Sveučilište u Rijeci • University of Rijeka



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Table 2

Course description

COURSE DESCRIPTION								
Course instructor	Krešo Mihalinčić							
Name of the course	Actuarial Mathematics							
Study programme	Management of Sustainable Development							
Status of the course	Elective							
Year of study	4 th							
ECTS credits and manner of	ECTS credits	3						
instruction	Number of class hours (L+E+S)	30 (15 + 15 + 0)						
1 Course objectives								
1. Course objectives								
Development of general and specific competencies required to connect economic theory and mathematical methods in order to model and interpret information based on empirical data regarding contemporary trends in tourism and hospitality industry								
2. Course enrolment requirements								
None								
3. Expected learning outcomes								
After completing the course, the student will be able to: 1. define and distinguish basic concepts of financial and actuarial mathematics 2. apply the formulas of financial and actuarial mathematics 3. define present and future values of periodic deposits (rents) 4. distinguish financial from actuarial rents 5. solve problems of life insurance in a variety of common models								
4. Course content								
compounding, loans)	•	tive interest rates, continuous n functions, life insurance, one time and						
5. Manner of instruction	☐ lectures ☐ seminars and workshops ☐ distance learning ☐ fieldwork	 individual assignments multimedia and network laboratories mentorship other 						
6. Comments	The course involves areas of both pure and applies mathematics; however, the emphasis is on an application of mathematical methods in the analyses of empirical data from contemporary tourism and hospitality industries							
7. Student responsibilities								
1	nplete two projects and assessments to demonstrate the acquired know	s using mandatory and ledge, skills and competencies from a						

specified field. Both team- and individual work are advised.

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8. Monitoring of student work ¹								
Class attendance	1,2	Class participation	0,1	Seminar paper		Experimental work		
Written exam	0,5	Oral exam		Essay		Research		
Project	0,3	Continuous assessment	0,9	Report		Practical work		
Portfolio								

9. Assessment of learning outcomes in class and at the final exam (procedure and examples)

Assessment and evaluation of students in classes and at the final exam is conducted under the Rulebook on evaluation of students at the Faculty of tourism and hospitality management.

For each course it is made a detailed course syllabus which coordinates activities, student load, learning outcomes and evaluation methods.

10. Mandatory literature (at the time of submission of study programme proposal)

Šego, B., Financijska matematika, Zgombić & partneri, Zagreb, 2008.

11. Optional/additional literature (at the time of submission of the study programme proposal)

Šego, B., Matematika za ekonomiste, Potecon d.o.o., Zagreb, 2000.

12. Quality monitoring methods that ensure the acquisition of exit knowledge, skills and competences

The quality of the programme, teaching process, teaching skills and level of acquired course matter will be evaluated in writing, by means of extensive questionnaires and by employing other methods that are in accordance with the accepted standards and with the Book of regulations on the quality of the University of Rijeka, as well as the Book of regulations on the quality of the Faculty of tourism and hospitality management.

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¹ IMPORTANT: Enter the appropriate proportion of ECTS credits for each activity so that the total number of credits equals the ECTS value of the course. Use empty fields for additional activities.