



I. DATA OF THE COURSE

Data of the course	
Name	Law and New Technologies
Diplome	Legal Studies in Spain
ECTS	3

Professors	
Professor	Alejandro Padín Vidal

This course is aimed at offering a broad and in-depth understanding of the legal aspects of the technology and how different technologies are impacted by the law. It starts with an introduction of technology and the regulation of technology and includes the explanation about the legal challenges that appear with most cutting-edge technologies developed in the last years, and how they affect the law and the digital economy.

II. CONTENT

Block I - Introduction (2 hours)
<ol style="list-style-type: none">1.- Technology. Definition and legal approach2.- New Technologies. Definition. Description.3.- What type of law applies to the technology.
Block II – Telecommunications basics (2 hours)
<ol style="list-style-type: none">1.- Introduction to telecommunications.2.- What telecommunications are and are not.3.- Infrastructure: Copper wires. Electromagnetic waves. Fiber optic cable.4.- Contents: Voice (telephony). Images (television). Data (intranet and internet).

5.- Basic concepts: enabling titles, infrastructure sharing, interconnection, universal telecommunications service.

Block III - Regulatory aspects of telecoms law (2 hours)

- 1.- Regulation.
- 2.- Applicable regulations in Spain and the European Union. European Electronic Communications Code. General Telecommunications Law.
- 3.- Sectoral regulations. General Regulation. Television. Radio. Cable (evolution).
- 4.- Telecommunications governance. The Ministry and the National Commission for the Markets and Competition.
- 5.- Rights of occupation, use, and expropriation of public and private property to establish telecommunications infrastructures.

Block IV – Consumer law (2 hours)

- 1.- Telecommunications at the service and for the benefit of the consumer.
- 2.- Telecommunications as a public service.
- 3.- The universal telecommunications service.
- 4.- Consumer rights in electronic transactions.

Block V – Commercial and civil legal aspects (2 hours)

- 1.- The liberalization of telecommunications.
- 2.- Telecommunications and competition law.
- 3.- Internet business; internet companies.
- 4.- Domain names and Corporate Registry.
- 5.- Common Telecommunications Infrastructures in buildings and homes.
- 6.- Relationship with the Horizontal Property Law.

Block VI – Data Protection (8 hours)

- 1.- Introduction to privacy and data protection.
- 2.- Compared law: different approaches to privacy across jurisdictions.
- 3.- The three sides of personal data: fundamental right, economic asset, social asset.
- 4.- The GDPR and other privacy laws.
- 5.- Principles of data protection: lawfulness, transparency, confidentiality. Privacy by default and privacy by design.
- 6.- The accountability principle.
- 7.- Data localization, data sovereignty and international transfers of personal data.
- 8.- How to set up a GDPR compliance programme.

Block VII – Ecommerce (6 hours)

- 1.- Information Society Services Law.
- 2.- Electronic communications.
- 3.- Internet. Internet and the Law.
- 4.- Intellectual property and the internet.
- 5.- E-commerce.

6.- E-marketing.

Block VIII – Digital Identity (2 hours)

- 1.- Identity and identification.
- 2.- Electronic signature.
- 3.- Electronic signature Regulation (e-IDAS, e-IDAS 2)

Block IX – The “New” new technologies (2 hours)

- 1.- Blockchain and Cryptocurrency Regulation.
- 2.- The metaverse.
- 3.- Artificial Intelligence and Law.
- 4.- Internet of Things (IoT) and legal challenges.
- 5.- Regulation of Drones and Unmanned Aerial Vehicles.

Block X – Cybersecurity and e-evidence (2 hours)

- 1.- Importance of Cybersecurity.
- 2.- Regulation of Cybersecurity: Cybersecurity Act; NIS 2 Directive; DORA Regulation.
- 3.- Computer and internet crimes.
- 4.- Mechanisms for obtaining evidence related to telecommunications (telecommunications intervention; request for information from operators; malicious call circuit)

III. RESOURCES

Bibliography

- “Data Protection and Privacy” – International Series, Sweet & Maxwell – Thomson Reuters, 2016.
- “La adaptación al nuevo marco de protección de datos tras el RGPD y la LOPDGDD” – WK, 2018.
- “Derecho a la Verdad”, capítulo “Derecho a la verdad y blockchain” – Tirant lo Blanch, 2021.
- “Inteligencia Artificial y Derecho” – Ed. Dykinson, 2023.
- Materials provided by the teacher in class.

IV. METHODOLOGY

Methodology: activities.

- Analysis of specific legal topics for discussion and debate.
- Discussions in class about challenges of the technology and the law.
- Reading of papers or chapters about specific topics.
- Study of legislation.

V. EVALUATION

Activities	Indicators	% in the evaluation
Attendance		10
Active participation in class		20
Homework		20
Exam		50