

Teacher(s)	De Longueville Philippe ;
Language :	English
Place of the course	Louvain-la-Neuve
Prerequisites	<p>English knowledge, level of course LANGL1330.</p> <p>Knowledge of the actuarial and risk management concepts at the level of the courses:</p> <ul style="list-style-type: none"> • Actuariat des assurances dommages (LACTU2010) • Actuariat de l'assurance-vie (LACTU2030) • Quantitative Risk Management (LACTU2210) • Mathématiques financières (LINMA2725) <p><i>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.</i></p>
Main themes	Enterprise Risk Management.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>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:</p> <ul style="list-style-type: none"> • As a priority, the following LO: 1.2, 1.6, 1.7, 2.1 • In a secondary way the following LO: 2.2, 2.4, 3.1, 3.3 <p>¹ At the end of the course, the students will be able to:</p> <ul style="list-style-type: none"> • Identify, analyse, measure and mitigate the risks faced by a ((re)insurance) company • Understand how different risks interact • Understand the governance aspects of risk management • Make the link between different areas of the actuarial sciences
Evaluation methods	<p>First session : written examination and case study.</p> <p>For the second session, the examination is in principle written. The lecturer may decide to organise an oral examination if the number of participants is limited. The completion of a case study is not required, unless the student did not carried out the case study in the first session.</p>
Teaching methods	The course consists of 7 courses of 2 hours and 1 course of 1 hour, extra readings (discussed during the courses), a case study and an extra optional Q&A session at the end.
Content	<p>Introduction</p> <p>Chapter 1: Risk Management in Context</p> <ul style="list-style-type: none"> • Introduction • Lessons learned • Concepts and Processes <p>Chapter 2: Corporate governance</p> <ul style="list-style-type: none"> • Corporate governance – general • Best practices • Linking corporate governance and ERM • Corporate governance and Solvency II • The Risk Management function – the CRO <p>Chapter 3 : Evolution of risk management</p> <ul style="list-style-type: none"> • Evolution of the risk profile of insurance companies • Zoom on climate risk <p>Chapter 4: Risk Management Applications</p>

	<ul style="list-style-type: none"> • Economic capital modelling • Own Risk and Solvency Assessment (ORSA) • Optimal reinsurance • Project management <p>Chapter 5: Case study</p>
Bibliography	<ul style="list-style-type: none"> • Lam, J. (2000). Enterprise Risk Management, From Incentives to Controls, second edition, Wiley, 2014. • Regulatory texts (Solvency II directive, BNB circulars...) • Practical insurance and reinsurance experience
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	LACTU2010 AND LACTU2030 AND LACTU2210 AND LINMA2725	