



UNIVERSIDAD DE CÓRDOBA

ESCUELA POLITÉCNICA SUPERIOR DE CÓRDOBA

**GRADO DE INGENIERÍA****INFORMÁTICA**

2024/25 YEAR

**LEGISLACIÓN Y ESTANDARIZACIÓN**

## Course details

---

**Course name:** LEGISLACIÓN Y ESTANDARIZACIÓN**Code:** 101404**Degree/Master:** GRADO DE INGENIERÍA INFORMÁTICA**Year:** 3**Field:** LEGISLACIÓN Y ESTANDARIZACIÓN**Character:** OBLIGATORIA**Duration:** SECOND TERM**ECTS Credits:** 6.0**Classroom hours:** 60**Face-to-face classroom percentage:** 40.0%**Study hours:** 90**Online platform:** <https://moodle.uco.es/>

## Coordinating teacher

---

**Name:** ARAUZO AZOFRA, ANTONIO**Department:** INGENIERÍA RURAL, CONSTRUCCIONES CIVILES Y PROYECTOS DE INGENIERÍA**Office location:** Leonardo da Vinci, Planta Baja LV2B100**E-Mail:** ir1araza@uco.es**Phone:** 636532172

## Brief description of the contents

---

Study the implications of law and standardization for Computer Engineering and IT projects, from a national, european and international perspective.

Get to know organizations and standardization process.

Identify the standards that are required or widely applied and being able to analyze its content and apply them effectively in IT projects, whether in its design or in its management.

## Prerequisites

---

### Prerequisites established in the study plan

None

### Recommendations

None specified

## Study programme

---

### 1. Theory contents

1. Definition and classification of standards.
2. Standardization bodies. Standard development processes.
3. Standards deployment. Certification.
4. Networking standards.
5. File format definition: office documents, graphics, audio and video.

6. Web standards and accessibility.
7. Standards for developing and documenting projects.
8. Information security standards.
9. Information services standards.
10. Law principles and regulatory bodies.
11. Legal aspects of on-line activities (Internet).
12. Cybercrime.
13. Contracts. IT public procurement.
14. Intellectual property: authors' rights and copyright.
15. Intellectual property: Trademarks and patents.
16. Software licenses and content licenses.
17. Privacy and data protection.

## 2. Practical contents

1. Search for standards and law.
2. Analyze standards and law.
3. Application of standards and accordance with the law.
4. Verification of compliance with standards.

## Bibliography

---

De Vries, Henk, Feilzer, Albert, Hesser, Wilfried, et al. Standardisation in companies and markets. 2010. Wilfried Hesser, [www.pro-norm.de](http://www.pro-norm.de)

M. Bain, M. Gallego, M. Martinez Rivas and J. Rius. Legal aspects of the information society. 2010. Free

Technology Academy and Universitat Oberta de Catalunya. PDF disponible en: <http://ftacademy.org/materials/fsm/6>

Otra bibliografía complementaria:

ITIL Continual Service Improvement. London : The Stationary Office (TSO), 2010.

ITIL Service Design. London : The Stationary Office (TSO), 2010.

ITIL Service Strategy. London : The Stationary Office (TSO), 2010.

ITIL Service Operation. London : The Stationary Office (TSO), 2010.

ITIL Service Transition. London : The Stationary Office (TSO), 2010.

Chris Reed, John Angel. Computer Law: The Law and Regulation of Information Technology. 2007. Oxford.

ISBN:978-0199205967.

Bainbridge, David I. Introduction to information technology law. 2008. Longman

World Wide Web Consortium (W3C). Ult. consulta: 2012. <http://www.w3.org/>

IEEE Standards Association. Ult. consulta: 2012. <http://standards.ieee.org/>

## Methodology

---

### Methodological adaptations for part-time students and students with disabilities and special educational needs

Most activities could be made online. However, it is compulsory to attend some activities for evaluation and group

working. Any special case should be reported to the professor at the beginning of the course. Similar alternative

activities will be agreed from the beginning.

### Face-to-face activities

Activity	Large group	Medium group	Total
<i>Oral communication activities</i>	8	-	8
<i>Practical experimentation activities</i>	6	16	22
<i>Projects based on the course contents</i>	16	4	20
<i>Reading comprehension, listening, visual, etc. activities</i>	6	4	10
<b>Total hours:</b>	<b>36</b>	<b>24</b>	<b>60</b>

### Off-site activities

Activity	Total
<i>Exercise and problem solving activities</i>	16
<i>Information processing activities</i>	44
<i>Information search activities</i>	30
<b>Total hours</b>	<b>90</b>

## Results of the training and learning process

---

### Knowledge, competencies and skills

- CB3 Students have the ability to gather and interpret relevant data in the field of computer engineering to inform judgements that include reflection on relevant social, scientific or ethical issues.
- CEC18 Knowledge of the rules and regulations regarding the computer sciences at the national, European and international levels.
- CTEIS1 Ability to develop, maintain and evaluate software services and systems to meet all user requirements and behave reliably and efficiently, are affordable to develop and maintain and comply with quality standards, applying the theories, principles, methods and practices Software Engineering.
- CTEIC6 Ability to understand, implement and manage the security and safety of computer systems.

CTEC7 Ability to learn and develop computational learning techniques and design and implement applications and systems that use them, including those for the automatic extraction of information.

### Assessment methods and instruments

Intended learning outcomes	Examination	Group or individual globalizing projects	Means of practical execution	Students assignments
CB3	X	X	X	X
CEC18	X	X	X	X
CTEC7		X	X	
CTEIC6		X	X	
CTEIS1		X	X	
<b>Total (100%)</b>	<b>50%</b>	<b>20%</b>	<b>15%</b>	<b>15%</b>
<b>Minimum grade (*)</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

(\*)Minimum mark (out of 10) needed for the assessment tool to be weighted in the course final mark. In any case, final mark must be 5,0 or higher to pass the course.

#### General clarifications on instruments for evaluation:

Some activities have deadlines. Once the deadline has passed, depending on the type of activity, either its hand in will not be accepted or a penalty will be applied.

#### Clarifications on the methodology for part-time students and students with disabilities and special educational needs:

Most activities could be made online. However, it is compulsory to attend some activities for evaluation and group working. Any special case should be reported to the professor at the beginning of the course. Similar alternative activities will be agreed from the beginning.

#### Clarifications on the evaluation of the extraordinary call and extra-ordinary call for completion studies:

In extraordinary exam calls, the grade achieved in the evaluation of activities done in the previous call with a period of classes will be kept. For those non passed activities in previous call, the student can request the professor to replace them. They will be replaced by similar activities or an exam at the discretion of the professor.

**Qualifying criteria for obtaining honors:**

*Among those who achieved an excellent grade, those with the highest grades.*

**Sustainable development goals**

---

Quality education  
Affordable and clean energy  
Industry, innovation and infrastructure  
Peace, justice and strong institutions

---

*The methodological strategies and the evaluation system contemplated in this Teaching Guide will respond to the principles of equality and non-discrimination and must be adapted according to the needs presented by students with disabilities and special educational needs in the cases that are required. Students must be informed of the risks and measures that affect them, especially those that may have serious or very serious consequences (article 6 of the Safety, Health and Welfare Policy; BOUCO 23-02-23).*

---