NAME OF THE COURSE	Computer networks						
Code	PMIC30	Year of study	GU-1 UGU-2 UGU-3				
Course teacher	prof.dr. sc. Marko Rosić mr. sc. Ante Burilović	Credits (ECTS)	5,0				
Associate teachers	lvica Andrun dipl. ing.	Type of instruction (number of hours)LS30		E 30	F		
Status of the course		Percentage of application of e-learning					
	COURSE D	ESCRIPTION					
Course objectives Course enrolment requirements and entry competences required for	The aim of the course of computer networks, architecture. Introduct media for data transfe No specific preconditio	is to teach students theor , network protocols, TCP / ion to basic components s <u>r and network protocols.</u> ons required, no entrance	etical and pra IP model and such as netwo competence	ctical bas I LAN rk device required.	sics es,		
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	networks with packet switching 2. describe basic mechanisms of operation and purpose of individual ISO- OSI level 3. demonstrate a particular network technology in practice 4. organize subnet 5. design a simple network						
Course content broken down in detail by weekly class schedule (syllabus)	<ul> <li>General introduction</li> <li>Introduction to comptopology) - 2 hours</li> <li>Network architecture</li> <li>Physical layer (OSI n</li> <li>Data link layer (OSI n</li> <li>The architecture of th</li> <li>hours</li> <li>Network layer (OSI n</li> <li>The architecture of th</li> <li>4 hours</li> <li>The transport layer (</li> <li>Application layer - 2</li> <li>Exercises (30 hours):</li> <li>Introduction to Comp</li> <li>Cables and numberii</li> <li>Commands - 2 hours</li> <li>Protocols (ARP) - 2 h</li> <li>Protocols (IP) - 4 hours</li> <li>IPv4 addresses - 2 h</li> <li>IPv4 subnet - 4 hours</li> <li>Application of the rul</li> <li>VLSM structure type</li> </ul>	(Internet, connect to the li uter networks (a division of (OSI model and TCP / IP nodel) - 3 hours model) - 3 hours ne local network (IEEE 802 nodel) - 2 hours ne TCP / IP model, networ TCP, UDP) - 4 hours hours outer Networking - 2 hours no systems - 2 hours sours urs iours rs s es for creating a network - tree - 2 hours	nternet,) - 2 hours of computer networks, ' model) - 2 hours '2 series of standards) - 6 rk layer in the Internet (IP) -				

Format of instruction	<ul> <li>☑ lectures</li> <li>☑ seminars and wo</li> <li>☑ exercises</li> <li>☑ on line in entirety</li> <li>☑ partial e-learning</li> <li>☑ field work</li> </ul>	orkshop	S	☐ ind ☐ mu ☐ lab ☐ wo ☐ hoi	epende Iltimedi oratory rk with meworl	ent assign a / mentor k assignn	nments nents	f
Student responsibilities	lectures and audito	ry exer	cises an	e a requ	liremer	nt for the	exam.	il .
	Name	Ects	Na	me	Ects	N	ame	Ects
Screening student work	Class attendance		Resea	arch		Experim work	nental	
(name the proportion of ECTS credits for each activity so that the total	Oral exam		Repor	t		Homew assignm	ork nents	
number of ECTS credits is equal to the ECTS value of	Seminar essay		Essay	'				
the course)	Tests	2.5	Practi trainin	cal Ig				
	Written exam	2.5	Projec	rt				
Grading and evaluating student work in class and at the final exam	Acquired knowledg passing exams and knowledge is forme activities in class, g written and oral exa Grades: • sufficient (2), mee described above is • good (3), the aver above is 61% to 70 • very good (4), the 80%, min. adopted • Excellent (5), the 100%, min. adopted	e of the l / or wr ed in the rades in aminatio ts the n 50% to age suc %, min knowle outcom knowled d outco	e studen itten ex e oral ex n addition on. ninimun 60%, r ccess th edge of tes are dge of t mes of	It is asse am. The caminati onal exa n criteria nin. ado ne know ed outco the outco 1., 2,, 3 he outco the 1., 2	essed c e final g on as a mination a, the k pted ou ledge c mes ar omes c . and 4 omes d	during the rade of the ons and a nowledge utcomes a of the oute re 1., 2. a described escribed . and 5.	e classes an ne student's n rating of s assessment e of the outc are 1. and 2 comes desc and 3. I above is 7 above is 81	tudent s comes cribed 1% to % to
	1	<b>Fitle</b>			Nur coj the	nber of pies in library	Availabili other m	ty via edia
Required literature	A.S.Tanenbaum, "C 5th Ed., Prentice-Ha	ompute all, 2011	er Netwo	orks",		0		
(available in the library and via other media)	L.Peterson, B.Davie Networks: A System Morgan Kaufmann F	e, "Com ns Appr Publishe	puter oach", 4 ers, 200	4th Ed., )7		0		
	L. Maleš, Skripa "Ra Fakultet prirodoslov znanosti i odgojnih p	ačunaln no-mato oodručja	e mrežo ematičk a, 2004	e",		0		

Optional literature (at the	
time of submission of study	
programme proposal)	
Quality assurance	• Completed all exercises and presence on more than 70% of lectures and
methods that ensure the	exercises are a requirement for the exam.
acquisition of exit	• During the semester assessment by colloquium is done (2 x theoretical
competences	part, and 2 x exercises part)
Other (as the proposer	
wishes to add)	