

1.	Course Title	Information Systems Analysis and Design
2.	Code	F18L3W075
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 4 / winter / mandatory	7. ECTS credits 6
8.	Teacher	full professor Vladimir Trajkovikj
9.	Course enrollment prerequisites	Бази на податоци
10.	<p>Course program goals (competencies):</p> <p>Students will be introduced with contemporary techniques for information systems analyses and design. Presentation of different recent case studies for information system design and implementation methodologies. They will be able to perform practical user requirements analyses and create effective models in different phases of information system development, with focus on analyses and design phases. After the course, the student will be able to demonstrate knowledge of novel approaches in the process of information system analyses and design.</p>	
11.	<p>Course program content:</p> <p>What are the roles of business analyst and system analyst? Information systems definitions and components. General paradigms for information systems analyses and design. Feasibility study. Features of a project based information system design. Data and process modeling. Creating effective specification. Information system quality of assurance approaches. Information system design. Agile approach for information systems implementation. Basic principles of specification by example.</p>	
12.	<p>Learning methods:</p> <p>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.</p>	
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 teaching	30 hours
		15.2.	Exercises (laboratory, auditory), seminar papers, teamwork	45 hours
16.	Other activity forms	16.1.	Project Tasks	15 hours
		16.2.	Independent Learning Tasks	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)		up to 50 points	5 (five) (F)
			51 to 60 points	6 (six) (E)
			61 to 70 points	7 (seven) (D)
			71 to 80 points	8 (eight) (C)
			81 to 90 points	9 (nine) (B)
			91 to 100 points	10 (ten) (A)
19.	Course completion and final exam requirements	Realized activities 15.1 and 15.2		
20.	Teaching Language	Macedonian and English		
21.	Teaching quality evaluation method	Internal evaluation mechanisms and questionnaires		
22.	Course Material			
	22.1.	Mandatory course material		

No	Author	Title	Publisher	Year
1	Gary B. Shelly, Harry J. Rosenblatt	Systems Analysis and Design, Ninth Edition	Course Technology, Cengage Learning	2012
2	ALAN DENNIS Indiana University, BARBARA HALEY WIXOM University of Virginia, ROBERTA M. ROTH University of Northern Iowa	SYSTEM ANALYSIS AND DESIGN, Fifth Edition	John Wiley & Sons, Inc	2012
3	Gojko Adzic	SPECIFICATION BY EXAMPLE	Manning Publications Co	2011
4	Владимир Трајковиќ	Работна Скрипта по предметот		2016
22.2.	Additional course material			
No.	Author	Title	Publisher	Year