COURSE TITLE	BUSINESS MATHEMATICS					
Course code	SRF003	Year of study	First			
Lecturer(s)	Renata Kožul Blaževski, University Specialist of Economics, senior lecturer	ECTS (Number of credits allocated)	6			
Associates	/	Total lesson hours per semester	Lecture	Seminar	Practical	Laboratory
			30		30	
Course status	Compulsory	Percentage share of e-learning	20%			

COURSE DESCRIPTION

Course Objectives	• To acquire knowledge of the basic terms in the areas of business calculus, interest account, use of compound interest account and loan. • To solve business problems independently.
Course enrolment requirements and entry competencies required for the course	/
Learning outcomes On successful completion of this course, student should be able to:	1. Explain the basic terms and the basic methods in the area of business calculus. 2. Define the basic terms of interest account, use of interest account and loan. 3. Solve the problems in the areas of business calculus, simple and compound interest account, use of compound interest account, loan and consumer credit. 4. Explain the effects of decursive and anticipative investment of money at interest as well as simple and compound interest account. 5. Connect acquired knowledge and skills with practical problems in economic practice.
Course content	Introduction. Basic business calculus: Ratios and proportions. Rule of three (simple and compound). Percentage calculus. Division calculus (simple and compound). Mixture calculus (simple and compound). Basic interest account: Interest and interest rates. Decursive and anticipative investment of money at interest. Simple interest account. Compound interest account. Types of interest rates. Use of compound interest account: Final value of a series of periodic payments (withdrawals). Present value of periodic payments (withdrawals). Perpetuity. Continuous compounding. Loan: Basic terms and loan repayment table. Effective interest rate. Loan repayment model of equal annuities. Intercalary interest. Loan reprogramming or conversion. Incomplete or defective annuity. Loan repayment model of equal share payments. Loan repayment model with anticipative interest rates. Consumer credit.
Types of teaching:	☒ lecture ☐ seminars and workshop ☒ practical ☒ combined e-learning ☐ field research ☐ self-study ☐ multimedia ☐ laboratory ☐ mentoring work ☐ (others)
Student obligations	Attending classes, exams.

Monitoring student work (enter the share in ECTS						
	Class attendance	2	Research		Practical work	
	Experimental work		Report		Mid-term exams	

credits for each activity so that the total number of ECTS credits corresponds to the credit value of the course):	Essay		Seminar			
	Self-study	3,83	Workshop			
	Project		Office hours and final exam	0,17		

Assessment and evaluation of student work during classes and at the final exam

CONTINUOUS ASSESSMENT		
Continuous testing indicators	Performance A_i (%)	Grade ratio k_i(%)
First mid-term exam	50-100	30
Second mid-term exam	50-100	30
Theoretical exam (written)	50-100	40

FINAL ASSESSMENT		
Indicators checks	Performance A_i (%)	Grade ratio k_i(%)
Practical exam (written) - part one	50 - 100	30
Practical exam (written) - part two	50 - 100	30
Theoretical exam (written)	50 - 100	40
Indicators checks	Performance A_i (%)	Grade ratio k_i(%)
Practical exam (written) - part one	50 - 100	30
Practical exam (written) - part two	50 - 100	30
Theoretical exam (written)	50 - 100	40

The grade (in percentages) is formed on the basis of all indicators that describe the level of student activities according to the relation:

$$Grade\,(\%) = \sum_{i=1}^{N} k_i A_i$$

k_i - weighting factor for each activity,
A_i - success in percentage achieved for a particular activity,
N - total number of activities.

PERFORMANCE AND GRADE		
Percentage	Criteria	Grade
50% - 61,9%	basic criteria met	sufficient (2)
62% - 74,9%	average performance with some errors	good (3)
75% - 87,9%	above average performance with minor errors	very good (4)

	88% - 100%	outstanding performance	outstanding (5)
Required reading	1. Kožul Blaževski, R.: POSLOVNA MATEMATIKA – zbirka zadataka, Sveučilišni odjel za stručne studije, Split, 2011. 2. Kožul Blaževski, R.: OSNOVNI GOSPODARSKI RAČUN - skripta, Sveučilišni odjel za stručne studije, Split, 2011. 3. Kožul Blaževski, R.: OSNOVE KAMATNOG RAČUNA - skripta Sveučilišni odjel za stručne studije, Split, 2011. 4. Kožul Blaževski, R.: PRIMJENA SLOŽENOG KAMATNOG RAČUNA – skripta, Sveučilišni odjel za stručne studije, Split, 2011. 5. Kožul Blaževski, R.: ZAJAM - skripta, Sveučilišni odjel za stručne studije, Split, 2011. 6. Kožul Blaževski R.: Primjeri kolokvija i ispita, Sveučilišni odjel za stručne studije, Split, 2011.		
Optional reading	1. Babić, Z., Tomić Plazibat, N.: Poslovna matematika, (5. izdanje) Sveučilište u Splitu, Ekonomski fakultet, Split, 2008. 2. Šego,B.: Financijska matematika, Zgombić i partneri, Zagreb, 2008. 3. Relić, B.: Gospodarska matematika, drugo izmijenjeno i dopunjeno izdanje, Hrvatska zajednica računovođa i financijskih djelatnika, Zagreb, 2002. 4. Kovačić, B., Radišić, B: Gospodarska matematika, zbirka zadataka c CD-om, Školska knjiga, Zagreb, 2011.		
Quality monitoring to ensure the acquisition of established learning outcomes	• Records of class attendance and success in performing student obligations • Updating detailed course curricula • Supervision of teaching activities • Continuous quality control of all parameters of the teaching process in accordance with the Action Plans • Semester-based student survey in accordance with the "Ordinance on the procedure of student evaluation of teaching work at the University of Split" (UNIST, Centre for Quality Improvement).		
Other information	/		