UCLouvain

lactu2280

2022

Reinsurance and Alternative Risk Transfers

3.00 credits	15.0 h	Q1

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)			
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.			
Learning outcomes	At the end of this learning unit, the student is able to: 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			
Evaluation methods	Written exam with no documents IF the exam is allowed in a classroom. Oral exam through Teams IF the exam is not allowed in a classroom. A homework (not more than 3 pages) will be submitted to the students and will be used for the evaluation of the exam. For the September exam, another homework will be submitted and will be used for the evaluation of the exam.			
Teaching methods	Ex-cathedra course. Some parts of the course might be covered through scientific papers / book chapters to be read / prepared by the students and followed by a Q&A session			
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.			
Faculty or entity in charge	LSBA			

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Learning outcomes		
Master [120] in Actuarial Science	ACTU2M	3		Q		