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Course unit: Finance

Beware! Under construction.

Course metadata

• Title in French: Finance

Course code: tbaECTS credits: 8

Type: advanced courseSemester 9 (Fall-Winter)

• Teaching period: Mid-November to Mid-February

• Teaching hours: 100h

· Language of instruction: English

· Coordinator: tba

• Instructor(s): Grégoire Hug (WeeFin), Réda Rahal (BNP Paribas), Julien Belon (Arx Corporate Finance), Vincent Bonnamy (La Banque Postal Asset Management)

Last update 05/05/2022 by C. Pouet

Brief description

This course is taught by highly skilled professionals in finance. Some of them are Centrale Marseille alumni.

This course unit is divided into four parts:

- Portfolio management (tba hours) taught by Grégoire Hug.
- **Credit risk** (tba hours) taught by Bolanjinva Randrianarizafy: this part is dedicated to credit risk and its role in banking regulation.
- **Applied finance** (tba hours) taught by Julien Belon and Vincent Bonnamy: this part is about the theoretical aspects of corporate and market finance applied in real life.
- Data Project: data sources and preprocessing (tba hours) taught by tba.

Learning outcomes

- Understand the similarities in the concepts of market and corporate finance
- Understand how finance products can be used to manage risk
- · Know how to organize an investment process
- Know how to evaluate and to value a company
- Understand the definition, measurement and pricing of credit risk
- Know how banks are regulated
- Know the various jobs of finance

Course content

Portfolio management

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- 1. Introduction to portfolio management
- Equity Investing and investment process
- 3. Fixed Income Investing basics
- 4. Fixed Income Investing advanced
- 5. Alternative asset classes and Performance Measurement
- 6. Asset management trends
- 7. Project: Portfolio construction

Credit risk

- 1. Introduction: bonds and OTC transactions
- 2. Modeling defaults: structural models and ratings
- 3. Structured financing: plain-vanilla, asset financing, securitization etc.
- 4. Banking regulation on credit risk

Applied finance

- 1. Applied corporate finance From startup to IPO... and LBO
 - Introduction / Presentation
 - Application areas of
 - Accounting Basic Methods
 - Valuation methods
 - We know how to value a company. Now what? Different types of operation
 - Introduction to Fintech and start-up ecosystem
- 2. Applied market finance Options: Pricing, Hedging & Risk Management
 - Market finance: players and products
 - Future and forward: pricing & hedging
 - Options: replication and pricing
 - Sensitivity of options: the greeks
 - Volatility and stress tests

Data Project: data sources and preprocessing

Tba

Bibliography

You can check the availability of the books below at Centrale Marseille library.

- 1. Portfolio management
 - Roland Portait, Patrice Poncet (2014). Market Finance.
 - Franck J. Fabozzi (2012). The Handbook of Fixed Income Securities.
- 2. Credit risk
 - o Gourieroux C. and Tiomo, A. (2007) Risque de crédit : une approche avancée, Economica.

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- Merton R. (1998) Continuous time finance, Blackwell Publishers.
- Bruyere R., Cont R., Fery L., Jaeck C. and Spitz T. (2005). Credit derivatives, Wiley.
- Roncalli T. (2016). Risk Management & Financial Regulation (website)
- 3. Applied finance
 - Vernimmen, P. (2021). Finance d'entreprise. Dalloz.
 - Hull, J. (2018). Options, Futures, and Other Derivatives, 10th Edition. Pearson

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