**Information Security**

## Prof. Enrico Maria Mancuso; Prof. Alessandro Curioni

Module 1*: information security - Fundamentals* (Prof. Alessandro Curioni)

***COURSE AIMS AND INTENDED LEARNING OUTCOMES***

The course aims to introduce students to the fundamentals of information security and data protection management. In particular, the course aims to introduce students to the understanding of the functioning mechanisms of process and technological security systems and how they are adopted by different public and private organisations. Furthermore, the course will provide suitable elements to understand the structure of certification systems in the field of information security.

At the end of the course, the students will be able to correctly use the taxonomy and language of security information; understand the logic structures and functioning of the system for managing information security; correctly interpret the functioning and capacity of technological cybersecurity systems.

***COURSE CONTENT***

- The European General Data Protection Regulation (GDPR): from data protection to data security.

* The security perimeter of national Cybercrime and NIS 2 regulation.
* IT security, data security and cybersecurity.

- The technological aspects of security.

- The concept of risk in the field of data security and cybersecurity*.*

- Sector-specific regulations: PCI – DSS, Circular n. 285 Bank of Italy, Regulations 38 IVASS

- Security management systems: ISO 27000 and NIST.

- Crisis management and forensic analysis.

- Business Continuity Management elements

- Case studies.

***READING LIST***

The reading list information will be provided by the lecturer at the beginning of the course.

***TEACHING METHOD***

Besides frontal lectures attendance, also direct student involvement, both in seminar modules and active class interaction with the lecturer, will be appreciated and adequately valued.

***ASSESSMENT METHOD AND CRITERIA***

Oral exam. The final mark will take into account the accuracy and quality of the students’ answers, as well as their communication skills and correct use of the technical language. To complete the basic training, attending students may carry out a written research on topics covered during the course.

***NOTES AND PREREQUISITES***

Given the introductory nature of the subject, there are no prerequisites relating to the topics addressed.

Further information can be found on the lecturer's webpage at http://docenti.unicatt.it/web/searchByName.do?language=ENG, or on the Faculty notice board.

Module 2: *Information security – Application profiles* (Prof. Enrico Maria Mancuso)

***COURSE AIMS AND INTENDED LEARNING OUTCOMES***

The course aims to provide students with the basics to understand the importance of information security in the legal context. The analysis of the main sources of law regulating the protection and circulation of information will have the purpose to define the appropriate measures to adopt to safeguard it and the protection assured by the legal system in criminal and court proceedings. The course will also provide the fundamentals of the protection of personal data and confidentiality. At the end of the course, students are expected to have learnt the principles that regulate the subject and be able to understand the systematic links, using an appropriate language.

***COURSE CONTENT***

Information security and the legal framework.

Protection of the freedom of communication and correspondence. Protection of privacy.

Cybercrime and digital domicile confidentiality.

Criminal-law protection of data.

Data protection and corporate responsibility.

The European General Data Protection Regulation (GDPR): fundamentals.

***READING LIST***

The reading list will be provided by the lecturer at the beginning of the course. Exam preparation requires, furthermore, an accurate knowledge of the norms mentioned by the lecturer during frontal lectures.

***TEACHING METHOD***

Besides frontal lectures attendance, also direct student involvement, both in seminar modules and active class interaction with the lecturer, will be appreciated and adequately valued.

***ASSESSMENT METHOD AND CRITERIA***

The assessment of the learning outcomes includes an oral exam with questions on the topics covered in the course. The final mark will take into account the accuracy and quality of the students’ answers, as well as their communication skills, the reasoned and consistent structure of the speech, the correct use of the legal language, and the ability to argue and identify conceptual links.

***NOTES AND PREREQUISITES***

Given the introductory nature of the course, there are no prerequisites relating to the topics addressed.

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