

## Financial modeling and applications (VBA)

**ECTS** : 6

### **Description du contenu de l'enseignement :**

Part 1: Introduction to VBA programming

- The Excel object model
- The VBA language: variables, conditional statements, loops

Part 2: Financial modeling

- Properties of stock returns
- Diversification and optimal portfolios
- Option pricing

### **Compétence à acquérir :**

The objective of this course is to acquaint students with the VBA programming language in Excel to do financial modeling and solve standard financial problems

### **Mode de contrôle des connaissances :**

- 35% midterm exam
- 15% in-class participation during tutorial sessions
- 50% final exam

### **Bibliographie, lectures recommandées :**

- Jackson M. and Staunton M., "Advanced Modelling in Finance using Excel and VBA", Wiley Finance
- Riva F., "Applications financières sous Excel en Visual Basic", Economica (4ème édition)