UCLouvain

lactu2220

2023

Asset and Liability Management

5.00 credits	30.0 h	Q2

Teacher(s)	Barbarin Jérôme ;
Language :	English > French-friendly
Place of the course	Louvain-la-Neuve
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
Learning outcomes	At the end of this learning unit, the student is able to :
	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
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	Learning outcomes		
Master [120] in Actuarial Science	ACTU2M	5		Q.		