



DEGREE CURRICULUM

LEGAL, SOCIAL AND PROFESSIONAL ASPECTS

Coordination: ARGELICH ROMA, JOSEP

Academic year 2016-17

Subject's general information

Subject name	LEGAL, SOCIAL AND PROFESSIONAL ASPECTS			
Code	102021			
Semester	1st Q(SEMESTER) CONTINUED EVALUATION			
Typology	Degree	Course	Typology	Modality
	Bachelor's Degree in Computer Engineering	3	COMPULSORY	Attendance-based
ECTS credits	6			
Groups	1GG			
Theoretical credits	6			
Practical credits	0			
Coordination	ARGELICH ROMA, JOSEP			
Department	INFORMATICA I ENGINYERIA INDUSTRIAL			
Teaching load distribution between lectures and independent student work	6 ECTS = 25 x 6 = 150 hours			
	40% --> 60 hours of lectures 60% --> 90 hours of independent student work			
Important information on data processing	Consult this link for more information.			
Language	Catalan			
Office and hour of attention	Josep Argelich Romà: to specify by email. Toni Granollers: to specify by email.			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ARGELICH ROMA, JOSEP	jargelich@diei.udl.cat	4	Arrange meeting by e-mail.
GRANOLLERS SALTIVERI, ANTONI	antoni.granollers@udl.cat	2	Arrange meeting by e-mail.

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

5. Elements of the software license

5.1. Subjective and personal elements

5.2. Objective elements

6. Essential clauses in the licenses of proprietary and free software

6.1. Rights, prohibitions and limitations

6.2. Rights and freedoms

6.3. Guarantees and Liabilities

7. Free Software Licenses

7.1. Overview

7.2. Copyleft and other free licenses

8. The practical effects of software licenses

8.1. Legal aspects related to licensing

8.2. Personal data

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

Evaluation

Acronym	Evaluation activities	Weighting	Minimum score	Group work	Compulsory	Recoverable
P1	Practice court action	20%	3	Yes	Yes	Yes (*)
P2	Practice licenses	20%	3	Yes	Yes	Yes (*)
T1	1st mid-term Exam	20%	3	No	Yes	Yes
P3	Practice Accessibility	10%	3	Yes	Yes	Yes (*)
P4	Practice LOPD	10%	3	Yes	Yes	Yes (*)
T2	2on mid-term Exam	20%	3	No	Yes	Yes
(*) Recoverable activity with penalization						

$$\text{Final Score} = P1 * 0.2 + P2 * 0.2 + T1 * 0.2 + P3 * 0.1 + P4 * 0.1 + T2 * 0.2$$

In order to pass the course, the minimum grade for all activities and exams 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
- 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
- Normativa Técnica: 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