



BLOCKCHAIN AND SMART CONTRACTS

Master in Artificial intelligence law
Faculty of Social Sciences, Economics and Law

Course information

Master Year 2 25 HOURS

Spring Semester 5 ECTS

Seminars

Professor: Valérie HAYEK, Lawyer in IP/IT, DPO, Hasperak avocats

Course description

Blockchain: business opportunities and legal implications

Course objectives:

- Target Blockchain opportunities
 - Highlight Blockchain legal implications
 - AI impacts
 - Being able to communicate with IT governance teams and legal department
 - Boost your skills and employability with notions of IT project
- Management and interoperability between legal departments and lawyer offices
- Being able to measure and present impacts of a new technology-oriented project

Course plan :

- I. **Blockchain : Technology and business opportunities – Main principles**
 - A) The « Block » in Blockchain
 - B) Blockchain's cryptography
 - C) The « chain » (signature)
 - D) Anonymisation in the blockchain

II. Blockchain : Legal implications

- A) Legal ecosystem in France and in Europe
- B) Legal issues : Blockchain in practice versus regulation

III. The use of blockchain in real life

- A) Transactions
- B) Crypto currencies
- C) Mining Currencies
- D) Cyber security
- E) Other applications

Bibliography

Europe:

- EU BC Observatory & Forum
- Ecosystem of Trust: Report on the safety and liability implications of Artificial Intelligence, the Internet of Things and robotics (European Commission, Feb 19, 2020)
- CCBE Considerations on the legal aspects of AI 2020
- European initiative: Digital finance package draft regulation of markets in crypto-assets regulation (MiCA) on September 24, 2020
- L. Lessig, Code is Law, On Liberty in Cyberspace, Harvard Magazine, 2000
- eldas Regulation
- K. Lewin "Unfreezing, Moving, Freezing"
- M. Crozier "Analyse des jeux d'acteurs"
- A. Giddens "Structuration Theory"

France:

- Colloques de la Cour de cassation sur la Blockchain
- Ordonnance 2016-520 April 18, 2016 about cash vouchers
- Loi Sapin II of October 9, 2016
- Loi PACTE May 22, 2019
- AMF and Assemblée Nationale's reports on blockchain
- CNIL Sept, 2018 on Blockchain
- Article 17 GDPR