Datanomics

Course title - Intitulé du cours	Datanomics
Level / Semester - Niveau /semestre	M2 / S1 & S2
School - Composante	TSE
Teacher - Enseignant responsable	Lucien RAPP
Other teacher(s) - Autre(s) enseignant(s)	Cristiana Santos
Other teacher(s) - Autre(s) enseignant(s)	Delphine Miramont
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	15
TA Hours - Volume horaire TD	
TP Hours - Volume horaire TP	
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	

Teaching staff contacts - Coordonnées de l'équipe pédagogique :
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Course's Objectives - Objectifs du cours :

Course Content

Session 1 - Setting the Scene – Data and the Economy
- Role of data in the economy
- Taxonomy of data
- Data Processing (collection, treatment, storage, transfer)
- Data and Digitization
- Big Data
- Data Mining
- Data and Services

Case Study

Session 2 - Setting the Scene – Data and Regulation
- A brief history
- French Law dated 6 February 1978
- The making-off of an independant agency
- The EC Directive 85/46
- The EC Directive 2006/24
- The Google Spain Ruling
- The GDPR

Case Study

Session 3 - Data and Artificial Intelligence
Algorithms
- The Black Box Society
- Algorithms and Competition law

- Algorithms and Profiling
- Art. 22-1, GDPR

Case Study

Session 4 – Data Value Modelling
- Corporate Digital Assets
- Taxonomy of Digital Assets
- Modelling Methodology
- Valuation

Case Study

Session 5 –Data Protection
- Data exposure to criminal actions
- Cybercriminality
- Laws and regulation
- Taxonomy of cyberattacks
- Cyberdefense

Case Study

Session 6 - Data Ownership
- Cambridge Analytica
- French Law/GDPR
- Data and IP
- Data and Property
- Data and immaterial asset

Case Study

Session 7 - Data and Profiling
- Definition of Profiling
- Profiling and E-Marketing
- Profiling and GDPR
- Threats and weaknesses
- What is likely to happen in practice?

Case Study

Session 8 – Personal Data and IoT
- What has happened so far?
- Why has it not been implemented yet?
- What will the next stage be?
- What should financial institutions be doing now?
- The future?

Case Study

Session 9 - Personal Data and Blockchain
Blockchain

- Why has it not been implemented yet?
- What will the next stage be?
- What should financial institutions be doing now?
- The future?

Case Study