

POLYTECHNIC OF MEÐIMURJE IN ČAKOVEC

COURSE SYLLABUS									
	ACADEMIC YEAR	: 20	22/20	23					
1. GENERAL COURSE INFO	RMATION								
1.1 Course name	Computer networks								
1.2 Study program/s	Undergraduate professional study of Computer Science								
1.3 Course status (O,E)	0		1.6 Mode of		Lectures			30	
1.4 Course code			instruction		Exe	ercises		30	
1.5 Course abbreviation	RMR		(ทเ	umber of	Ser	ninars			
1.6 Semester	4		hours)		E-learning				
1.7 ECTS	6		1.7 Place and time of Premises Međimurj			mises of th đimurje in	of the Polytechnic of in Čakovec,		
			ins	truction	according to the schedule				
2. TEACHING STAFE					pur			SILE	
2.1 Course leader/s-title	Jurica Trsteniak/ seni	or	contact	•	itrs	teniak@me	ev.hr		
	lecturer	-	contact	-					
			contact	t					
2.2 Assistant/s- title	Robert Poljak/ lecture	er	contact rober			bert.poljak@mev.hr			
			contact	t					
2.3 Instruction held by-	Jurica Trstenjak/ Seni	ior	contact	t					
title	lecturer Robert Poliak/ lecture	.r							
		,1							
3. COURSE DESCRIPTION									
3.1 Course goals	Introduction to the b computer networks transmission media a	asic co and the nd netw	oncepts eir com vork pro	, structure ponents s tocols.	and uch	l principles as netwo	s of op rk devi	eration of ces, data	
3.2 Prerequisites	No								
3.3 Course outcomes	After completing the c O1. Explain the basic reference OSI model O2. Implement netwo requirements of the n O3. Apply subnetting O4. Implement protect	course a communication rk traffic etwork techniq ction an	assignm unication c routing topolog ques to a d securi	nents, stude n protocols g mechanis y a network t ity in comp	ents and sms i opole uter	will be able services b in accorda ogy networks	e to: by layer nce with	s of the n the	
3.5 Types of coursework	Local Computer Networks:purpose, types, features, selection, application, configuration, cabling, advantages, disadvantages. Active devices: repeaters, routers. Wireless networks and home Wireless networks. Connecting computer equipment. Modems: types, limits, application, configuration. Data transfer to phone systems. Analog and digital telephony. ISDN. Mobile phones. Connections, applications, restrictions. Global computing networks: PSDN, ISO- OSI. Internet: organization, technology, protocols (TCP / IP, DNS, SMTP, FTP, Telnet, HTTP). Network services: mail, www. Security, risks and protection of computer networks.xLecturesxExercisesBlended e- learningIndividual activitiesxLaborator ySeminars and workshopsDistant learningField classesMultimedia and networkMentorsh ip								
	Other								

3.6 Language of	Croa	tian/En	nglish								
Instruction	Class attendance										
work (enter the	2 (L+E)		Seminars			Essay					
number of ECTS	Class activity		Р	Project		0,5	Report/paper		er		
credits for each	3.5 Exams (midterm)			Practical task				Cor	ntinuous		
activity so that the	5,5 Exams (minterm)							kno	wledge	check	
total number of	Written exam			E	Experimental work						
ECTS credits is equal		Oral ex	kam		R	lesear	rch				
to the total ECTS					I			1			
1 ECTS = 30 hours)											
3.8 Assessment and											
evaluation of			Activity	specifica	ation		Percent %	Po	ints		
students' work		Atto	ndanco	As	ssessment	durir	ng instruction		5		
during classes and at	Attendance Class activity				5%			5 5			
the final exam		Oral	part of m	idterm			12%	1	.2		
		Midt	term exan	n 1			30%	(1)	80		
		Midt	term exan	n 2			30%		30		
		Prac	tical task	coccmon	t for the c	tudon	18%	1 fullfil all	18 tha		
			LXUIII USS	bligator	v requiren	nents	during the semi	ester	liie		
		Writ	ten exam	5	, ,		60%	6	50		
		Oral	Exam				12%	1	12		
		Tota	l:				100%	1	00		
3.9 Assessment criteria –											-
analysis per learning				Ways of	ⁱ evaluatin	g leai	rning outcomes				
				1	1	0		1			
outcomes			Atten	Acti	Oral par	rt of	Mid-term	Mid-te	rm	Practi	
outcomes			Atten dance	Acti vity	Oral par midter	rt of rm	Mid-term exam 1	Mid-te exam	rm 2	Practi cal	Total
outcomes			Atten dance	Acti vity	Oral par midter	rt of rm	Mid-term exam 1	Mid-te exam	rm 2	Practi cal work	Total
outcomes	Outo	come 1	Atten dance	Acti vity	Oral par midter	rt of rm	Mid-term exam 1 15	Mid-te exam	rm 2	Practi cal work	Total
outcomes	Outo Outo	come 1 come 2 come 3	Atten dance	Acti vity	Oral par midter 3 3 3	rt of rm	Mid-term exam 1 15 15	Mid-te exam	rm 2	Practi cal work 4 4 5	Total 22 22 23
outcomes	Outo Outo Outo	come 1 come 2 come 3 come 4	Atten dance	Acti vity	Oral par midter 3 3 3 3	rt of rm	Mid-term exam 1 15 15	Mid-te exam	rm 2	Practi cal work 4 4 5 5	Total 22 22 23 23
outcomes	Outo Outo Outo Outo	come 1 come 2 come 3 come 4 come	Atten dance	Acti vity	Oral par midter 3 3 3 3 3	rt of rm	Mid-term exam 1 15 15	Mid-te exam 15 15	rm 2	Practi cal work 4 4 5 5	Total 22 22 23 23 10
outcomes	Outo Outo Outo Outo Outo not-	come 1 come 2 come 3 come 4 come related	Atten dance	Activity	Oral par midter 3 3 3 3	rt of rm	Mid-term exam 1 15 15	Mid-te exam 15 15	rm 2	Practi cal work 4 5 5 5	Total 22 22 23 10
outcomes	Outo Outo Outo Outo not- Tota	come 1 come 2 come 3 come 4 come related	Atten dance 5 5	Activity	Oral par midter 3 3 3 3 12 rder to r	rt of rm	Mid-term exam 1 15 15 30 the mid-term	Mid-te exam 15 15 30 exam/	rm 2	Practi cal work 4 5 5 18	Total 22 22 23 23 10 100
outcomes	Outo Outo Outo Outo Outo not- Tota Grad	come 1 come 2 come 3 come 4 come related ing of c	Atten dance 5 5 5 outcome	Activity 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Oral par midter 3 3 3 3 3 12 rder to p	nt of rm	Mid-term exam 1 15 15 30 the mid-term	Mid-te exam 15 15 15 30 exam/	rm 2	Practi cal work 4 4 5 5 18 n the st	Total 22 22 23 10 100 tudent
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outcomes	Outo Outo Outo Outo Outo not- Tota Grad must Point 89 – 76 –	come 1 come 2 come 3 come 4 come related ing of c c achiev ts 6 100 e 88 v	Atten dance	Acti vity 5 5 es (in o st 50% t (5) d (4)	Oral par midter 3 3 3 3 3 12 rder to p points fo	pass of each	Mid-term exam 1 15 15 30 the mid-term ach learning o	Mid-te exam 15 15 30 n exam/ outcome	rm 2 exan e)	Practi cal work 4 4 5 5 18 n the st	Total 22 22 23 10 100 tudent
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3.10 Specific features related with taking the course	Outo Outo Outo Outo Outo Outo Not- Tota Grad must Point 89 - 76 - 63 - 50 - 0 - In or of the a stu exam next outco for e	come 1 come 2 come 3 come 4 come related ing of c cachiev ts 6 100 e 88 v 75 g 62 p 49 fa der for e point dent d n (minir midter ome is ach lea	Atten dance	Acti vity 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Oral par midter 3 3 3 3 12 rder to p points for points for that lear ve a suff he total the total the earner eted unle	ours rning ficier num d in ess ti	Mid-term exam 1 15 15 30 the mid-term ach learning of the number of ber of points the midtern he student do he points ear	Mid-te exam 15 15 30 exam/ outcome ust earr r EACH I points s), he / s n exam ecides t	rm 2 exan e) exan e) exan in th she c s for o co far a	Practi cal work 4 4 5 5 18 n the st inimur ing out he 1st i cannot r each rrect th are dele	Total 22 23 23 10 100 tudent tudent n of 50% tcome. If midterm take the learning he result eted and
3.10 Specific features related with taking the course	Outo Outo Outo Outo Outo not- Tota Grad Must Point 89 - 76 - 63 - 50 - 0 - In or of th a stu exam next outco for e newl	come 1 come 2 come 3 come 4 come related ing of c c achiev ts C 100 e 88 v 75 g 62 p 49 fa der for e point der for e point der t d n (minin midter ome is ach lea y earne	Atten dance	Acti vity 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Oral par midter 3 3 3 3 12 rder to p points for points for that lear ve a suff he total i the total i the earner eted unle e, where hat lear	ours rning d in ess ti by ti	Mid-term exam 1 15 15 30 the mid-term ach learning of the mid-term ach learning of the midtern ber of points the midtern he student do he points ear outcome are	Mid-te exam 15 15 30 exam/ outcome ust earr FEACH I points b), he / s n exam ecides t rned so entered	rm 2 exan e) exan e) earn in th she c s for o co far a d. Th	Practi cal work 4 4 5 5 18 n the st inimur ing out ne 1st cannot r each rrect th are dele	Total 22 23 23 10 100 tudent tudent tudent tudent tudent

a submit al howework before taking the exam. In order to start writing the midterm exam, the student must complete all previous homework assignments. 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 at least 30% of the total number, 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 1. Tanenbaum, A.S.: Computer Networks, 5th Edition, Prentice Hall 2011. 3.13 Required reading 1. 2. 2. 4 ADDITIONAL COURSE INFORMATION 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 bylaxes of the Polytechnic of Medimurg in Cakwes. 4.2 Contact the teacher Students can contact the teacher during the office hours at during classes, while for short questions and explanations they can contact thin/her any day during working hours by cemain genssons bele for any possible or ask questions		Students who did not take the midterm exam take the written and oral part of					
Submit an indirevoit before taking the exam, in order to start withing the exam, in order to start withing the assignments. 3.11 Students obligation 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. 3.12 Written assignments 1. Tanenbaum, A.S.: Computer Networks, 5th Edition, Prentice Hall 2011. 2. 2. 2. 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 explanations and write advastance with the by-laws of the Polytechnic of Medimurje in Cakovec. 4.2 Contact the teacher Students can contact the teacher during the office hours and during classes, while for short quesitions and explanations they can contact h		the exam, where all learning outcomes are checked, and they are required to submit all homework before taking the exam in order to start writing the					
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 of between 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 1 Tanenbaum, A.S.: Computer Networks, 5th Edition, Prentice Hall 2011. 2. 2 1 3.13 Required reading 1 Tanenbaum, A.S.: Computer Networks, 5th Edition, Prentice Hall 2011. 2. 2 1 3.14 Additional reading 1 2 3.13 Required reading 1 1 2. 1 2 3.14 Additional reading 1 2 3.13 Required reading 1 2 3.14 Additional reading 1 2 3.13 Required reading 1 2		midterm exam, the student must complete all previous homework					
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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 assignments 1. Tanenbaum, A.S.: Computer Networks, 5th Edition, Prentice Hall 2011. 2. 2. 1. 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 with the by-laws of the Polytechnic of Medimurgie in Cakovec. 4.2 Contact the teacher Students can contact the teacher during the office hours and during classes, while for short questions by coming in person or by landline. It is also possible to ask questions 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 desir	3.11 Students obligations	Full-time students are required to attend at least 70% of the total number of					
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. 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 1. Tanenbaum, A.S.: Computer Networks, 5th Edition, Prentice Hall 2011. 2. 2. 1. 3.13 Required reading 1. Tanenbaum, A.S.: Computer Networks, 5th Edition, Prentice Hall 2011. 3.14 Additional reading 2. 1. 4 ADDITIONAL COURSE INFORMATION 4.1 Tanenbaum, A.S.: Computer Networks, 5th Edition, Prentice Hall 2011. 4.2 Contact the teacher 5.1 Students can contact the teacher during the office hours and during classes, while for short questions and explanations based on questions and explanations they can contact the teacher during the office hours and during classes, while for short questions and explanations they can contact the teacher during the Abours at a lasio possible questions during working hours by coming in person or by landline. It is also possible to sak questions by e-mail, which will be answered in 48 hours at the also possible to such as question		hours of lectures and exercises in order to exercise the right to take the exam.					
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