1.	Course Title	Wireless Multimedia Systems					
2.	Code	F18L3S077					
3.	Study program	Software engineering and information systems					
4.	Study Program Organizer	Faculty of Computer Science and Engineering					
5.	Degree (first, second, third cycle)	first cycle					
6.	Academic year / semester 3 / summer / optional	7. ECTS credits 6					
8.	Teacher	assistant professor Milosh Jovanovikj					
9.	Course enrollment prerequisites	Безжични мобилни системи					
10.	Course program goals (competencies): Understanding the issues arising from transferring multimedia over wireless and mobile networks. Getting familiar with the concepts of design, analysis and implementation of wireless and mobile multimedia systems. Learning multimedia coding techniques, multimedia transport protocols in wireless networks, multimedia control protocols in wireless networks. Learning multimedia traffic specifics. Being able to practically provide multimedia application QoS for wireless mobile devices.						
11.	Course program content: (1) Overview of advanced trends in wireless communication (1) Overview of multimedia coding techniques, multimedia transport and control protocols (2) Digital TV (2) Mesh, Relay and Interworking networks (2) Wireless video streaming (2) Green communications in home wireless multimedia networks (2) Congestion control protocol for wireless multimedia networks (2) Wireless multimedia networks with cognitive radio (1) Wireless multimedia sensor networks						
12.	Learning methods: Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.						
13.	Total available time	6 ECTS x 30 hours = 180 hours					
14.	Distribution of the available time	30 + 45 + 15 + 15 + 75 = 180 hours					
15.	Teaching activity forms	15.1. Lectures – theoretical 30 hours teaching					

		15.2.	Exercises (labora auditory), seminar pateamwork		45 hours	
16.	Other activity forms 16.		. Project Tasks		15 hours	
		16.2.	Independent Lea Tasks	rning	15 hours	
		16.3.	Home learning		75 hours	
17.	Assessment methodology					
	17.1. Tests			10 points		
	17.2. Seminar paper/project (presentation: written and oral)				10 points	
	17.3. Activity and learning				10 points	
	17.4. Final exam	70 points				
18.	Assessment criteria (points/grade)	uj	o to 50 points	5 (fiv	e) (F)	
		5	1 to 60 points	6 (six	(E)	
				7 (seven) (D)		
					(ht) (C)	
				9 (nin	ne) (B)	
					en) (A)	
19.	Course completion and final ex requirements	am R	Realized activities 15.1 a	and 1:	5.2	
20.	Teaching Language	N	Macedonian and English	1		
21.	Teaching quality evaluation method	qı	Internal evaluatio	n 1	mechanisms and	
22.	Course Material					
	22.1. Mandatory course material					

	No	Author	Title	Publisher	Year			
	1	Benny Bing	Broadband Wireless Multimedia Networks	2013				
	2	K.R. Rao, Zoran S. Bojkovic, Bojan M. Bakmaz	Wireless CRC Pr		s 2014			
	3	Savo Glisic	Advanced Wireless Networks: Technology and Business Models (3rd Edition)	Wiley	2016			
22.2.	Additional course material							
	No.	Author	Title	Pı	ublisher Year			