



COMILLAS

UNIVERSIDAD PONTIFICIA

ICAI

ICADE

CIHS

GUÍA DOCENTE

2025 - 2026

FICHA TÉCNICA DE LA ASIGNATURA

Datos de la asignatura

Nombre completo	Law and new technologies
Código	E000012810
Nivel	Intercambio
Cuatrimestre	Semestral
Créditos	3,0 ECTS
Carácter	Obligatoria (Grado)
Departamento / Área	Área de Derecho Mercantil Departamento de Derecho Económico y Social

Datos del profesorado

Profesor

Nombre	Alejandro Padín Vidal
Departamento / Área	Centro de Innovación del Derecho (CID - ICADE)
Correo electrónico	apadin@icade.comillas.edu

DATOS ESPECÍFICOS DE LA ASIGNATURA

Contextualización de la asignatura

Aportación al perfil profesional de la titulación

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.

Competencias - Objetivos

BLOQUES TEMÁTICOS Y CONTENIDOS

Contenidos – Bloques Temáticos

Block I - Introduction (2 hours)

- 1.- Technology. Definition and legal approach
- 2.- Digital Economy and its legal implications.
- 3.- What type of law applies to the technology.



Block II – Telecommunications (4 hours)

- 1.- Introduction to telecommunications.
- 2.- Infrastructure: Copper wires. Electromagnetic waves. Fiber optic cable.
- 3.- Contents: Voice (telephony). Images (television). Data (intranet and internet).
- 4.- The liberalization of telecommunications.
- 5.- Applicable regulations in Spain and the European Union. European Electronic Communications Code. General Telecommunications Law.
- 6.- Basic concepts: enabling titles, infrastructure sharing, interconnection, universal telecommunications service.
- 7.- Rights of occupation, use, and expropriation of public and private property to establish telecommunications infrastructures.
- 8.- Common Telecommunications Infrastructures in buildings and homes.
- 9.- Telecommunications governance. The Ministry and the National Commission for the Markets and Competition.
- 10.- Internet business; internet companies.
- 11.- Domain names and Corporate Registry.

Block III– 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 IV – 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.- The Data Protection Officer (DPO).
- 7.- Data localization, data sovereignty and international transfers of personal data.
- 8.- How to set up a GDPR compliance programme.



COMILLAS

UNIVERSIDAD PONTIFICIA

ICAI

ICADE

CIHS

GUÍA DOCENTE

2025 - 2026

Block V – Ecommerce (4 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 VI – Digital Identity (2 hours)

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

Block VII – 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 VII – Artificial Intelligence (4 hours)

- 1.- Definition of AI. Legal aspects.
- 2.- Different types of AI. Categories of AI systems.
- 3.- The EU AI Act.
- 4.- Other approaches to AI regulation around the world.

Block IX – 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)



COMILLAS

UNIVERSIDAD PONTIFICIA

ICAI

ICADE

CIHS

GUÍA DOCENTE

2025 - 2026

METODOLOGÍA DOCENTE

Aspectos metodológicos generales de la asignatura

- 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.

The use of AI to create complete works or relevant parts, without citing the source or the tool or without being expressly permitted in the description of the work, will be considered plagiarism and regulated according to the General Regulations of the University

EVALUACIÓN Y CRITERIOS DE CALIFICACIÓN

BIBLIOGRAFÍA Y RECURSOS

Bibliografía Básica

- "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", chapter "Derecho a la verdad y blockchain" – Tirant lo Blanch, 2021.
- "Inteligencia Artificial y Derecho" – Ed. Dykinson, 2023.
- Materials provided by the teacher in class.