UCLouvain

## lactu2220

2018

## Asset and Liability Management

5 credits 30.0 h Q2
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Teacher(s)	Barbarin Jérôme ;				
Language :	English				
Place of the course	Louvain-la-Neuve				
Prerequisites	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	After an introduction to term structure of interest rates and risk measure, the main tools of ALM are presented in a deterministic and a stochastic framework. In a second part, these techniques are applied to various pratical problems of ALM in insurance. The theoretical part is completed with reference papers and exercices				
Aims	The aim of this course is to present the basic principles of Asset and Liability management applied to insurance companies. At the end of the course, the students must know the ALM methods and understand the main ALM problems of an insurance companies				
	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	Case study				
Content	The following topics will be covered:  • Assets and Liabilities os an inssurance company and their associated risks • ALM tools of first generation (statistic deterministic analysis • Off-Balance sheet instruments and their uses in ALM • ALM tools os second generation (stress tasting) • ALM of third generation (stochastic models) • Performance measures and Risk Measures (Value at Risk and others) • Economic capital and Regulatory Capital (Solvency II)				
Bibliography	Les transparents fournis renvoient à la littérature spécialisée.				
Faculty or entity in charge	LSBA				

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Aims		
Master [120] in Actuarial Science	ACTU2M	5	LINMA2725 AND LACTU2020 AND LACTU2040 AND LACTU2050 AND LACTU2170 AND LACTU2280	•		