

POLYTECHNIC OF MEÐIMURJE IN ČAKOVEC

COURSE SYLLABUS										
ACADEMIC YEAR: 2022/2023										
1. GENERAL COURSE INFORMATION										
1.1 Course name	Software Engineering and Information Systems									
1.2 Study program/s	Computing									
1.3 Course status (O,E)	0		1.6	Мос	de of	Lec	tures	30		
1.4 Course code	5140			instruction (number of			rcises	30		
1.5 Course abbreviation	PIIS						ninars			
1.6 Semester	5.			hours)		E-le	arning			
1.7 ECTS	5		1.7	1.7 Place and			Polytechnic of Međimurje			
		time of		e of						
				inst	ruction					
2. TEACHING STAFF	I									
2.1 Course leader/s-title	PhD. Josip Nađ,	lecturer	kor	ntakt		josi	p.nad@m	ev.hr		
			cor	ntact						
2.2 Assistant/s- title			cor	ntact						
			cor	ntact						
2.3 Instruction held	PhD. Josip Nađ,	lecturer	cor	ntact						
by-title										
3. COURSE DESCRIPTION										
	importance of information systems in business. Getting to know the software development life cycle. Introduction to the main functionalities of business information systems. An overview of trends in software engineering and information systems.									
3.2 Prerequisites	Object Oriented Programming 1 Data Base 1									
3.3 Course outcomes	After successfully completing the course, students will be able to: O1 - Present methods of user requests collecting and processing O2 - Justify the need for systematic software testing O3 - Analyze the role of information systems in business management O4 - Present the project of information system preparation and implementation									
3.4 Course content	The course presents contents related to the basic aspects of software engineering and information systems. Through the project task, students actively go through the life cycle of software, in parallel learning about the problems of industrial information systems.									
3.5 Types of coursework	X Lectures	X Exer	cises		Blended e-learning	x	Individual activities		Laboratory	
	Seminars and workshops	X Dista learr	ant ning	x	Field classes		Multimed and network	а	Mentorship	
2.6 Language of	Other									
instruction	Croatian									

3.7 Monitoring students'	1	Class a	ittendance		Seminars		Essay	/	
work (enter the	10 0		Class activity		Project		Reno	Report/paper	
number of ECTS	1,0	1,0 Class activity 1,5 Project							
credits for each	1,5	1,5 Midterm exams Pract		Practical task	Practical task		Continuous knowledge check		
total number of		Writte	n exam		Experimental	work			
ECTS credits is equal		Oral exam			Research				
to the total ECTS									
value of the course,									
1 ECTS = 30 hours)									
3.8 Assessment and									
evaluation of			Activity specific	during instruction		Points	-		
students' work	Attendance			5%		5	1		
during classes and at		Class	sactivity		5%		5	1	
the final exam		Sem	inar/ project/ es	say	40%		40	1	
		Mid	term exam 1		25%		25		
		Midterm exam 2					25	-	
		Exam assessment for the students who failed to fullfil all the							
		Obligatory requireme Written exam			50%		50	1	
		Tota	l:		100%		100		
					-	-		-	
3.9 Assessment criteria			14/2010 24	(
–analysis per			ways of	revaluating	Mid-term	Mid-tern	Practical		
learning outcomes			Attendance	Activity	exam 1	exam 2	work	Total	
	Out	come 1			15		20	35	
	Outco				10		20	30	
						10		10	
		come 4				15		15	
	not-related 5 5					10			
	Total 5 5 25 25 40 100					100			
	Grading of outcomes (in order to pass the mid-term exam/exam the student								
	must	achiev	e at least 50%	% points f	or each learn	ing outco	ome)		
	Point	Points Grade							
	89 -	100 e	excellent (5)						
	/6-	88 v 	ery good (4)						
	63-	/5 g	(3)						
		62 μ 40 f	ass (2)						
2 10 Specific features		udont	(1)	the over	a if ha / ch	o hac na	t cubmitta	d the Project	
s.10 Specific reduires	Pood		cannot lake	ttod at lor	n II IIe / SN	e iids 110 fore the /	v submitte	u the Project	
the course		final a	rado is obtai	nod durir	ast 5 uays be	noriod a	and is the	sum of points	
	opro	nnai gi ad duri			ig the exam	periou a		sum or points	
	Stud	ents w	ho did not te	ake the m	nidterm even	ns arres	s the writt	en nart of the	
	exam	where	all learning	outcomes	are checked				
3.11 Students obligations	Full-1	ime sti	udents are rea	auired to	attend at lea	st 70% of	f the total n	umber of	
CITE CONTRACTOR ON IBUILOUS		s of ler	tures and exe	rcises in a	order to exer	cise the r	ight to take	the exam	
	Part-	Part-time students are required to attend at least 30% of the total number of							
	hour	hours of lectures and exercises in order to exercise the right to take the evan							
	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 assignments	The project readiness report must be written by computer (Times New Roman, font 12). It is delivered electronically. It must contain project requirements and all supporting documentation that will be defined during the course.				
	1. Gabriele Piccoli, Federico Pigni: Information Systems for Managers 4.0; Prospect Press, 2019. 2. Pack Stack Stac				
	2. Rod Stephens: Beginning Software Engineering; Wrox, 2015.				
3.14 Additional reading	1. Amiya Kumarrath, Hitesh Mohapatra: Fundamentals of Software Engineering, BPB Publications, 2020.				
	2. American Journal of Software Engineering and Applications				
4 ADDITIONAL COURSE INI	FORMATION				
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 desirable for students to come as often as possible for any possible questions during the teacher's office hours.				
4.3 Information about the course	It is the obligation of each student to be regularly informed about 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 to the study program	OS6 - Analyze user needs (explore and detect data sources, currently present business systems, technological constraints, specifics of the business environment) OS13 - Develop applications using an object-oriented paradigm in solving program tasks OS17 - Select the appropriate programming language and technology when solving programming tasks				