	Course Title	Client side Inernet programming						
2.	Code	F18L2W109						
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 2 / winter / mandatory	7. ECTS credits 6						
8.	Teacher	full professor Suzana Loshkovska, assistan professor Ivan Kitanovski						
9.	Course enrollment prerequisites	Објектно-ориентирано програмирање						
10.	client side programming. In this regarded programming languages and technique): ble students to familiarize themselves with the Internet ard, students will be introduced to some of the client hnologies. Upon completion of the course, the student eractive web pages using programming languages for						
11.	Course program content: Introduction, basic concepts of client side programming, rules for writing client side programs. Web application architecture. Introduction to scripting. JavaScript - variables, control structures, functions, fields and objects. Document Object Model. JavaScript - handling errors and exceptions, events. JQuery - syntax, selectors, methods, adding interactivity to web sites. JSON - syntax and application for data exchange. Ajax - connection to the server side and data exchange.							
	1	• • • •						
12.	Connection to the server side and data Learning methods: Lectures using presentations, interac	tive lectures, exercises (using equipment and software invited guest lecturers, independent preparation and						
12.	Learning methods: Lectures using presentations, interac packages), teamwork, case studies,	tive lectures, exercises (using equipment and software invited guest lecturers, independent preparation and						
	Learning methods: Lectures using presentations, interac packages), teamwork, case studies, defense of a project assignment and s	tive lectures, exercises (using equipment and software invited guest lecturers, independent preparation and eminar work.						

16.	Other activity forms			16.1.	Project Tasks		15 hours				
					16.2.	Independer Tasks				15 hours	
					16.3.	Home learn	ning		75 hou	rs	
17.	Assessment methodology										
	17.1.	Tests					0 points		ints		
	17.2.	7.2. Seminar paper/project (presentation: written and oral)							20 points		
	17.3.	. Activity and learning					10 points				
	17.4. I	Final ex	xam				70 points				
18.	Assessment criteria (points/grade)					p to 50 poin	ts 5 (five) (F)				
				u & ,		1 to 60 poin					
						1 to 70 poin	<u> </u>				
					_	1 to 80 poin					
					1 to 90 poin						
						1 to 100 poi			en) (A)		
19.	Course	e con	npleti	on and final		Realized acti		and 1	5.2		
	require	rements									
20.	Teachi	ing Language Macedonian and English									
21.	Teachi	ing quality evaluation method				Internal evaluation lestionnaires			mechanisms and		
22.	Course	e Mate	rial		! .						
	22.1.	Mand	latory	course material	1						
		No	Author Deitel, Paul J.		Title			ner Year			
		1			Internet and world wide web: how to program		Pearson Education, Inc.		2012		
		2		oin Nixon	Learning PHP, MySQL & JavaScript		O'Reilly Media, Inc.,		2015		
	3 Nicholas C. Zak				JavaScript for Web Developers		Wrox 2012				
	22.2.	Addit	tional	course material							
	No. Author				Title		Publi	Publisher Year			
1				_				_			