

## POLYTECHNIC OF MEÐIMURJE IN ČAKOVEC

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		OURSE S						
	ACADEMIC Y	EAR:	2020/2	)21				
1. GENERAL COURSE INFO								
1.1 Course name	Basics of compu							
1.2 Study program/s	Undergraduate	professio			Deve	elopment	1	
1.3 Course status (O,E)	0			ode of		tures	30	
1.4 Course code				struction	Exe	rcises	30	
1.5 Course abbreviation	OR		-	number of	Sen	ninars	-	
1.6 Semester	1		h	ours)	E-le	arning	Mer	lin
1.7 ECTS	5		ti	ace and me of Istruction	The premises of the Polytechnic of Međimurje in Čakovec, according to the schedule published on the			đimurje in g to the
						osite	msnec	i on the
2. TEACHING STAFF					wer			
2.1 Course leader/s-title	Nenad Breslaue	r v pred	conta	ct	Nhr	eslauer1	@mev	hr
	Nenda Dresidae	r, v.preu.	conta			CSIGUETI	enicv	
2.2 Assistant/s- title			conta					
			conta					
2.3 Instruction held by-			conta					
title								
<b>3. COURSE DESCRIPTION</b>					1			
3.1 Course goals	After the course, the student will acquire knowledge within the scope of the computer in the organization and information of the office in the field of the business of ecoengineering, engineering and engineering of construction, using modern computer technology.gija. Knowledge is acquired from the field of application of computers in office business, production of complex documents, application of the Internet in operation, organization of work, standards and standards in business. It has a sufficiently broad knowledge that allows for the rapid application of new technologies but also its application in other subjects of the study.							
3.2 Prerequisites	There are no pro to support furth	-		-	ence (	Course Pr	ogram	ime serves
3.3 Course outcomes	<ul> <li>After a successfully mastered course, students will be able to:</li> <li>11 - Describe the basic concepts in the field of informatics.</li> <li>12 - Recognize the characteristics of embedded components and peripherals.</li> <li>13 - Create complex documents, using advanced text editing program commands and Internet capabilities to solve problems</li> <li>14 - Combine different possibilities of spreadsheet and presentation program in order to solve project tasks</li> <li>15 - Propose the most efficient CAD software solution in business.</li> </ul>							
3.4 Course content	The course includes content related to historical computer development, computer mode, computer build, Operating Systems, and MS Office tools.							
3.5 Types of coursework	X Lectures	X Exercis	es	Blended e- learning	х	Individual activities		Laboratory

		Seminars							Multim	nedia	
	х	and		Distant	-		Field classes		and		Mentorship
		workshop	s	learnin	ıg		Classes		netwo	rk	
		Other									
3.6 Language of instruction	Cr	oatian									
3.7 Monitoring students'	2	Class a	ttenda	nce		Se	minars			Essay	
work (enter the										Devent (sever	
number of ECTS		Class a	ctivity			Project				Report/paper	
credits for each	1	1 Midterm exams			2	Practical task				Continuous knowledge check	
activity so that the total number of		Written exam				Experimental work					
ECTS credits is equal		Oral ex	am			Re	search				
to the total ECTS			-			_					
value of the course,											
1 ECTS = 30 hours)											
3.8 Assessment and											_
evaluation of			Activi	ty Specific			Percentage	e %	S	core	
students' work					Evalu	iatio	n during class			~ -	
during classes and at			ence in				2,5%			2,5	-
the final exam			ity in ( nar wo	ork/ proje	rt/essav	/	2,5% 10%			2,5 10	_
			quium		<i>ct/ c</i> 354}	/	43%			42	
			quium				42%			43	
				ŗ	exam wo	ork fo	or students wh	o did	not co-la	ate	
			ten exc	im			60%				_
		Tota	:				100%		1	100	
3.9 Assessment criteria – analysis per learning				Ways of	evaluat	ing l	earning outco	mes			
outcomes			Atto	ndance	Activi		Mid-term		-term	Practica	Total
outcomes			Alle	luance	Activi	c y	exam 1	exa	am 2	work	
	_	utcome 1 utcome 2					10 10	1	15		10 25
		utcome 3					22				22
	0	utcome 4						2	23		23
	0	utcome 5							5	10	15
		utcome		2,5	2,5						5
		ot-related otal		2,5	2,5		42	4	13	10	100
	mi Po 89 76 63 50	ust achiev ints 6 - 100 e - 88 v - 75 g - 62 p	outcor e at lo irade xcelle	mes (in 6 east 50% ent (5) pod (4) 3)	order t	-	ass the mid- r each learr				e student
3.10 Specific features	lf t	he stude	nt col	lects 50	% of th	e po	pints of eac	h out	come	directly a	access orally
related with taking						-				-	ints on the
the course											
	midterm exam, he cannot take the next midterm exam. Once won points in intermediate exams for each learning outcome are no longer deleted unless the student decides to correct the result for each learning outcome, whereby the points won until then are deleted and newly achieved points for that learning outcome are entered. A student cannot access the										

	exam period if he / she has not submitted and presented seminar paper. The final grade is obtained on the oral part of the exam. 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 obligatory opinion of the course leader.
3.11 Students obligations	Full-time students are required to attend at least 70% of the total number of
3.12 Written assignments	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 consultations, organized 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 the event that a student is absent from more than 50% of classes, and has a justifiable reason / apology, a 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. Seminar papers must be computer written and may have a maximum of 12 text cards (Times New Roman, font 12) from introduction to conclusion, together with pictures, table appendices, etc. Seminar papers must have an adequate title page, content, marked pages and literature. The seminar paper should be
	divided into chapters and contain a list of references and a list of figures and
	tables and graphs and finally a summary / conclusion in the size of 250 words.
	The student guarantees the authenticity of the work with his signature.
3.13 Required reading	Ž. Panian, I. Strugar, Application of computers in business practice, 2.
	Synergy,Zagreb, 2004.
	<ol> <li>Grundler, Gvozdanović, Ikica,Kos, Lipljin, Milijaš, Srnec, Zvonarek:ECDL</li> <li>5.0 – Basic program, PRO-MIL, Varaždin, 2010</li> </ol>
	Nenad Breslauer: Computer Training Script Application in Business
	3. Practice
3.14 Additional reading	1. Materials on the e-learning system (moodle.srce.hr)
	2.
	3.
<b>4 ADDITIONAL COURSE INI</b>	
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	Interpret information, ideas, problems and solutions to professional and general audiences; Use new technologies and techniques as part of the lifelong learning process; Advocate an ethical approach to work and to associates in project teams

## 5. ANALYSIS OF COURSE TOPICS (the number of hours is equal to the number of lectures and exercises of the course)

	LECTURES								
Hours	Topic and description	Method	Learning outcomes	Course outcome					
1.	Introduction to the content of the course	Presentation, pp presentation,	Get to know students about the program, themes, and how to work	11					
2.	A brief history and trends in the development of information technologies.	Presentation, pp presentation, quiz	Present historical development of computers	11					
3. 4.	Number systems and data encoding.	Presentation, pp presentation, quiz	Perform operations in different number systems	11					
5. 6.	Data encoding in computer systems	Presentation, pp presentation, quiz	Explain how data is used in your computer	11					
7. 8.	System Software	Presentation, pp presentation	Explain what the relationship between software and hardware is and distinguish between different types of software	11					
9. 10.	Electronic computer build and mode	Presentation, pp presentation, quiz	Explain what individual parts of the computer are for and how parts merge into a computer system	11					
11. 12.	Computer memory	Presentation, pp presentation	Assess the impact of memory on the operation of the entire computer system	12					

	Organisation and management of		Distinguish	
13.	data	Presentation, pp	between different	11
14.	uata	presentation	ways to store data	11
15.			ways to store data	
15.	Colloquium			
10.			Explain Von	
			Neumanno's	
	Computer system model:		computer system	
17.	processor, input - output	Presentation, pp	model. The central	12
18.	subsystem of the computer	presentation	unit of the	12
	subsystem of the computer		computer. Input	
			Output Subsystem	
			Distinguish	
19.		Presentation, pp	between	
20.	Input and output devices	presentation	input/output	12
20.		presentation	devices	
			Explain basic	
			concepts and	
21.	Computer networks and the	Presentation, pp	procedures related	
21.	Internet	presentation	to the network and	11
	internet	presentation	the functioning of	
			the internet	
			Explain the types of	
23.	Internet and electronic business	Presentation, pp	events and their	11
24.		presentation	propagation	
			Identify the CAD	
			software solution in	
25.	Getting to know CAD systems	Presentation, pp	business and	15
26.	с ,	presentation	choose the most	
			efficient	
			Identify and define	
			terms as personal	
27		Duccentetien	computing,	
27. 28.	Selected topics of importance in informatics	Presentation, pp	nettiquette, blogs,	15
28.	informatics	presentation	aggregation,the	
			term"internet of	
			things"	
29.	Colloquium			
30.				
	EXEI	RCISES/ SEMINARS		0
Hours	Topic and description	Method	Learning outcomes	Course
			_	outcome
			Basic concepts related to	
			INFORMATICS and	
1	Learn about the program, themes,	Guided task, examples,		11
1.	and how to work	and self-creating tasks	a brief analysis of students' pre-	11
			knowledge and	
			experiences	
	MS Windows 10 operating system,	Guided task, examples,	Use The Computer	
2.	file system	and self-creating tasks	Environment	11
	ilie systerii	and sentereating tasks	Livioiment	

3.	Manage files	Guided task, examples, and self-creating tasks	Apply the file system to a convenient example of work.	11
4.	Manage files	Guided task, examples, and self-creating tasks	Apply the file system to a practical example of work	11
5.	Advanced Internet Search	Guided task, examples, and self-creating tasks	Explain how search engines and directories work on the Internet	11
6.	Using an email system	Guided task, examples, and self-creating tasks	Use the system to send and receive emails	11
7.	Text processing and formatting	Guided task, examples, and self-creating tasks	Create and format text	12
8.	Mail Merge	Guided task, examples, and self-creating tasks	Create a mail merge	12
9.	Styles, numbering, sections, and columns in a document	Guided task, examples, and self-creating tasks	Apply styles, numbering, sections, and columns	12
10.	Page numbering, table of contents	Guided task, examples, and self-creating tasks	Create page numbering and table of contents	12
11.	Working with tables	Guided task, examples, and self-creating tasks	Create Tables	13
12.	Macros, create, and fill a form	Guided task, examples, and self-creating tasks	Create a macro and form	13
13.	Colloquium 1	Independently	Verification of outcomes I4	13
14.				
15.	Spreadsheets, input and data type, formulas, operators, cell addresses, comments, worksheets	Guided task, examples, and self-creating tasks	Create and format a spreadsheet	14
16.	Format table, count, if, lookup, date and more, graphics,	Guided task, examples, and self-creating tasks	Apply functions	14
17.	Work with data, group, filter, sort, pivot tables	Guided task, examples, and self-creating tasks	Apply grouping, filtering, sorting, and pivoted tables	14
18.	Conditional formatting, solution search, data tables with one and two variables	Guided task, examples, and stand-alonetask	Apply conditional formatting, solution search, data tables with one and two variables	14
19.	Scenarios, macro command, and document protection	Guided task, examples, and self-creating tasks	Apply scenarios, macro command, and document protection	14
20.	Task	Guided task, examples, and self-creating tasks	Solve a set task on your own	14

21.	Presentations, theme selection,	Guided task, examples,	Create a	14	
21.	element input	and self-creating tasks	presentation	••	
22.	Curata a Mastar Clida	Guided task, examples,	Create a Master	14	
22.	Create a Master Slide	and self-creating tasks	Slide	14	
22	Dresentation offects	Guided task, examples,	Apply presentation	14	
23.	Presentation effects	and self-creating tasks	effects	14	
24		Guided task, examples,	Create output	14	
24.	Preparing output results	and self-creating tasks	results	14	
			Preparing the		
25.	Autocad	Guided task, examples,	working	15	
		and self-creating tasks	environment		
26.	Commands for editing drawings	Guided task, examples,	Apply commands to	15	
20.	Commands for editing drawings	and self-creating tasks	edit drawings,	IJ	
	Commands for manipulating	Guided task, examples,	Apply commands to		
27.	drawings	and self-creating tasks	manipulate	15	
	diawings	and sen-creating tasks	drawings		
	Straight and round-copy	Guided task, examples,	Apply commands		
28.	commands	and self-creating tasks	for rectilinear and	15	
	commands	and sen-creating tasks	circular copying		
29.	Colloquium 2	Indopondently	Verification of	14	
30.	Colloquium 2	Independently	outcomes I4	14	