



DEGREE CURRICULUM

# **LEGAL, SOCIAL AND PROFESSIONAL ASPECTS**

Coordination: ARGELICH ROMA, JOSEP

Academic year 2022-23

## Subject's general information

<b>Subject name</b>	LEGAL, SOCIAL AND PROFESSIONAL ASPECTS			
<b>Code</b>	102063			
<b>Semester</b>	1st Q(SEMESTER) CONTINUED EVALUATION			
<b>Typology</b>	Degree	Course	Character	Modality
	Bachelor's Degree in Computer Engineering	3	COMPULSORY	Attendance-based
	Double bachelor's degree: Degree in Computer Engineering and Degree in Business Administration and Management	5	COMPULSORY	Attendance-based
<b>Course number of credits (ECTS)</b>	3			
<b>Type of activity, credits, and groups</b>	<b>Activity type</b>	PRAULA		TEORIA
	<b>Number of credits</b>	1.5		1.5
	<b>Number of groups</b>	1		1
<b>Coordination</b>	ARGELICH ROMA, JOSEP			
<b>Department</b>	COMPUTER SCIENCE AND INDUSTRIAL ENGINEERING			
<b>Important information on data processing</b>	Consult <a href="#">this link</a> for more information.			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ARGELICH ROMA, JOSEP	josep.argelich@udl.cat	2	
ARNO TORRADES, RAMON	ramon.arno@udl.cat	1	

## Subject's extra information

This subject presents the legal, social and professional aspects related with the software industry for its use, so it meets all the legal requisites regarding licenses, regulations and current legislation.

To follow this subject properly there are no need of previous knowledge on specific topics.

## Learning objectives

- Use and disseminate digital content under licenses that promote the spread of culture.
- Understand and apply free and copyleft types of licenses.
- Understand copyright and copyright licenses.
- Prepare the document security measures as established by the Data Protection Act.
- Understand the types of current software licenses available and their conditions.
- Deciding security measures necessary to preserve the Privacitat of personal data.
- Understand the scope of patents and their operation at European and international level.
- Knowing the ethical importance and current legislation of designing interactive accessible applications.
- Understand current legislation on the protection of personal data.
- Use and specify free software licenses that allow distribution of knowledge maintaining intellectual property.

## Competences

### Strategic Competences of the UdL

**CT4.** Acquire basic knowledge of entrepreneurship and professional environments.

### Cross-disciplinary competences

**EPS13.** Capacity to consider the socioeconomic context as well as the sustainability criteria in engineering solutions.

### Specific competences

**GII-CRI1.** Capacity to design, develop, select and evaluate applications and computer systems, ensuring its reliability, security and quality, according to ethical principles and to the legislation.

**GII-CRI3.** Capacity to understand the importance of negotiations, the efficient work, the leadership and the skills of communication in all the software development environments.

**GII-CRI4.** Capacity to write the technical conditions of a computer installation that fulfil the legal standards.

**GII-CRI18.** Knowledge of the rules and the regulations of computing in national, european and international level.

## Subject contents

### Block 1. Legal and operational aspects of the software

#### 1. Introduction to the legal aspects of free software

- 1.1. Software freedom
- 1.2. Open software and free software
- 1.3. Legal Consequences of the free software model

#### 2. Intellectual property: Author rights and copyright

- 2.1. Author rights
- 2.2. The English system of author rights: copyright
- 2.3. Copyright and free software

#### 3. Industrial Property

- 3.1. Patents

- 3.2. Patents and open source software
- 3.3. Brands

#### 4. Introduction to the software license agreement

- 4.1. General considerations
- 4.2. Legal and economic function

### Block 2. Accessibility in Communication & Information Technologies (CIT)

#### 1. Introduction

- 1.1. Disabilities and CITs
- 1.2. What we understand for accessibility in CITs
- 1.3. Accessibility in the different interactive systems
- 1.4. Assistive technologies

#### 2. Legal Framework

- 2.1. National Normative
- 2.2. European Normative
- 2.3. Other Norms
- 2.4. ISO norms related with accessibility

#### 3. Examples of accessibility in common use interactive systems

- 3.1. Web's
- 3.2. Operating Systems
- 3.3. Mobile Devices

### Block 3. Personal and professional responsibility of a Computer Engineer

#### 1. What is expected from a software engineer in a company?

#### 2. What "to be professional" means?

### Block 4. Legislation for Protection of Personal Data

#### 1. Introduction

- 1.1. Legislation
- 1.2. Spanish Agency for Data Protection
- 1.3. Catalan Data Protection Authority

#### 2. Duties of data responsible

- 2.1. Quality of data
- 2.2. Duty to inform
- 2.3. Treatment and Transfer
- 2.4. Duty of cooperation with the agency
- 2.5. Duty of secrecy
- 2.6. Care of citizens' rights
- 2.7. File register
- 2.8. Security measures

#### 3. Document of security measures

## Methodology

#### Large groups

**Lecture:** exposition of subject contents orally by the teacher with the help of notes and/or slides.

**Cases of study:** study contextualized problems and in detail.

**Jobs:** presentation of written work.

**Conferences:** public presentation on a topic related to the subject made by an external expert.

**Written tests:** presential written test.

## Development plan

Week	Description	Classroom Activity Big Group	Classroom/independent work
1	Lecture and cases of study	Block 1, lesson 1	2h/3h

Week	Description	Classroom Activity Big Group	Classroom/independent work
2	Lecture and cases of study	Block 1, lesson 1	2h/3h
3	Lecture and cases of study	Block 1, lesson 2	2h/3h
4	Lecture and cases of study	Block 1, lesson 2	2h/3h
5	Lecture and cases of study	Block 1, lesson 3	2h/3h
6	Lecture and cases of study	Block 1, lesson 3	2h/3h
7	Lecture and cases of study	Block 1, lesson 3	2h/3h
8	Lecture and cases of study	Block 1, lesson 4	2h/3h
9	Written test	<b>First mid-term exam</b>	1h/1.5h
10	Jobs and cases of study	Presentation practice 1	2h/3h
11	Lecture and cases of study	Block 2	2h/3h
12	Lecture and cases of study	Block 3	2h/3h
13	Lecture and cases of study	Block 4, lessons 1-2	2h/3h
14	Lecture and cases of study	Block 4, lesson 3	2h/3h
15	Conferences	Conference external expert	2h/3h
16	Written test	<b>Second mid-term exam</b>	1h/1.5h
17	Written test	<b>Second mid-term exam</b>	
18		Study week	
19	Written test	<b>Recovery exam</b>	

## Evaluation

Acronym	Evaluation activities	Weighting	Minimum score	Group work	Compulsory	Recoverable
P1	Practice 1	10%	No	No	No	No
T1	Mid-term Exam	50%	3	No	Yes	Yes
P2	Practice 2	10%	3	No	Yes	Yes (*)
(*) Recoverable activity with penalization						

$$\text{Final Score} = P1 * 0.1 + T1 * 0.5 + P2 * 0.4$$

In order to pass the course, the minimum grade for all activities with a weight of 30% or more must be greater or equal to 3 (out of 10).

## Bibliography

### Aspectes legals i d'explotació del programari

- Aspectos Legales y de Explotación del Software Libre - Partes 1 y 2, M. Bain, M. Gallego, M. Martínez, J. Rius. UOC.

### Accessibilitat a les TIC

- Legislación Española sobre Accesibilidad para la Sociedad de la Información: <http://www.sidar.org/recur/direc/legis/espa.php>, [http://www.inteco.es/Accessibilitat/difusion\\_ca/Legislacio/Espanya](http://www.inteco.es/Accessibilitat/difusion_ca/Legislacio/Espanya)
- Legislación NorteAmericana (la Sección 508): <http://www.sidar.org/recur/direc/legis/508.php>
  - Sección 508, perteneciente al *Acta de Rehabilitación de 1973 (Rehabilitation Act.)*: <http://www.section508.gov>
- Legislación Europea sobre Accesibilidad para la Sociedad de la Información: <http://www.sidar.org/recur/direc/legis/euro.php#europa>, [http://www.inteco.es/Accessibilitat/difusion\\_ca/Legislacio/Europa\\_1](http://www.inteco.es/Accessibilitat/difusion_ca/Legislacio/Europa_1)
- Normativa Técnica: [http://www.inteco.es/Accessibilitat/difusion\\_ca/Normativa\\_ca](http://www.inteco.es/Accessibilitat/difusion_ca/Normativa_ca)

### Legislació en matèria de protecció de dades personals

- LEY ORGÁNICA 15/1999, DE 13 DE DICIEMBRE, DE PROTECCIÓN DE DATOS DE CARÁCTER PERSONAL.  
<http://www.apd.cat/media/694.pdf>
- Real Decreto 1720/2007, de 21 de diciembre, Por el que se aprueba el Reglamento de desarrollo de la Ley Orgánica 15/1999, de 13 de diciembre, de protección de datos de carácter personal. <http://www.apd.cat/media/2642.pdf>
- Agencia Española de Protección de Datos. Cómo cumplir con la LOPD: información, ayuda y guías prácticas.  
[http://www.agpd.es/portalwebAGPD/jornadas/dia\\_proteccion\\_2011/responsable/index-ides-idphp.php](http://www.agpd.es/portalwebAGPD/jornadas/dia_proteccion_2011/responsable/index-ides-idphp.php)