

NOVA Information Management School

NOVA IMS

Course	Informatic Security
Coordinator:	José Barateiro
ECTS	6
Objectives:	<p>The main objectives that should be attained in order to succeed this course are:</p> <ol style="list-style-type: none"> 1: Understand how computer-based information systems are exposed to security risks; 2: Understand the multiple dimensions of influencers that can affect computer security (technical and non-technical aspects); 3: Evaluate the influence of information systems security on today's businesses; 4: Understand security requirements to support current business systems; 5: Acquire technical knowledge to assess security on computer-based information systems; 6: Design and evaluate controls to improve computer security.
Curricular Unit Contents:	<ol style="list-style-type: none"> 1. Information Security fundamentals; 2. Computer security; 3. Managing information security; 4. Risk management for information systems security; 5. Asset management; 6. Threats and Vulnerabilities; 7. Cryptography; 8. Key management, public keys and digital signatures; 9. Web security; 10. Network security.
Teaching methods:	Theoretical component focused on oral presentations and intuitive methods supported by digital contents. Practical component based on oral

	presentations, discussion and resolution of practical exercises and case studies.
Grading methods:	<ul style="list-style-type: none"> • Project (40%): Groups of 3 students; 3 phases evaluation (Intermediate deliverable with feedback; Final deliverable; Discussion). Another option is a written survey in groups of 2 students (the evaluation is based on the written report and a final presentation). Minimum mark: 8.5 • Individual written test (60%). Minimum mark: 8.5 <p>Group project and individual written test grades are rounded to tenths Final mark = 0.4 (Project mark) + 0.6 (Written test mark)</p> <p>Students have the option to be evaluated on a single full exam (same date as first test or in the second evaluation phase). The full exam mark is 100% of the final mark.</p>
Bibliography:	<ul style="list-style-type: none"> • Segurança em Redes Informáticas, André Zúquete, 4ª Edição – FCA Editora de Informática, 2013 • Principles of Information Systems Security, Gurpreet Dhillon, Wiley, 2007