Financial derivatives

Program:
Specialization master in financial risk management (evening courses), option “Sustainable and Climate Finance”

Language:
English

Number of hours:
30 hours

Number of students:
Around 30

Objectives of the course:
The goal of this course is to provide a fundamental and advanced knowledge of the concepts underlying derivative products, pricing mechanisms and hedging strategies in the financial industry. The course should cover, among others, the following topics:

- Basic properties of derivatives and convertible bonds.
- Options on stocks, interest rates, commodities and exchange rates.
- Futures and forward contracts.
- Swaps and swaptions.
- Valuation methods: binomial pricing, Black and Scholes, Monte Carlo methods.
- Implied volatility analysis, trading and hedging strategies.
- Introduction to exotic options and credit derivatives (CDS, CDO)

More generally, the course content should be in line with standards in the field (see, e.g. J.C. Hull, 11th edition) and professional risk associations such as the GARP.

Organization:
Hybrid teaching (mix of online and on site sessions) (in the evening on weekdays and/or on Saturdays)

Profile:
The candidate is expected
- to have a relevant professional expertise in the field of the course, such as: financial risk management, option trading, quantitative asset management. Academic experience in the field is an added advantage.
- to have demonstrable pedagogical skills oriented toward professionals (such as training or consultancy missions, or previous experience teaching evening classes).
As part of the contract for this course, the lecturer will also have to supervise a number of internships and final work projects relating to his/her area of expertise.

**Contract length:**
1 year (academic year 2022-2023) (renewable)

**Contact person:**
Anne CHANTEUX, Director of evening master programs, Head of the Finance, Accountancy and Law Department, anne.chanteux@uliege.be

**Application:**
Applications (1 or 2 pages CV, letter of motivation, course proposal including the course objectives, outline, methodology and evaluation criteria) are to be submitted by email to Christine Bertrand (christine.bertrand@uliege.be), Coordinator of evening master programs, by April 30, 2022 at the latest.

After reviewing the applications, the selected candidates will be invited to an interview on Monday, May 9, 2022.