

Syllabus

Course description

Course title	Cybersecurity and digital privacy
Course code	27513
Scientific sector	IUS/01
Degree	Master in Data Analytics for Economics and Management
Semester and academic year	Semester tbd - 2024/2025
Year	2nd study year
Credits	6
Modular	No

Total lecturing hours	36
Total lab hours	-
Total exercise hours	-
Attendance	suggested, but not required
Prerequisites	not foreseen
Course page	https://www.unibz.it/en/faculties/economics-management/master-data-analytics-economics-management/

Specific educational objectives	<p>This course covers the main legal aspects of the current regulatory framework on data protection and cybersecurity. The first part of the course deals with the main challenges to data privacy and security, the cybercrime ecosystem and potential vulnerabilities related to cyberattacks. Particularly, EU-level regulations, such as the Cybersecurity Act and implications for different industries will be covered. In the second part of the course, after describing the main data privacy and general data protection regulations (GDPR) provisions, the rules governing data processing, including the duties and obligations of controllers and processors will be discussed.</p>
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Lecturer	tbd
Scientific sector of the lecturer	NA
Teaching language	English
Office hours	TBD
List of topics covered	<ul style="list-style-type: none"> • Challenges to data privacy and security • The cybercrime ecosystem, vulnerabilities and cyberattacks • Data privacy and General Data Protection Regulation • Comparative privacy and data law around the globe

Teaching format	<ul style="list-style-type: none"> • New directions in privacy and security <p>The course consists of lectures and practical lab sessions. Class activities include discussion of study cases and group presentations.</p>
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Learning outcomes	<p>1) Knowledge and understanding: At the end of the course the students will be able to identify the risks linked to the processing of data and the use of networks. They will also acquire the necessary knowledge to understand the legal tools that modern companies need to deploy in order to tackle the risks in the digital environment and comply with within the current EU regulation.</p> <p>2) Applying knowledge and understanding: At the end of the course students will be able to assess practical situations related to the risks related to data processing. They will be also able to apply appropriate legal rules to comply with the current EU regulation and to address real-world scenarios about risks arising from the modern digital environment.</p> <p>3) Making judgements: Students are expected to be able to reflect on the risks and responsibilities involving data security and protection. Throughout the entire course, students will be invited to apply their multidisciplinary knowledge to critically assess realistic scenarios.</p> <p>4) Communications Skills: This course will give the students the possibility to acquire and understand major terms and concepts so as to communicate effectively their ideas, findings, proposals, analysis and critical reasoning in the area of data privacy and security. A special emphasis will be given to oral presentations and pitches in project group works, and to writing technical reports and documentation.</p> <p>5) Learning skills: This course will empower students with the capability to learn several analytical tools for managing data, and to apply them to real-world problems in an independent and critical way. A strong emphasis will be given to the application of the techniques and tools in relation to business problems that are typical of today's data-driven companies.</p>
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Assessment	<p>There will be written exams (one mid-term exam and a final exam and a continuous assessment component. The written exam will contain essay questions as well as multiple choice questions. Continuous assessment will be based on four lab exercises involving the discussion of study cases in the classroom.</p> <p>The written exams aim at verifying skill 1 (Knowledge and understanding), while the continuous assesment allows to verify skills 2, 3 and 4 (Applying knowledge and understanding, Making judgements, Communication skills). Autonomous study (5, Learning skills) is indirectly verified, because passing the final exam requires working autonomously on several activities assigned by the lecturer.</p>
Assessment language	<p>English</p>
	<p>The midterm exam counts for 30% of the final grade, the final exam will count for 30% of the final grade. Each lab exercise will count for 10% of the grade. For students not taking the lab exercises or the midterm, the final grade in the subject will be based solely on the final exam.</p>
Required readings	<p>TBD</p>
Supplementary readings	<p>TBD</p>