UCLouvain

lactu2280

2019

Reinsurance and Alternative Risk Transfers

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

3 credits	15.0 h	Q1
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Teacher(s)	Walhin Jean-François ;				
Language :	English				
Place of the course	Louvain-la-Neuve				
Prerequisites	Knowledge in English, level of course LANGL1330.				
	Knowledge of the concepts at the level of the courses: • Actuariat des assurances dommages (LACTU2010) • Actuariat de l'assurance-vie (LACTU2030) • Quantitative Risk Management (LACTU2210) • Actuariat des assurances de personnes (LACTU2230)				
	The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.				
Main themes	The reinsurance market is presented. The different kinds of treaties are described. The pricing of excess loss reinsurance is deeply analysed. The reasons why an insurance company has to be reinsured are explained; finally the point of view of the insurer is adopted in terms of optimality of reinsurance arrangements.				
Aims	Contribution of the course to learning outcomes in the Master in Actuarial Sciences programme. By the end of this activity, students will have made progress in: • As a priority, the following LO: 1.1, 1.2, 1.3, 1.4, 2.1				
	• In a secondary way the following LO: 1.6, 1.7, 1.8, 2.3, 2.4, 2.5 At the end of this course, students will be able to:				
	 Analyze the quality of conventional reinsurance contract Criticize the price as well as the analyzes relating to the optimality of the reinsurance structure 				
	The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".				
Evaluation methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Written exam with no documents.				
	In case a homework is requested, the marks obtained at the exam might be adapted based on the quality of the homework. Details will be provided during the course.				
	In case some courses would be organized on a seminar basis, the marks at the exam might be adapted based on the quality of the seminar sessions. Details will be provided during the course.				
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Ex-cathedra course.				
	Some parts of the course might be covered on a seminar basis where students present theory or exercises in the classroom.				
	Some parts of the couse might be covered through scientific papers to be read and prepared by the students. Some parts of the couse might be covered through homeworks.				
Content	Content The following topics will be developed: Introduction Why a reinsurance Proportional reinsurance Non proportional reinsurance Pricing of excess of loss treaties Capital allocation Optimal reinsurance Methods In-class activities X0 Lectures X0 Exercices/PT At home activities X0 Exercices to prepare the lecture X0 Paper work				
Bibliography	Transparencies are mainly based on :				
	 Walhin J.F. (2012). La Réassurance, 2ème édition. Larcier. Bauwens, V., Walhin, J.F. (2008). La Titrisation du Risque d'Assurance. Larcier. 				

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Faculty or entity in	LSBA
charge	

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Aims		
Master [120] in Actuarial Science	ACTU2M	3	LACTU2010 AND LACTU2030 AND LACTU2210 AND LACTU2230	Q		