NAME OF THE COURSE									
Code	EUBD2	7	Year of stu	dy	1				
Course teacher	Prof. Bi Maraso Prof. Si PhD, Assist.	ranka vić, PhD,	Credits (EC		5				
Associate teachers		linić, mag. math.	Type of ins (number of		L S		E 26	F	
Status of the course	Optiona		Percentage application	e of of e-learning	30				
		COURSE	DESCRIP	ΓΙΟΝ					
Course objectives	The main aim of the course is to ensure the acquisition of knowledge and skills for application mathematical and statistical models on solving insurance problems.								
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.								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Select and combine mathematical and statistical tools to solve insurance issues.  Specific learning outcomes:  1. Create mortality tables 2. Estimate the probabilities of survival and death based on mortality tables 3. Estimate the value of net premium for different types of insurance 4. Estimate the value of gross premium 5. Estimate mathematical reserve values by retrospective method and prospective method 6. Compare the insurance offers of different insurance companies based on acquired knowledge								
	Lectures			Exercises					
Course content broken down in detail by weekly class schedule (syllabus)		Topic	Hours	-	Горіс		Hours		
	and e	ples of Insurance. Ta lements of actuarial ization. Probability us.	sks 2	and elements	rinciples of Insurance. Tasks and elements of actuarial ganization. Probability alculus.				
	The basic deterministic mode Mortality table. Constructing the mortality table from the values of qx. Life expectancy		g 2	the mortality	terministic e. Constructing 2 table from the Life expectancy.		-		
	Standard notation and terminology. Commutations symbols.		s 2	Standard not					
		<del>510.</del>						_	
	pure e	ance of a single life. T endowment insurance fe annuity. A whole-lif	, 2	Insurance of pure endown The life annu	nent insu	ırance	2		

	The life annui		ır	2			uity. N-year		2	
	The life assurance. The The life		he life assu	ife annuity. urance. The es of life		2				
	assurance.	or inc				different types of life assurance.			-	
	Combined insurance.		2	С	ombined in	oined insurance.		2		
	Different types of premium annuities.		ium	2		ifferent typ nnuities.	es of premium		2	
			ross premi	um calculation		2				
	Mathematical Prospective a			2	P	rospective	al reserves. and retrospecti	ve	2	
	calculations.			_	_	alculations.			2	
	Multiple-life co			2		lultiple-life ( everance p			2	
	Geverance pa	ı y				everance p	оду		2	
	☐ lectures ☐ seminars and	d worksho	nns			-	t assignments			
Format of	□ exercises □ □ multimedia									
instruction		Lon line in entirety			•					
		□ partial e-learning					entor			
	☐ field work	<del>-</del>			⊔ (0	other)				
	Students are re	•					•			
	Students' activity will be monitored through self-evaluation quizzes that will be									
Student	available to students on the course websites within the Moodle platform. In case the									
responsibilities	student takes less than two self-evaluation quizzes during the semester and attends									
	less than 50%						will be denied a	a signat	ture.	The
	condition for taking the exam is a signature.									
Screening student work (name the	Class attendance	2	Researc	ch			Practical trainir			
proportion of ECTS credits for each	Experimental work		Report				Self-evaluation quizzes	0.5	i	
activity so that the total number of	Essay		essay	Seminar essay			(Other)			
ECTS credits is equal to the ECTS	Tests	2.5*	Oral exa			1	(Other)			
value of the course)	Written exam 1,5 Project				(Other)					
Grading and evaluating student work in class and at the final exam										
Required literature (available in the			Title				Number of copies in the library	Availa othei	_	

library and via other media)	Marasović, B., Pivac, S., Kalinić, T., Aktuarska matematika, Sveučilište u Splitu, Ekonomski fakultet, Split, 2019.	10					
Optional literature (at the time of submission of study programme proposal)	Knjige: S. David Promislow, Fundamentals Of Actuarial Mathematics ( 3rd Edition ), Wiley, 2015.  Gerber, H.U., Life Insurance Mathematics, Springer-Verlag Berlin and Swiss Association of Actuaries Zurich, 1997.  Bowers, N. et al., Actuarial Mathematics, 2nd edition, Society of Actuaries, 1997. Vranić, V., Osnove financijske i aktuarske matematike, Školska knjiga, Zagreb, 1985.  Andrijašević, S., Petranović, V., Ekonomika osiguranja, Alfa, Zagreb, 1999.  Članci:  Pivac, S., B. Marasović, D. Kovać (2015): Economic and Demographic Determinants of Demand for Life Insurance, Proceedings of the 13 <sup>th</sup> International Symposium on Operational Research SOR'15, Bled, Slovenia, September 23-25,						
Quality assurance methods that ensure the acquisition of exit competences	Registering students' success in carrying out of their duties (lecturer).  Monitoring lectures and practice sessions (Vice Dean for Education).  Students' Performance analysis in each course (Vice Dean for Education).  Student questionnaire on the quality of lecturers and lessons for each course (University of Split, Quality Assurance Centre)  Examination is used as an instrument to evaluate individual course outcomes by the course lecturer. The content of exam is reassessed periodically in order to assure compliance with the course outcomes.						
Other (as the proposer wishes to add)	The course is taught in Croatian.						