NAME OF THE COU	IRSE	STATISTICS								
Code	EUA004		Year of stu	1						
Course teacher	PhD, Snježana Pivac, full professor PhD, Tea Šestanović, Assistant professor		Credits (EC	CTS)	6					
Associate teachers	PhD, Tea Šestanović, assistant professor Marija Vuković, mag. oec. Karmen Vrhar, mag.oec. Nada Ratković, mag. oec.		Type of instruction (number of hours)		L 26	S	E 26	F		
Status of the course	Manda	tory		of e-learning	e-learning					
		COURSE	DESCRIPT	ION						
Course objectives	work. In	tanding the importan- ndependent processil ch. Statistical way of t conclusions in interval	ng and inter thinking with	pretation of d probability th	ata obtai neory. Ab	ned thro ility to ir	ough sta	tistical		
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)	<ol> <li>To analyze and interpret the results of statistical research.</li> <li>Specific learning outcomes:</li> <li>To identify basic statistical concepts.</li> <li>To analyze the calculated indicators of the descriptive statistics in the population.</li> <li>To identify the underlying concepts of probability theory and inferential statistics.</li> <li>To estimate the parameters of the population using sampling method with one number and interval.</li> <li>To make conclusions based on statistical hypotheses.</li> </ol>									
Course content broken down in	Lectures Exercises									
detail by weekly class schedule (syllabus)		Topic	Нои	rs	Торіс			Hours		
	statist Data	oncept and the scope tics. Statistical popula collection.		The concestatistics. Data colle	Statistica ction.	al popula		1		
	Forming statistical series Graphical presentation. F numbers.		elative 2	Forming s Graphical Relative r	represe			2		
	Measures of Central Tend		ency 2	Measures	Measures of Central Tende		ency	2		
	Measures of Variation.		1	Measures	of Variat	tion.		1		
		ents of numerical seri ures of skewness and sis.			ments of numerical series. asures of skewness and osis.			1		

	Probability. A		d	1		y. Addition and	1			
	multiplication theorem. Conditional probability.  Discrete random variable. Theoretical distribution of			•	multiplica	'				
					Conditional probability.  Discrete random variable.					
				2		2				
					Theoretical distribution of discrete random variables.					
	discrete random variables.					wo-dimensional probability				
	Two-dimensional probability distribution. Marginal probability distribution.  Continuous random variable. Theoretical distribution of continuous random variables.			2		distribution. Marginal probability				
						ility				
					distribution.  Continuous random variable.					
				2	Theoretical distribution of					
						s random variables				
	Sample. Sam			2	Sample. Sample selection					
	methods. Est				methods. Estimation of					
	population me				population mean. Estimation of population total.					
	Estimation of population total.			_		l. 2				
	Estimation of			2		Estimation of population				
	proportion. Estimation of				proportion					
	population variance.				population variance.					
	Hypothesis testing about a			2		is testing about a	2			
	population me					pulation mean.				
	Hypothesis testing about the				Hypothesis testing about the					
	difference between two population means. Hypothesis testing about population			2	difference between two population means. Hypothesis					
						g about population				
	proportion.				proportion.					
	Hypothesis testing about the difference between two population proportions. Chi-			_	Hypothesis testing about the difference between two					
				2						
					population proportions. Chi-					
		squared goodness of fit test. Chi-squared test for			squared goodness of fit test.					
					Chi-squared test for independence.					
	independence	<del>.</del>			паерепа	ence.				
	☑ <u>lectures</u>				☐ independent assignments					
	□ seminars and workshops ☑ exercises				☐ multimedia					
Format of				□ laboratory						
instruction	☐ on line in entirety				•					
	<b>☑</b> partial e-learning				□ work with mentor					
	☐ field work				□ (other)					
	Students are re	equired to	actively par	ticina	ite in classe	es during lectures a	nd			
	Students are required to actively participate in classes during lectures and									
a	exercises, with the attendance of minimum 50%. Additionally, students' activity will									
Student	be monitored through self-evaluation quizzes that will be available to students on									
responsibilities	the course websites within the Moodle platform. In case the student take									
	two self-evaluation quizzes during the semester, the student will be denied a signature. The condition for taking the exam is a signature.									
	ŭ	condition	for taking th	e ex	am is a sigr	nature.				
Screening student	Class	2	Research			Practical training				
work (name the	attendance	_	1.000001011							
proportion of ECTS	Experimental		Report			Self-evaluation	0.5			
credits for each	work	WOIK				quizzes	J.0			
activity so that the	Essay		Seminar			(Other)				
total number of	,		essay			` ,				
ECTS credits is equal to the ECTS	Tests	2*	Oral exam	1	.5*	(Other)				
value of the course)	Written exam	2*	Project			(Other)				
Grading and	The exam cons	sists of wri	tten and ora	ıl par	t.					
evaluating student				•		condition for taking	all the			
Staldalling Stadont	2 anning the och	.55151 1440	COCC WIII DO	- Gryc	<u>2</u> 00. 1110	condition for taking	, an and			

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 <sup>th</sup> 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 (available on the Mooodle).		Moodle		
Optional literature (at the time of submission of study programme proposal)	<ul> <li>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.</li> <li>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.</li> <li>Aljinovic Z., Pivac S., Skrabic Peric B., European Transition Countries' Risk Claccification and Ranking: Ten Years Later, Proceedings of the Twelfth International Conference: "Innovative Responses for Growth and Competitiveness", Bol, Croatia, May 2017.</li> <li>Bahovec V. et al.: Statistika, Bahovec V., Erjavec N. (ur.), Zagreb: Element, 2015.</li> <li>Petz, B.: Osnovne statističke metode za nematematičare. Naklada Slap. Jastrebarsko, 1997.</li> <li>Serdar, V. i Šošić, I.: Uvod u statistiku. Školska knjiga. Zagreb, 2004.</li> <li>Šošić, I.: Primijenjena statistika. Školska knjiga. Zagreb, 2004.</li> <li>Croatian bureau of statistics (www.dzs.hr)</li> </ul>				
Quality assurance methods that ensure the acquisition of exit competences	<ul> <li>Monitoring obligations of students (teacher)</li> <li>Control of Teaching (Vice-Dean)</li> <li>Analysis of students' success in all subjects of study (Vice-Dean)</li> <li>Student survey on the quality of teachers and teaching for each course of study (UNIST, Centre for Quality Improvement)</li> <li>Exam administered by the subject teacher validates all the learning</li> </ul>				

	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)	