

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

## 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

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## 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

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

## Bibliography

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### Basic Bibliography

- Álvaro Gómez Vieites, "Enciclopedia de la Seguridad Informática", Ra-Ma 2011 (2ª 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](http://www.agpd.es)
- [www.criptored.upm.es](http://www.criptored.upm.es)
- [www.intypedia.com](http://www.intypedia.com)
- [www.rediris.es/cert](http://www.rediris.es/cert)
- [www.inteco.es/Seguridad](http://www.inteco.es/Seguridad)