MAIN SKILLS TAUGHT
The programme “Financial Engineering and Risk Management” is designed to prepare specialists who understand the components crucial for derivative pricing and efficient risk management. This includes:

1. Interactions among economic agents involved, which requires a sound background in financial economics.
2. Design of efficient pricing models for financial instruments, taking into account the interactions above. The current controversies about proper models for CVA (credit value adjustment) and FVA (funding value adjustment) are among examples where a sufficiently deep analysis of the interactions among the economic agents involved is crucial.
3. Development of efficient procedures for numerical realization of these pricing models, especially in the context of jump-diffusion models, which are increasingly popular with regulators.
4. Statistical Analysis of data available in practical applications.
5. Construction of appropriate credit risk models and risk management systems.