

Centre	University College of Engineering of Vitoria-Gasteiz
Name of subject	26025 – Information Systems Security Management Systems
Qualification	Degree in Computer Management and Information Systems Engineering
Type	Compulsory
Credits	6 ECTS
Year	3
Term(s)	1st
Department	Computer Languages and Systems
Language	Spanish

Outcomes / Objectives

Overview of the different areas covered by Computer Security and of the security issues derived from the use of computer equipment and applications.

Processes of conception, planning and implementation of reasonable security policies and measures in professional environments, making an approach to the knowledge of ISMSs.

Integration of computer security technical knowledge in the ethical, legal and organisational areas.

Syllabus

Information Systems Security Risk Analysis and Management.

Backing up information and back-up copies

Information resource access control: identification and authentication. The digital signature.

Malicious software: security risks and measures

The human factor

Information encoding: usage contexts and basic techniques

Software protection

Planning, organising and administering computer security, audits: techniques and standards

Legal, ethical and organisational aspects: LOPD (Data Protection Act), LSSI (Information Society Services Act) and the Electronic Signature Act.

Methodology

Teaching Method

Face-to-Face Teaching Hours									
Lectures	Seminars	Classroom practice	Lab. practice	Computer sessions	Clinical practice	Workshops	Industrial workshops	Field practice	
40			20						
Student Hours of Non Face-To-Face Activities									
Lectures	Seminars	Classroom practice	Lab. practice	Computer sessions	Clinical practice	Workshops	Industrial workshops	Field practice	
80			10						

Assessment System

General criteria

- Written essay exam
- Multiple-choice test
- Oral exam
- Practical tasks (exercises, case studies or problems)
- Individual assignments
- Group assignments
- Presentation of assignments, readings...

Compulsory materials

Class notes, teaching support materials in the classroom and laboratories. LOPD (Data Protection Act), LSSI (Information Society Services Act) and Digital Signature Act.

Bibliography

Basic Bibliography

- Alvaro Gómez Vieites, "Enciclopedia de la Seguridad Informática", Ra-Ma 2011 (2^a edición actualizada)
- Jesús Costas Santos, "Seguridad y Alta Disponibilidad", Ra-Ma 2011.

In-depth Bibliography

- C.J. Bennett y C.D. Raab, "The governance of privacy", MIT Press 2006
- Beyond Fear. B. Schneier, "Beyond Fear: Thinking Sensibly About Security in an Uncertain World", Springer, 2006.
- Emilio del Perso et al, "Nuevo Reglamento de Protección de Datos de Carácter Personal. Díaz de Santos, 2008.

Journals

- Auditoría + Seguridad informática
- IEEE Security & Privacy

Websites

- www.agpd.es
- www.criptored.upm.es
- www.intypedia.com
- www.rediris.es/cert
- www.inteco.es/Seguridad