UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Principles of Actuarial Techniques

2223-2-F1601M090-F1601M085M

Learning objectives

Introduction to the Italian insurance market, both life and non life, and to the main actuarial techniques applied to:

- Pricing (new products development, profit analysis)
- Reserving (valuation of insurance contracts under different gaaps)
- Introduction to Solvency II

Contents

- Perimeter of application
- Data quality and structure
- Descriptive analysis
- Deterministic models for reserving calculation – introduction to stochastic models

Detailed program

1. Market data and sector Regulations
2. Main Insurance coverages
3. Pricing: principles and main methodologies
4. Reserving: principles and main methodologies
5. Solvency II (main topics)

Prerequisites

Basic knowledge of Descriptive and Inferential Statistics

Teaching methods

Classroom lectures (with distance-learning and video-recording options if required by the COVID 19 pandemics).

Examples and exercises using Excel

Assessment methods

Written + oral examinations

Textbooks and Reading Materials

Slides and exercises uploaded on Dashboard

Semester

2nd semester

Teaching language

Italian

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | CLIMATE ACTION