1.	Course Title	Probability and statistics
2.	Code	F18L2W006
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 / optional	7. ECTS credits 6
8.	Teacher	full professor Zhaneta Popeska, full professor Verica Bakeva, associate professor Marija Mihova, assistant professor Natasha Ilievska, assistant professor Biljana Tojtovska, assistant professor Aleksandra Popovska Mitrovikj
9.	Course enrollment prerequisites	Калкулус или Калкулус 2 или Бизнис статистика
10.	their application in computer science	es): ic concepts of probability and statistical analyses with ces. The knowledge of this subject is solid support for f probability and statistics are applied.
11.	probability space. Classical definiti Independence of random events. Be Random vectors: marginal and cor Numerical characteristics of rand correlation coefficient between two theorem. Elements of statistics: Elementary data analyses and descri Distributions of sample statistic distribution and F-distribution.	pility of random events. Probability properties. Discrete on of probability. Conditional probability. Bayes' rule. ernoulli's scheme. Discrete and continuous distributions. nditional distributions. Functions of random variables. lom variables: mean, variance of random variable, random variables. Law of large numbers.Central limit population and sample, parameters and statistics. iptive statistics. Mathematical model of random sample. cs: Normal distribution, t-distribution, Chi-square Point estimation: method of moments, maximum intervals. Parametric tests. Nonparametric tests. Linear ors.
12.	• •	active lectures, exercises (using equipment and software , invited guest lecturers, independent preparation and seminar work.
1		

14.	Distribution of the available time		45+45+0+45+4	15 = 1	80 hours		
15.	Teaching activity forms	1	Lectures – theor teaching	etical	45 hours		
			<u> </u>		45 hours		
16.	Other activity forms	16.1.	Project Tasks		0 hours		
		16.2.	Independent Lea Tasks	rning	45 hours		
		16.3.	Home learning		45 hours		
17.	Assessment methodology		1				
	17.1. Tests		0 points				
	17.2. Seminar paper/project (presentation: written and oral)				0 points		
	17.3. Activity and learning				0 points		
	17.4. Final exam			100 լ	points		
18.	Assessment criteria (points/grade)	uŗ	to 50 points	5 (fiv	re) (F)		
			to 60 points	6 (six) (E)			
			to 70 points	7 (sev	ven) (D)		
			to 80 points		ght) (C)		
					ne) (B)		
		91	to 100 points	<u>10 (te</u>	en) (A)		
19.	requirements		ealized activities 15.1		5.2		
20.	Teaching Language	N	Iacedonian and English	1			
21.	Teaching quality evaluation method	զւ	Internal evaluation ev	n :	mechanisms	and	
22.	Course Material						
	22.1. Mandatory course material						

1 2 3	Верица Бакева D. C. Montgomery, G.C. Runger Geza Schay	BepojaTHOCT Applied Statistics and Probability for Engineers	УКИМ John Wiley & Sons, Inc.	2015 2003	
	Montgomery, G.C. Runger	and Probability for Engineers	5	2003	
3	Geza Schav				
	Geza Senay	Introduction to probability with statistical applications	Birkh äuser	2007	
4	Michael Baron	Probability and statistics for computer scientists	Chapman & Hall/CRC	2007	
dditi	onal course material			,	
lo.	Author	Title	Pub	olisher	Year
•	dditi	dditional course material	4 Michael Baron Probability and statistics for computer scientists dditional course material	applications applications   Michael Baron Probability and statistics for Hall/CRC computer scientists   dditional course material statistics	applications applications   Michael Baron Probability and statistics for computer scientists Chapman & 2007   dditional course material Michael Baron Hall/CRC Hall/CRC