

29978 - Challenges and consequences of the technical development

Información del Plan Docente

Academic Year	2018/19
Subject	29978 - Challenges and consequences of the technical development
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	436 - Bachelor's Degree in Industrial Engineering Technology 440 - Bachelor's Degree in Electronic and Automatic Engineering 434 - Bachelor's Degree in Mechanical Engineering 558 - Bachelor's Degree in Industrial Design and Product Development Engineering 435 - Bachelor's Degree in Chemical Engineering 438 - Bachelor's Degree in Telecommunications Technology and Services Engineering 470 - Bachelor's Degree in Architecture Studies 476 - 430 - Bachelor's Degree in Electrical Engineering 439 - Bachelor's Degree in Informatics Engineering
ECTS	4.0
Year	4
Semester	Half-yearly
Subject Type	Optional
Module	---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

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A brief video or participatory debate will be introduced in those theoretical and practical sessions where new concepts are introduced. Then through a brainstorming the students present their impressions on these concepts, thus creating a critical debate.

It aims to achieve a learning process based on enriching experiences, creating spaces for discussion and involving students in actual actions that stimulate decisions and conflict resolution.

The tutorials can be used to review both knowledge and the work done by the student. To follow the course contents the student will have the teaching material developed by the teachers.

4.2.Learning tasks

The theoretical teaching of the subject will be developed through participatory classes and conferences. The theoretical teaching will be complemented by tutored working (distributed along the course according to schedule established by the EINA) and autonomous works. All these activities will be supported through the Moodle application, by using the *Anillo Digital Docente* of the University of Zaragoza.

4.3.Syllabus

- * Technique: Logic and consequences
- * Technical progress: sustainable development, climate change and the consequences of technical development on the environment.
- * Revolutions, digital eras and Industry 5.0
- * The transformation of the space concept and reference systems.

4.4.Course planning and calendar

The theoretical lessons will be complemented by case studies, distributed along the course. All these activities will be supported through the Moodle platform, using the *Anillo Digital Docente* of the University of Zaragoza. There will be a final delivery of the course work.

The dates set for the work presentations will be communicated to students at the beginning of the course, and by the Moodle application of the subject, considering the academic calendar of the EINA.

4.5.Bibliography and recommended resources