2		10	10	1(	) 30					
	0	Outcome 3		10	10	20	) 40					
	0	Outcome 4			20	20	) 40					
		Outcome 5		10	10	1(	) 30					
		Outcome 6				20	20		_			
		Outcome 7				1(	) 10		_			
		In total		40	60	10	0 200	)				
3.10 Specific features	As	a rule, the	first	midt	erm exa	am i	s written af	ter t	he first	4 we	eks	of classes
related with taking	and covers the learning outcomes covered in the first 4 weeks. The second											
the course	m	dterm exan	n is	writte	n after	the	other 9 we	eeks	of class	ses a	nd	covers the

	learning outcomes covered by the ninth week of classes. The third midterm			
	exam is written after the second 14 weeks of teaching and covers the learning			
	outcomes processed up to the 14th week of teaching.			
	The type of questions is defined by the teacher, but all questions and tasks			
	cover the course material or learning outcomes.			
	by auditional work and commitment through the preparation of nomework,			
	amount of points does not exceed 200			
	Students who do not pass the colloquia are required to take the written and			
	oral part of the evam. The condition for taking the oral part of the evam is			
	nassing the written part of the exam			
3.11 Students obligations	Full-time students are required to attend at least 70% of the total number of			
-	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			
<b>.</b>	obligatory opinion of the course leader.			
3.12 Written				
2 12 Poquirod roading	1			
5.15 Required reduing	2			
3.14 Additional reading	1.			
	2.			
<b>4 ADDITIONAL COURSE INF</b>	ORMATION			
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			
	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			
	during the teacher's office hours			
1 3 Information about	this 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			

clinic at least 24
fession and
evel.
es using modern
echniques for Iving program