COURSE DESCRIPTION CARD

NOTE: If the course includes lectures and classes, the Course Description Card applies to both types of instruction.

1. Course title:

MANAGEMENT NON-LIFE RISK

2. Course code:
Number of ECTS credits: **3**
Course completion mode: **E**
Course commenced / **Year 2019/2020**

3. Major: Finance and Accounting / **ARIMA**

4. Department of major coordinator: Department of Banking and Financial Markets

5. Name of course instructor:

Lecture: dr inż. TOMASZ SZKUTNIK, prof. UE dr hab. TOMASZ ŻĄDŁO
Classes…
Lab classes …
Examiner: dr inż. TOMASZ SZKUTNIK, prof. UE dr hab. TOMASZ ŻĄDŁO

6. Department of course instructor: Department of Applied Mathematics

7. Number of contact hours with students:

Type of instruction	Full-time study	Part-time study
lectures	15	
classes	-	
foreign language classes	-	
lab classes	-	
seminars	-	
e-learning	-	
other	-	
Total hours	15	
examination (hours)	3	

8. Course timeframe - no. of semesters: 1
Course commencement / Year 2
Course commencement / Semester 3

9. Level of tertiary education: 2

10. Course status
☐ Compulsory for the major …
☐ Compulsory for the **specialization X**
☐ Elective …

11. Course prerequisites
Compulsory: MEASUREMENT OF NON-LIFE RISK
Recommended:

12. Course objectives:

The aim of the course is to familiarize with the methods of management of non-life insurance risk

13. Teaching and learning methods:

A. Direct student-instructor contact:

No.	Teaching methods	Description	Number of hours	
			Full-time study	Part-time study
1.	Active lecture with use of the multimedia techniques	Integrated lecture	15	
2.				
3.				
4.				
Total			AS: 15	AN:

B. Self-study:

No.	Learning methods	Description	Number of hours	
			Full-time study	Part-time study
1.	Solving exercises	Calculations	20	
2.	Analysis of the lecture notes	Reading of recommended literature (necessary to solve tasks)	40	
3.				
4.				
Total			BS: 60	BN:

Total AS+BS = 75
Examination (E) = 3
Total AS+BS+E= 78

Total AN+BN = …….
Examination (E) =…….
Total AN+BN+E = …….

14. Key words: life insurance, insurance risk management

15. Course content:

1. Types of insurance
2. Risk measures
3. Reserve calculation
4. Probability of ruin, capital requirements, Solvency
5. Risk transfer - reinsurance. VaR CTE. Controlling. Risk management. Reporting.
6. Probability of Ruin.

16. Course learning outcomes as related to the learning outcomes of the major and methods for assessing student attainment

Intended learning outcomes of the major / Symbols	Intended learning outcomes of the course	Methods for assessing student learning outcomes	Documentation
Knowledge			
FiR2_W02#	They know and understand deeply the methods used in finance and accounting, in particular, mathematical and statistical methods, methods of analysis and effective processing of financial data, using modern IT tools and reporting solutions.	test	student working files
Skills			
FiR2_U01#	They are able to use acquired in-depth knowledge to identify, critically analyse and synthesize economic, financial, legal, social phenomena and processes, including the accounting system. They are also able to formulate and solve complex and unusual problems, as well as, to perform tasks in unpredictable conditions in the area of finance and	solving examples	student working files

	accounting- through the selection and proper application of methods and tools, including modern information and communication techniques.		
FiR2_U04#	They are able to use a foreign language at B2 + level of the European System for the Description of Language Education, including terminology specific to the discipline of economics and finance, as well as complementary disciplines.	solving examples	
	Social competences		
FiR2_K02#	They are ready to recognize the role of professional knowledge in solving interdisciplinary theoretical and practical problems in the area of finance and accounting, also on an international scale, using the opinions of experts in case of any difficulties in finding own solutions	Case study	student working files

17. Method for determining the final course grade:

No.	Methods for awarding credits and course completion requirements	Description	Percentage of the final course grade*
1.	Written exam with the possibility of using notes	Computational tasks	30%
2.	Group work on case study	Project	70%
3.			

* If students are required to obtain both a class grade and an exam grade, the class grade constitutes at least 30% of the final course grade.

18. Reading list

Mandatory readings:

- Kaas, R., Goovaerts, M., Dhaene, J., Denuit, M.: Modern Actuarial Risk Theory Using R. Wyd. Springer-Verlag , Berlin Heidelberg, 2008.
- Straub E.: Non life insurance mathematic, Springer-Verlag, 1997.

Suggested readings:

19. Language of instruction: English

20. Course instructors' recommendations:

1. Ms Office
2. R environment
3. RStudio
4. Computer lab