lactu2010

2024

Property and casualty insurance actuarial science

7.00 credits	45.0 h	Q1

This learning unit is not open to incoming exchange students!

Teacher(s)	Denuit Michel ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	Mastery of basic concepts in statistics and probability calculation, at the level of courses in the FSA1BA, INGE1BA, MATH1BA programs or the access minor in statistics, actuarial sciences and data science.
Main themes	Insurance loss models, Risk sharing and transfer, Measuring and comparing risks, Credibility and bonus-malus, Reserving

Learning outcomes	**At the end of this learning unit, the student is able to :**
	1
	Given the standard AA (AA of the master's program in actuarial sciences), this activity allows students to master
	• Firstly the following AA: 1.1, 1.4, 2.3
	• Secondarily the following AA: 1.2, 1.3, 1.6, 1.7, 1.8, 2.1
	At the end of this course, students are able to:
	• Put into practice the basic principles of pricing and actuarial management of damage insurance products.
	• Determine the optimal risk management policy according to their characteristics, including
	  • the calculation of premiums and their revision based on past claims
	  • the evaluation of technical provisions
	  • projection of future financial flows
	  • calculating risk measures
	for traditional damage insurance products.

Faculty or entity in charge	LSBA

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Mathematics	MATH2M	7		
Master [120] in Actuarial Science	ACTU2M	7		
Master [120] in Statistics: General	STAT2M	7		
Master [120] in Mathematical Engineering	MAP2M	7		