TECHNICAL SHEET OF THE SUBJECT

Data of the subject	
Subject name	Governance, Risk and Compliance
Subject code	DTC-MCS-513
Involved programs	Máster en Ciberseguridad [Primer Curso]
Level	Master
Quarter	Semestral
Credits	6,0 ECTS
Type	Obligatoria
Department	Department of Telematics and Computer Sciencies
Coordinator	Juan Cornago
Course overview	The purpose of this subject is to provide students with a broad insight into the methodologies, regulations, processes, and activities necessary to lead a security organization. This subject will be taught by prestigious professionals who workday by day in the different fields of cybersecurity in private companies. The subject is organized in continuous class format, on a determinate agenda, distributed in 4 hours a week during the first semester. In this period 3 teachers will teach the necessary topics for the student to understand how the security processes necessary to establish a defense proportionate to cybersecurity risks are organized.

Teacher Information	
Teacher	
Name	David Estévez Maestre
Department	Department of Telematics and Computer Sciencies
EMail	destevez@icai.comillas.edu
Teacher	
Name	Gorka Diaz de Orbe
Department	Department of Telematics and Computer Sciencies
EMail	gdiaz@icai.comillas.edu
Teacher	
Name	Juan Francisco Cornago Baratech
Department	Department of Telematics and Computer Sciencies
EMail	jfcornago@icai.comillas.edu

SPECIFIC DATA OF THE SUBJECT

Contextualization of the subject
Prerequisites

Although not strictly necessary, it helps the understanding of the subject to have knowledge of basic concepts of cybersecurity, both technological and regulatory, which will also be acquired throughout the course.

Competencies - Objectives

THEMATIC BLOCKS AND CONTENTS

Contents - Thematic Blocks

- THEME 0. the cybersecurity professional
  - Basic tips for getting started in the world of cybersecurity
- THEME 1. Cybersecurity in Spain
  - What is security
  - Main threats: Where the world goes, Managers, Technology, Security.
  - How cybersecurity is structured in Spain: DSN, INCIBE, FFCCSSEE, CNPIC, CCNCERT, MCCD, AEPD.
  - Cybersecurity within organizations
- THEME 2. Regulations, standards, good practices...
  - In Europe, Spain, USA, Other
  - How to understand a regulation: scopes, structure, objectives, etc.
  - How to create a regulation
- THEME 3. ISO 27001, ISO27002
  - Information Security Management Systems
  - Controls
- THEME 4. ENS
  - What is the National Information Security Scheme?
  - How to adapt
- THEME 5. PIC Law, LOPDGDD, NIS Directive
- Critical Infrastructure, Essential Services and Privacy
- THEME 6. Integrated Management System.
  - What is it? Why it is necessary. What is he going to control? Who is responsible? How it is built. How it stays.
- THEME 7. Cybersecurity dashboard.
  - Measure. Who I am reporting? Every time. How I divulge it.
- THEME 8. Audit.
  - Methodology
  - Case study. Auditing an Organization.
- THEME 9: MANAGING RISK IN ORGANIZATIONS
  - Risk analysis using the MAGERIT methodology
  - Treatment of risks.
  - Tools: PILAR, MOSLER
  - Other risk analysis methodologies.
  - Case study. Performing a real risk analysis in an organization.
- THEME 10: CYBERSECURITY CULTURE
  - The end user, the main player in cybersecurity.
  - How to attract the user's attention.
  - Persuasion in the face of simple communication.

TEACHING METHODOLOGY

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General methodological aspects of the subject

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EVALUATION AND CRITERIA

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Ratings

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- In intermediates: 20%
    - o Understanding theoretical concepts.
    - o Application of these concepts for problem solving.
    - o Analysis and critical interpretation of the results obtained in the resolution of problems.
- Final Exam: 60%
    - o Understanding theoretical concepts.
    - o Application of these concepts for problem solving.
    - o Analysis and critical interpretation of the results obtained in the resolution of problems.
- Proactivity, activity and effort: 20%
    - o Initiative and proactivity at work, and collaboration in teamwork.
    - o Communication skills in writing and verbal presentations.

BIBLIOGRAPHY AND RESOURCES

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Basic Bibliography

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- NIS Directive
- ENISA
- Serie ISO 27000
- Even
- PIC Act
- LOPDGDD
- NIST