

## 230330 - ETIC - Ethics in Ict

Coordinating unit:	230 - ETSETB - Barcelona School of Telecommunications Engineering
Teaching unit:	710 - EEL - Department of Electronic Engineering
Academic year:	2019
Degree:	BACHELOR'S DEGREE IN TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Teaching unit Optional) BACHELOR'S DEGREE IN ELECTRONIC ENGINEERING AND TELECOMMUNICATION (Syllabus 2018). (Teaching unit Optional) BACHELOR'S DEGREE IN ENGINEERING PHYSICS (Syllabus 2011). (Teaching unit Optional)
ECTS credits:	2
Teaching languages:	Catalan

### Teaching staff

Coordinator: Moll Echeto, Francesc De Borja

Others: Moll Echeto, Francesc De Borja  
Vidal Lopez, Eva Maria

### Degree competences to which the subject contributes

Transversal:

- 04 COE. EFFICIENT ORAL AND WRITTEN COMMUNICATION. Communicating verbally and in writing about learning outcomes, thought-building and decision-making. Taking part in debates about issues related to the own field of specialization.
- 02 SCS. SUSTAINABILITY AND SOCIAL COMMITMENT. Being aware of and understanding the complexity of social and economic phenomena that characterize the welfare society. Having the ability to relate welfare to globalization and sustainability. Being able to make a balanced use of techniques, technology, the economy and sustainability.
- 06 URI. EFFECTIVE USE OF INFORMATION RESOURCES. Managing the acquisition, structure, analysis and display of information from the own field of specialization. Taking a critical stance with regard to the results obtained.
- 07 AAT. SELF-DIRECTED LEARNING. Detecting gaps in one's knowledge and overcoming them through critical self-appraisal. Choosing the best path for broadening one's knowledge.

### Teaching methodology

The presentation of contents is combined with the analysis and discussion of several practical cases, analyzed in small groups and debated by the class as a whole.

### Learning objectives of the subject

- To identify and recognize the ethical implications of technology, especially Information and Communication. Knowing the ethical codes in the field of ICT engineering.
- To understand the main international regulations regarding the ethics of companies.
- To learn to analyze the ethical conflicts taking into account the different agents and their interests.
- To be able to consider various alternatives when faced with ethical dilemmas.
- To have the capacity to evaluate alternative solutions in the whole life cycle of projects based on codes and ethical frameworks.

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### Study load

Total learning time: 50h	Hours large group:	20h	40.00%
	Hours medium group:	0h	0.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	30h	60.00%

### Content

Ethics in Engineering	Learning time: 50h Theory classes: 20h Self study : 30h
<p>Description:</p> <ul style="list-style-type: none"> <li>- Introduction</li> <li>- Responsible engineering</li> <li>- Codes of conduct</li> <li>- Marks of ethics</li> <li>- Analysis of ethical dilemmas</li> </ul>	

### Qualification system

The evaluation will be based on:

- individual participation in the sessions for analysis and debate of the different cases raised during the course. (50%)
- An individual written report of reflection on a specific case. (50%)

### Bibliography

Basic:

Martin, M.W.; Schinzinger, R. Ethics in engineering. 4th ed. New York: McGraw-Hill, 2005. ISBN 9780072831153.

Harris, C.E. ... [et al.]. Engineering ethics: concepts and cases. 6th ed. Boston: Thengage, 2018. ISBN 9781337554503.

Complementary:

Torras, C. La mutació sentimental. Lleida: Pagès, 2008. ISBN 9788497796354.