NAME OF THE COU	IRSE	STATISTICS								
Code	EUA00	4	Year of	study		1				
Course teacher	Full pro Pivac, l Assista Šestan	ofessor Snježana PhD nt professor Tea ović, PhD nt professor Marija	Credits (ECTS)							
Associate teachers	Assista Vukovi	nt professor Marija ć, PhD	Type of (numbe			L 26	S	E 26	F	
Status of the course	Manda	-		tion of	f e-learning					
		COURSE		RIPTIC	N					
Course objectives	work. lı researc make c	tanding the importan ndependent processi ch. Statistical way of conclusions in interva	ng and i thinking Il estima	nterpr with p tions a	etation of da robability th and hypothe	ata obtai eory. At sis testii	ined thro pility to ir ng.	ough sta ndepend	tistical lently	
Course enrolment requirements and entry competences required for the course	Course signature requirements : as determined by the Statute of the Faculty of Economics and Rules and Regulations for Studies and Study Programmes. Entry competencies : English language proficiency level B2-C1 (CEFR) and computer skills (Microsoft Office Package).									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 To analyze and interpret the results of statistical research. Specific learning outcomes: To identify basic statistical concepts. To analyze the calculated indicators of the descriptive statistics in the population. To identify the underlying concepts of probability theory and inferential statistics. To estimate the parameters of the population using sampling method with one number and interval. To make conclusions based on statistical hypotheses. 									
Course content		Lectures				Exe	ercises			
broken down in detail by weekly class schedule (syllabus)		Торіс		Hours		Topi	с		Hours	
	The c statist Data	ation.	1	statistics. S Data collec	s. Statistical population.			1		
	Forming statistical series. Graphical presentation. Rela numbers.			2		statistical series. al representation. numbers.			2	
	Meas	ency	2	Measures	of Central Tendency			2		
	Meas		1	Measures	es of Variation.			1		
	Mome Meas kurtos		s. 1 Moments of numerical serie Measures of skewness and kurtosis.				1			

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	Probability. A		d	1		y. Addition and	1			
	multiplication theorem. Conditional probability.					multiplication theorem. Conditional probability.				
	Discrete random variable. Theoretical distribution of				Discrete random variable.					
					Theoretical distribution of					
	discrete rando					andom variables.				
							2			
	Two-dimensional probability distribution. Marginal probability distribution.			2	Two-dimensional probability distribution. Marginal probability					
					distribution.					
	Continuous ra	andom var	iable			us random variable.				
	Theoretical di			2		al distribution of	2			
	continuous ra					s random variables				
	Sample. Sam					Sample selection				
	methods. Esti			2		Estimation of	2			
	population me				population					
			n total				1			
	Estimation of population total. Estimation of population				Estimation of population total. Estimation of population					
	proportion. Es		2	proportion. Estimation of						
	population va					n variance.				
	Hypothesis te		uta	2		is testing about a	2			
	population me			_	population					
	Hypothesis te		ut the			is testing about the				
	difference bet			~		between two				
	population me			2	population	n means. Hypothes	is 2			
	testing about					out population				
	proportion.	F - F			proportion					
	Hypothesis te	sting abou	ut the			is testing about the				
	difference bet			2		between two	2			
	population pro					n proportions. Chi-				
	squared good					joodness of fit test.				
	Chi-squared t			2		ed test for	2			
	independence				independ					
	lectures				•					
	□ seminars and workshops				independent assignments					
F					□ multimedia					
Format of					laboratory					
instruction	□ <i>on line</i> in entirety				□ work with mentor					
	✓ partial e-learning				□ (other)					
	☐ field work				•	·				
	Students are re	equired to	actively par	ticipa	ate in classe	es during lectures a	nd			
	exercises, with	the attend	dance of mir	nimu	m 50%. Ado	ditionally, students'	activity will			
Student						ll be available to stu	•			
responsibilities		•		•		ase the student take				
				•		student will be den				
	signature. The	•	•							
	-		ior taking th		un is a siyi					
Screening student	Class	2	Research			Practical training				
work (name the	attendance	<u> </u>				Self-evaluation				
proportion of ECTS	Experimental		Report				0.5			
credits for each	Essav Seminar		Sominar			quizzes				
activity so that the						(Other)				
total number of ECTS credits is	Taata	essay			5*	(Other)				
equal to the ECTS	Tests	2*	Oral exam	1	.5*	(Other)				
	Written exam	2*	Project			(Other)				
value of the course)	Wilden exam	1	,							
,		sists of wri	-	al par	t.					
value of the course) Grading and evaluating student	The exam cons		tten and ora	•		condition for taking	all the			

work in class and at the final exam	tests is that the student has solved at least one of the self-evaluation quizzes from the part of the material that is evaluated by the test. The test is deemed to be passed if the student correctly and neatly solves and interprets at least 50% of the tasks. Additional condition for accessing the second test is the positively resolved first test. The total score on the written part of the exam is based on the sum of the scores obtained on both tests. Alternatively, students can pass the written exam during the exam period. * A student who achieves a positive grade from the first and second test, does not have to take the written exam. After successfully passing the written part one can undertake the oral part of the exam. The final grade is formed as the average score of the written and oral exam. Key points and appropriate grades for written exam: 0-49 inadequate (1) 50-62 sufficient (2) 63-75 good (3) 76-88 very good (4) 89-100 excellent (5)				
	Title	Number of copies in the library	Availability via other media		
Required literature (available in the library and via other media)	Rozga, A.: Statistika za ekonomiste, Ekonomski fakultet, Split, 2017.	10			
	Newbold P. et al.: Statistics for Business and Economics, 8 th Ed., Pearson Education, Prentice Hall, Upper Saddle River, NY, 2013. Teachers' handouts and other on-line materials for preparation of mid-term exams and final exams	1	Moodle		
	(available on the Mooodle).				
Optional literature (at the time of submission of study programme proposal)	 Vuković, M., Pivac, S., Does financial behavior mediate the relationship between self-control and financial security?, Croatian operational research review, 12 (2021), 1; pp 27-36. Vuković, M., Pivac, S., Babić, Z., Comparative analysis of stock selection using a hybrid MCDM approach and modern portfolio theory, Croatian Review of Economic, Business and Social Statistics (CREBSS), 6 (2020), 2; pp 58-68. Aljinovic Z., Pivac S., Skrabic Peric B., European Transition Countries' Risk Classification and Ranking: Ten Years Later, Proceedings of the Twelfth International Conference: "Innovative Responses for Growth and Competitiveness", Bol, Croatia, May 2017. Bahovec V. et al.: Statistika, Bahovec V., Erjavec N. (ur.), Zagreb: Element, 2015. Croatian bureau of statistics (<u>www.dzs.hr</u>) 				
Quality assurance methods that ensure the acquisition of exit competences	 Monitoring obligations of students (teacher) Control of Teaching (Vice-Dean) Analysis of students' success in all subjects of study (Vice-Dean) Student survey on the quality of teachers and teaching for each course of study (UNIST, Centre for Quality Improvement) Exam administered by the subject teacher validates all the learning outcomes of the course. The contents of the exam are periodically reviewed. This revision is the basis for determining the adequacy of the ways of checking learning outcomes (Vice-Dean) 				

Other (as the	
proposer wishes to	
add)	