Syllabus
2024 - 2025

TECHNICAL SHEET OF THE SUBJECT

Data of the subject	
Subject name	Legal and Regulatory Framework. Data privacy
Subject code	DTC-MCS-523
Involved programs	Máster Universitario en Ingeniería de Telecomunicación y Máster en Ciberseguridad [First year] Máster en Ciberseguridad [First year]
Level	Master
Quarter	Semestral
Credits	3,0 ECTS
Type	Obligatoria
Department	Department of Telematics and Computer Sciencies
Coordinator	Marta Cañas

Teacher Information	
Teacher	
Name	Marta Concepción Cañas Miralles
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Teacher	
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SPECIFIC DATA OF THE SUBJECT

Contextualization of the subject

Contribution to the professional profile of the degree

Theoretical and practical knowledge of the General Data Protection Regulation and current legislation on the subject. It is important to have this knowledge to complement the development of cybersecurity knowledge, while maintaining the privacy of information and data.

Prerequisites

N/A

Competencies - Objectives

Competences

Know the legislation and apply it in day-to-day work, either in the workplace directly applied to privacy, or in all cybersecurity-related

work.

Learning outcomes

Knowledge of data protection legislation with a view to its application in the framework of cybersecurity.

THEMATIC BLOCKS AND CONTENTS

Contents - Thematic Blocks

- Theoretical legal framework on privacy and the sectors involved.

Review of the legal bases that regulate privacy: concepts, general and sectorial regulations, and the most relevant case law.

- Legislation on personal data protection (GDPR) and confidentiality.

Content of Organic Law 3/2018, of 5 December, on the Protection of Personal Data and guarantee of digital rights, the EU General Data Protection Regulation, and Law 1/2019, of 20 February, on Business Secrets. Theoretical and practical analysis of the main implications of the rights of individuals in the security of their data, and procedural aspects of guarantee.

- European cybersecurity / privacy directives and agencies.

Introduction, functions and relationship with the companies of the authorities and agencies.

- Regulations affecting the processing of personal data: National Security Scheme ENS, NIS-D, MPD.

Detail of the regulations, regulatory bodies, and compliance issues.

- Regulations affecting the processing of personal data: National Security Scheme ENS, NIS-D, MPD.

Detail of the regulations, regulatory bodies and compliance issues.

- Security breaches

Management of security breaches affecting personal data.

- Supplier security in the supply chain. Third-party regulations.

Principles for ensuring privacy and security controls in the supply chain.

- Aspects to take into account in the management of projects related to cybersecurity and privacy.

Project management to meet privacy and security requirements by design and by default.

- Data protection audits

Model of audits, what is audited?

- AI Regulation

What is the regulation and what do we need to take into account from a technical point of view?

TEACHING METHODOLOGY

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General methodological aspects of the subject

In-class Methodology: Activities

Classes are face-to-face and obligatory

Non-Presential Methodology: Activities

In some cases, case studies can be sent for offline review.

SUMMARY STUDENT WORKING HOURS

2h per week in the second semester + time outside class depending on the attendance and management of each student.

EVALUATION AND CRITERIA

Continuous work	The student must participate in all work, individual or collective, which, with an eminently practical character, indicated by the teacher.
Attendance	The student must attend at least 80% of the classes in order to be able to assess this item.
EXAM	The student must take the final exam of the course, which may be a multiple-choice, multiple-choice or mixed exam.

Ratings

1. Student attendance in class (10% of the mark).
2. Preparation and active participation in class discussions and practical activities (20% of the mark).
3. Final exam (70% of the mark)

BIBLIOGRAPHY AND RESOURCES

Basic Bibliography

Reglamento general de protección de datos: Hacia un nuevo modelo europeo de protección de datos (Derecho administrativo). Ed. REUS. 2016. Dir. Jose Luís Piñar Mañas. Autores: Borja Adsuara Varela, Carlos Alonso Martínez, María Álvarez Caro, & 33 más.

El nuevo marco regulatorio derivado del Reglamento Europeo de Protección de Datos. Ed. WOLTERS KLUWER. 2018.Coord.: José

López Calvo. Autores: Ana Aperribai Ulacia, Román Intxaurtieta Madariaga, Juan Antonio Toro Peña, Javier Puyol Montero , entre otros.

La figura del responsable en el derecho a la protección de datos. Ed. LA LEY. Autor: Belén Durán Cardo.

Cómo sobrevivir al GDPR. Ed. BOSCH. 2018. Autor: Wolters Kluwer.

Guías de ayuda de la Agencia Española de Protección de Datos: https://www.aepd.es/es/guias-y-herramientas/guias

Guías del Information Commissioner's Office (UK): https://ico.org.uk/for-organisations/guide-to-data-protection/

Ciberseguridad Ahora: Conceptos clave para gestionar el riesgo y asegurar los activos empresariales. Ed. Independently published. 2019. Autor: Víctor M Ruiz Lara.

El cisne negro: el impacto de lo altamente improbable. Ed. Planeta 2012. Autor: Nassim Nicholas Taleb.

Ingeniería social. El arte del hacking personal. Ed. ANAYA. 2011. Autor: Christopher Hadnagy.

The Shellcoder's Handbook: Discovering and Exploiting Security Holes. Ed. Wiley Publishing, Inc. 2007. Autores: Jack Koziol, David Litchfield, Dave Aitel, Chris Anley, Sinan Eren, Neel Mehta, and Riley Hassell.

Ethical Hacking. Un enfoque metodológico para profesionales. Ed. ALFAOMEGA. 2010. Autores: Ezequiel Sallis, Claudio Caracciolo y Marcelo Rodríguez.

Ciberseguridad y transformación digital: Cloud, Identidad Digital, Blockchain, Agile, Inteligencia Artificial. Ed. ANAYA. 2019. Autores: María Ángeles Caballero Velasco, Diego Cilleros Serrano.

How to Measure Anything in Cybersecurity Risk. Ed. WILEY. 2016. Autores: Douglas W. Hubbard, Richard Seiersen.