

## Descriptif de l'enseignement

### Nom, Prénom de l'enseignant :

LANGLOIS-BERTHELOT Jean

### Titre de l'enseignement (dans la langue principale de l'enseignement) :

New Financial Technologies: Understanding the Revolution on the Move

### Titre de l'enseignement en anglais :

New Financial Technologies: Understanding the Revolution on the Move

### Langue principale de l'enseignement :

Anglais

### Pré-requis :

(Facultatif, **300 caractères maximum**, dans la langue principale de l'enseignement)

This course is with no prerequisites

### Présentation de l'enseignement et des objectifs pédagogiques :

(Obligatoire, **800 caractères maximum**, dans la langue principale de l'enseignement)

By the end of the course students will be able to:

- Analyze the issues caused by anonymization and financial virtualization
- Develop a clear understanding of Digital Identity and the legal aspects of it
- Identify the functioning of cryptocurrencies, blockchain and « digital cash »
- Understand the reconfiguration of the balance of power between "traditional" financial actors and new financial players.
- Assess the latest developments in cryptocurrency law
- Explain new risks in terms of financial security
- Develop a prospective analysis on new financial technologies

### Modalités d'évaluation :

(Obligatoire - **300 caractères maximum**, dans la langue principale de l'enseignement)

- **Oral evaluation:** a 2 or 3 student team selects a subject from a defined list and presents it during 20 minutes. (coefficient 3)
- **Reading report :** the student selects a book in a list then, explains the main topic of the book in 5 or 6 pages report.(coefficient 3)
- **Writing final evaluation:** several questions about the courses. (coefficient 3)
- **Courses participation** (coefficient 1)

### Lectures demandées :

- Abramaowicz, M. (2016). Cryptocurrency-Based Law. *Ariz. L. Rev.*, 58, 359.
- Atli, D. (2016). Cybercrimes via Virtual Currencies in International Business. *Cybersecurity Breaches and Issues Surrounding Online Threat Protection*, 121.
- Birch, D. G. (2015). What Does Cryptocurrency Mean for the New Economy?. In *handbook of digital currency* (pp. 505-517).
- Blemus, S. (2017). Law and Blockchain: A Legal Perspective on Current Regulatory Trends Worldwide, *Revue Trimestrielle de Droit Financier (RTDF)* (Forthcoming). Available at SSRN: <https://ssrn.com/abstract=3080639>
- Durana, G. (2015). Bitcoin: bulle ou révolution?. *Esprit*, (6), 88-96.
- El Bahrawy, A., Alessandretti, L., Kandler, A., Pastor Satorras, R., & Baronchelli, A. (2017). Bitcoin is not alone: Quantifying and modelling the long-term dynamics of the cryptocurrency market (<https://arxiv.org/abs/1705.05334>)
- Gamble, C. (2017). The Legality and Regulatory Challenges of Decentralised Crypto-Currency: A Western Perspective. *Int'l Trade & Bus. L. Rev.*, 20, 346.

- Han, X., Liu, Y., & Xu, H. (2017, December). A User-Friendly Centrally Banked Cryptocurrency. In International Conference on Information Security Practice and Experience (pp. 25-42). Springer, Cham.
- Nachbaur, A. (2017). How does taxation in Liechtenstein, Switzerland, Germany, UK, Australia and US look like for the cryptocurrency Bitcoin, GRIN Publishing
- White, L. H. (2015). The market for cryptocurrencies. Cato J., 35, 383.

## Lectures complémentaires / filmographie / discographie :

### Plan des séances (12) :

#### Financial Anonymization and Virtualization

Session 1: Cryptocurrencies: A legacy of parallel currencies?

Session 2: Virtual currencies, electronic currencies, blockchain, commodities to cryptomoney and creation of "digital species"

Session 3: Is "Anonymous Money" Really Anonymous?

#### Will the GAFA-BATX replace the banks?

Session 1: What is financial Big data?

Session 2: Towards the end of banks supremacy?

#### Legal issues

Session 1: What legal framework for Blockchain and Digital Identity ?

Session 2: What fiscal system for cryptocurrencies?

#### New financial technologies, new financial security issues?

Session 1: Typology of the actors

Session 2: Reproduction of traditional financial scams and Disruption Factors

#### New Financial Technologies for 2050: Future Prospects and Limits

Session 1: Structural analysis tools to apprehend financial new technologies breakthroughs

#### Conclusion and evaluation

Session 1: Final evaluation

Session 2: Perspective